A STUDY OF EFFEMINATE BEHAVIOUR IN BOYS

CENTRE FOR NEWFOUNDLAND STUDIES

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LA THÈSE A ÉTÉ MICROFILMÉE TELLE QUE NOUS L'AVONS RECUE

Ottawa, Canada K1A 0N4 A STUDY OF EFFEMINATE BEHAVIOUR IN BOYS

Uma Sreenivasan, M.B.B.S., D.C.H., FRCP(C), FRCPsych.

A Thesis submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy

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ABSTRACT

Effectings is an attribute of gender, meaning theirby, that cestain characteristics are present in boys or men which and considered to be appropriate for girls or women. The ekistence of such an entity in this context has been recorded in myth and legend; ancient and modern history.

In this research, an attempt was made to assess the prevalence of effeninacy in a consecutive series of boys aged 6-12 years who were courting referrals to a child psychiatry clinit. Effeninacy was not the reason for referral in any of the boys.

Effenincey was measured as a quantitative vertable by sessining weighted scores to a number of teem obtained from the literature and from discussions with established researchers in this field. Of one hundred boys assessed, 13 per cent moored high, 39 per cent moderate and 46 per cent to wom Effeninary.

A number of factors were shown to be rebured significantly to the presence of high scores on Effeniancy. Other factors, also suggested in the literature to be important, were looked for, but did not relate significantly.

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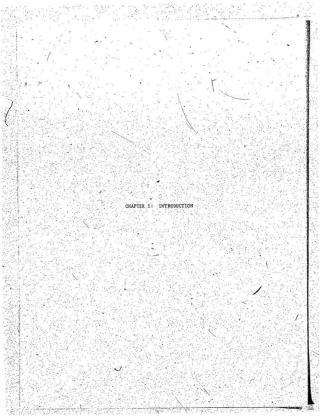
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CHAPTER 1: INTRODUCTION

Physical differences between male and female are incontrovertible. They may vary qualitatively and quantitatively depending upon tacial differences and sociocultural practices, but physical dimorphism is universal in the human race. What we generally think of as masculine or feminine behaviour, on the bither hand does vary considerably, according to the cultural lineightutions of the time in each society. The code of behaviour laid down by one society for the male in respect to occupation may be reserved for the female in mother. In spite of this, cross-gender behaviour in its milder forms is widespread. Sometimes this may only involve mannerisms reminiscent of the opposite each in others the choice of hobbies, sports or career may be out of tune with the social code and attract disapproval. These discrepancies can become a problem causing social difficulties and attracting clinical attention. Infrequently, a constellation of cross-gender attisudes and behaviour becomes the core of clinical syndroms.

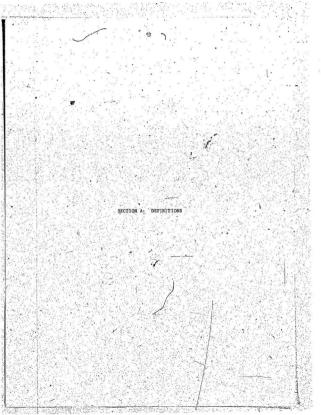
Although seemingly unequivocal, the concepts of "masculinity" and "feministy" as well as other related terminology are subject to great confusion in the literature. Froud drew attention to this in his book, "three contributions to the theory of see" (1924). In Froud's own interpretation, the concept of "masculinity" and "feminisity" can be carved into three paths. The first is the use of the two terms in the sense of "activity" and "passivity". For freud, activity and libide are masculine in value, biologically roosed and associated, with the leading erogenous tone in each sex. The second meaning, also biological conceives of masculinity and feminisity as indicated by the production of sperms and ove respectively. Related manifestations

such as stronger muscles, aggression and greater intensity of libido are said to be "soldered to the biological masculinity" as a rule, but not necessarily connected with it, as in some animal species these qualities are attributed to the female. The third, the sociological meaning, receives fise-content through the observation of "actual" existing male and female individuals". The result, according to Freud is that biologically and psychologically there is she pure masculinity and feministry. He predicted that future research would show that the gonade are hermaphroditic in higher animals. Freud disrigarded the other aspects of masculinity and feministry restricting hisself to the first path because, for his, the biological meaning to the sense of activity and passivity was the essence.

Contrary to Freud's prediction, research has shown that male and female gendrypes are distinct from the time of fertilization, and under-mormal circumstances, prevent the development of biscously gonads. The present study is concerned with effeminacy, a concept which is obviously related to the 'field of masculinity and feminity. In order to clarify the subsequent discussion therefore, operational definitions will be given of words such as sex, gender and related terms as well as a number of relevant clinical syndromes.

Structure of Chapter I

Section A will consist of operational definitions of words such as axe, gender and related terms as well as a number of relevant clinical syndromes. Section B titled "Preamble" will survey the literature taking in both animal and human studies as they relate to the topic of this chassis.



SECTION A: DEFINITIONS

i. Sex

The word sex is an umbrella term signifying many things:

- a. It can be used to mean the division of species into male, and female.
- b. The word sex may be used in connection with everything in an organism that subserves the function of reproduction.
- c. It may signify all behaviours leading up to and including saxual intercourse.
- d. The phenomena of sexual instincts and their manifestations come under the same rubric.
- e. Finally the word is attached to a variety of related themes,
 often innovative such as sexuality, sex appeal, sexism, etc. (Webster's
 International Dictionary, 1966).
- To be more specific and avoid ambiguities, the word sex, is reserved here to indicate only those features directly connected with reproduction. It will not include croticism and gender behaviour.

 2. Gender

This word is often used interchangeably with "sex". In Webster's International Dictionary (1966), gender is gefined as referring to the division of the species into masculine, feminine, mixed and meuter. In this study the word gender refers to the social attitudes, behaviours and roles pertaining to either sex and includes subjective identification with that sex. Gender, therefore, carries both behavioural and phenomenological aspects. The phenomenological aspect carries greater clinical significance as it involves cross-gender identify which in its most extreme and lasting form is known as transgexualism. As defined here.

(attitudes, behaviours, roles and identity), the word gender has to be differentiated from evority orientation as well. The behavioural and phenomenological aspects of gender and evoticism have not been treated separately by many workers including Benjamin (The Transsexual Phenomenon, 1966). An actempt to clarify these issues in relation to the clinical syndromes which are associated with disturbances in each of these areas has been made by Stoller (Sex and Gender, 1968, 1975).

Effenincy is an attribute of gender. One understands by it that certain characteristics are present in Doys or men which are considered to be appropriate for girls or women. To quoce Mebster (1965) again, "an effeedinate man shows weakness, tenderness, delicacy, emocionality, and practices affectations and extravagances". For the purposes of this study, a number of attitudes and behaviours considered typical for girls and atypical for boys are included. These are, a distlike of rough and tumble play, excessive dependence on, and closeness to mother, preference for the toys, games, roles and company of girls, and in extreme cases such outright deviant behaviour as persistent cross dressing and assertions of a desire to be a girl. The focus of this study hodewarts on effentinate attitudes and behaviour short of those last extreme, deviant-states. The latter, while having some attitudes and behaviours is common, cannot simply be categorised with boys showing sems sharacteristics usually associated with girls.

Of course, beliefs about appropriate behaviour for boys and girls ...

have varied in different cultures and in different times. Thus today's

liberated woman behaves very differently from her Victorian grandmother.

Even so, each epoth and culture has preserved and sustained "gender"

differences, and the deviation from contemporary standards in this regard constitutes the basis for this work.

4. Eroticism

The words "crotte" and "crottciam" pertain to sexual arougal, acteraction, passion, etc. and do not refer to the attitudgs; roles; behaviours and identity subsumed under the wordstander. Under normal circumstances eroticism implies sexual arousal by the opposite sex. When there are deviations in this category, often-referred to as sexual perversions, one understands that the object which arouses sexual desire is unusual as in homosexuality, fetishism, pedophilis, sedism, etc. Deviaht eroticism such as homosexuality must be distinguished from effeninacy as the latter can to a large extent vary independently of arousal by a person of the same sex. While the classification of male homosexuals into "maculine", and "effeninate" is well known, it is usually not appreciated that only a small minority of homosexual men are effeminate, although almost half claim to have been effeminate in childhood.

RELATED SYNDROMES

Corrain terms which are relevant to this investigation have been defined. Within the sphere of meaning of each term abnormalities and deviations can and do occur. When these deviations are the source of great distress to the individual on their in the environment, they constitute disorders, in which tase they may assume clinical importance. In particular, there are four syndromes which may be related to the abnormalities under the terms of definition. They will now be defined and differentiated from effectionary.

1. Homosexuality

This work refers to erotic relations between members of the same eax. A person is said to be homosexual if he or she is erotically aroused by someone of the same sex, either in addition to heterosexual arousal, or exclusively so. Although Hirschfeld (1913) and Ellis (1936) had attempted to provide estimates of its incidence, the first systematic study was by Kinsey et. al (1948). Kinsey's operational definition "physical contact to the point of orgam over a period of three years" was behavioural ignoring the eisence which is phenomenalogical. In that study, 37 per cent of the white mule population had been homosexual between the onset of adolescence and old age. Only 4 per cent were exclusively homosexual lifelong, while 50 per cent were exclusively heterosexual, in the same way.

The relationship of this abnormal erotic disposition to effeminacy is complex. Some overlap between effeminacy and homo-sexuality does exist which is the basis of the popular sereotype of the homosexual man. The relative frequency with which this occurs is not well established and some workers deem it a myth (Moffman, 1977). Kinsey also uses the gradation between exclusive heterosexuality and exclusive homosexuality to debunk the stereotype; by way of contrast, those workers who have followed up extremely "femining" boys, view effeminate behaviour in childhood as a precursor, in the main to homosexuality, but also to other stypical outcomes in adolescence and later, in about half the cases. Oreen (1976) has reported on 27 of 55 effeminate, boys who had reached adulthood. Fifteen were homosexual, transvestic or transvessul. Bakin (1986) traced ten of fourteen effeminate boys and two of three pasculine girls seen in childhood. Only the boys showed a high

risk (four certain and two questionable homosexuals), while both girls appeared to be well adjusted wives and mothers. This also supports the view that temboyism is not so great a distortion in development and is usually quelled by the outward signs of puberty. Zuger (1978, 1980) goes so far as to say that the majority of male homosexuals have been effeminate in childhood, but have given up the effeminate mannerisms in adolescence. Lebovitz (1972) selected 36 boys for having been seen chiefly for effeminate behaviour between 1952-1967 in a child psychiatry clinic. Sixteen were traced, now in their twenties, of whom aix were homosexual, transvestic or transacxual. Whitam (1977, 1980) in am, investigation of adult male homosexuals and heterosexuals in the United States, Garemaia and Brazil, reported that the tetrad of (i) doll play, (iii) preference for the company of girls or women. (iii) being labelled a sissy and (iv) homosexual play in childhood was significantly more common for the homosexual play in childhood was significantly more

while the prognosis for markedly deviant boys may be correctly gauged by these studies it seems unjustified to extrapolate that most male homosexuals have been effeminate boys. A scientific population study would most probably refute that theory. The relationship between male homosexuality and effeminacy may be further clarified by considering the definitions of "gender" and "eroticise". In male homosexuality erotic susceptibility is reversed but gender (attitudes and behaviour) is masculine except in a small minority as cross-sectional studies show (Hoffman, 1968, 1976). Effenince, on the other hand, refers to some attinguistmal and behavioural characteristics properly associated with the opposite six, but is perfectly compatible with heterosexual erotic orientation.

2. Fetishism

This is a disorder of eroticism, in that the object of strust desire (the fetish) may be an insafante object meant for a woman such as a shoe, coat, etc. or it may be a non-genical part of a woman's body such the foot, hair, etc. Petishiats appear to be almost exclusively male. In 1887, Binet not only differentiated normal and morbid aspects of fetishism but also brought out the role of association, learning as a cause of fetishism (Moenig, 1977). The wearing of the odd female garment or article in this context must be differentiated twom effensionsy as it has mothing to do with gender artitudes and

3. Transvestism

This word refers to the wearing of clothes appropriate to the opposite sex, for the purposes of sexual arousal and gratification. The incidence and prevalence of this syndrome is unknown, but it is believed to be relatively common. The act of cross dressing is accompanied by sexual excitement, and as such seems to be present only in men. Steller (1975) among others, describes these sen as not being effentiance, and heterosexually oriented. Effeninacy in boys therefore is not to be confused with transvertism.

Transvestism may be a transient phase for pome transsexuals who lated lose the erotic aspects of cross dressing (Hoenig et ål, 1974). Before transsexualism was sifted out of the heterogeneous group bf cross dressing syndromes, case descriptions of "transvestites" contained many individuals who would now be willed transsexual. This also applies to many of the individuals Negeribed by Hitschild (1910) who first used the term transvestion. Hirschild's main concern was to seminate these

cross dressers from homosexuals. Some transvestites like to appear in public in female attire, the exhibition usually, but not invariably . , adding to the erotic gratification. This syndrome, especially in the absence of erotic associations, which comes close to Ellis' "Eenism" is perhaps the least understood of all the cross dressing abnormalities. The Chevalier d'Eon de Beaumont, an eighteenth century Prench nobleman and diplomat, alternately dressed and lived as a woman or as a man for many years while continuing to perform his duties in France and abroad-(Ellis, 1936). There are many such historical as well as contemporary figures. In most cases, however, the effeminate behaviour is not sustained, and there is no conviction of possessing a feminine identity. Outside the episodes of effeminate behaviour consisting of cross dressing which is mostly sporadic and usually associated with eroticism, gender behaviour is masculine and erotic interest is usually heterosexual. When cross dressing occurs over extended periods of time as in the case of Chevalier d'Eon, with erotic aspects absent or very much in the background, differentiation from transsexualism can be extremely difficult.

There is no doubt that effentincy is an essential ingredient in transvestism, but often more as on aim than an archivement. In reality, patients in their cross gender clothing and make-up often appear genesque, precisely because they are lacking effentinacy.

4. Transsexualism

In this very unusual condition individuals believe firmly that they belong to the opposite sex, their physical status being as it were of Overor of nature. The physical attributes proclaiming their sex are repugnant to them, and they seek sex-change surgery. The

growth of gender identity clinics is a result of the large number of such patients seeking help after Christine Jorgensen popularised the idea that men could become women. Prevalence rates have been calculated by Walinder in Sweden (1965) at 1:37,000 for men and 1:103,000 for women, and by Hoenig and Kenna (1973) for England and Wales at 1:40,000 for men and 1:154,000 for women. The majority of transsexuals, claim to have felt that they belonged to the opposite sex from early childhood, claims which are sometimes difficult to substantiate as the patients are often alienated from their families. Transsexualism cannot be classed with sexual deviations, as erotic gratification, which could be homo- or hetero-erotic; is not the motive for seeking help and castration is accepted readily (Hoenig et al, 1974). The word transsexualism was first used by Cauldwell in 1949 (Psychopathia Transsexualis), and given currency by Benjamin (1966). Although the claims of transsexuals hat the disorder began at the earliest age has prompted the study of cross gender behaviour in childhood, the syndromes of transsexualism and boyhood effeminacy are quite distinct. Transsexualism is an extremely rare condition with a delusion like belief or overvalued idea that one is held prisoner in the body of the wrong sex, while effeminacy is a matter of the degree of nonconformity in attitudes and behaviour with culturally established norms

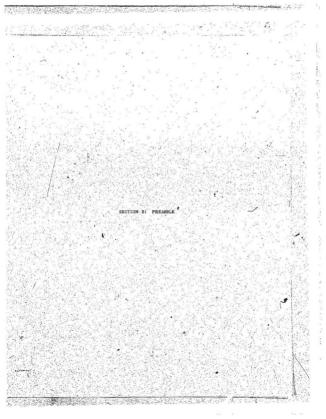
There is a tendency in the literature to blut and obscure the differences between transsexuation and other entities such as effentnacy, honosexuality and transvession by mixing up the behavioural and phenomenological aspects (Handell, 1959). The introduction of terms duch as "gender dysphotial" and "gender spectrum disorder" is symptomatic for as

we'll at serving to eastain the confusion: There is of course a relationwhip between effeminacy and transservalism in gender behaviour, in that transfervals abjet to learn effeminach behaviour with varying degrees of success, but phenomenologically they are quite distinct as effeminacy hardly ever indicates that a boy believes himself to be a girl.

The four related syndromes reveal a qualitative difference from established norms - gender identity in the case of transsexualism and eroticism in the case of the others. Effendancy per be it a quantitative difference, requiring an accumulation of teems to justify the term.

In summary, it would appear that effeminacy can at times be

associated with these syndromes. In the case of transsexualism the patient depires to acquire effeminacy; in the case of transvestical there can occur a transient, playful identification with females and an equally transient, playful erocically tinged initation of feminine ways; associates though by no means regularly the same can happen in the case of fetishists, and a proportion of homosexuals - a minority display effeminate behaviour. None of these is identical with effeminacy, but the latter is, serely peripheral to these syndromes. Effeminacy occurs by itself in persons who do not show any of the above syndromes. In fact, the wast majority of effeminate males fall into this, category.



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SECTION B: PREAMBLE

. 1. Biological Studies of Sexual Dimorphism

It is usually caken for granted that one can recognise which sex a person belongs to at a glance. The arrival of unisex clothes, and hatrstyles in the second half of this century aroused much foreboding precisely because this confidence was shaken.

Physical sexual dimorphism is by no means universal. Among birds many species lack dimorphism to such an extent as to cause problems of breeding in captivity. Even among mammals some, like the hyena, show this deficiency. The human animal in fact, is a case of extreme sexual dimorphism in spite of minimal cytogenetic differences (Ohno, 1979). Aside from the primary and secondary sexual characteristics, the larger size and greater strength of the male have been aided by the division of labour. Modern technological advances may have reduced the importance of muscular strongth, but only to a limited extent. Marked sexual dimorphism in animals as well as man is traditionally linked to polygynous social structures. Such organizations reap the evolutionary benefits of increasing the number of progeny sired by the strongest males. For the evolution of human intelligence on the other hand, prolonged childhood and education linked to the non-aggressivity of the female has been important. At the same time progression to monogamy has occurred without man losing his greater aggression and strength, which may be related to the problem of male chauvinismi-

With more uncertain and controversial is the topic of psychological dimorphism, and whether there are differences between the "male brain" and "female brain". Reference is made in a later section to a nucleum in the male are brain which required temporare for its full.

development, and is shaller in female rats. From early, adolescence girls have greater verbal shilities and boys matheastical and visuo-spacial shilities. Stafford (1961) suggests an X linked recessive mechanism in the inheritance of visuospatial abilities, such a gene being more likely to be manifested in boys. Thus there are hints of differences in male and female brains, but at this time these are reasonable deductions rather than reitabilished findings.

11: Cultural and Historical Studies in the Area

We turn to students of society, culture and history for some / innevers to the question of whether there have always been differences in gender types, and how they have varied. It is hoped that the disciplines of history, anthropology and sociology can throw, some light on how gender differences come about.

a. It is clear that gender differences have always been present, whether one takes the historical view or the cross-sectional view of anthropologists who report on myriad sociaties ranging from the extremely printitive to the highly sophisticated (Mead, 1950). Even within printitive societies gender attitudes and behaviour can vary greatly or very little. In Sex and Temperament (1939), Mead describes three New Guinea tribes. Among the Arapesh, sex differences are minified, with a subdued sex drive. In the Tchambuil tribe women are dominant, managing and cold while the men are less responsible and emotionally dependent. The Mundungumor men and women are qually ruthless and violent with from sex drives and windard introduction behaviour. Mead draws the Conclusion that human behaviour is umbelievably mallesble. Nurdock (1949), mother

well known anthropologist states that it is unnecessary to evoke inmate psychological differences between the seres. "The indisputable difference of reproductive function lays out the broad line of cleavage for the division of work. Early childhood sex-typing and habituation in adulthood to certain occupations, lead to sex differences in temperament and not vice versa." However within anthropology there is considerable disagreement about explanations (0'andrade, 1964). In a cross cultural study of child reasing in six societies, boys were more aggressive and girls more iffectionate and responsible, in all six (1. Whiting, 1963). The fact that the largest sex difference occurred in the younger age group. (3-6 years) rather than the older (7-10 years) suggests that the reasons for the difference are immate sex-linked behavioural tendencies x ather than child training practices.

b. The vast majority of human societies organize their sociecultural institutions around the men. An example of this is that rules
of residence and property descent result in kin-related males grouping
together (partifineal and partilocal). There is an intricate relationship
between the division of labour by sex, subsistence activities that involve
mostly male affort—agriculture with cattle and animal humbindry occur
with the partilinal and patrilocal societies. Agriculture without
cattle depends on agreater proportion of female labour and is likely to
occur with matrilineal descent and matrilocal or avunculocal residence.
Tied into the patriarchal system is demul restrictiveness for the someon
Of 565 societies studies only four are polyandrous, 427 polygmous and
134 monogamous (Mordock, 1937).

d. While gender differences seem to have been immenorial, each age and society has had its own deviants. The existence of individuals when did not conform to their assigned sex has been recorded from earliest history. In Mindulan the God Shiyu is compelmen depicted in statuce as a hermaphrodic; the Cod Vishos assumed female form to vanquish a demon (Bhavatha Pirana 9-10), and the great epic Mahabhatatha mentions a woman, Shikandi, who attempted to change her sex and fought as a soldier (Marayam, 1978).

It was mecassary to warm the early Mebrews against wearing the cloches of the opposite sex, "for all that do are abemination unto the Lord thy God (Dest. 22.5). The early dermands considered transvestites a liability for military service and drowned them (Ellis and Abarbanel, 1971). The literature on this is wast and has been described though sever entirely summarised (Misschfeld, 1910; Bloch, 1902).

In early and later history, social and religious taboos appear not to have inhibited the aristocracy and revalty in the same way as lesser portals, and eminent men and women were transvestites. Well known examples are the Roman Emperor Elagabalus (A.D. 205-222); Prince Philippe, Duke of Orleans and brother of Louis XIV; the Abbe de Choisy and King Hanri III of France (Ellis and Abarbanel, 1973; D.G. Brown, 1977). The Chevalier d'Eon caused Havelock Ellis to name the condition Eonism (1936). Well, known among female transvestites is the case of James Barry who as a young female Scottish aristocrat joined the army in male attire and rose to Shedome Inapector General of the English Army Medical Department: Ne served in Ganada where he sleed died. His true see was established post mortem (Ellis, 1936).

Turning to actudies of the present times, Weid (1950) in discussing variations in masculinity and festininity, states that in every society she had studied it was possible to distinguish those who devided sharply from the expected physique and behaviour for their sex, and who make different sorts of adjustment to the cultural ideal, with some rehelling or committing suicids. Although Mead considers gendex behaviour "umbelievably malicable" she describes the deviants as constitutionally determined types in maleness and femileness.

Some societies institutionalism transvastites as in the case of the Hijiras of the Indian subcontinum (Shah, 1973). They form a community of nen who are elaborately dressed as iemales admitting only male enunchs and some hermaphrodites. They function as homosexual prostitutes, but may also be popular as singers and dancers. Among many North American Indian groups make transvestion is encouraged and various

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sorts of initiation, decements are held to integrate the trabevestice into the adopted gender. Such traditions appear to be related to their belief in shamaniam. Shamms or priest-doctors are credited with sorcery and healing and come from the ranks of male transvestits trained to their vocation from childhood (Frazer, 1955; Brown, 1973). They exist also among the Inuit. Fewer in number, are females who insist on male dress and occupation from childhood and may become shamms.

In summary, gender differences seem to have always existed, shough with great variation, and sometimes with role reversal. The variation is limited by the potential and restraints of biological inheritance and the need to organise social institutions around reproductive function and division of labour. No matter what the society's code in gender behaviour, each society has its own deviance.

We come back again to the question, how do these differences come about? For physicians, the narrower question of how deviations from the norm come about is even more pertinent.

Controversy about the relative contribution of biological constitution on the one hand, and a variety of environmental factors on the other, to the final human "product" in terms of intellectual capacity and personality, as reflected in achievement, mood and behaviour is longstanding. From the perspective of some behavioural scientists the biological matrix of the infant is a virtual tabula rasa on which social, political and cultural forces operate. For those behavioural actentists who are rooted in learning theory it is enough for the child's caretakers to provide adequate attention to shape intelligence and

personality, including gender behaviour along desired lines. Contemporary psychoanalysts also emphagize mothers' behaviour towards their fiffants in producing deviant psychosexual development, but they also have laborate hypotheses of psychic amoremalities in the mothers which fuel abnormal attitudes and behaviour in the infants. Other scientists take the view that physical and biological factors innate in the sexes play the dominant role, whereas socidcultural and political forces merely accommodate as well as modify the expression of these inherent tendencies. The identification of such biological factors has so far not reached any finality.

During the past century, electdation of the role of endocrine secretions, neural control and biogenic anines, along with modern methods to study behaviour introduced by ethologists have led to fresh knowledge about sexual disorphism in animals as well as humans. The development of dimorphic behaviour as regards sex and gender with conjectures about the etiology of deviation will be discussed for animals and humans separately.

A. Animals

Among animals, each sex has a characteristic pattern of behaviour centred around the reproductive function which is aspecies specific. Behavioural differences in males and females in other respects are less clear cut, although there is a general belief that among shammals the female of the species is less aggressive and dangerous. The difficulty in animals of separating erotic behaviour differences from other behaviour differences in the two sexes makes comparison with humans hazardous.

Reproductive, behaviour or mating includes courting behaviour and the sex-act proper. Courting sight be considered as close to eroticism in humans. Equivalent to gender behaviour are treatsent of the young, nest building, grooming, songs, sounds and cries, flighting, territorial behaviour, etc. It is generally accepted that all these behaviours in animals are under instinctual and homonal control, but modifiable by circumitances.

1. Biological Determinants in Animals . . .

a. A great deal of experimental work including the transplantation of ovaries and testicles had already gone on in the first four decades of this century, including the experiments of Steinsch- (1940). In the medical application of his findings he not only claimed to have remedies for sexual disabilities, but also against aging, which induced eminent men to try monkey gland transplants and vasectomy to achieve a regaining of sexual powers and rejuvenation. It was well known in the nineteentwenties and thirties that androgens given to pregnant animals will masculinise the anatomy and behaviour of female offspring. Jost's demonstration (1947) that a secretion of the fetal test is was necessary to initiate male development of the internal ducts, and the experiments' of Phoenix (1959) which showed that the hypothalamus is sexualised by fetal hormones were landmarks. Owing to the availability of animals for experimentation the effect of prematal hormones - mainly testosterone and dihydro-testosterone - in masculinisation of anatomy and mating behaviour is well established. Female pseudohermaphrodite guinea pigs show a level of aggression which is similar to the males.

Other experiences have linked premail stress on male rates to suppression of male copulatory behaviour, and such males exhibit a female pattern of sexual response if castrated and given estrogens (Ward, 1974). This does not occur if prematal stress is omitted. Dörner (1979) has taken this further and used neurotransmitters instead of stress. He speculates that neurotransmitters, directly used or stimulated by stress, through their mediating function in the brain may lead to the suppression of testosterone secretion in the fetua, The result of this would be failure of masculinisation of the brain and development of homosexuality in postnated life.

b. Omgoing research is attempting to link prematal bormones, to the development of actual brain differences. A medial pre-cytic nucleus in the rat termed SDN (assually dimorphic nucleus) is larger in males and secnatally androgenised females, while it is smaller in normal females and castrated males (Gorski et al, 1977, 1978). Testeaterone is necessary to prevent cell death in that nucleus in males.

The courtable song of the male zebra finch (an Australian song bird) is reduced by castraction and restored by sanfrogens. In keeping with this the male and feeale have brain differences in the group of neuronal nuclei, which control the song. There are also brain differences in sleetwicely responsivity that are not related to androgens (Gorski et al. 1977, 1978).

c. Spontaneous_marculinisation of female fectures occurs in animals and could have imperent upplications. Female rate which develop in intra-decise life directly became two male fectures are slightly but significantly macculinised anatomically and behaviourally. Compared to any other intra-uterine position, although biologically female and capable of normal mating. It is hypothesised that androgen secreted by adjoining male fetuses was absorbed (Beach, 1977).

d. Mabbits are the only mammals in which nest building is confined to the female. Castrated females will build nests if treated with estrogens and progesterose, but the castrated male rabbit cannot be induced in this way. This may be seen as an aspect of gender behaviour determined prematally.

2. Contribution of Learning to Gender and Sexually Dimorphic Behaviour in Animals

Though little is known at this time, some 'evidence comes from experimental psychology and ethology. Imprinting plays a role in some species as in the male mallard shown by Lorenz (1964), to be attracted only to other males as an adult if exposed to males alone in the time immediately following hatching. Harlow's (1962) experiments on rhesus monkeys are well known; infants reared in isolation with no interaction with peers are unable to participate in mature sexual activity as adults or to show maternal behaviour. Much of the work on inimal learning has been done in a way to eximinate species differences so that analogies are weak (Skinner, 1966), or strained by ethologists to equate pair bonding in the Greylag Goose and man (Lorenz, 1966). Comparative psychology is now approaching the problem of learning in animals from the ecological perspective - what the animal needs to learn is determined by particular aspects of habitat and life style. It is possible that more knowledge about gender behaviour in animals as distinct from erotic behaviour will come from this approach.

In a number of bird species the full development of the male courtship song depends on the opportunity to hear the adult song at specific stages during development (Mason and Lott, 1976). Reared in isolation such birds produce a song that structurally resembles but lacks the richness of the adult song. On the other hand, the parasitic cowbird lays eggs in the nests of a variety of host species, its young are exposed to a range of adult songs and yet as adults they display the species typical song which is necessary for finding a mate of its own species.

There is an analogy with speech development — that like song development it is notifiable, only within well defined biological limits. Thus in the realm of sexually disciplic behaviour the role of learning is animals appears to be to bring out the fullness of a biologically determined repertoire.

. Humans

1. Biological Foundations of Sex Differentiation

Except for the relatively rare errors of nature, sex determination depends inexerably on whether a Ychromosome is present at barth . Upto the sixth or seventh week of life, the genuss are undifferentiated (Diamond, 1966). Now the genetic switch mechanism operates is still controversial, views being expressed for a gene on the Y chromosome, while some of nature's errors in man and animals suggest factors on x,

Y and autosomes (Polani, 1979). The H-Y antigen which has been conserved in evolution, appears to be the mediator, since no enzymal or hormonal effect of the Y chromosone has been discovered. In some unspecified way a profusion of the histocompatibility antigen on the surface of gonadal cells confers growth and differentiation into a testis. If 46 XX chromosomes are present the gonads normally become ovaries"while in individuals with ,45 XO type gonadal dysgenesis (sterile streaks) is the result. With reference to the H-Y antigen Hoenig (1981) has summarised the later work of Wachtel in the United States and . Eicher in Germany as well as Engel/et al's hypothesis. 46 XY in man and lower mammals can be associated with female morphology and 46 XX with male morphology. Autosomal localisation of the structural gene for the H-Y antigen, whose expression is regulated by an X-linked repressor and a Y-linked inducer are assumed, with mutations in receptor binding, repressor binding and antigen determinants on the autosomal gene resulting in the above morphology errors as well as in some 46 XY male being H-Y antigen negative and some 46 XX females antigen positive.

In normal development, as a result of the presence of H-Y antigen, the fetal tentis produces an androgen which induces massiculine development of the Wolffian ducts, as well as a non-androgenic substants (glycoprotein) to inhibit the Müllerian ducts which then attorby. The fetal ovary may secrets an estrogen to switch the germanial elements to meiosia (Goorge et al. 1978). In the absence of

Fetal testicular secretions Wolffian rudiments disappear and feminine development proceeds.

The undifferentiated external genital tubercle appears at the end of the fifth week and is converted by dihydrotestosterone, a derivative of fetal testosterone, into a penis and scrotum by the thirteenth week. In the absence of testosterone the external genitalia develop into the female type without specific hormone induction after the twelfth week (Tanner, 1978). During the critical weeks of sex differentiation the developing adrenal glands are secreting androgens, estrogen and minute quantities of procesterone; the testis secretes 90 per cent testosterone and small quantities of estrogen and the overy secretes estrogen. progesterone and small quantities of androgens. Diamond hypothesises that closely related and interacting but different sets of neural tissue are involved in the various components of sexual behaviour including reproduction (in Beach, 1976, pp 41-42). Factors of tissue competence, developmental timing and hormone secretion dosage could vary inducing all grades of heterosexuality, homosexuality or trans-Sexuality/to interact with future environmental influences.

It is not known at which of these stages, which neural tissues, and What dosages and combination of horsons secretions have an effect on behaviour. Some pointers do appear from the study and treatment of clinical syndromes. For instance, studies on males with 3 alpha-Reductase deficiency causing fom plied observal genatalia do suggest that testosterons treelf may be involved in male gender identity (Imperato-McGinley, 1974, 1979). This will be discussed in mare detail later. Androgens are responsible for creticism in both sexes and restore libido and function

in male impotency when it is due to primary gonadal failure as in castration (Money and Erhardt, 1972).

Earlier workers such as Steinach, and assets the applied his techniques, believed that effeninery and homosexuality were caused by abnormal testicles. They carried out surgical operations to remove the "diseased" testicles and replaced them with at least one normal testicle and reported "cures" (Maire, 1924).

2. Innate Sex-dimorphism in Behaviour

The study of gender differences present from birth has produced some confirmations and also some changes in jobs beld views. Apart from the external gentials other physical differences exist, at birth. Boys are heavier and have more muscle development (Anastasi, 1956). The newborn girl is physiologically 4-6 weeks more mature than the boythe differential meturation increasing during the years of growth and development (Tanner, 1978). There is no question that the boyth physique is better adapted than the girl's for carrying out vigorous and strenuous physical activities.

Ephavioural differences are not so clear cut. A study of neuborn infants showed that excluding erections, boys and girls have the same amount of spontaneous motor activity (Korner, 1969). In boys however, the activity involves mostly startles (gross motor moverment), and in girls shythmic mouthing, smiles and sucks. Female neonacqu have lower factile and pain thresholds (Lightt and Levy, 1999). Female infants attend more to auditory sequences, and males to visual patterns (Kagam and Levis, 1965), but girly discriminate Setwent faces better (Laujs, 1969). Threen month old girls are significantly more dependent on their mothers than boys when exposed to strange situations (Goldberg and Lewis, 1959). Nothers in turn are more protective and less rough with their daughters than sons and all these differences are still present when children start nursery school (Brindley et al., 1972). The year majority of alliaggressive acts are intitated and received by boys (Shortall and Biller, 1970). Girls are generally much hore protective and nurturant to neucomers in nursery school (McGray, 1971).

Raftler studies favoured girls us being more advanced in language development (from the enset of speech development (foodemough, 1927). Recent studies appear not to show any ax differences but they are too small is pample size (Maccoby and Jackin, 1974). Mouveer it is quite well established that among school children girls have greater verbal abilities. On the other hand beginning at ages 12-13 years boys excel in visual-spatial ability and mathematical skills (Nutr. 1972). Whether these differential abilities are immute or due to cultural standards and social reinforcements is helly debated (Maccoby and Jackilin, 1974), but the evidence seems to favour biological influences (Ountead and Taylor, 1972), although the matter 15 by no means entirely sectled.

3. Evidence from Human Intersexuality

The existence of himmans with ambiguous genitalia was well documented by carlier investigators, such as Krafft-Ebing in the nineteenth concury and Hirschfeld in the twentieth. Their researches areas from their interest and concern for individuals with abnormal sexual behaviour. A variety of disciplines are continuing to study hermaphrodites to . . throw light on the origins of sexual, crotic and gender aspects. Before describing their work a brief review of the types of intersexes will be given.

With modern scientific advances, the whole area has assumed extreme complexity and proportions. Hirschfeld regarded each interexx as a partial aberration from the two axxes in such a way that the group of intersexes could be arranged on a continuum between male and female (quoted from Hoenis, 1977). Such reductionism is no longer considered valid.

The primary classification divides human intersexes into true and proude hermsphrodites. The wast majority fall into the second category because they do not possess the attributes of the "true" hermsphrodite, namely gonadal tissue of both sexes.

3.a True Hermaphrodites

These individuals have both owarian and testicular tissue and over two hundred cases have been reported in the modern cytogenetic era. Cytogenetic nex. is usually 46 CX. Now sex drive and infertility are the rule (Simmeon. 1976).

3.b Pseudo-hermaphrodites

These individuals have unisexual geneds - either ovaries or testes. Their chromosomal remis usually compatible with their geneds - XX with ovaries and XX with testes. Whether they are described as male or female pseudo-hermaphrodites depends on the presence or absence of the X chromosome (Overgier, 1963; Simpson, 1976). Some of these syndromes provide immortant insights reparation biological contributions to

gender attitudes, role and behaviour as well as eroticism and gender identity, and will be discussed in greater detail.

3.b.i Female Pseudo-hermaphrodites

These are 46 XX individuals with overies, classified into genetic and teratogenic types (Simpson, 1976). The word "genetic" is used to mean that the condition is inherited and the word "teratogenic" to convey that fetal development was discorted by an extraneous influence such as medication taken by the mother during pregnancy.

a. Genetic Type

Congenital adrenal hyperplasia (adrenogenitat syndrome) is inherited as an autonomal recessive disorder, leading to deficiency in one of the enzymes involved by the synthesis of corticol. 21-hydroxylare, 11-hydroxylare and 3-01-dehydroxyname. The fotal adrenal gland begins to function in the third month, and deficiency in corticol causes the pituitary gland to secrete raised levels of ACTH. Storoid precursors are elevated and diverted to androgen production in the adrenal cortex. If the fetus is female the external genitalia are virilised, but the Nullerian ducts proceed normally, being independent of androgens.

b. Teratogenic Type

It has been known for the greater part of this century that androgens given to pregnant animals will masculinize the offspring (Oversier, 1963). There have only been occasional reports of similar occurrence in humans until the late nineteen-fifties when the clinical importance for humans was substantiated, due to the adverse effects of treatment with synthetic progestins of pregnant women who had tended to about (Black and Sentley, 1999). The gential tubercle appears in

the ferus at five weeks and female external genitalia are completed by fourteen weeks, and so between 5-14 weeks the fetus is most susceptible to androgen. Bossage, duration of treatment, timing of treatment as well as the potency of the androgen-like drug are crucial for virtilization. Tentoscerone and related androgens are powerful, norethisterone and ethisterone are relatively strong synthetic progestins while progesterone and its 17-001 analogous are week: Genotype may also be involved as only a minority of female fetuses are virilized. Virilizing tymours in pregnant women can virilize the fetus but pregnancy is rare in those circumstances.

The female children born to the two groups described above provide important evidence for the effect of prenatal horsones on behaviour (Money and Erhardt, 1968, 1979). Although diagnosed at birth, correctly reared as girls and the shayme defect treated with fortisol in the case of congenital adrenal hyperplasia, these girls nevertheless differed significantly from control girls. The differences were in showing high expenditure of energy in intense active outdoor play, having more boys than girls as friends, being labelled tomboys by others as well as these laws throughout childhood, increased career interest and lack of interest in baby care. Gender identity was always female and the girls were all heterosexual in adolescence. Pertility, however, was very 10% Eroticism and gender identity on the other hand

c. Gonadal Dysgenesis

These are 45 XO individuals and the clinical picture is usually called "Turner's Syndrome". Several cases were described in the mineteenth.

and twentieth century before Turner in 1938 described a syndrome of sexual infantilism, congenital webbed neck and cubitus valgus. The gaonds are streaks of connective tibsue with no primordial follicles, but Mollerian derivatives develop and the external genitalia are unambiguously female. Deficiency of ovarian horsones is reflected in an infantile uterus and often underdeveloped breasts, but does not appear to affect gender identity or behaviour. A wide variety of chronesomal anomalies are now known to be associated with streak gonads, and the reliability of estimates of incidence is limited by cytogenetic techniques, and availability of tissues. The evidence here seems to indicate that the absence of testosterone secretion in fetal life and later is crucial for such individuals to develop extreme lemininity of consistently.

3.b.ii Male Pseudo-hermaphrodites

a. Testicular Feminization Syndrome

This is an X-linked recessively inherited form of pseudohermaphroditiam, first delimented as a distinct entity by Morris (1933). 46 KV status cytogenetically with bilateral testes which are intraabdominal ort inquinal, yet these individuals have female external genttalls, blind vagins, and no Millerian derivatives. Fajlure of masculinization in spite of adequate testosterone supplies is a result of androgen-insensitivity of the target cells; an androgen receptor required to bind dhydrocestosterone within the cell may be absent (Ohno, 1971). These "girla" grow up into extremely feminine and attractive women without exception. Absence of testosterone in Turner's Syndrome and androgen insensitivity in testicular feminisation appear to result in both these conditions in a rather uniform differentiation into behaviourally feminine individuals.

b. Klinefelter's Syndrome (Seminiferous zubule dysgenesis) Individuals showing this syndrome are 47 XXY males (48 XXXY, 49 XXXXY are rare and always mentally retarded), with an incidence rate of 1:1000 live male births established in several geographic areas. Klinefelter et al (1942) described nine males with small testes, azoospermia, normal external genitalia, gynecomastia, lack of pubertal virilization and often raised urinary gonadotrophin. Testes are small in childhood, and at puberty the seminiferous tubules degenerate and are replaced by hyaline material. Although extra X chromosomes are inactivated, timing and incompleteness of inactivation may be responsible and inactivation may not occur in the germ cells. Gender role and identity disorders ! are not increased, but a long series of studies going back to 1953 have shown that Klinefelter males have a special kind of personality. They are described as passive, shy, submissive, with reduced sexual drive, yet given to outbursts of temper (Forssman, 1970; Nielsen, 1970). A controlled study by H. Hunter (1969) of Klinefelter males in subnormality institutions showed them to be suggestible, submissive, lack-lustre but irritable. Half of this group had no sex drive and the rest were almost exclusively homosexual, but this could be due to a long stay in unisexual wards. In addition, isolated cases of transsexualism have been reported in Klinefelter's Syndrome, but a connection has not been established.

c. 5 alpha-Reductase Deficiency Syndrome

This type of male pseudo-hermaphroditism has thrown light on aspects of, sex and gender. In 1974, Imperato-McGinley et al reported on thirteen families with 24 male pseudo-hermaphrodites. Isolation and consanguisity in a village in the Dominican republic had resulted in the proliferation of an unusual syndrome transmitted as an autosomal recessive gene.

Until recently the villagers had reared these children with somewhat ambiguous but female looking genitalia as girls; not realising that the gonads in the inguinal region or in the "labia" were testicles. At puberty breasts did not develop, the voice deepened, muscularity greatly increased and the clitoris enlarged into a penis, but some and factal hair were deficient. These "girls" although their feminine behaviour had been normal; readjuated themselves into "boya" with no apparent difficulty as their boddes changed.

In 1979, Imperator-McGlinley et al reported on 38 known cases from the same area. Eighteen had been reared unambiguously as girls. They behaved like normal girls and felt to be girls. At puberty sixteen had changed to male gender identity and role, and fater fifteen of these were adjusted to an active beterosexual role while the sixteenth was living alone on an isolated farm. The seventeenth had male gender identity and faterosexual activity but continued to dress and live as a woman. Only one case, the sighteenth maintained female gender identity and was recorrectly seeking surgical reassignment.

In spite of much insecurity and teasing almost all the eighteen had changed gender identity and role spontaneously, once the realization came of being more akin to boys - strong evidence in favour of biological forces. These findings contrast sharply with those of Money et al (1957). who reported that all attempts to change the established gender identity in their mixed group of pseudo-hermaphrodites failed unless begun before the age of three. The deficiency of 5 alpha -Reductase greatly diminishes the conversion of testosterone to dihydrotestosterone. The latter, DHT, appears to control masculinization of external genitalia in the fetus, (therefore causing ambiguous genitalia when deficient), and also is responsible for prostate growth, facial hair, acne and temporal balding later on. Testosterone appears to be responsible for deepening voice. large muscle mass and growth of penis and scrotum at puberty. The greatly increased amount of testosterone produced in each of these patients which begins with-puberty made sufficient dihydrotestosterone available and hence induced the external changes in the direction of masuclinization. Imperato-McGinley et al hypothesize that gender identit itself is strongly influenced by testosterone.

d. Effect of Prenatal Estrogens and Progesterone on Boys

The data on girls subjected to abnormal levels of androgen in fetal life provides strong evidence for the effect of prematal hormons on gender behaviour, without affecting gender identity and erocic orientation. Nature has not provided us with similar errors which would allow the same case to be made for cross gender behaviour in boys. There are some studies on boys exposed to entrogens or progesterone administered to mothers during pregnancy. While these studies are not in the same league as the

ones on androgenised girls, they appear to point to behavioural changes in the direction of effenings. Yalom (1973) studied twenty males in their late teems and twenty fiver old boys exposed in utero to estrogen and progesterone, as treatment for diabetic pregnancy. Decreased aggression, assertion, athletic ability and masculine interests in comparison to controls is reported. Definite conclusions however cannot be drawn as the untreated controls had healthy mothers. Another study reported on 71 children (26 boys and 45 gtris) exposed prenatally to reported on 71 children (26 boys and 45 gtris) exposed prenatally to recombinations of Archetic progestogens (Androgentising) and estrogens. (Reinisch and Karow, 1977). Subjects exposed mainly to progestogens were said to be more independent and self-sufficient while the opposite was true for fibble who recolved mainly estrogens. The results were-not analyzed by sex so that no conclusions can be drawn about dimorphic gender behaviour.

In summary, certain types of human female and male pseudohermaphroditian provide strong evidence for the role of androgens in determining gender behaviour. Pemale fetuses exposed to androgens in utero are diffinitely less "feminine" than control girls, and male pseudohormaphrodites who are able to secrete and have intra-tellular-response to testosterone spontaneously overcome early rearing as girls. Furthermore, pseudo-hermaphrodites who either completely lack or are completely insensitive at the intra-cellular level to restosterone are totally feminine.

4. Evidence from Twin Studies and Family Studies

. At this time there is little available evidence from twin studies about the development of gender behaviour. Evidence only exists for related fields like homosexuality and there they tend to support biological determination rather strongly. The largest and best known study is that of Kallman (1952). Thirty-seven adequately investigated male monozygotic pairs were 100 per cent concordant for homosexuality. In 26 dizygotic pairs concordance was only 12 per cent. Kallman himself regarded the total concordance for monozygous pairs with some suspicion. Smaller series of 3 to 6 monozygotic twins tend to support Kallman's findings (Sanders, 1934; Habel, 1950). Heston and Shields (1969) report on five monozygotic male twins with a concordance for homosexuality of 40-60. per cent and 14 per cent for seven dizygotic pairs. They also reported a family study - a sibship of fourteen with three pairs of monozygotic male twins. One pair was heterosexual and the other two were concordant for homosexuality. Hoenig et al (1974) reported a family from Newfoundland with two transsexuals, as well as a large number of homosexuals, bisexuals and individuals with inappropriate gender behaviour within the extended family.

Even in such a rare condition as transsexualism, Stoller (1975) reports a family with two sons, both extremely effeminate and living as females. Hore et al (1973) reported two brothers of Chinese ethnic origin who sought sex change surgery. In summarising the literature Noenig (1974) lists reports of familial cases of transbexualism or transversism reported by Randell, Lishos, Lokianowicz, Ellis and Krafft-Bbing monng others. Randell's (1971) figures suggest a familial incidence of 2.5 per cent which is extremely high, but he does not clearly separate transsexuals and transvestites. Benjamin (1971) mentions two sets of identical twins concordant for transsexualism.

5. Brain Abnormality and Gender Behaviour

Here again, any evidence is circultous, with reports of brain damage in some cases of transvestism and transsexualism (Wälinder, 1965; Pennington, 1960). Hoening et al. (1979) reported a very high incidence of EEG abnormalities in a consecutive agries of forty-six transsexuals.

6. Lawe Reassignment of Gender

Money's postulates on the influence of the ser of rearing will be referred to later. Many authors have remarked on the unease found in thildren being reared in the "wrong" ex. (Diamond. 1966, 1976; Zuger, 1970; Golubeva, 1970; Ghabrial et al., 1962; Cappon et al., 1959.) Adjustment to the sex of assignment may be overfuled by biological influences asserting themselves. Surgery and reassignment provide great relief even in late adolescence, even in cases where the ability, to function sexually may not be possible.

7. Evidence for Gender Behaviour as a Function of Learning

That the nature/nucture controversy on masculine and feminine, behaviour is not a recent phenomenon is shown by the following quotation from Woll in "The Sexual Life of the Child", (1913, p 43):

"We must not forget the frequent, intimate association between structure and function. Namy, indeed, and above all the extreme advocates of women's rights, prefer to maintain that such assurably differentiated inclinations result solely from differences in individual Modern social learning theory is summarised by Mischel (1966). It is based largely on the work of Bandura and colleagues (1963). In this view the same behaviour elicits different rewards for one sex than for the other and so develops feminin and masculine behaviour. Multation of models even without reinforcement plays a large role also in this theory. At the same time learning theorists are unable to find any avidence that "dependency" is rewarded more in girls and aggression is rewarded or telerated more for boys.

Money's work on sex-reassignment (1993) appeared to show that of gender behaviour along with gender identity camely follows the sex of upbringing. Reassignment of sex after the age of 24 years was said to lead to persistent adjustment problems for the child. In 1963, Koney stated that "like hermsphrodites, all the human race follow the same

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pattern - of psychosexual non-differentiation at birth." In 1968
however, Money stated, "there may well be a fetal horsonal effect on
subsequent psychosexual differentiation. Limited Mf so."

Money's advice on sex-reassignment has been largely accepted, yet Chete are cogent arguments against generalising from his reports. These arguments are summarized by Diagnoid (1966, 1976). The fact that many wrongly assigned individuals ask for reassignment after the onset of puberty points to the endocrine mediation of psychosoxual orientation, as it is, at puberty that adult expression of a psychosoxual basis is being goaded into action: Diamond quotes a report on a familial genetic endocrine problem in the Bominican Republic that causes a large number, of males to appear female at birth, in a small community. Reared as girls, post-pubertal orientation is male and the individuals change gender identity at the time of puberty. This has been discussed more fully under male pseudo-hermaphroditism.

Tuger (1970) has also been critical of Monney. He points out that due to the poorly developed state of cytogenetics, Monney's emphasis on upbringing owed something to Turnes's Syndrome (45, XO) and Testicular Feminization being regarded as males (chromatin negative) who were cell adjusted to being reared as gitls. Later developments suggest that this is matural as individuals with 45 XO have no Y chromosome or testosterome, while those with complete tenticular feministical are externally very feminine and are totally innessitive to androgens.

Imperato-McGinley et al (1979) point out that when Money's hypothesis was accepted techniques for assessing hormones and enzymes were poor. Money's prophecies were self-fulffiling because male pseudo-hermaphrodites were castrated (and given female hormones),

Nevertheless, it is true that there is a strong cross cultural tradition of different stitludes, expectations and behaviour towards the newly arrived child by parents, depending on the baby's sex: Yer, Srush et al. (1978) were unable to find any intercorrelation between measures of sex role behaviour in preschool children and point to the text of any data on stability of sex role behaviour in 6-10 year old children.

In an lartier section innate behavioural sex differences in the nesborn werk mentioned. There are also studies of mother-child interaction which show that mothers behave differently towards sons and daughters from the earliest days (Moss, 1967). In this way mothers' were credited with responsibility for the infants' behaviour. Further studies by Moss as well as others (Galdberg and Lewis, 1967), showed that there are only two important ses-dependent differences; mothers estimulate motor activity more in male infants, and initate and so reinforce vocal behaviour in female infants.

The developmental psychologist Kagam (1977), surveying the psychology of mex differences concludes that "psychhologist differences between the sexes are in large measure the result of differential socialization; nevertheless the general agreement on the content of our fole attodards across many cultures suggests that different societies are responding in the same way to biological differences in wime, bodily proportions, and normal life functions!

* Father's presence and effectiveness as a male model are widely held to be necessary to promote masculinity in boys. Fathers are seen to abhor effeminacy in boys and to discourage it strongly (Goodenough, 1957). However, two independent investigators were unable to establish reduced masculinity ratings in father-absent boys (Butler, 1969; Barclay et al., 1967).

8. Cognitive Developmental Theory

The cognitive-developmental model of the way gender behaviour develops has been outlined by Laurence Kollberg (1966). Bentcally, it is the application of Piaget's stage-theory of cognitive development to the learning of gender identity and roles, giving emphasis to the child's own avareness and self-categorization as a girl or boy. The child's told his given name; similarly he is told of his status as a boy (of girl) and the tendency to Cognitive consistency leads to positive values being given to objects and acts that are consistent both with gender identity, as well as biological tendencies. The studies of Imperato-McGinley et al on the boys with 5-alpha Reductase deficiency seem to support the role of cognition and self-awareness in the development of gender behaviour.

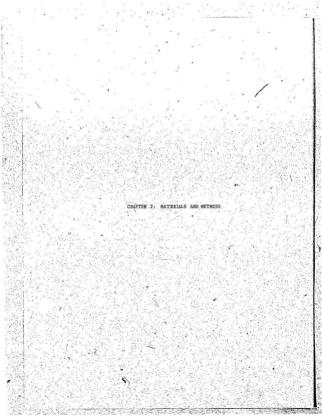
9: Derivations from Psychoanalytic Theory

Psychoanalytically orientated workers evoke the time-honoured concepts of close-binding-darksate suchers and distant fathers to explain a variety of male sexual deviance, especially homosexuality, and including transaguialism (Stoller, 1975; Bisber, 1962). Identification with the father's gender, behaviour and role according to this involves a satisfactory resolution of the cedipus complex (castratton anxiety).

Regarding the development of male transsexualism, Stoller emphasizes that there are some differences from Bicher's theory of male homosexuality. The mother of the future male transsexual has not resolved the female equivalent of the oedipus complex (penis envy). Her son is her treasured phalius, and she promotes a "blissful symbiosis" with him. Such a boy is not demakeulinized: he experiences no oedipal conflict because he feels like a girl, and his fether described as a seto-makes no actions to invertere.

Scolar agrees with blober that the mother of the homosexualto-be boy fosters the child's fear of beys and in this way, his preference for playing with girls and spictien by boys. By infantilising
his he prevents opportunities, for corrective experiences with his
stillings, pears and father. However Siegelman (1974) shows that for
homosexuality, if the subjects are controlled for neuroticism there are
no significant differences in the family constellation of homosexuals
and begeroisxumis. In a similar vein, Freund (1974) points out that,
in the case of effeminate children, the question is open as to
responsibility for the poor father-son relationship, nor do the
findings indicate that the relationship itself caused the child's
showerallities.

To summarise one may, like Diamond state that the genetic and endocrine forces that underlie sexual differentiation are also involved in the organization of cognitive developmental processes, reinforcement qualities and predisposition to instate. The present investigation into effectionable behaviour in boys is an attempt to make a contribution to the ctiological questions raised in the foregoing surveyof the literature.



CHAPTER 2: MATERIALS AND METHODS

1. Setting of the Research

The geographic setting for the research is Newfoundland, a province of Canada which has a homogeneous population of English speaking Cquesiains. Of Irish and British ancestry, the inhabitants rociosulfural traditions are in Keeping with western cultural stereo-types for, what is regarded as appropriate behaviour for the two sexes. The place for the study is the Dr.C.A. Jamesay Child Health Centre, which is the only children's hospital in the province, a major referral centre. The psychiatric service in this centre, which provided the subjects for the study is the only one in the province for children at the Line of the study. The children are referred by other modical practitioners such as family doctors and pegiatricians for the whole gamit' of psychiatric problems in childhood, but so far not for gender behaviour disorders.

The psychiatric agreement of children involves a painstaking evaluation of the medical, psychological and social aspects of the child and his family. It affords a unique opportunity to enquire into gender behaviour, while at the same time collecting data on related areas such as child rearing practices, psychiatric disturbances and other aspects of the family background as possibly affecting the child's sex twoid behaviour.

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2. Design of the Project

The objective of the project is to administer an item sheet which will, (a) identify effeminate behaviour both qualitatively and quantitatively and (b) elicit factual information from the child and parents regarding the presence of factors proposed by well known workers as being relevant to the development of gender behaviour and identity. As the project occurs in a setting of psychiatric assessment many relevant items are elicited as part of the general assessment probess. Specific items on gender behaviour and its development, parental attitudes and gender role behaviour are easily included. The child's psychiatric interview is extended by direct questions as well as some simple projective techniques shown in the literature to be helpful in assessing gender identity.

.3. Hypotheses

Several hypotheses arise from the literature review and from the project in particular.

- It is hypothesised that effectinacy is not an all or none phenomenon - most boys will have some "feminine" characteristics, with only a few being at the extreme end of masculinity or effeminacy.
- ii. Among the extremely effectinate boys a pattern of related factors will emerge which can be used to predict high effectinacy scores.
- 411. Marital conflicts and abnormal child rearing practices reported in the literature as related to the development of effectinacy are not specific to this group of boys but affect children's vulnerability that way that will vary with the individual child.

iv. A relatively high incidence of deviant gender behaviour will prevail in a psychiatric population.

4. Favourable Conditions 'for the Project in the Setting Chosen

- i. As the only referral centre for children, a wide variety of children's thorders are seen. This is not an epidemiological study, and none of the children's being referred at this time for gender, behaviour problems and sampling bias will not be expected from that point of view. As the children have susually been seen in the same hospital for misnor or major non-psychiatric conditions, medical records are available for checking data and additional information.
- ii. The nature of history taking in psychiatry makes the addition of a dimension on gender behaviour painless though time consuming.
- fit. Most of the literature on effective Studying gender from selective studies of clinical populations. Studying gender behaviour in an puselected series within a psychiatric population may be an advantage as it will syon our the family swechoschology.

5. Principles in the Collection of Data-

i. All the children and their parents have been interviewed by the investigator, who he a child psychiatrist and accustomed to interviewing families and children. This should improve reliability. Intelligence tests were carried out by a clinical psychologist. iii. Boys with an IQ of less than -70 were excluded. Defective formation of concepts regarding gender, and difficulties in interpreting interview questions and answers in this group were among the reasons. For similar reasons, children with gross brain damage and early onset psychoses were also excluded: Their numbers were very small and their funciligence levels were also usually below 70.

fv. Information obtained from the subjects and their families was always cross checked with the medical records, in the hospital, with the achool and when available, with social service agencies. This improved reliability greatly.

- v. Both parents were requested to come to the first appointment for a length, interview as a matter of routine. The child's father was sometimes seem at a late' dat's at his convenience. It was not possible to interview all the fathers due to the appointment being rejected, or due to the father being apparated temporarily or permanently.
- vi. The total time taken to collect information for the psychiatric assessment and the research instrument was approximately

2-3 hours. Psychological assessment was usually done at a separate appointment.

6. Measurements

i. Format of the Item Sheet

A sample of the item sheet is attached in Appendix A.

Definitions and instructions are appended in Appendix B.

The item sheet has 151 items classified under seven

categories, A to 0. Parts A to D contain personal and demographic data including family structure, ratio of girls to boys in the sibblip as well as among older siblings, cafeer choice of mother, and similar items considered relevant by other workers. Part E consists of the psychiatric diagnosis of the child on the triaxial method recommended for the Infernational Classification of Diseases (Rutter, 1975). Section P, the parents' questionnaire, focuses on relevant aspects of the child's development. Effominate behaviour and attitudes an noted by the parents as well as the parents' own attitudes and practices are included along with questions on psychiatric or geoder problems in the child's first degree relatives. Section C contains times on the child's appearance, build and responses to questions pertaining to geoder behaviour and attitudes.

ii. Assessment of Effeminate Behaviour

The items of effeminate behaviour and attitudes were collected from the literature. The publications of Richard Green (1974), Kurt Freund (1974), John Money (1967), Eleanor Maccoby (1966), Lawrence Kohlberg (1966), Albert Moll (1913), etc., and discussions with Mr. J. Kenna, Senior Lecturer in Clinical Psychology at Manchester University, U.K., a known authority on gender disorders, have been the main sources.

It has been shown by Futer and Graham (1968), that a reliable interview can be held with a child. Direct questioning of children has limitations imposed by the level of cognitive development and defensiveness. Child psychiatrists have always used indirect methods to elicit areas of anxiety and conflict, best discussed by Kanner (1977). May, drawing, magical wishes and other attempts to explore the fantasy and inner world of the child may be expected to yield information on areas which the child may conceal is anticipation of disapproval or teasing.

Soth direct and projective methods are used in the child's questionnaire. The "disk-a-person test" was first reported by Machover (1969), to reflect the subject's inner gender identity by way of the sex of the first person drawn. This has since been confirmed by Mainford (1953), Money and Wang (1966), Richard Green (1974) and several others. While over 80 per cent of masculine boys draw a male figure first, 60 to 65 per cent of effeminate boys draw a female first—the difference is very highly significant (FQ:001). It is obvious at the same time that false positives are quite common, and a variety of lactors other than effeminacy may influence the sex of the first person drawn.

A second projective test involves the choice of Lichting for a neutral plastic foll and a third the choice of a picture for the chidd's bedroom. More obvious questions are about toys, friends, household chords, sex of closest soults, ambitions, hobbles, games extending to actual cross dressing behaviour, merged into the overall psychiatric interview to be non-intrusive.

The purpose of the items on effeminate behaviour and attitudes is to arrive at a score for effeminacy for each boy. For each item characteristic of effeminate boys a score of 2 was given. If the behaviour or attitude was absent a score of 0 was given, and a score of 1 for uncertain or ambiguous answers. As some of these items are much weaker than others as indications of effeminacy, they were submitted independently to two child psychiatrists and a clinical child psychologist for weighting. Appendix C describes the statistical procedure used to estimate the validity of the independent experts' weighting of the variables. A final effeminacy score for each boy was arrived at by adding all the weighted scores obtained.

Correlations with other factors in the item sheet suspected of influencing gender development were sought by appropriate statistical methods such as chi-square tests, regression analysis, etc.

7. Calculation and Analysis of the Results

The format of the item sheet (Appendix A) allows for the data to be punched on to IBM cards for smallysis by computer using a "Statistical Package for the Social Sciences Program" (Nie et al. 1975).

The results of the computer analysis include frequency tables of of the variables and a femininity score for each boy as shown in Part A of Chapter-4 (Findings).

In order to grovide a control group, it was decided to divide the subjects into two halves (30 subjects in each) for further analysis. It is expected that the most effeninate and least effeninate boys would be at the two extremes with most of the boys showing mild. effeninacy scores.

It is expected that statistical analysis comparing the groups with the lowest and the highest effemtnacy scores will make it possible to make predictions; about etiological variables that correlate significantly with the high score group. These variables can be used to predict the group scoring high for effeminacy in the second half of the subjects. These findings are reported in Part 8 of the Findings.

. CHA THE CASE MATE

CHAPTER 3: RESULTS - THE CASE MATERIAL

1. The Demographic Variables

One hundred boys who fulfilled the criteria were seen during a twenty month period of time. The variables have been analysed separately for the two successive groups of fifty boys.

The following tables indicate the frequency of the variables in the first fifty boys.

Table 3.1
Age Distribution of the Index Cases
(First 50 Boys)
Age in Years

Age	Frequency
Six	6 (127)
Seven	6 (12%)
Eight	9 (18%)
Nine	10, (20%)
Ten	8 ((16%)
Eleven	10 1(20%)
Twelve	1 (27)
Total	50 (100%)

Table 3.1 shows the age distribution of the first 50 boys, wappressed as the age at the last birthday. A distinct trend is seen for more boys aged over eight years. This is in keeping with the general finding that children who are secially disrugitive are more likely to be referred to psychiatric clinics than children whose maladjustment does not affect the environment and that disruptive behaviour becomes less tolarable as the child edges towards adolescence. The small numbers

in the group aged twelve years is due to the cut off point which we twelve years and one month.

Table 3.2

Age Difference between Parents

Category	Number of Boys
Mother olde Father olde Same age in	r 38 · (76%)
Total	50 (100%)

Table 3.2 shows that fathers are almost always older than mothers, 76 per cent. In 12 per cent of cases mothers are older and in the remaining 12 per cent both parents are of the same age in years.

Table 3.3

Service Comments	THE PROPERTY OF STREET
Under 20 years	9 (18%)
20-29 years	30 (60%)
30-39 years	7 (14%)
40+ years	4 (8%)

Table 3.3 shows that simost 60 per cent of the boys were born to women aged 20-29 years, about 20 per cent of the mothers being either less than twenty years old or over thirty years old at childbirth.

Table 3.4 Child's Place in Birth Order

Category	لكي بر	Frequency	
Only child	- 114	8 (16%)	
Eldest		14 (28%)	
Second	18.0	13 (26%)	
Third 2		8 (16%)	Same and
Fourth and res	S. C. 130	7 (14%)	No contract

Table 3.4 shows that 44 per cent of the boyk were first born (combining oldest and only children). The figures bage out the reports of swersal investigators (Adler, 1926, Butter, 1920) regarding the vulnerability of the first child.

Table 3.5

Number of boys and girls in household.

excluding index cases

	of Child	, and	Girls		
One Two			13 16	19	
Three			3	. 0	
Four			0	4	0.7

Table 3.5 shows that the 50 households contain a total of 36 gifls and 41 boys, in addition to the 50 index boys. Thus there is a significant excess of boys to girls in the households - altogether 91 boys and 36

Table 3.6 Religious Denomination

Roman Cath	olic	- 26	(52%)
Anglican		12	(24%)
United Chu	rch	6	(12%)
Other deno	minations	6	(12%)

Table 3.6 shows the religious affiliation of the boys, families. All belonged to one or other Christian denomination. The distribution is roughly in keeping with the proportions of the denominations in the population and page not show any significant trends against the expected distribution.

Table 3.7

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Churc	h Att	endance

	Category		1, ,		Numbe	r of Boys	
1	Regular		7.5	-8	20	(40%)	
ů e	Infrequent	100	a* a	-	25	(50%)	
	None		1200	. 2	5	(10%)	

Table 3.7 shows the pattern of church attendance. The regular church attenders (40 per cent) come from families where at least once weekly church attendance is mandatory for all the children.

Ethnicit

Ca	tegory	* * 1	Fr	equency	Sec. 5
Ca	ucasian		50	(100%)	
Ot	her			de Contract	

Table 3.8 shows that all fifty boys are racially similar, that is white Caucasians.

Table 3.9 School Performance

-1	Category		Free	quency	
	In correct grade	2.4	38 (6)	(76%)	100
	Below correct grade		10	(20%)	
1.4	In special class		.2	(4%)	

Table 3.9 shows that only 76 per cent of the boys are in the appropriate grade for their chromological age. The figure in parenthesis is the number receiving remedial help. However a such larger proportion were in fact not achieving at their grade level in school and were much in need of remedial help. This aspect of the inter-relatedness of social and emotional difficulties with inadequate school performance has been commented on by many investigators, most clearly articulated by Michael Buter (1970). Poor concentration in doing class room work is almost a size qual non of children with a variety of psychiatric problems.

Table 3.10
Education of Parent

Elementary	5 (10%)	5 (10%)
Jr. High	20 (40%)	20 (40%)
Sr. High	24 (48%)	23 (46%)
Univ. Degree	1 (2%)	/2 (.4%)

Table 3.10 highlights the educational disadvantages of the family of origin of the index children. Over 50 per cent of the fathers and the mothers had not obtained more than grade 7 or 8 education. Over 40 per cent attended high school in grades. 9, 10 and 11, but not many of them had matriculated. Only one father and two mothers out of the 800 parent figures had a university degree.

Table 3.11 * Family Structure

1.1	Catego	200	A.	300	Fregu		7
İ	Biolog	cal p	arents	1000	.34 (68%)	
	Single	mothe	r alone	1	6 (12%)	4.5
	Single	mothe her f			47 (8%)	*
. 1	dopti	e par	ents		6 (12%)	

Table 3.11 shows that 68 per cent of the boys are living with a father and a mother of whom at least one and usually both are the biological parents. Twenty per cent are single mother families.

Twelve per cent are living with two parents who adopted the boy in the first six months of life.

2. The Clinical Variables

Table 3.12
Psychiatric Syndromes of the Boys

Category	*	Fr	equency	
1. Normal variation	- 65	2	(4%)	15
2. Adaptation reaction		8	(16%)	21
3. Hyperkinetic disorder		6	(12%)	-
4. Speech disorder	1	1	(2%)	
5. Enuresis	4	2	(4%)	(1) (1) 5)
6. Encopresis	: 1	1	(2%)	
7. Conduct disorder	- 1	11	(22%)	
8. Neurotic disorder	1	14	(28%)	
9. Personality disorder	1	2	(4%)	
O. Other clinical syndromes		3	(6%)	. 14
Total	100	50	(100%)	

Table 3.12 gives the psychiatric diagnoses of the index cases. The classification used is the latest revision of the International. Classification of Diseases, (1977). Four per cent of the boys were considered to be within normal limits. Sixteen per cent had symptoms attributable to the effect of adverse environmental factors. Twelve per cent of the boys were diagnosed as suffering from hyperkinetic disorder. As the prevalence of hyperactivity in school boys of this age is the general population is at least 1.2 per cent (lambert et al. 1979) and probably higher, a rate of 12 per cent within the psychiatric clinic population appears realistic; Enuresis is usually treated by Tamily doctors and pediatricians. To some extent this is also true of

encopressis which is less common but tends to require psychiatric intervention more often. The term "conduct disorder" covers a group of behaviours which are disapproved of socially, from excessive oppositional behaviour to cruancy and stealing. Convention has sanctioned the use of the term, but as a diagnostic entity the term conduct disorder has shoftconings. The term "neurotic disorder" refers to conditions such as severe separation anxiety, other states of anxiety, fearfulness, depression, etc. which have characteristics modified by the fact that the child is still a developing organism with marked mattachement to and dependence on his parents. Personality disorders are not easy to diagnose in children under thirteen years but to now children marked extraverse, incroversion, compulsiveness and insecurity as predominant traits governing their existence are evident early enough. Finally conditions such as Tourette's syndrome are included in "other clinical syndromes".

Table 3.13
Presence of Etiological Factors of Attitudinal Type

Category	1		Frequen	ncy
Present Absent			43 (86 7 (14	
Total		100	50 (100	71.)

Table 3.13 shows that in 66 per cent of the children parental attitudes such as rejection and excessive overprotection, were detected and played a role in the child's psychiatric syndrome:

Table 3.14
Psychiatric disorders in other Family Members

	٠	Category	Fat	hers	Hot	hers
_		Present	 25	(50%)	28	(56%)
		Absent	25	(50%)	22	(44%)
		Total	50	(100%)	50	(100%)

Table 3.14 shows that 30 per cent of the fathers and 56 per cent of the mothers were considered to have significant psychiatric. abnormal-fities. Overall, only 14 boys (28 pes cent) had two parents with mostgatificant psychiatric abnormalities. In addition four boys had a total of seven stblings with psychiatric profiless.

Table 3.15
Psychiatric syndromes in Fathers and Mothers

Organic p	sychosyndro	ne 1	(2%)	1 (2%)
Schizophre	enia	0	(0%)	.0. (0%)
Affective	psychoses	2	(4%)	2 (4%)
Personali	y disorder	9	(18%)	25 (5	0%)
Alcoholis	n in the	13	(26%)	0 (0%)
Nil psych	latric	25	(50%)	22 (4	4%)

Table 3.15 gives the breakdown of the psychiatric syndromes in the parents. One father and one mother each had an organic psychosis syndrome, there were no schizophrenics and affective psychosis had been

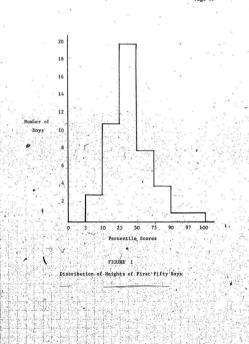
diagnosed in two fathers and two movers. Thus the predominant diagnoses were in the non-psychotic group. Nine fathers and 25 mothers were diagnosed to have personality disorders but the fathers made up for the deficiency with alcoholism.

Figures 1 and 2 (pages 61 and 62) whow the percentile distribution of the heights and weights of the children. The distribution curve is almost normal, with a shift to the left, 71 per cent of the children being within the 50th percentile in height and 74 per cent similarly in weight. This was also borne out by the skin-fold thickness over the biceps (Table 3:16).

Table 3.16 Biceps skin-fold thickness

	Category			Fre	quency	70.00
1	Within average range	e	9.52	44	(88%)	4
. û	Total Total		· ·		(100%)	

Table 3.16 gives the range of biceps skin-fold thickness. Only 12 per cent of the boys had measures above the mean for their ages although the incidence of obesity in boys in Newfoundland is reported to be high (Nutrition Camada, 1976). In the age group understudy it has been established that there are significant differences between boys and girls in fat as measured over the biceps and other areas (Tanner, 1978). Tanner also reports that girls are less likely than boys to have fourth fingers longer than second (index) fingers.



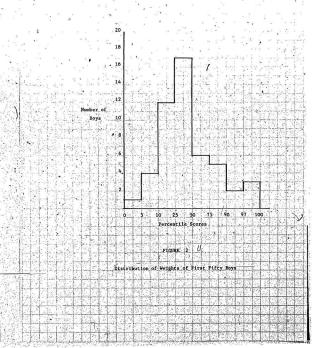


Table 3.17
Relative length of index and fourth finger

	Category		Fre	equency	
	Index longer	1	6	(12%)	
	Fourth longer		20	(40%)	
	Equal		24	(48%)	
_	Total	 i i	50	(100%)	

Table 3.17 shows the distribution of the relative lengths of index and fourth fingers.

3. Variables that may influence Gender Behaviour

As already explained, these variables were culled from a review of old and contemporary literature as well as discussions with those presently engaged in research in the field.

Table 3.18
Sex of the child hoped for

	Category Frequency .
	Boy 18 (36%)
8	Girl 10 (20%)
	No preference 20 (40%)
	Not known 2 (4%)

Table 3.18 shows that at least 20 per cent of the mothers were hoping for a girl and could have been disappointed when a boy was born.

Only 36per cent were decidedly for a boy.

Table 3.19 Baby's appearance at birt

Masculine 35 (70%) Feminine 7 (14%) Not known 8 (16%)	Categor			Frequency	
antitati e agai, tiliga og tillaggar, aftil at till til etta ett aftil ett i etta ett ett ett ett ett ett ett			11.47	35 (70%)	
Not known 8 (16%)				Carta Sec.	
	Not kno	en .	10 500	8 (16%)	

Table 3.19 shows that 14 per case of the boys were considered to have a girlish facial appearance at birth by-the mothers, but these were nor necessarily those mothers who were hoping for a girl, who often replied that the baby was very much a by: Seventy per cent of mothers were sure that the baby looked manculine at birth.

Table 3.20
Physical proximity to mother in infancy and later

1	Category Constant Average Minimal Total
	First year 19 (38%) 20 (40%) 11 (22%) 50 (100%)
	Beyond 3 yrs 18 (36%) 19 (38%) 13 (26%) 50 (100%)

Epological studies of parent child interaction show that in the free year both boys and girls have close physical contact with their parents, especially mother (Lewis and Weinraub, 1976). By the ago of two years boys are transferring to the "distal" type of averagined to behaviour boards both parents while girls do, so only with the father and maintain "profimal" behaviour with the mother. Table 3.20 shows
that in the psychiatric clinic sample 36 per cent of boys were exhibiting
proximal behaviour well beyond influency. We also note that 26 per cent
of the boys lacked the normal degree of affectional behaviour after
influency.

Table 3.21
Age in years at which boy stopped sleeping with mother

Category	Frequency
One	18 (36%)
Three'	8 (16%)
Pour	3 ('6%)
Five	2 (4%)
Six	1 (2%)
Seven	4 (8%)
Eight and later	4 (8%)

The over-dependent behaviour of this sample is also borge out in Table 3.21. One-fifth of the boys often sleep with that methers well past the age of five years. This is an aspect of family life often glossed over by parents whoseverfally appeared to be reluctant to state the facts. Only about one-third of the boys had noved permanently into a asperate bed by the end of the first year.

Table 3.22
Adult to whom the boy is closest

'Age period	Mother; other female	Father,	No one
Fre-school	45 (90%)	5 (10%)	
School age	35 (70%)	12 (24%)	

This table (3:22) appears to bear our the old adage that a bey's best friend is his mother. Only 10 per cent of the boys were closer to the figher before starting-school and this increased only to 22 per cent when the boys were going to school. Maximum closeness to other calatives was very per occasionally a grandparent or uncle was favoured. Six per cent of the boys had become alternated and were not seen as "close" to any adult:

Table 3.23 Occupational gender of parents

Category	Mothers Fathers
Masculine	2 (*4%) 39 (78%)
Feminine	40 (80%) 4 4 (8%)
Neutral 🚓	6 (12%) 5 (10%)
None	2 (4%) 2 (4%)
Total	50 (100%) . 50 (100%)

A traditional view of occupations is expressed in this table (3:23). Fighty per cent of the methors and 78 per cent of the fathers held traditional occupations. Of the remainder, most held occupations that are not attougly sex-typed_such as fishplant workers, teachers, att.

Of the two mothers with masculine occupations one was a fairner and the other a fisher/comban. Of the four fathers with feminine occupations three were cooks and one was a hair-dresse. The parents with no occupation (two fathers and two mothers) did neither housework may held a job outside the home. Stoller (1975) postulates a strong commercian between masculinity in the mother and transsexualise in her son. Of course the present study is only concerned with effectinety, so that the absence of masculinity in the mothers of effective bys would not contradict his hypothesis.

Table 3.24
Which parent is main disciplinarian

Categor	y	335532	Frequency		_
		27			2
Father Mother			6 (12%) 38 (76%)		
Both			4 (8%)		-7
Neither		Mar.	2 (4%)	1864 X	-
Total			50 (100%)		

Table 3.25

Category		Frequ	ency
Avoids		21 (21)
No avoldance		16 (2%).
Doubt ful		w/ 9 (8%)
Not applicabl	e	4 (8%)

Which parent has major voice in financial matters and life style

Mother	23 (46%) 22 (44%)
Father	15 (30%), 17 (34%)
Equal share	12 (24%) 11 (22%)

Tables 3.24 to 3.25 deal with the politics of power within the families. Discipline is left largely to the mothers, fathers usually claiming that they are most at home at the time of the misdemension of that they do not feel the punishment is measurer. In some cases the mothers preferred to leave the fathers out of the picture because they claimed the fathers were excessively harsh. Thus the main disciplinarian is the mother in 75 per cent of the cases, the father in 12 per cent and equilly shared in 8 per cent. In 4 per cent mether parent assumed responsibility because a grand-parent interfered or assumed responsibility. Forty-two per cent of the fathers were seen as avoiding a role in discipline, and only 32 per cent were definitely interested in playing a role. In 8 per cent father, could not discipline the children either of the to working away or being separated from the family.

Almost half the fathers left inster decisions on somey and life style to their sives. However, these figures - 46 per cent and 44 per cent for financial expenses and life style toolede tages where the father is absent temporarily or permanently. In a third of the cases father appears to hold and exercise all power_and only about a quarter of the modes felt that the respondibilities were shared equitably.

Social learning theorists emphasize power value as a factor in

children's acceptance of each typed roles (Maccoby, 1967, 1974; Mischel,

1966), but data is insufficient at this time.

Table 3.27

Mother's satisfaction with husband's role in the family

Category	Frequency
Satisfied	15 (30%)
Mild dissatisEaction	11 (22%)
Strong dissatisfaction	21 (42%)
Not applicable	3 (6%)
Total	50 (100%)

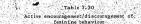
Table 3.28
Father's participation in family activities

Maximal 6 (12%) Average 16 (32%) Hinimal 28 (56%)	Categor	у.	1	requency	
Minimal, 28 (56%)	A State of the				
9		as it has become			
Total 50 (100%)	9 Total				66004

Table 3.29

No serious d	isruptions	23	(46%)
Severe confl	A	10	(20%)
	th temporary	B	
Separati	on paration fro	11-5- 1 W. E.	(16%)
father	paracion fro	9,	(18%)

Tables 3.27 to 3.29 show that (a) only a third of the mothers are satisfied with cheir humbands share in family life, (b) slightly over half of the fathers play little part in family activities, and (c) severe martial problems are evident in over half the families. Such a profile of family life is not unexpected in a child paychistric population, and it may also be expected to influence and the behaviour. If a cherinhing father is essential for developing masculine behaviour.



Casegor	у .	Fal	ther	Moth	er
Encoules		2	(44)		(24%)
♦ Discour	agement	. 19	(18%)	12	(24%)

Interest should by boys. In featinine activities and clothing is said to be encouraged atther by empoying and helping the boy's performance or by failing to discourage it actively, in the case of effectionate boys (Green, 1974). The mothers interviewed in this study did nor feel there was any harm in letting some dress up in girls clothing or play with their sister's dolls. Some participated in the play, letting the boy play house in the female role as he did not seem to have any friends to play with. There was a universal belief shong the parents that interest in girls clothing and play activities would be outgrown by the age of 7 on 8 years. However, as table 3:30 shows only 24 per cent of the mothers and 4 per cent of the fathers actually found themselves participating in activities that may be seen as postively reinforcing effeminary because the majority of the boys did not show persistent interest in female clothing, make-up of play.

4. Variables used to measure Gender Behaviour.

The items in this part of the questionnaire are used to arrive at a score for effectionary for each child, As previously stated in. Chapter 3, the items were arrived at from the literature and discussions with research workers in this field. The snawers to questions are based on parental reports; the invastigatory's objectivations of the child the child's own reports and as well the results of some projective costs.

-11- 2 21

Types of feminine activities and the number of children who participated in or imitated such activity at any time in preschool age period

	91		100	N	2.1
1	Category			Frequency	with 3
	Clothing			15 (30%)	Mary 199
1	Hair sty	ling		17 (34%)	# : X, 17
1	Make-up	housework	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 (34%)	19.75 To
	macernal	nousework		19 (38%)	Street Street

Table 3.32 Types of female clothing

	Category Frequency
4	Outer dress 5 (10%) Lingerie 2 (4%)
A.	Night dress 0 2 (4%) Several of the above 4 (-8%)
	Several of the above
	Total 50 (100%)

Table 3.33

Age in years at which any cross dressing first seen

Category	Frequency
2 - 5 years 6 = 12 years	16 (32%) 5 (10%)
Never	29 (58%)
Total	, 50/(100%).

Tables 3.31 to 3,32 give some of the details on cross dressing and other cross-gender behaviour. A third of the boys inder five years were known to have put on mother's or sister's clothen, tried their hair styles or make-up and initiated sought doing housework. Jevellery, handbegs and high heeled shoes were rarely favoured. It is clear that aping mothers' activities in self-adorment and housework is relatively common in preschool-children. There is confirmation of this in Green's finding that 18 per cent of typical masculine boys had occasionally cross dressed in early childhood (1978). In boys seed more than tive years cross dressing appears to be uncommon. 10 per cent as opposed to 22 per cent in this younger age group; a show in Table 3.33. Only 58 per cent were completely tree of experimenting with "feminine" activities.

Table 3.34 Clothing preference at the time of assessment

Cate	góry. O. Fr	equency
Atyp	oical masculine 9	3 (76%) 9 (18%) 3 (6%)
Tota	11 50	0 (100%)

Table 3.34 shows that 6 per cent of the first fifty boys actually had a preference for warring typical girls' clothing. The majority, 76 per cent, would wear only the casual jeans and 7-shirt favoured by their fallow school, boys. Eighteen per cent preferred more create but still assetlies clothing such as butts which the majority group generally refused to wear.

Table 3.35 'Feminine choices in play and chores

Catego	ry	1			Fre	quency	, ,	. 1
House			8 6		. 4	(8%)		14
Acting		* * ;		190	3	(6%)		9
Toys	Selection :	x 2	16	5	: 2	(4%)		1.
Sports	Same	1			. 5	(10%)		120
Helpin	g nothe	r	500		23	(46%)		-

Table 3.35 should the percentage of boys who preferred the femals role in playing house (8 per cent), in play acting (6 per cent) and who preferred Barble Dolls (4 per cent), girls sports activities (10 per cent) and mother as the adult they liked to help (46 per cent). It should be pointed out however, that 21 per cent of the boys were mutiling to help eather perent and only 20 per cent wished to help fathers.

Table 3.36 Peer Choices

Category	Peers calling for him		urrent aymate
Cirls	5 (10%)	2 (4%) 4	(8%)
Boys	28 (56%)	22 (44%) 28	(56%)
Both	6 (12%)	12 (24%) 10	(20%)
None	11 (22%)	.14 (28%) 8	(16%)
Total	50 (100%)	50 (100%) 50	(100%)

Table 3.36 shows the peer relationships pattern. About half the boys (44 - 56 per cent) are mixing almost exclusively with other boys.

About a fifth (20 - 24 per cent) are able to play well with girls and boys while about a tenth (8 - 10 per cent) like to play almost exclusively with girls. The fact that a sixth (16 per cent) of the children were solitary and friendless is not surprising in this amaple. Unpopularity with peers is well established as a signost of trouble in childhood.

Table 3.37 Types of teasing

Categor	y	2.2	Frequency	
Romant	c		13 (26%)	Transition of
Sissy	Suki	at See	- 12 (24%)	11.1
Pansy		1.00	6 (12%)	-

Bullying and reasing of children who are different in any way by their peers is a fact of life. Sensitivity and a tendency to be hurt easily drew tensing for 24 per cent of the children while 12 per cent were called names implying homosexuality.

Table 3.38

Parents' observations on gender behavious

_	A CONTRACTOR OF THE CONTRACTOR
	Category Frequency
17	"Not manly" 5 (10%)
	"Should have been a girl" -3 (6%)
100	"Not like other boys" 3 (6%)

The parents of the children were generally on the defensive side about most complaints or observations made by others about the boys. However,

10 per cent replied that the pitient was not likely to grow up as manly as his father, 6 per cent said his behaviour and looks would have fitted better if he had been a girl while 6 per cent said that he had never been like other boys with respect to gender behaviour (Table 3.38).

Table 3.39 Cross dressing in public

-	
100	Category Frequency
	Ever went out dressed as a girl 4 (*8%)
1	Never 46 (92%)
1	Total 50 (100%)

This table (3.39) shows that 8 per cent of the boys had been seen in public cross dressed - either in their sixer's or their mother's clothes. The parents were not slways aware of this.

Table 3,40
Satisfaction with being & boy

7	Category Frequency	
	Girls luckler 9 (18%) Wished to be girl in the past 6 (12%)	****
•	Wishes to be girl now 0 (.0%) Believes he is a girl 0 (.0%)	

Table 3.40 shows that 18 per cent of the boys thought girls were lockter. Reasons given by the boys often indicated that they thought girls were better at school work, gord lebs punishment. Found studying easier and liked school. The boys also said less frequently that girls get more presents, have more friends and more parties. One boy said that girls could get married. Twelve percent had at least rarely wished to have been a girl in the past.

Boys' responses to gender typed question

- Category	Frequency
Rough play:	4440.900
errjoys"	28 (56%)
hates Ambition:	22 (44%)
ma le	31 (62%)
female e	2 (4%)
neutral . Job preference:	17 (34%)
måle	33 (66%)
female	2 (4%)
neutral	15 (30%)

In spice of the general helief that boys, low yough play 44 per cent expressed dislike (Table 3,41). This must be viewed in the context of rough behaviour being socially diapproved so that the children may be expressing what they believe is good conduct. When asked to express their shitton for occupation the majority gave masculine responses (cop. fireman, truck driver, fisheman, etc.) or newball responses (fisheman cruck driver, fisheman, etc.) only four per cent chose obviously "temase" occupations, beautician, housekeeper, cod, and miree. "Men. given a forced choice between majority fisheman or truth driver),

neutral (teacher or timplant worker) and feminine (nurse or beautistan)

jobs, the proportion was barely changed. The children who chogg feminine
occupations almost all agid that the jobs could be done by both men and

women.

Table 3.42
Sex typed choices in chores, sports company for movies, best friend

Category	244.115.		Frequency	
Chores	feminine	1. 1	7 (14%)	18
Sports:	feminine		2 (4%)	17.15
Movies:		1.00		1.4
e are v	girl	13.15	9 (18%)	
	mom	11.6	20 (40%)	
19 N	boy		36. (72%)-	3
Best frie	nd:		Average and	1
	girl .	Whole ?	6 (12%)	
47.73	none	7	8 : (16%)	

When given a forced choice of chores between unshing dishes, making beds. clearing rooms (feminins) and showeling; many cutting grass. chopping acod (magniline), 14 per cent chose the "feminins", chores (fable 3.42). It could be claimed that the indoor chores are not meassarily "feminins", in door families boys are also required to do those. In Newfoundland at this time many boys do consider such work as suitable for their sisters and if made to do them do not yigh their peers to know this. In the case of sports it is even more problematical as few girls at this time ariset to shipping and hopsbotch. Duly two boys preferred these games chooled by and football. When asked to salect one person to take to a

movie 40 per cent chose mother and 18 per cent chose a girl. In some case, the girl was chosen because the boy preferred the combony of girls and In others because the boy viewed his relationship with the girl as potentially heterosessual. When asked to name a best fitend among their papers 72 per cent quised a boy, 12 per cent a girl and 16 per cent did not have a best fitend — usually no friends at all.

Table 3.43 Wish to become a mother or fathe

Categor	y	Freq	uency
Father		36 (
Mother No choic	ce	1 (13 (2%) 26%)
Total		50 (1	00%)

Asked to choose their future parenting role 72 per cent wanted to be a father, and two per cent a mother. Twenty-six per cent were unable to choose a role or said that they would not be parents (Table 3.43).

Table 3.44

1.00	Category	Frequency
165	Male Female	31 (62%) 12 (24%)
	Uncertain	7 4 (14%)

Starting with Machover (1949), a large number of authors have commented on the flading that the majority of human beings exhibit a spontaneous preference to draw their own sex first when asked to draw a person without further specification (e.g., Mainford, 1953; Mondy, 1966; Green, 1974). At no age dees the proportion fall below 50 per cent, even in childhood, and it is usually above 70 per cent. By contrast almost 66 per cent of effentinate boys from a girl first (Money and Mong, 1966; Green and Money, 1964). These differences are statistically significant. Among the subjects studied here 62 per cent draw a boy lirst and 24 per cent a girl (Table 3.64). Fourteen per cent had difficulty drawing a human figure and were unable to assign a sex to their attempt, powing a rather magazivistic attitude to the whole venture.

Table 3.45

10	Category	Frequency
	Masculine Peminine Mixed	26 (52%) 17 (34%) 7 (14%)
	Total	50 (100%)

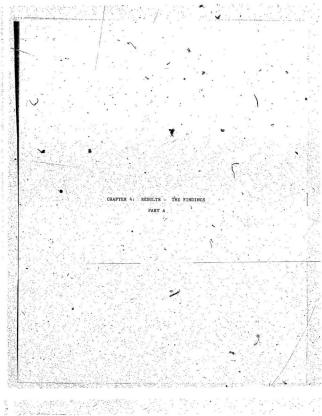
The boys were given a doll of ambiguous apparance and a set of paper clothing cut out from magazines for boys and girls. They were asked to choose an outfit for the doll. Fifty-two per cent of the boys chose a boy's outfit; 14 per cent chose a girl's outfit, reasoning that the doll was a girl (Table 3.45). Eleven per cent chose a mixed outfit, not

appearing to be certain which clothes were for boys and which for girls. In the It Scale for Children (Srown, 1987), children make choices for "It", an ambiguous drawn figure. The choices include objects and figures typical of and associated with the role of one set in contrast to the other sex. The sean acors on the test was significantly more feasible for hoys and done feeinine for girls with less variability among the boys.

Table 3.46 Choice of picture for bedroom

Category	Frequency
Racing car Two girls	25 (50%) 12 (24%)
Neither	13 (26%)

The childen were shown two posters - one of a flashy tecting car and the other of two pretty girls aged about seven and requested to choose one for their bedroom. Fifty per cent those the cat and 24 per cent chose the picture of the two girls. Twenty-sir per cent firmly declined either for their rooms (Table 3.46).

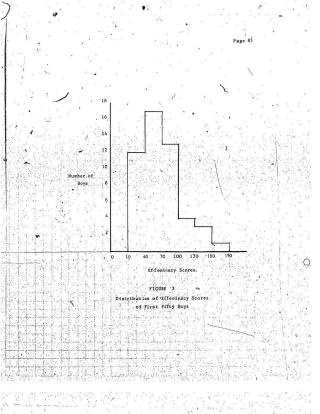


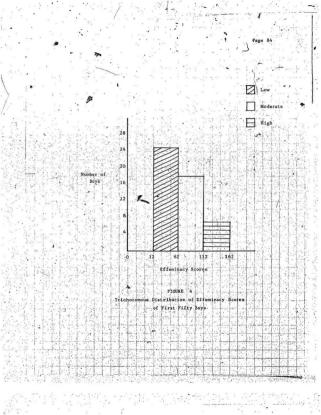
CHAPTER 4: RESULTS - THE FINDINGS: PART A

1. Effeminacy Scores

The variables used to score "gender behaviour" as described in chapter 2 comprise a wide selection involving subjective and objective material elicited from parents, child as well as observations of the investigator. The method of acroing was described in Chapter 2. The findle effections of the variables. The lovest score obtained by adding the scores obtained on the variables. The lovest score obtained by any one of the 100 subjects was 12 and the highest 196.7.

Figures 3 and 4 (pages 83 and 84) show the distribution of effeminacy scores among the first fifty boys. Figure 3 gives the frequency distribution when class intervals of 30 units are used. There is a very sharp fall in the number of boys who obtain scores of 100 or more. Figure 4, using arbitrary equidistant cut off points divides the boys into three groups labelled Low, Moderate and High effeminacy scorers. Twenty-five or 50 per cent of the group scored 12-62 (Low), 18 or 36 per cent scored 63-112 (Moderate) and 7 or 14 per cent scored 113-162 (High). The fact that 86 per cent of the boys score low to moderate on effeminacy reinforces Bem's concept of androgyny. The Bem Sex Role Inventory recognises that the personality dimensions of masculinity and femininity need not be polarised (Sandra Bem, 1974). According to Bem's postulation individuals may be androgynous, i.e., both instrumental and expressive depending on the situational appropriateness of these various behaviours and conversely, strongly sex typed individuals may be seriously limited in adapting from situation to situation.





2. Relationship between Effeminacy Scores and Other Variables

The deast stage in probing the results was to elicit the relationship, if any between the three groups of effectionary scores -low, moderate and high, and all of the other variables. The latter have been pleasable in in Chapter 3 under the headings of "demographic", "clinical" and "gender in Chapter 3 under the headings of "demographic", "clinical" and "gender in Chapter 3 under the headings of "demographic", "clinical" and "gender in Chapter 3 under the headings of the special spatial three groups of effectionary scores. At the name time statistical tests were carried out no reveal significant relationships. However in this initial cross—tabulation the number of boys in each sub-category was small. The tables were then contracted into two column against the three rows of effectingly scores and the chi square bethod use to assess significance. These tables now follow.

Table 4.1
Effeminacy Scores by Age

		Les	than	9 Yrs	. 9	Yrs	and Older	Totals	
1	ow	1.	14 (5	6%)	1000	11	(44%)	25 .	Ž,
1	loderate	110	3 (1	6.72)	, ear	1,5	(83.3%)	18	ń
. 1	ligh	100	4 (5	7 . 27.)		3	(42.8%)	1 7	

2 = 10.2 with 2 DF, P < 0.01

In the noderactly effoninate boys, 83.3 per cent fall in the older age group. This is statistically significant at the 0.01 level. The difference is still present then the high scoring group is omitted age in table, 4.2.

fabre 4.2 Effeminacy Scores by Age

- 17		·	•		
		Less than 9 Yrs	9 Yrs	and Older	Totals
	Low	A (56%)	11	(44%)	25
	Moderate	3 (16.7%)	15	(83.3%)	18
2	Totals	.17	26		43 (100%)

X2 + 6.8 with 1 DF, P<0.01

This difference between the younger and blader group with respect to moderate effectingly accreas means to be in keeping with Kohlberg's findings that boys preferentfal sex typing of activities peaks at sec 6-7 (Kohlberg, 1966). Thus the older boy and especially the adolescent boy is less rigid as the capacity for abottact thinking increases.

Table 4.3 -Effeminacy Scores by Parental Age differences

			than 5 Yrs age diff.		than 5 Yrs	Totals
	Low	16	(64%)	9	(36%)	2.5
	Moderate:	12	(67%)		(331)	18
159	High	6	(85.7%)	1	(14.3%)	7′
	Totals'	34	. W. P.	16	end in the	50 (100%

x2 = 1.01 with 2 DF, P<0.60 (NS)

There are more moderate and high scorers in the groups of children whose parents' ages are within five years of each other. The differences however are not significant. None of the analyses done to test the effect

of mothers being older than fathers, or fathers being much older than mothers, etc. showed any significant relationships with the efferincey scores. It had been speculated that unusual age differences between the parents may have effects on effeminacy. For instance, mothers who are considerably older than the father may dominate the family, and lead to greater identification with herself.

Table 4.4

Effeminacy scores by maternal age at childbirth

	1.5-	29 Years	30-44 Years	Totals
Low	18	(78.3%)	5 (21.7%)	23
Moderate	14	(78%)	4 (22%)	18
High	4	(67%)	2 (33%)	6
Totals.	36	100	11	47 (100%)

X2 = 0.4 with 2 DF, P (0.85 (NS)

Age of the child's natural sother at the birth of the child was known in 47 cases. However the relationship to the different scores was not statistically significant, although the figures show a treed to high effendingly scores in the children of older mothers.

Table 4.5

Effeminacy scores by the ordinal rank of the chald

	Only Chi	ld.	Oth	ners	Totals	
Low	2 (25%)	20	23	(55%)	25 .	
Moderate	2 (25%)		16	~(38%)	18	
High	4 (50%)		3	(7%)	7	
Totals	8 (100%)		42	(100%)	50 .	

X2 = 9.5 with 2 DF, P < 0.01 .

A highly significant relationship was found between being an only-fild and high of festimacy across. No relationship emerged from testing, the significance of being the eldest, youngest, second child, etc. It can be speculated that at only child receives an under amount of testion and proximity from his mother who may also show her concern over having only one child by restricting his more advanturous activities

Table 4.6
CEffeminacy scores by presence of older sisters

	No older sisters	Rest	Totals
E _{OW}	. 17 (68%) 8	(32%)	25
Moderate	(11 (612) 7	(39%)	18
High	6 (86%)	(14%)	7
Totals	34 16		50 (100%)

 $X^2 = 0.78$ with 2 DF, P < 0.70 (NS)

The presence of older sisters has been thought to be conductive to effections. The presence of the sisters have no effective the second of the sisters and effective the sample between having one or more older sisters and effectingly scores, in fact almost all the high effectingly scorers have no older sisters.

• Table 4.7 Church attendance by effeminacy scores

Low	1	(20%)	. 1	24	23%)	25	100
Moderate .	. 3	(60%)		15 (33%)	18:	
High .	1	(20%)	Sept.	6 (14%)	. 7	

 $x^2 = 4.2 \text{ with 2 DF, P<0.12 (NS)}$

No relationship was found between religious demonstration and effentinary accres. Contingency tables for the various degrees of shurch attendancy were calculated for significance. The only table, which aspired towards significance was table 4.7, but the nubber's are too small for the non-attendary to draw any conclusions. Pomero' (1967) in this report on the sexual histories of 25 transsexuals found that 23 had been dwoutly religious or active churcheers. He speculates that a rigid religious training may make it noire difficult to accept mascularly and extuality, especially knowsexuality. Table 6.7 cannot be construed as continuing or contradicting Pomeroy's thesis.

Table 4.8

-				#		<u> </u>
1		Full time	l Housewive	s Rest	Totals	
100	ow	12	(68%)	8 (32%)	25	
Н	igh		(28%)	5 (72%)	7	3.8
T	otals	19		. 13	32 (1	00%)
AC	1.	T. 4. (2. 17)	1 1 1 Car	arrive harry	C . C'44 .	5 4 .

X2 = 3.5 with 1 DF, P< 0.06

playing a pother whose only occupation is as homemaker appears to protecting sinst effecting when moderate scores are next under reaching a probability of less than 0.06. Mothers who have additional complement at home or outside or are totally disabled are represented in column II. It may be shatefunted that such mothers foster a less sex typed role-in-their soms on principle as well as for the convenience of Naving soms to take on homemaking chores when required.

Table 4.9
Effeminacy scores by family structure

	Nucleas Fam	lly Res	t Totals	•
Isow		10 (4		
Moderate High		2%) 5 (2 3%) 6 (8		
Totals	· ^29**	21 •	50 (10	00%)

- X2 = 7.41 with 2 DF, P< 0.03

In Group 1 the children are living with their biological parents without second degree relatives. The relationship between high effentings scores and not living in the conventional nuclear family is significant at the 0.03 level. Group II consists of single parents, extended families and adopted, families. Only one of these groups by itsalf showed scatistical significance, as shown in the next table (4.10).

Table 4.10
Effeminacy scores by family structure

Low 15 (93.	75%) 1	(6.25%)		16	
Moderate 13 (100	() 0	(OZ)		13	
High . 1 (25%) ' , ' 3	(75%)	10 Sept 20	4	

x2 = 16.3 with 2 DF, P<0.001

Families in which the mother is a single parent and lives with her own biological family, had a highly significant rate of extreme effeningcy. Oreen (1974, 1978) and Stoller (1988) among others have emphasized the role of grandmothers and other older female relatives in encouraging effeningcy and overprotection. In an extended family the presence of other children such as cousins, nephews and nieces may also provoke a need in the child for a closer relationship with his only parent and promote identification with her.

Table 4.11
Effeminacy scores by child's psychiatric diagnosis

			oses and lity Dis			ther gnoses	T	otals
Low	*	5	(20%)	J.	20	(80%)	0	25
Moderate	un il.	. 6	(33%)	ad 2	12	(67%)	0	18
High		5	(71%)		2.	(29%)		7

X2 = 6.65 with 2 DF, P<0.04

Although there are ten categories in the breakdown of the psychiatric syndromes, in testing each for significant associations, it was decided to combine the group of neuroses and personality disorders. The only two children diagnosed as having personality disorders fitted into this group as being mainly shy and oversensitive. A statistically significant relationship is present between children presenting with neurotic reactions and certain personality trait disorders with high effeminacy scores as shown by table 4.11. This finding is not unexpected. In childhood such children are usually seen in psychiatric-clinics for school phobia and various types of social maladjustment related to overdegenemence, usually on the maternal parent but not infrequently on both parents. Such children tend to avoid rough play and usually do not exince much interest in the games and hobbies of the avarage boy.

Table 4.12 Sex of child wanted by Effeminacy Scores

	5 540		Def Wan	initely ted Boy		R	est		Totals	
L	ow	٠,	11	(44%)	190	14	(56%)		25	
Н	igh		1	(14%)		6.	(86%)	8 90	7	

X2 = 3.43 with 1 DF, P< 0.07

The relationship between having definitely wanted a boy and low scores on effectness almost reaches statistical significance at 0.07. Fewer restrictions may be placed on the masculine development of the child by a mother with a strong desire for a son.

No significant relationships were found between effentnacy scores and the child's weight or physical health at birth. However there were fewer effeninate boys among those who weighed more than 8 lbs. at birth.

Table 4.13
Effeminacy scores by mother's recollection of the boy's facial appearance at birth

Very much a bey	Rest Totals
21 (60%)	4 (26.5%) 25
. 14 (40%)	4 (26.5%) 18
0 (0%)	7 (47%) 7
	21 (60%) 14 (40%)

X2 = 18.24 with 2 DF, P<0.001

There is little doubt that there is a highly significant relationship between miternal perception of the masculinity of the baby and subsequent development or absence-of high degree of effeminacy. Several factors could be seen as imbolved in this. The mother may be projecting her desire for a daughter. The behaviour of the child, may subsequently convince the mother that he "always" looked like a girl. A frail pretty baby boy may show a natural tendency to develop fewer "masculine" behaviours.

Physical Proximity to Mother by Effeminacy Scores

Table 4.14
Proximity in first year by Effeminacy Scores

	Constant Pr		Very L	ttle	Total	
Low	5 (26.49	() · ' · ·	20 (6	(20	. 25	
Noderate	.9. (47.27	0 - :	. 9 (29	2%	18"	
High	5 : (26.4)	()	2 (.6	5%)	7	

 $X^2 = 7.6$ with 2 DF, P < 0.03

Table 4.15

Proximity to mother after the first year
by Effeminacy Scores

5	Const	anta Prox	imity		rage to	Totals
Low	4	(22%)	- 1	- 21	(66%)	25
Moderate	. 8	(45%)		.10	(31%)	18
High	6	(33%)	1	1	(3%)	7
Totals	18	(100%)	erap o	32	(100%)	50

 $x^2 = 12.8$ with 2 DF, P < 0.005

Close physical contact between mother and son lasting beyond the stage of total dependency of the baby is significantly related to effectinacy. The effect is even more marked when the proximity lasts into the preschool and school years.

Table 4.16,

		r after t year		ed mother		Tota	ls
Lów	15	(52%)	12	(48%)		25	_
Modérate	5	(27%)	. 13	(7,2%)		18	
High_	0	(0%)	7	(100%)	5 8	. 7	
Totals	' 18	- P	àa	1.		. 50	111

x2 = 7.04 with 2 DF, ... P< 0.03

The ray contingency tables showed a positive correlation between increasing effectincy scores and the length of time the boy had alopt in his mother's bed. One eleven year old boy had slept all his life in his parents' bed between his father and mother, with his mother's arm around him. Contracting the ray tables into two main groups, those who had never been in their mother's bed beyond infancy and the rest, the significant relationship remains, at the 0.03 level.

Table 4.17 Occupational gender of father by Effeminacy Scores

	Mascul	line Occupa	tion .		Rest	Totals	
Low	23	(59%)	100	2	(18%)	25	
. Moderate	12	(31%)	- 2	6	(54.5%)	18	- 9
High	. 4	(10%)		3	(27.5%)	7	4
Totals	. 39	(100%)		1	(100%)	50	

x2 = 5.9 with 2 DF 0.05

Fathers, who have an occupation which is complemently masculine such as fishing and driving heavy equipment vehicles have significantly fewer sons with moderate and high effeminacy scores. This relationship does not reach statistical significance in the case of the mother's occupation as shown in table 4.18 although there is a trend for the mothers with feminien occupations to have more masculing sons, probably because most of these mothers are full time homemakers which has already been shown to be related in this way.

Table 4.18 Effeminacy Scores by mothers' occupational gender

	F	eminine Occupation	Rest	Totals
	Low	23 (57.5%)	2 (20%)	. 25
	Moderate	13 (32.5%)	5 (50%)	18
	High	4 (10%)	3 (30%)	_7-
-	Totals	40 (100%)	10 (100%)	50
	Charles and the American			

X2 4.95 with 2 DF, P<0

Table 4.19
Effeminacy Scores by which parent is major disciplinarian

1.		Moti	ner Only		Rest	Totals
Low		20	(52.6%)	5	(41.7%)	CON-
Moderate		13	(34.4%)	5	(41.7%)	.18
High		5	(13%)	2	(16.6%)	7
Totals	1	.38	(100%)	12	(100%)	50

 $x^2 = 0.26$ with 2 DF, P< 0.90

Although 38 of the fifty children are disciplified solely by their mothers, the relationship of this factor to effenincey is not significant. Again the variable as to whether the father deliberately avoids a role in discipline did not relate to effenincey scores. The only contingency table that showed statistical significance involved testing those cases where the father was not available against the rest as shown in table 4.20.

Table 4.20
Effeminacy Scores by father's availability to discipline

		unavailable- iscipline	Rest	Totals	
Low	.0	(0%)	25 (54%)	25	
Moderate	1	(25%)	17 (37%)	. 18 -	
High	3	(75%)	4 (9%)	. 7	
Totals	- 4,	(100%)	46 (100%).	. 50	

X2 = 11.72 with 2 DF, P< 0.005

Thus father's attitude to discipline is much less important than his availability in the home. There are significantly more boys with high effeminacy scores when the fathers are not available to play a role in discipline.

Table 4.21

Effeminacy Scores by which parent decides on major financial expenditure

4 × 34	Fa	ther	e e ell	*	other		Total	s	
Low	10	(67%)		9	(41%)	-	19	v.	-
Moderate ,	. 4	(26%)		9	(41%)		13		
High &	- 1	(7%)		1	(18%)		5	٠,	
Totals	15	(100%)	8	22.	(100%)		. 37		53

 $X^2 = 4.015$ with 2 DF, P<0.15

While there is a trend to higher effeminacy scores in both the moderate and high ranges among the sons of families where the mother decides on major financial expenditures such as purchasing a car, this did not reach statistical significance.

Table 4.22

Effeminacy Scores by which parent makes final decision on life style

		Moti	ner Alone	Rest	Totals
Low	ķ	8	(36%)	 17 (68%)	25
Moderate		8	(36%)	 10 (28.5%)	18
High '		6	(28%)	1 (3.5%)	7
Totals	12	22	(100%)	28 (100%)	50

X² = 6.69 with 2 DF, P<0.03

From table 4.22 it appears that when mothers dominate the life style, effeminacy in the boys is significantly promoted.

Table 4.23
Effeminacy Scores by mother's expressed dissatisfaction with father's role

Fied Rest Totals
12 (41%) 25
11 (38%) 18
6 (21%) 7
29 (100%) 50

X2 = 3.55 with 2 DF, P<0.15

It does not seem that mothers' expressed dissatisfaction conduces to effeniacey in the son. The trend if anything is in the opposite direction, although not to a significant degree. It is quite likely that mothers' dismerisfaction is projected on to the son and liable to reduce the identification with him that may otherwise occur. Contingency tables for mother's hostility towards men in general showed even less significant relationships to effeminacy scores, although such hostility appeared to reduce rather than increase effeminacy scores in the moderate range. Another related variable - "family disruption", although very prominent in the whole sample, bere no statistically significant relationship to effeminacy scores.

Effeminacy Scores by whether father lives at home

		- Father lives - at home	Father does not Totals
2	Low	21 (54.5%)	4 (40%) 25
	Moderate	15 (38%)	2 (20%) 17
,	High	3 (7.5%)	4 (40%) 7
1 0	Totals	39 (100%)	10 (100%) 49

X² = 6.89 with 2 DF, P< 0.03

The fact that the boy's father is not living at home in almost 20 per cent of the families appears to be related to high scores of effeminacy, reaching significance at the 0.03 level. The variable regarding father's time in family activities however is not significantly related to effeminacy scores. Comparing fathers who spent a lot of time in family activities with the rest obtained only a chi square value of 1.6 with two degrees of freedom, probability being less than 0.40.

Table 4.25 Effeminacy Scores by whether father encouraged feminine behaviour

	Father encouraged feminine behaviour	Rest	Totals	
Low .	0 (0%)	25 (100%)	. 25	
Moderate	2 (11%)	16 (89%)	18	
High	0 (0%)	4 (100%)	. 4	
Totals	2	45	47 (1	00%

 $x^2 = 3.38$ with 2 DF, P < 0.2

Only two fathers ever encouraged effectionary and their sons were both in the moderate range for effeminary. With the very small numbers no significance emerges from the test.

Table 4.26
Effeminacy Scores by whether father discouraged feminine behaviour

		discouraged ine behaviour		Rest	Totals	1
Low	1	(17%)	24	(58%)	25	
Moderate	2	(33%)	16	(39.6%)	18	N.
High	3	(50%)	1	(2.4%)	4	
Totals	6	(100%)	41	(100%)	47	

X2 = 16.71 with 2 DF, P < 0.005

Table 4.26 shows that there is a highly significant relationship between high effeminacy scores and father's attempts to discourage effeminacy, which must be regarded as an effect rather than the cause of effeminacy!

Table 4.27
Effeminacy Scores by whether mother encouraged feminine behaviour

	Mother encouraged feminine behaviour	Mother did not encourage Total feminine behaviour
Low	, 2 (17%)	23 (60.5%) 25
Moderate .	6 (50%)	12 (31.5%) 18
High	42 (33%)	3. (8%) 7
Totals	12 (100%)	38 (100%) 50.

x2 = 8.58 with 2 DF, P < 0.02

Mother's encouragement of feminine-behaviour is certainly an important factor and is shown to reach statistical significance. The variable of mother discouraging feminine behaviour however did not reach statistical significance as shown in table 4.28.

Table 4.28

Effeminacy Scores by whether mother discouraged feminine behaviour

. 4		Mother discouraged feminine behaviour	Mother did not discourage feminine behaviour	Totals
_	Low	9 20 (51%)	5 (45%)	25
	Moderate	12 (28.5%)	6 (55%)	18
	High	7 (20.5%)	0 (0%)	. 7
	Totals	. 39 (100%)	11 (100%)	50

x2 = 3.37 with 2 DF, P < 0.15

the variable as to whether any psychiatric disorder was present or not in either parent or both did not relate significantly to effectionacy scores. The presence of psychiatric disorder in siblings however did appear to relate to the development of high scores of effectings as shown to table 4.29.

Table 4.29

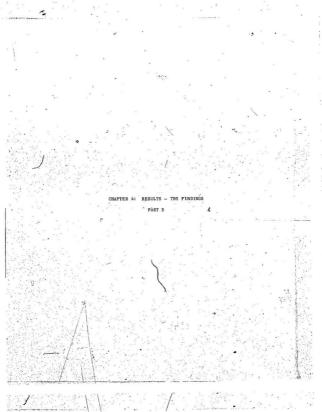
Effeminary Scores by presence of psychiatric disorders in siblings

, Present		Absent	A Charles	tals
Low 3 (60% High 2 (40%		21 (95.		3
Totals 5 (100%	- No. 1	22 (100)	A STATE	27

 $x^2 = 5.18$ with 1 DF, P < 0.02

While the numbers are small it toes seem that a significant number of boys scoring very high on effeminacy will have psychiatric disorders diagnosed among their fiblings.

Finally, a number of other variables, namely the specific psychiatric diagnasis in either-parent, presence of exxual abnormal-tries in the family (minute numbers), the child's height, weight and skin fold thickness and his intelligence did not reveal any significant statistical relationships with the three categories of effectionary scores



CHAPTER 4: RESULTS - THE FINDINGS: PART B

In this section a method of using the dats on the first fifty boys to arrive at a way of predicting the effeminacy scores in the second fifty boys and the degree to which this was successful will be demonstrated.

Since the two groups of fifty boys were successive referrals and not matched, the frequency tables of both groups were scrutinised to see if there were any marked differences. Although differences were not marked, and were mostly minute the data was tested for significant differences. A list of the warfables tested and the probability that the differences are due to chance follows.

35		Table 4.30		7 6 6	
	Variable		ference between and second 50		10
1.	Age distribution of the bo	ys	P >0.7		211
2.	Age difference between par	ents	P > 0.65	·>===	- 1.
3.	Age of mother at birth of	child	P > 0.76	6	
4.	'Child's place in birth ord	er	P > 0:50	* 55	
5.	Number of boys and girls in household	n	More boys in p > 0.3	group II	
6.	Religious denomination	····	P >0.8		
7.	Race		All Caucasian	vPR I	
8.	Church attendance		More non-atter P < 0.5	ndance in group	f.i
9.	School achievement of boys		More in special	al class in	

Table 4.30 continued

		40.00	

- Height and weight distribution ...
- 12. Family structure
- 13. Psychiatric diagnosis of boys ...
- 14. Parental attitudinal factors
- 15. Presence of psychiatric disorder in parents
- 15. Psychiatric syndrones in parents.
- 16. Effeminacy scores

Scores Group I Group II Moderate High Chi Square 0.642 with

It is clear from the above list that there are no statistical differences between the first and second set of boys that would make the use of the second group as the control for the first group invalid.

The method chosen to validate the findings on the first fifty. subjects with the data on the second fifty was as, follows. From the cross tabulation analysis of the first data set a number of variables were chosen for showing a high degree of statistical significance at the 5% level of

More high school educated nothers in group II

Almost identical

Fewer single parent families in group 11

More personality disorders, adaptation reactions and fewer conduct disorders in group II P < 0.6

P < .0.8

P < 0.8

Fewer fathers in group II with disorders < 0.3

P < 0.5

confidence or fairly close to it. Multiple regression analysis was done on the first data set to assess the relative weight of these variables in producing the "high" effentingly scores. (These variables are listed below.

Table 4.31

- 1. "Only child" status.
- 2. Mother's only occupation is as homemaker.
- 3. Mothers who are incapacitated from any work.
- 4. Nuclear families and the rest.
- 5. Nuclear families and nother with extended family.
- 6. Boys with personality disorders and neuroses combined.
- 7. Boys with personality disorders.
- 8. Boys whose mothers definitely wanted a boy.
- Boys who were very masculine at birth.
- 10. Boys in constant physical proximity to mother in first year.
- 11. Boys who were in unusually close physical proximity to mother in early and late childhood.
- 12. Boys who did not sleep with mother after first year.
- 13. Boys whose fathers have a traditional masculine occupation.
- 14. Boys whose mothers have a traditional feminine occupation.
- 15. Boys whose fathers are not available to discipline them.
- 16. Boys whose mothers make major decisions on life style.
- 17. Boys whose mothers are dissatisfied with father's role,
- 18. Boys whose fathers live at home.
- 19. Boys whose fathers discourage feminine behaviour.
- 20. Boys whose mothers encourage feminine behaviour.
- 21. Boys who have at least one sibling with psychiatric disorder.

For the purpose of multiple regression analysis each of the above variables was given a value of 1 or 0.according to whether that variable was present or not. Thus being an only child carried a value of 1 and not being an only child 0.

Results of Initial Multiple Regression Analysis

The 21 variables achieved am R² of .73221, thus explaining 73 per cent of the variance. The correlation coefficients showed that the 21 independent variables were not significantly interrelated, except for variables 10 and 11 which were about early and late physical prominity and obtained a correlation coefficient of 0.6. From the 21 variables, the nine most significant variables were selected for further analyses. Multiple regression analysis carried out on these nine gave results as listed below.

Table 4.32

are Description of Variable

6 -	+ 12.336159 B1	.14862	Personality disorder + neuroses
11	- 14.507047 B2	.28059	Did not sleep with mother after first year.
15	+ 12.476024 B3	.35987	Mother makes final decision on life style.
21	- 13.260200 B4	.35991	Baby appeared very masculine at birth.
8	- 14.222810 B5	.39647	Mother definitely wanted a boy,
7	+ 66.754506 B6	.51249	Personality disorders
19	+25.068675 B7	.58554	Mother encourages feminine behaviour.
9	+ 9.807735 B8	60365	Constant proximity to mother in first year.
× ×			The Control of the Co

Cross Validation Apalysis

Method:

There are nine significant independent variables labelled $X_1 - \dots X_9$. The dependent variable effeminacy score is labelled Y. As previously noted $X_1 - \dots X_9$ can only take values of 1 or 0.

The best regression fit is of the following model:

 $Y = B_0 + B_1 X_1 + B_2 X_2 + \dots + B_0 X_0$

where B_0 , B_1 , B_9 are the output of the SPSS regression fit. This is the best fit as far as we know, and it has its own R^2 value which tells us how good the fit is with respect to the data of the first set.

The next procedure is to find out how good the fit is for purposes of prediction. Here, this question will be answered by cross-validating the regression equation obtained from the first data set with the second data set, i.e., the second sample of fitty boys. The steps are as follows:

- 1. Obtain the best regression fit $Y=B_0+B_1X_1+\dots +B_gX_g$ from data set 1.
- 2. Use this equation on data set II to obtain the expected Y values for the second fifty boys. We call these Ei, where i = 1 50. Note that for the second fifty boys the actual effendacy scores have already been computed using the same method as for the first fifty boys. We call these Ai, where i = 1 50.

Compute the correlation coefficient between Ai and Bi. If this
is high enough, the regression fit is good for the entire population.
being sampled.

Details of Analysis

'Using the first data set, we obtain significant variables:

B		Denoted her	re	Actual Variable
12.336		x ₁		Personality disorder + neuroses
66.754	, .	×2		Personality disorders
-14.223		x ₃		Mother definitely wanted a boy.
.9.808		x ₄	1.1	Constant proximity to mother in first year.
6.953		x ₅	Sec.	Unusually close proximity to mother in later childhood.
-14.507	1	x ₆	ga in	Did not sleep with mother after first year.
12.476 3	, ·	x,		Mother makes final decision on life style,
25.069		. x ₈		Mother encourages feminine behaviour.
-13.260	***	x ₉	121	Baby appeared very masculing at birth.

0 = 61.351

Step 1

R2 = .607

R = .7792

Step 2

Using the regression equation obtained in Step 1 the expected

(Ei) values for Y are obtained for the second fifty boys in data set 11.

Ei and Ai for each case is set out below.

	<u>i</u>					Ai				Ei
	1.			_		104.5				146.61
_	-2-					59.0				90.59
	3					55.4	•			157:20
	4					132.6				127.99
	5					27.9		Ž		32,62
	.6					100.8		3.		89.92
	7					86.7	-			156.42
	8					57.1				59.39
	9					44.5				46.84
	10				-	107.0				108.70
	11		•			110.1				108.70
	12					16.0				33.58
	13				~	23.4				59332
	14					33.7				47.13
	15					100.5			1	152.92
	16		-			35.7				102.92
	17					118.2	-			.48.09
	18					33.1	. 5	-		101.43
	19				<	106.6				113.77
	20					130.3				98.90
		*								,

Step 2 continue

	21			132.7		127.99
	22		.1	52.4		90.59
	23			35.6	9	58.68
	24			141.5		92.59
	25			109.6		83.63
	26			28.1		59,32
	27			52.5		59.32
	28 -			72.5		115.52
	29.	1.		65.9		1,00.51-
	30			. 47.4		32.62
	31			87.7		68.30,
	32			20.7		32.62
	33			.91.2		61.35
	34	٠, .		58.4		81.46
	35			17.4 .		32.62
	36			97.1		61.35
	37			108.8		127.99
	38			196.7		184.93
	39		-	89.3		102.92
	40			72.1		71.66
,	41			93.4		80.78
	42		٠,	178.2		194.75
	43			73.9		63.89
,	44			54.9		45.10

		λ	
Step 2 continued		٩	
	. Y		0
45	84.3	125.93	· .
46	132.8	71.13 -	
47	27.2	71.13	
48	15.3	. 46.84	
49	88.7	46.84	
50	80.1	115.51	
Step 3.			
Computation of Co Σ A1 = 3889.1 Ā1 = 77.78 Σ A1E1 = 408,447 Σ A ² 1 = 390,384 Correlation Co	Σεί .76 .28 Σε ² ί	cient of Ai and Ei = 4498.43 = 89.07 = 493.852.15	
n E AiEi	- (ΣΑ1) (ΣΕ1) - (
$\sqrt{n \Sigma A^2 i} - (\Sigma A)$	i) ² /n ΣΕ ² ί -	(E E i) 2	
20,42222,	388 - 17,494,8	144.11	
√19,519,214 - 2,927,543	15,125,098.18	x√24,692,607.5 -	20,, 235,872 . 46
2090.21 x 21	11.10		V.

0.6615

Since R_c .6615 is quite close to R=.7792 on data set I we can conclude that the regression fit produces values quite close to the actual Y values of the second set of fifty boys. The tegression fit on the first set of data gave us as R of .7792 and R^2 of .607. Hence, 60 per cent of the variance in Y is explained by the nine variables. This R^2 is high and the fit is good; the R_c .6615 obtained by using the nine variables is also high, therefore the use of significant independent variables from data set I to predict effeminacy scores (Y) for data set II is validated.

CHAPTER 5: DISCUSSION

CHAPTER 5: DISCUSSION

Introduction

This research has been concerned with the concept of effentions and its measurement. Definitions were given at the outset to show that effentinacy is not an all or none phenomenon. It is a blend of gender behaviour, actitudes and roles, which, when present in boys are considered inappropriate. Effentinacy therefore is quantitative, and may be found to exist in a range varying from mild to extreme. A method was devised to measure effentinacy by computing the scores assigned to a "maker of variables related to gender."

As a composite of behaviour, attitudes and roles, it follows that effectionary is relative, and to a large extent culturally determined. Then within the culture, subcultural variations may be present. Ser typing of roles is accepted earlier by boys than gifls; in working class boys and girls gender roles are accepted earlier than in middle class boys and girls. Middle class girls show a delay and reluctance to accept say typed limitations for up to two years or longer when compared to working, class girls (Rabban, 1930). If the boy ware to rebel to the same extent as the girl, his behaviour tends, to appear much more deviant than that of the girl. To control for such cultural biases as such as possible, the tiens used to identify effectinacy were shown to independent experts and their ratings obtained to weight the items, at scalained in the chaster on esthodology.

The experimental sample consisted of 100 consecutive referrals to the only child psychiatry clinic in the Province. Apart from routine psychiatric assessment the protocol included a number of items

concerned with the measurement of effectinacy as well as the etiology of effectinacy. While such items were, in the main, related to social, emotional and behavioural factors, some anthropometric measurements were included: height, weight, androgyny score and skin fold thickness as there are proven differences between the sexes. These biological measures however did not prove to be relevant, and in any case some of those measures are not significantly different in the pre-pubertal asset arous.

Rather than presenting a descriptive analysis of the total sample, it was decided to analyse the first half of the sample, and to use those etiological variables that showed a significant association with effortinacy as predictory of the effections scores for the second half of the sample.

A. The Fist Fifty Boys

1. Composition of the Sample, These fifty boys were referred for problems thought to require assessment by a child gaychiatrist. Rejutance to accept referral is ditta_group in, the population. As a result, the problems had usually enfated-on years, and such persuasion, or a crisis was required before appointments were accepted. Regardless of the actual findings of the investigation none of the boys was referred for creas gender behaviour, nor did parents spontaneously broach the subject when discussing the reasons for seeking help.

Two-thirds (65 per cent) of the children lived within thirty miles of the hospital and a fifth (20 per cent) lived less than 100 miles away from the hospital. Of the remainder a tenth (10 per cent) came from the island portion, up to 500 miles away and a twentieth (5 per cent) were from Labrador (more than 1000 miles away).

Socially the sample is a relatively deprived group a families. Only a quarter of the parents claimed to have completed high school education but this did not ensure having passed the final examinations. Occupational status of the fathers and mothers for all practical purposes was almost entirely in the lower tange, only one father and two mothers having ever worked in the semi-professional category and just one father in the professional category.

As befits a child psychiatry population, family attife was a prominent feature. For 34 percent of the boys, the parents were not. living together, usually as a result of conflicts. Twenty per cent of the parents, although not separated at the time of assessment, experienced serious marital conflicts. Only 12 per cent of the parents maintained that there were no serious classes between them. Thirty per cent of themsothers expressed mild to attract dislatisfaction with the quality of their husbands' patticipation in family life.

Only about half of the parents were free of psychiatric disorder. Personality disorder was the diagnostly in almost all the abnormal mothers. Pradominantly, these mothers were a mixture of the insecure, anxious, and compulsive types. In the cabbers, the diagnosts of personality disorder was less comen but alcoholism and up for this.

In spite of the family discord and wholevel personalities of the perents, seldon did more than one child show services multiples more Other than the index cases there were only seven more children in the fifty families who also had a psychiatric dispreder. This suggests that the child's disorder is a function of interaction between the temperamental or other peculiarities of the individual child and mismanagement by parents or other significant adults.

The psychiatric diagnosis in the index cases is of particular interest as it was hoped to establish an association between particular syndromes and effeminacy. Two boys were thought to be normal. and the complaint for which they were referred was a variation within normal limits. A further eight boys were felt to be responding to stress and to have no serious inherent or established problems. Six boys had the hyperkinetic syndrome, which usually responds to stimulant drugs of the amphetamine group. Four had special symptom disorders speech disorder, enursis (wetting) and encopresis (fecal incontinence Without organic defects). The diagnostic code conduct disorder refers to a behavioural pattern of antisocial type. This includes less serious problems such as excessive lying, bullying and defiance as well as major criminal activity. Eleven boys were in this category. Fourteen boys had emotional disorders characterised by excessive anxiety, unhappiness, oversensitivity and poor relationships due to difficulties in mixing often presenting as cases of school phobia. Two boys had personality disorders characterized by pronounced insecurity and oversensitivity. Three "others" included miscellaneous conditions such as Tourette's syndrome.

With respect to the effeminary scores, there was a surprising finding. Seven or 14 per cent of the fifty boys obtained high scores, while 50 per cent scared in the low range and 36 per cent in the moderate range. It must be stressed that no child was referred for discordant

gender role behaviour, and the high scorers cannot be equated to the feetinise boys reported by other workers (Green, 1974; Lebwitz, 1972; Zuger, 1978, etc.). The distribution of effeninacy scores did not approximate anomal distribution curve as had been hoped; thus the high scoring boys even in this sample appear to be deviant in gender behaviour. After a score of about 110, there was a sharp drop in the numbers of boys scoring high although the highest score among these fifty boys was 160.

2. Results of Contingency Tables. The paucity of research in this area made it advisable to cross tabulate the effentinery scores against as many variables as possible to obtain significant associations. The Chi square method was the most suitable test for statistical significance although Pearson's R was also helpful where the data had ordinal-haracteristics. Only the significant variables will be discussed here.

a. Age. If the fifty boys were divided into those who were under 9 years of age and the rest, there was an increase in moderate scores of effentiney in the older age group, with a probability of less than 0.01. This may reflect the loosening of rigid sex typed concepts with increasing age and reasoning ability, in keeping with Kohlberg's findings (1966).

b. Rank of Child. Having the status of only child was significantly correlated with high effeninary scores at a probability level of less than 0.01. This was an unexpected finding from the view point that we have no previous research evidence of this. It is arguible that an only child may be permitted prolonged physical proximity, and be

overprotected with restriction from more "risky" masculine activities. The finding that 50 per cent of the mothers had personality disorders of the insecure type is probably related, increasing the risk for the only child to be treated in this way.

- c. Comparing the children of mothers who were engaged fully in homemaking with the rest showed that the latter group of boys had a
 greater number in the high-effeminacy acoring group reaching a probability of less than 0.06. Here again we have no previous research
 evidence for this. It may be argued that the latter group of boys
 were affected by such factors as (1) working mothers expecting and
 encouraging their sons in "feminine" chorus; (13) working mothers
 presenting a less stereotyped model, and (111) a number of related
 factors such as that more working mothers may be single with lack of a
 male model at home.
- d. The twenty-nine boys who lived in the traditional "nuclear" family presented only one with high-effeminacy score. The other twenty-one consisting of single parents, extended families and adoptive families had six high-effeminacy scorers. This was significant at a level of less than 0.03. Father's influence may be described as felt in several ways. his absence in single families, his raduced importance in extended families and his reduced interest in the case of adopted children, where mother's desire for children is usually the main reason for adopting. Green (1970) compared 55 extremely feminine boys with matched controls and found no difference in the martial status of the methers. Nowever his sample was collected by soliciting referrals of coxtremely deviant boys and is not strictly comparable.

- me. In assessing the types of "mon-nuclear" [amilies the category of "single mothers living with their family of origin" actained significance for high effeminacy at a probability level of less than 0.01. Figures however are rather small for drawing conclusions. Taking the last two findings together, it does appear that the boy's biological father has a role in gender development. Several writers have suggested that mothers promote femininity in their daughters and fathers promote maculinity in their sons (Goodenough, 1927; Radke, 1946). In the population studied bers, in general, fathers left "upbringing" matters to their wives, not usually taking an active role in developing the boys' interests. It appears more likely that the presence of the father in tiself has an emotional impact causing the boy to want to copy him.
- f. There were fourteen children with a psychiatric diagnosis of emotional disorder and two children with personality disorder of the sensitive and insecure type, basically similar to the former. These stateen were associated with high-efferinacy scores to a probability level of less than 0.04. This is not surprising as children with anxiety are usually overdependent and excessively close to mother or to both parents. Stoller (1968, 1974), speaks of the transsexual boys as being free of neurosis due to the absence of oedipal conflicts, which he contrasts with the homosexual boy. This psychoanalytical view is contosted by. Siegelman (1974) in general terms, but he concedes that the effection the homosexual score higher in neuroticism.

- g. Of the boys whose mothers had a strong preference during the pregnancy for having a som, only one boy was in the high-effeminacy category. The probability for this was less than 0.07, not achieving statistical significance. However the trend appears to be strong suggesting that such mothers would promote masculine behaviour and discourage feminion behaviour, although the literature suggests that this is the-vale of the father (Goudenough, 1927; Sears, Tau and Albert, 1965).
- h. None of the boys who appeared extremely boy-like at first sight to their nothers, scored in the high-effentnary range. This was highly significant (probability less than 0.001). This category included some whose mothers had desired a girl. Green (1974) states that some effentnate boys are so beautiful that they are mistaken for girls, and their appearance tends to influence others to comment and behave in a manner that reinforces effentnacy. A child who is patently a boy may be least subjected to such influences.
- i. Unusual degrees of physical proximity, involving much physical contacts between mother and son was significantly related to high-effeninacy scores. Probability was less than 0.03 in considering such proximity in the first year, and dropped to less than 0.03 in considering proximity in later childhood. It has been established that one year old while seek maternal contact much more than boys (Ocidhers and Levis, 1969), and that mothers initiate more proximity with daughters than with sons in nursery school children (Brindley et al, 1972). Stoller has emphasized the "Diispilo symbiosis" of the male transferual boy with his mother.

In the clinic population of this study overdependent boys were common, 9, 10, or 11 year old boys often sitting on their mothers' laps. Green (1974) gives instances of effesinate boys being picked up more often as babies and cuddled more than other children in the same family, by their mothers and by other womes.

j. The fact that sleeping in their parents bed (in spite of possessing a separate bedroom) was such a common practice in the clinic population. came as a surprise. This was seldom volunteered and had to be elicited by subtle questioning. Although half the boys who scored in the loweffeminacy range had slept with their mothers beyond the age of 3 years, all seven high-effeminacy scorers came into this category (probability less than 0.03). Furthermore Spearman's Rank Correlation Coefficient showed a high positive correlation of increasing effeminacy with each vear of continuing to sleep with mother. Green (1974) states that 20 per cent of (extremely) effeminate boys frequently slept aloneside their mother. He speculates that the increased contact may impede formation of a separate identity. It may also require inhibition of sexual arousal to female bodies, a protective mechanism against the intimacy resulting from such contact. In the present research none of the boys had a gender identity disorder - they had no doubt that they were boys, and in fact half the boys who slept with their mothers well beyond the age of 3 years scored in the low range of effeminacy. It may be concluded from this that close contact with mother does not of itself cause effeminacy or homosexuality, but is simply an indication of overdependence on the part of mother or child or both .. A prolongation of uch contact may then impede development towards autonomy and

independence in the boy and foster any incidental neurotic traits.

- k. Only three of the seven boys in the high-effeninacy range had fathers whose occupations were not in the conspicuously masculine tradition, yet this yielded a probability of less than 0.05. Constitutional factors may be involved where the boy's biological father is not himself a stereotype of cultural attitudes.
- From a number of variables concerned with intra-family relationships only two achieved significance. Learning theories (Mischel, 1966; Maccoby and Jacklin, 1974), have emphasized the role of power in intrafamily decision making for promoting identification between child and parent.
- The only significant variable with regard to power that emerged was mother either having to or insfating on making major decisions on life style such as where the family will live, which school the children shall attend, how leisure time is spent, etc. (probability less than 0.01).
- ii. Father's participation in family activities had no significance but whether father lived at home was significant (probability left chan 0.03). According to this; father's "physical" presence was more important than his "maychological" presence. This is at variance with the views of several research workers (Green, 1974; Kagan, 1958). In a later. bublication, Green (1976) states that his group of 55 extremely feminine boys were significantly more often separated from their biological fathers than the masculine controls, but no details are given on the length of separated.

m. Not surprisingly mother's active encouragement of effeminate behaviour was associated with high-effeminary scores (probability less than 0.02). Since none of the mothers of the seven boys in the high-effeminary range had s strong desire for a son during the pregnancy, it is possible that their desire for a daughter was frustrated. Similar findings come from Green (1974) and Stoller (1968, 1974). In the present study the encouragement included deliberately cross dressing the boy in infancy and early childhood, and easily acquiesing when the boy wanted to have dolls, make-up, jewellery, etc. As the boys grew older mothers became ambivalent and would attempt to discourage before giving in to being pestared.

B. Prediction of Effeminacy Scores for the Second Fifty Boys

Nine significant variables were chosen from the cross tabulation analysis for the purposes of multiple regression analysis, in order to arrive at a regression equation that would be used to predict effeminacy scores for the second half of the experimental sample. These variables are listed below.

- 1. Two variables relating the psychiatric diagnosis of the boy "emotional disorders" and "personality disorders".
- Two variables concerned with mother's desired expectation of the sex of the child during pregnancy and her reaction as to whether the baby actually looked like a boy.
- Four variables concerned with mother's behaviour towards the boy - proximity in infancy and later, encouragement of feminine behaviour and allowing the boy to sleep in the parental bed,

One variable related to power within the family, namely
whether mother makes the final decisions with respect to the life
i style of the family.

For the first fifty boys multiple regression analysis using the above variables gave an R of .7792 and R² of .607, thus explaining 60 per cent of the variation in the effeminacy scores.

The regression equation of this half was used to predict effeminacy scores for the second fifty boys. Since the same item sheet, had been used and analysed for all 100 boys, the actual effeminacy scores of the second half were obtained in the same way as the first. The correlation coefficient between the actual and predicted scores for this group was computed and the answer was .6615. Therefore the use of significant variables from the first data see to predict effeminacy scores on the second data set is validated.

C. "Ideal" Type of Effeminate Boy

This section will describe effectionacy in terms of typology. In the context of this work the "ideal" type will be derived from factors that were useful in predicting effections, scores. The word ideal is non-used to refer to effectionacy as an ideal state, but to include all the possibilities that such an attribute may cogently include. Individual reality will usually diverge from the ideal as people vary enormously.

The ideal effeminate boy is born to or adopted in early infancy by a mother who actually wanted a daughter or did not strongly wish for

a son. At birth, or soon after, the baby is perceived as not looking obviously masculine. He tends to be very cuddly and affectionate as a baby. At the toddler stage the desire for closeness to his mother does not begin to diminish, and his mother makes no effort to discourage him. He may be regarded by his mother as frail and vulnerable, and sometimes as exceptionally good looking in a girlish way. Close physical contact may be permitted or encouraged for a variety of reasons. These include the attractiveness of the child for the mother and certain needs of the child arising from his vulnerability. Thus he may be a "nervous" child who becomes panicky if his mother is out of his sight; has sleep disturbances such as night terrors; a variety of physical symptoms usually with no discoverable physical basis; fears and phobias, etc. The mother herself may be agoraphobic and require her son's presence but this is seldom revealed without probing. The mother may actively prevent the boy from becoming autonomous by intervening in the neighbourhood and with the school whenever her son is involved in rough play or is reprimanded by the teacher. Occasionally the father may be the main provider of over protection and allow the child to continue physical closeness to both parents. Almost always the effeminate boy sleeps in the bed of his mother, even when his parents are living together. He has traits of insecurity, sensitivity and may develop compulsive and fitualistic behaviour. Antisocial behaviour is uncommon, but may become a problem when he faces pressure in later childhood to change his cross gender behaviour, as he feels rejected even by those closest to him who earlier had admired, and complied. Stigmatization by peers for overtly feminine behaviour often leads to truancy from school. In lesser

degrees of effeminacy the boy is a loner relying on his parents for company while the few boys who continue to cross-dress drift into the company of known homosexuals. The conventional nuclear family is under-represented in the background of the effeminate boy. Extended families with the other sometimes being single or widowed, and being an only child are features that are over-represented. In his childhood major decisions involving the life style of the family are made by his mother.

D. Examples of Effeminate Boys

(For reasons of confidentiality the initials are fictitious.

1. L.H.

L was eight years old at assessment. He is an only child, referred at the request of his worried parents. Their complaints were that for several years L complained of headaches and stomachaches before school, worse when he had cests. His appetite was always very poor. He hardly eats at meal times but does receive unlimited pocket money which is spent on junk food. He has many fears including the school bus which he finds is too noisy. His mother is a teacher in his school and at recess he seeks her out and clings instead of slaving with other children.

L's father is, a fisherman and his paternal grandparents live mext door. L spends a lot of time with his grandmother and often sleeps with her. L has a fervent attachment to this grandmother, who still rocks him to sleep in her arms and sometimes lets him sleep in a nightcown.

In appearance L is frail and worried looking, at the 5th percentile in height and 3rd percentile in weight. He prefers playing with girls and his ambition is to be a cook. He states that boys are rough and it is better to be a girl. Although he feels tempted to go, outdoors with his father, he often refuses and goes to his grandmother, who is a diabetic, and I feels a duty to care for her health.

2. F.C.

F was nine years old when he was seen for assessment at the urgent request of his school. F had a twin brother, physically and emotionally quite unlike F. two older brothers and a younger sister. The school complained that F'in the past year did no school work, disrupted the class and was constantly fighting. He stole pencils and money at school. He had been stealing small change at home for a few years. As F's home was 650 miles away, he was assessed and treated as an in-patient. His mother gave no other information in the beginning.

F is a well developed boy, friendly and pleasant. He is extremely attached to his mother who is separated from her husband and thinds to change residence once a year. Frappeared to have low self-esteem and did not express any feminine interests at first, but in answer to a question he said that girls were luckips than boys because they could get married. He was noticeably fascinated by feminine clothing and jewellery which he would tough surreptitiously.

As we got to know F better, he confided that his mother always said he looked like a girl. He asked staff members anxiously if he looked like a girl, and seemed genuinely relieved when the answer was negative. When interviewed again, F's mother confirmed that she cooperated in letting F dress like a girl, play with his sister's dollar

and she herself would play house with him, with F acting a female role.

Fis mother said that he pestered her until she gave in. She complained
that F was overly affectionate with her and jealous of any physical
contact between her and her bow friend.

E. Clinical Significance of Effeminacy in Childhood

As this research was come in a clinical setting, the question is now raised as to the importance of diagnosing and treating effeminacy in the clinical practice of child psychestry.

During psychiatric history taking, and in the examination of the child, knowledge of predictive factors and signposts will enable the examiner to determine it musual degrees of effeminacy are present. In the present investigation fifteen out of 100 boy's fell into this category. Without special questions and specific observations it would not have been possible to arrive at this figure. The children's parents tended to avoid giving supression to any misgivings or fears about the mascelinity of their sons although they had often cherished those fears.

Whether effenings should be a target of treatment cannot be answered in an unequivocal fashion. The earlier notions of Freed (1924), that a man who is a little effening to some balanced finds echoes in contemporary views (Sem, 1974), that a mixed or "endrogynous" self concept allows the individual to be more flexible and resiliant. In the present study probing moduly for erotic abnormality was not done to avoid vitiating the probability of influencing the family and helping the child. Turning to the follow-up studies of well known investigators such as Money (1979), Green (1974), Suger (1978).

Lebovitz (1972) and Bakin (1968), a deviant outcome for sexuality is favoured. The strongest relationship is with homosexuality. In their late teems or young adult years 20 to 80 per cent of the boys were definitely homosexual. Transsexualism with homosexual propensity was less common at nil to 20 per cent. Transvetism was least common as a deviant outcome in this group. The affeninate mannerisms tendent to disappear in adolescence, and even in this group some were declared to be heterosexual at follow-up. Where adequate treatment was undertaken, cross gender behaviour and social adjustiment were influenced but not the crotic drive (Green, 1972, 1974; Mopey, 1979), with a greater chance of being effective in the younger boys.

Effectinacy therefore may not be of clinical significance per se, but when associated with significant emotional and social maladjustment which are directly related to it, then effectinacy could become one of the targets for therapeutic endeavour. Equally when the boy himself desires to be more like other boys, there is a role for the physician in modifying factors perceived as causative.

CHAPTER 6: SUMMARY AND CONCLUSIONS

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A. Summary

- In Chapter 1, under Section A, operational definitions of the words sex, gender, effecting and eroticism were given and the characteristics of certain related clinical syndromes were outlined. This laid # the foundation for assigning the literature as it implines on the focus of this resempth.
- B.I. The preamble, under Section B revelved the literature on sexual dimorphism in those areas that are relevant to the study of effeminacy. After considering biological studies, contributions from cultural and historical studies were surveyed.
- B. II Gender differences were noted to be invariably present, yet extremely malleable depending on sociocultural traditions. Gross-cultural studies of children showed remarkable consistency in boys being more aggressive and girls more affectionate and responsible. Examples were given from ancient myths as well as modern history and anthropology, showing that in spite of the consistency within each epoch and society deviants from the accepted norm do exist, as illustrated by the Chevalier d'Eon or the practice of institutionalizing transvestites in India, Japan and Canada among other countries.
- B, IXI The question of how gender differences come about was further explored. Gender was noted to be but one aspect of the nature/nútture controversy. The role of biology, stress and learning was considered for animals. Recent research had linked prenatal androgen

in animals to actual anatomical brain differences underlying differences in sender behaviour.

- In humans, the biological foundations of sex determination and differentiation were reviewed. Much of our knowledge was used to the study of the "abnormal". Suman intersexuality was reviewed, including the syndromes which are especially relevant to the study; postnatal gender behaviour of girls subjected to androgenic hormones in fetal life and boys with ambiguous genitalia raised as girls who are reported to readjust to the male role when pubertal hormones assert themselves on their muscles and genitalia. The probleminof children subjected to late re-assignment of gender as pur forward by Money exerted a profound influence on the action taken by physicians for the past two decades, but he was retently being strongly challenged. Contemporary social learning, cognitive-developmental and psychoannalytically derived theories on gender differences were reviewed.
- 2.1 The research underlying this thesis took place in a children's hospital serving the entire population of Newfoundland.
- 2.2 The purpose of the research was to measure effeminary and to identify significant ampociations with demographic and effoliacial factors. To achieve this end an item sheet was compiled and completed on one hundred successive boys referred to the psychiatric service. The boys were 6-12 years of age and free of gross brain pathology, thild-hood psychoses and mental retardation.

- 2,3 The hypotheses were that effeminacy was quantitative; that most boys would have some of its features with few at the extremes; that the extremely effeminate boys would reveal a pattern of background factors that could be used to predict high scores on effeminacy; that a relatively high incidence of effeminacy at the higher end would be found in a psychiatric clinic population, and that marital conflicts and abnormal child-rearing practices are non-specific in that the maladptation produced in the child yill depend on the child's fow vulnerability.
- 2.4 The septing of the research was advantageous, (3) in that
 child psychiatric assessment procedure is normally over-inclusive and
 (b) the frequent availability of other medical records for cross
 checking information.
- 2.4,5 All the boys and their families were interviewed by the researcher. The item sheet was constructed to be suitable for computer analysis with variables chosen from well known studies in the literature, and also on the pdvice of established researchers in the field. The Items for measuring effeminacy were substitud to three independent experts for weighting. Each boy was given an effeminacy score based on the sum of the scores on the items. The total sample of one hundred boys was analysed in two halves of fifty successive inceptions. Significant variables associated with high-effeminacy scores in the first fifty were used to predict offeminacy scores for the second fifty boys, to be compared to their true effeminacy scores for the second fifty boys, to be
- The results of the frequency tables constructed for variables in the demographic, clinical, gender influencing and gender behaviour

categories were described for the first fifty boys. All were Caucasian and almost half were doing poorly in school. Their background was predominantly in the lower socioeconomic strata. Sixty-eight per cent were living with both biological parents at the time of referral and all percent were living with parents who adopted them within the first four months of birth. The two major symptom clusters among child psychiatry syndromes - conduct disorder and emotional disorder made up 50 per cent of the psychiatric diagnostic categories. Eighty-six per cent of the boys, were subject to adverse actiplogical factors of the parental of the boys, were subject to adverse actiplogical factors of the parental significant psychiatric disorder almost always non-psychotic. Anthropometry on the boys such as height, weight, skin fold thickness and androgyny store followed the normal distribution.

Overdependent behaviour was pronounced in these boys (36 per.cent), and 20 per cent were sleeping with their mothers well beyond the age of five years. Discipline was largely left to the mothers. Only half the boys had not experienced severe disruption due to marital conflicts in the parents. Thirty per cent of the boys had shown at least passing interest in feminine clothing and accessories, usually at the preschool age. Twenty-four per cent drew a female when asked to draw a person.

4.A.1 Effeminacy Scores. The final effeminacy score for each boy was obtained by summation of the scores on individual items. For the first fifty boys the lowest score was 12, the highest 160, with a sharp fall in the number of boys scoring more than 100. The distribution

was not "normal", and dividing the range equidistantly into three parts,

50 per cent were in the Low-Effeminacy range, 36 per cent in the ModerateEffeminacy range and 14 per cent in the High-Effeminacy range.

4.A.2 The relationship of high-effeminacy scores to proposed etiological factors. Only children showed a significant relationship. So did boys who were not living in the conventional nuclear family of biological parents without second degree relatives Living in the home. Those boys receiving a psychiatric diagnosis of emotional disorders and personality disorders of the insecure/sensitive type also had a significant excess of high scorers. Mother's perception that the boy did not look "very much a boy" at birth also correlated with bigh scores. Excessive physical proximity to the mother in infancy, but especially in later childhood was significantly associated. Sleeping with mother was; also strongly correlated in an ordinal fashion, effeminacy scores increasing with each year of continuing to sleep with mother. Having fathers with conspicuously masculine jobs was negatively Arrelated. Whether the fathers lived at home was more important to Inegatively correlate with high-effeminacy scores, than the role played by fathers in terms of family activities or discipline. The only area where mother's domination over father has a positive relation on higheffeminacy scores is if she makes all major decisions affecting life style. Mothers' encouragement of effeminate behaviour was strongly associated while having psychiatrically disturbed siblings almost approached significance.

4.B The data of the first and second halves of the one hundred boys was checked for significant differences in demographic and clinical variables, and pattern of effeminacy scores. There were none, so the use of the second fifty boys as a control to predict effeminacy scores proceeded. Multiple regression analysis of the first data set gave nine variables that accounted for 60 per cent of the variation in the effeminacy scores. The regression equation obtained from this analysis was utilised to obtain "expected" values for the effeminacy scores of the second data set. The "actual" values were meantime calculated in the same way as for the first data set and now the correlation coefficient was computed for the "actual" and "expected" scores. R_c wass-6615, therefore the predictive force of the nine variables was validated.

B. Conclusions

- Effentacy, as defined and seasured in this research was present to a high level in 15 per cent of the total sample of one hundred boys while 39 per cent scored moderately and 46 per cent scored low, attesting to the enormous variability of children. In spite of a few in the extreme category none was referred for effesinacy.
- A number of factors appeared to be associated with obtaining high scores on effeninacy, but no link was found with anthropometric measurements and hence there were no biological correlates.
- Certain factors that indicate unusual physical and emotional closeness between mother and son were implicated: excessive physical proximity in infancy and especially in later childhood and sleeping with mother into late childhood. Factors that favour such closeness

such as being an only child, physical absence of the father and presence of emotional factors such as anxiety or insecurity in the boy pinpointing his vulnerability were also strongly associated. Maternal factors that were important were not having expressed a strong preference for a son, not having perceived the newborn baby as very typically boyish and having participated positively when the boy showed preferences for feminine clothing and pursuits. Among various aspects of family life, the factor of mother having the final say in major life style decisions was the only one relating to high effeminacy scores.

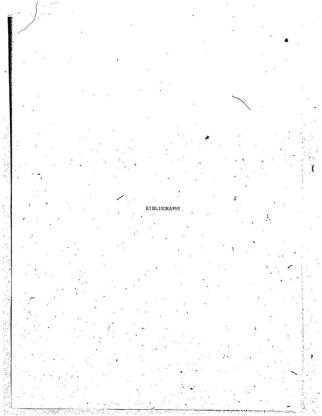
The "ideal" effeminate boy, as developed by this research, is the only child of a mother who did not yearn for a son. He is a cuddly baby and does not become distal from his mother as he grows older, and he usually sleeps with his mother into late childhood. He is perceived as nervous and allowed to be overdependent and at least initially not discouraged in cross gender behaviour. His father may not be living at home, and even when he is, his mother is perceived as making major decisions on life style.

The findings of this research partly support the work of Green, Honey and Zugar. Differences may be due to the fact that their subjects were selected for extremely effeminate behaviour. Hony parental characteristics cited proved to be non-specific.

The hypotheses that effeminacy is not an all or none phenomenon; that higher levels of effeminacy would be relatively common in—a psychiatric clinic population and that predictive factors in the background could be discovered were validated. The hypothesis that

effeminacy scores would follow a normal distribution was contradicted by the findings.

The clinical implications of the findings are as yet arguable. In most cases effeminacy is probably not of clinical significance and does not automatically become a target of treatment, but in a few treatment may be desirable where the child himself wishes to change.



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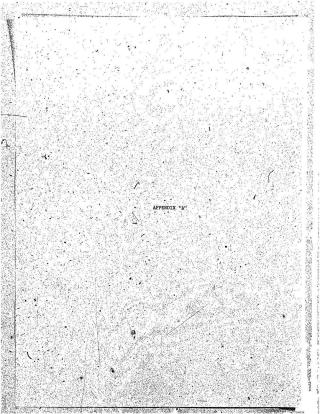
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THE ITEM SHEET (QUESTIONNAIRE)

1	First Middle Surname
Name.	of Child
Name	of Mother
Name	of Father
Date	Day Month Year of birth of child
Home	Address Tel. No.
Date	of inception
	Table of Contents
(A)	Personalia
(B)	Socio-economic Data
(c)	Household Data
(D)	Geographic Data
(E)	Diagnostic Data
(F)	Parental Questionnaire
(6)	Childle Outstiannaise

A. PERSONALIA

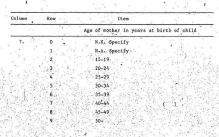
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Column	Row	ITEM	14.	10.
		Referring Agency.		
1, 4, 5	'o' "	N.K.	5 15 15 15 15 15 15 15 15 15 15 15 15 15	;: £.
	in these	N.A.	A 2	4
5. J. 18. J. 1	1000	and the street of the street of the	Certification	
5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	2	Family Doctor	Action will	12 12 2
A STATE OF THE STATE OF	3	School Medical Officer	O Delpar	, 4
	4.	Pediatrician	400	
企业基本的 证	5	Psychiatrist	()	1
ALPER WIT	6	Other Specialist - specify	14,100	
	7	- Emergency Room	The same of the same	100
	8 /	Child Welfare Worker		200
	9	Family Court		7547
25 25 L	10	Other Legal Authority	3 (2.7)	
A 1200 400	и	Other Agency - specify		
4 3 3 4 3 6 4				
	S. 1. 10 6		A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



lumn	Row	Item	
100		At inception of child, number of months completed since l	ast birthd
-3.	. 0.	0	1
	- 1		1
	. 2	2	7.4
4. 4	. 3	3	
0 1 30	4		Sec. 11
6.	. 5		. 6
	6	6 , ()	
	7.1		Maria San
11121	8	.81	110
Salah Salah	9	9	
12:33	10	10	1
375	- 11	ii.	1
A CONTRACTOR OF THE PARTY OF TH			
		CANADA MARIA MARIA TENCHANISTA	100
19. (1. A) . (8. C)			No.
		Age of mother in years at inception	
4.	<u> </u>	N.K. Specify	
4.		N.K. Specify N.A. Specify	
4.	1 2	N.K. Specify N.A. Specify 20-24	
4.		N.K. Specify N.A. Specify 20-24 25-29	
*	1 2	N.K. Specify N.A. Specify 20-24 25-29 30-34	
*	1 2 3	N.K. Specify N.A.' Specify 20-24 25-29 30-34 35-39	
•	1 2 3 3 4	N.K. Specify N.A. Specify 20-24 23-29 30-34 35-39 40-44	
•	1 2 3 4 5 5	8.K. Specify N.A. Specify 20=24 25=29 30=34 35=39 40-44 45-49	
*	1 2 3 4 5 5	N.K. Specify N.A. Specify 20-24 23-29 30-34 35-39 40-44	
*	1 2 3 4 5 6	8.K. Specify N.A. Specify 20=24 25=29 30=34 35=39 40-44 45-49	
• •	1 2 3 4 5 6 7 8	N.K. specify N.A. specify 20-24 25-29 30-34 33-39 40-44 55-95	
**	1 2 3 4 5 6 7 8 8	N.K. Specify N.A. Specify 20-22 25-29 30-34 35-39 40-44 45-49 20-54 55-59	
4.	1 2 3 4 5 6 7 8 9	N.K. Specify N.A. Specify 20-24 20-29 30-14 35-39 40-44 45-49 50-54 55-59 60-64	

				0.0		
Column '	Row	1 0 10	'Item	45		
-		. Age of fa	ther in y	ears at	incepti	on ,
5.	0 ,	N.K.	Specify			
1. 1. 2	1	N.A.	Specify		× 2	
No. of	2	20-24			- 15.	S
1	v 3	25-29		20 - 7	10	1 1 1 1 1
	4	30-34	A POLICE		1919	TRACT
	5	35-/39		1.00		a Kulia
	6	40-44	1	1		· Y
	7	45-49			: Y.Y.	
V11.00	8	50-54				
		55-59	Markey .	1		
STATE OF	10	60-64		21.00	4	
	A 17 THE SEC. S.	65+	1. 4. 18.		42.35	
	.11	03+	N. M.	1		25 30
20. 15 6 1 1 4	And the Atlanta	13. 267.5	1	3 7	11111	: all let

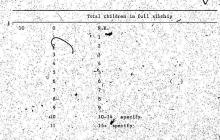
	Parental age difference in years Father's age minus Mother's age
6, 0	N.K. Specify
	N.A. Specify
2	-15 and over
3.	-10 to14
4	-5 to −9
5	-1 to -4, (,)
6	
1	1 to 4
8	5 to 19
9	10 to 14
_ 10	15 to 19
202 mg 111	20 and over
Mr. Carlotte	



	Age of father in years at birth of child
8. 0	N.K. Specify
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N.A. Specify
2	15-19
3"	20-24
4	25-29
5	30-34
6	35-39
	40-44
8 -	45-49
9	950-54
10	55-59
114	60+

Page 161

Column	Row	Item
1		Child's rank in relation to siblings
9.	0.	N.K.
7 . 10 . 1	1	Eldest
	2	Second
	1 3	Third
	4	Fourth
	. 5	Pifth
A MAR	6	Sixth ()
	7.1	Seventh .
3A 3	8	Eighth
	9 .	Ninth
	.10	Tenth
•	11	Eleventh and over - specify
	-12	e Only child



Column	Row	· Item	
		Total number of hal	f siblings
11.	. 0	. N.K.	7.7
	. 1	. None	
	2	1	
	C3	. 2	100
15%) 4	. 3	
07 1	73		Strange No.



	Number of older sisters of child	
12. 0	ix	
	None	
1		
4	3.	
5		
16		
8	4	

Number of older brothers of child								
13: 0	N.K.							
1	None							
2	1 9							
3								
4	- y							
5								
6		4						
1								
		-						
		13						

		1		
Row	10	Item		· •
	Differ older	brothers - sis	of older si	sters to brothers
. 0	.N.1			
1.11	6	and over		
2	-5	45.50	a giri.	. W. L.
3	-4		1	
4	-3			
5 "	-2			
6			54.74	7 FEB 7 F.
	. 0	*	V. 5.	1
8	0 41		41 a 124	
	7	. 3	*	
10	13	trail, itsi		Territory Control
12		V 5		11 1
77.2		Y		
		and over		
	Row 0 1 2 3 4 5 4 5 1 8 9 10 10 11 12 13	Row Differ	Row Item Difference of number older brothers = si O	Row Item

200	1				Char	tshowi	ng age	and	sex	of s	bling	8	4.19.
		122	14		4 30	Z	1 4	346	in.		176	10	
15.		1,500	1	-		400.4	4 4	4		4		1.4	11.1

B. SOCIOCULTURAL DATA

Column	Row	e .	ltem	10.1	1	· .	
		1.	Religion of chil	d ′			
16.	0 .		. Roman Catholic		:	12	٠.
	,1 2	7.7	Anglican' United Church		ç é	de la	
Act of	. 3	vyr,	Salvation Army	Ç.		()	
	5	•	Pentecostal Other Christia	n	0 120 0 120		
	16		Other :				
				12.00			

Concordance between parental and child's religion

N.K.

N.A.

Doth parents and child are of same religion

Father's religion is different

Kother's religion is different

Sold parents of different religion to child's

Child's attendance at church services in past year

18. 0 N.K.

1 N.A.

2 Regular

3 Occasional

Never

Column	Row		Item
	vers numero nu	E	thnic group of child
19.	0	•	N.K '
	1	100	N.A.
	. 2		Caucasian, born in Newfoundland
	3		Caucasian, born elsewhere in Canada
St. Bul	4	4. 6.	Caucasian, born outside Canada
	5	C 13.6	N. American Indian
a de	6	lyn fr	Eskimo ()
	7	1,0	Asiatic
	8		Black
	. 9	to some	Mixed - specify
4 . A. S.	10	50	Other - specify
		4	

Educational achievement of child

N.K.

In regular class level with age
In regular class deage level with some
remodial caching

In regular class below age level
In special aducation or opportunity class
In school for retarded

Other - specify

Column			
Column	Row	Item	
	,	Education of mother - highest achieved	
21.	. '0	N.K.	
	i .	N.A.	
	2	No schooling / -	
	3	Less than grade 6	
	4	Grade 6 - 9	
wiles , ",	5	Grade 10 ()	
	6	Grade 11 - 12	
a Tarib	. 7	Attended University, not completed	
	8	Completed University	e,

			Educat	ion of fa	ther - h	ighest a	chie	ved
22.	0		N.	K	,			*
10 E	. 1		N.	A.				
	. 2 .	14 S	No	schooling	g			5.
. x . N	3	00	Le	ss than g	rade 6			
. 1	4		Gr	ade 6 - 9		100		VjE
	. 5		Gr	ade 10			(1 3
	6		Gr	ade 11 -	12			100
	7.		. At	tended Un	iversity	, not co	mp.le	ted ·
1411.	. 8	200	Co	mpleted U	niversit	y	ů.	12.0

Column .	Row	***		Item			
		Н	ighest occu	pation ach	nieved by	mothér	
23.	0	0.00	N.K.				
2 30	1 .		Professi	ona 1		×	
	2		Semi-pro	fessional		y E. S.	
* 9	3.		Propriet	or (large))	5.	
28	4	1 10	Propriet	or (small)	1000	1. 1. 1.	. 1 19
	5		Clerical	& Sales			a Here
	6	100 C 100 C	Skilled		7439		14.
. n . 1	7、		Semi-ski	lled			and .
west file.	. 8		Unskille			100	1. 1
	9	11.	Farmer	14 /18		7	4 W.
and the	_ 10	11.	Housewif	e		0.14	100
	11		1 1	labour fo	orce		4 5
	12		Other	1	ν.Υ.,		2.3
		1 0	1			× 1/4	Maria II
		011 9			w		1.0

Highest occupation achieved by father	
24. 0 N.K.	
1. Professional	
2 Semi-professional	
4 Proprietor (small)	
5 Clerical & Sales	
6 Skilled	7:
7 Semi-skilled	15
8 Unskilled	1
9 Farmer	1.
10 Housewife	
11 Never in labour force	1
12 Other	1
사람들이 많아 하다는 나를 하는 것들이 하는 것이 없는 이 이 없는 사람들이 되었다고 하고 있었다. 아이 마음 생각이	2.5

A.		
Column ·	Row	Iten
	v."	Present employment status of mother
25.	0	N.K.
2 10 100	1	N.A.
	2	- Housewife
	3	Additional employment at home
	4.	Part-time outside employment
	5	Full time outside employment
- e	916	Seasonal employment ()
10 m	77	Unemployed
	8	Other
	15	
1.50		Present employment status of father
- 26	0	N.K.
	. 1	N.A.
	2.	Part-time employment
	3). Full time employment
, N.		Seasonal employment ()
an about a	1 4 1 5	Unemployed
	112 114	Other
		Ville:
	1	
1	10 100	Duration of unemployment of father
27.	. 0	N.K.
Phy. 12	F 1 3 5	MA.
100	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Less than 1 year
	The second	1 - 4 years
· 图、图、	3	of the state of th
Sec. 1.	4 7 100	5 - 9 years

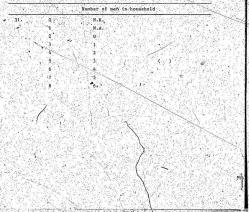
ACCOUNTS OF THE PARTY OF THE PA

. C. HOUSEHOLD DATA

11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Present housing status of child and family
28. 0	N.K.
1 4	N.A.
2 .	Live in house or apartment
3	Live in house or apartment with shared
	facilities
1. A. S. A. W.	Live in mobile home
5	Live in boarding home
6	Live in hotel
The second second	Live in commune
Later Annual Special Section	Other

1.000 10 1 1	I'm the test of the	the first the second of the se
4.7.4		Family Structure
29.	0 -	N.K.
	i	N.A.
	2	Nuclear family with both parents
	3	Nuclear family with mother only."
	4	Nuclear family with father only
11 74	. 5	Extended family with both parents
	6	Extended family with mother only
74 S. M.	10 7	Extended family with father only
A. F. 1977	8	Lives with grandparents ()
State W.	9	Lives with older siblings
- Carlo	10-	Lives with adoptive family
	11	Lives in foster home
171 2	.12	Other

Column Row	Item
ALLEY ME	Number of women in household
30. 0	W.K.
1	N.A.
2	
4	
	3 (÷)
6	
, Pi	64
4.1.2	



Column	Row	Total	Item	usehold		
, 32.	0	N.	S 2 10 30	1	- T	7.
	2	0		11.		49 .
	4	2	,			
1	6	4				
	7 8					
	. 9	74	(1).2(m)			al.

17.00	Number of girls in household			
33				
1 1 1 1 1 1 1	1 N.A.			
1				
	²			
A - OT 3	 6.1 (1) The Market Process (1) The Service Service (2) 			
7	4 2 ()			
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6	 Fig. 19 (1) (1) (2) (4) (1) (3) (3) (4) (4) (4) (4) (4) (4) 			
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15 14 17 18 18 18				
O SERVER				
Dr. St. Com.				

olumn	Row	Item	
y (20)	1	Number of boys in household	1
34.	0	N.K.	
	1	N.A.	
18.	2	6	
200	- 3		A 198
	4	2	
	5	j ()	
1-27	6		
	Section.	5	Sev. 9
	/ 8	6	
	9	* \ \ #	
5.3			
	٠		
1.1	ger 150 July 1		1.0
4.17		Total children in household	YMEN
35.	0	N.K. 3	
	1	N.A.	San Lander
			Sec. 10. 15.
3	2		
	2		
	2	11	
	2 3 4	11	
	2 : 3 : 4 : 5 : 6 : 7		\ \ •
	2 : 3 . 4 . 5 . 6 . 7 . 8	((`
	2 3 4 5 6 7 8		
	2 3 4 5 6 7 8 9		
,	2 3 4 5 6 7 8 9		
1	2 3 4 5 6 7 8 9		
1	2 3 4 5 6 7 8 9		
•	2 3 4 5 6 7 8 9		

D. GEOGRAPHIC DATA

Column Row	* Item	1000	
	Distance from Clini		
36. 0	0-15 miles		3.7
1.	16-30 miles		$f_{B_n} = e$
2	31-100 miles		
3 .	101-300 miles		.)
41	301-500 miles	100	1.30
	Over 500 miles		3000

F Type of community	1
37. Major city - more than 20,000 population	À.
1 Small city = 10,000-20,000	-
2 Large town - 5,000-10,000	
3 Small town = 1,000-5,000 ()	
4 Large community = 500-1,000	è
5 Small community - Less than 500	
6 Other - specify	3
	ů,

E. DIAGNOSTIC DATA

a sile		Psychiatric Diagnosis
38.	0 1 2	Normal variation Adaptation reaction Hyperkinetic syndrome
. a 12.00	. 3	Speech & language disorder - specify
	4 5	Enuresis ()
100	6 -	Conduct disorder
	7.	Neurotic disorder - specify
	8	Childhood psychosis - specify
g from the	9	Organic psychosyndrome - specify
Control of	10	. Psychosomatic disorder - specify.
	11	- Personality disorder - specify
	12	Mental subnormality
artist to	13.	Other clinical syndrome - specify
1300		Intellectual level

Dull nor Borderli Retarded

Associated or etiological	factors
40. 0 None known 1. Major physical disorder ex	cluding C.N.S. disease
2 Major environmental factor 3 Major environmental factor	of emotional or attitudinal nature of socio-economic nature

	· · · · · ·		F. PA	RENTAL QUESTIONNAIRE	
	Column .	Row	1	Item	 .
4	41.	1	During	pregnancy were you hoping for a g	irl or boy?
		. 0,	The state of	N.A.	19,140
		1		N.K.	
		2	a, a.	Girl (,)	
da tub	A. 5	3 00		Boy	
	tick in	4		No preference	Add to
100 V	a Maria	1	1		
	42.		Did yo	have treatment in pregnancy?	1.4.4
	١.	. 0	1500	N.A.	J - 18
TEM DESIGN		4		N.K.	
	1,50 21	2 !		Estrogens - specify ()
		3	E. 3.	Androgens - specify	
Mary Mary	MANUAL ST	4	175 6	Progestogens - specify	1.15.2
7		5	2.5	Other hormones - specify	17 Y. J.
		6"	- depart	Non hormones - specify	Mil
				and in the transfer of the second	100
	43.	4	During	pregnancy what did you predict th	e child
	113 Ja 45 A	S	. was go	ing to be from movements?	
		0	3.97	N.K.	
NEW YOU		1.		N.A.	5 Post 19
	7 34 6 7	2		Girl ()	
		3		Boy	Marillon,
		4		No idea	7 3 6
		2.00	7		
		19,000			*********
F 437 77	19 11 11	14.18	1	· (本) (本) (本) (本)	
14. A. A. A.					ga - 4:
			- T		自然理
		18 Sept 1			
				是原因不同性性性的	-
		W. S. P.			ar Ged
					100
Section 1 and a second	12.5	" DA . " 1. 5		SALES OF THE PARTY OF THE PARTY OF THE PARTY.	130-3

	Column	Row .	Item
	44.	Wha	t was the baby's weight at birth?
		0	N.K.
		1	Less than 3 lbs.
		2	3-3 lbs. 15 oz.
	學	. 3	4-4 lbs. 15 oz.
1 - 1		4	5-5 lbs. 15 oz.
		5	6-6 lbs. 15 oz.
		6	7-7 lbs. 15 oz.
		. 7	8-8 lbs. 15 oz.
		8	9-9 lbs. 15 oz.
5.50		9	10+ lbs.
	-	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
	45.		was the child delivered?
		0	N.K.
	2.5.426		N.A.
			Normal vaginal delivery
	12.	1	Abnormal presentation - no instruments used, specify
			Forceps applied
			Vacuum cup applied ()
	4. 7.40		
1	1.1		Caesarian Section Other - specify
	. 174:	1 1 1 2	Other - specify
	46.	Wha	t was the baby's condition at birth?
	V. V.	0	N.R.
N. 7. 4	41.4	1	N.A.
		2 '	Normal (· ·)
1		4.3	Needed help to breathe but then all right
	W. P	4	Kept in incubator for over 24 hours
		5 .	Continued to be ill for first week
	MYST :	6	Continued to be ill for more than one week.
1.	1. 1. 1.		
1 W	1000	* 1	

•		Page 177
	10	
* *	Column Row	Item
5	\$7.	Did the baby look like a girl or boy to mother?
**	. 0	N.K.
	. 1	N.A.
ě.	2	Girl
	3	Boy 04
	4	Uncertain
1 11 12 -		
77. x	48.	Did the baby look like a girl or boy to father? .
TAKE A LANGE	. 0	N.K.
	1	N.A.
	,2	Cirl ()
	3	Boy
PARTY MOUL	4	Uncertain
	\"\\	What was the degree of physical proximity with forther during first year?
	0	N.K.
•	1>	N.A.
2 2 2 2 2 2	2	Constant physical proximity to mother
	3	Normal degree of physical proximity to mother
	4 2	Seldom picked up by mother
1.11 M. L. O		
	50.	Did the baby show cuddly behaviour?
	. 0	N.K.
	<i>G</i> 1	N.A.\ Very cuddly
	1.00 100 31	Very cuddly Normal
	San bearing	Not cuddly
Sep. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	(y	
Partie Company		
- Mar Carathan	State of the state	
12000年1		
Section 1	1. 引起来上注	
A Very land		
	21.25	
المسائمة المراجع الها		<u> </u>

PORTA PROBLEM STANSFOR

					-
Column	Row	. 0	Item		
51.		Was th	ere unusually clos	e physical proximity	
		LO mot		srt years .c	
¥	0		N.K.		1
	6 .	* 8	N.A.		
.,Х	2 .		Yes	() .	
74	3	. /	Normal degree of	proximity	
	4 4	/:	Less than normal		
		12. 12.	1. 1. 1 3 3.		
52.		After	the age of one years bed?	r has he been sharing	1
Carta Seri		MOCHEL	N.K.		Si Ch
		14.40	N.A.		
10	411.0	1 18 8 7	No		1.75
		1.00			. 71
3500			Always sleeps wit	the state of the s	
No. of the	4.			mother upto the age of	
	5		The state of the s	mother upto the age of	V. C W.
1	6	5 THE 18	4 . 17	mother upto the age of	
20 25 1 1	7 -	****	The state of the s	mother upto the age of	
	. 8	Alba N	Often slept with	mother upto the age of	7 .
100 J N N N	. 2	J	Often slept with moth	er upto the age of 8 and over	. 2.
		*	Arriver 1.		
.53.	a 15.	Who ta	ught the child to	urinate in toilet, stan	ding u
1344	. 0	1331	N.K.	Paratir Assis	750
- N. II	1		N.A.	all a seed of the Carlo	9 1
	2 .	. / h	Father	COMPANIENCE SERVICES	
	3		Mother	()	- , 6
10.	4.	1 1 May	Other male		1 10
2 1144	5	4 4 7 3	Other female		
1.4	6		Urinates in femal	e position	
		1 2007			1. 6
	a day	A Second		THE R. R. S. L.	
	Jan 11	11 11			1
A Later of	1	100	St. 26. 1. 1. 1.	1	Sec. 2.

Wish A William



	1							
	Column	Row _	-	Item'			2 * _	
.:	54 ₁ .		At what age do		ing the to	ilet by himsel	f.at home?	
	1 1	٠.	. N.K.	-				
	¹	1	N.A.					, .
		. 2	· 3 yea					
	1 .		4 yea		•	()		
. 7		5	S yea					,
		. 6	. 6 yea					
		7.	8 yea					
	7.1.4	1.1	o yea				2. 2	
	55.		At what age	did he sta ublic plac	rt using	the toilet	by	
/		0	N.K.	141.18		Vil. da	Sec. 17	3 7
- T		1	3 yea	rs .				
1		2	4 yea	rs				- :
-		3	. 5 yea	rs	2 1	. () .		
1	1	4	6 yea	rs :		3 3 5		2 4
		. 5	• . 7 yea				1.	
1.	.)	6	8 yea	rs		_	. 4	
	1				11.	·*		
W	56		At what age di	d mother stop	taking him	n into "ladies	17	
		0.	N.K.			•		
34.	6.1	1	N.A.		1 .			75
100	-	2	3 yea				2. 1	
		3	4 yea 5 yea		2 4.			
	1					()		
		6	.6 'yea		22.7			
		177	7 yea 8 yea					
Sec. 1.	V	TV	o yea			2.50		14
2.14			F 1		14.			1
AL VI				10 3.1	Chi.	7.	The state	. 1
7	Strake:	1						1:3
1	7	F. (1997)						
100%	1	-16-1	4		· 11	-		
	Sa . 17 6		1 1 1 1 1 1	1000			1.1	
						7		

			· · ·
Column	Row	Ites	<
		Who taught him to tie his shoe laces?	
	4 0 '.	N.K.	
	. 1 .	N-A-	
	2 1	Father	
	. 3	Mother	
	4 1	Teicher ()	
	5	Other male	
4	. 6 .	Other female	1
- 3. 4			
58.		Before starting school what kind of clothes did he like to wear?	
Y	0	N.K.	- 1541
Ye. 18 - 10	1	N.A.	Title
4	2	Mesculine - specify	
40.	3.	Feminine - specify	1 W
	4	Uncertain	
1			
59.		Before starting school what type of clothes did he hate?	
	. 0 .	N.K.	
1 300	/.4	N.A. ()	
/	. 2	Typical masculine clothes	1 -: :
1.1	.3.	Feminine clothes	1
	4	Uncertain	1
	11, 1		
60.		Before starting school did he imitate his fat at his toilet - shaving, etc.?	her
	0	N.X.	7.1
	:1	N.A. ()	19.6.1
	2	Yes	•
	3	No	
	5 5 7		
J		_	
3.1.			44.70
	44		15.
1 771			1000

Column .	- Row	Item .	
61		Before starting school di	d he imitate his father
	Section 1997	at his work - fishing, dr	illing, sawing, etc.?
Fig. 1	.0	N.K.	^
	1 .	N.A.	
13.	. 2 .	Yes a	
)	- 3	No.	gara Maria da Maria
,	12.5	 Officer had 	the second section.
62, -		Before starting school di	d he imitate his mother .
		doing her hair?	E A STAN AND WAY
13. 500	0	N.K.	
	1 1	N.A.	17、大学基础的研究系统。
	2	1 Yes	(.)
1	3	No (
73 7 1		/ * * * * * * * * * * * * * * * * * * *	
63.	A	Before starting school di	d he imitate his mother
· 6 . 3 V		using make-up?	
	0	N.K. I	
4 70 17	. 4	N.A.	37. 15. 平向。\$P\$此意
	2	Yes	()
	3	No	
64.	: . · . · .	Before starting school di	d he imitate his mother
11.15	11/2/16	working - cooking, cuttin feeding baby, mopping, et	g food, vacuuming,
1.37	4	N.K.	. /
4		with the state of the	dan barrefelektik
the day	L. Street	N.A.	Allowing to the file of City
	. 2	Yes	
	1	No	and the telephone size of
100			
65.	11. 17.	A State of the Sta	d he show excessive modesty
	0	N.K.	
19.50	1	N.A.	
W. 4 M.	2,	Yes	()
Part Built	3	No -	
W. Mary	4	Not sure	
1			
	Strain Strain		
114 1111	2 3 1 2 2 2 2 3	The state of the state of the	TOTAL STREET, AND AND STREET,

N SHEET SHEET AND

67.	0 1 2 3 4	(for starting school did he show excessive modest N.A. Yes No. Not sure (for starting school what type of clothes does to refuse to wear?
67.	4	Eig. No Not sure Office atting school What type of clothes does to refuse to wear?
67.	4	Yes Not sure tfpr starting school what type of clothes does refuse to west?
67.	4	No ROT sure Iffgr starting school what type of clothes does te cetule to weat?
167.	4	No ROT sure Iffgr starting school what type of clothes does te cetule to weat?
		Iffgr starting school what type of clothes does be refuse to wear?
		ie refuse to wear?
	0	
1000	7-17- 1 1 1 1 2	N.K.
t was here was	i	N:A
	2,	Masculine ()
	3	Feminine
	4.	Creased or soiled
	5	Uncertain
68.	A hy	ofter starting school what type of clothes does we favour?
	0	- N.K.
	1	N.A.
	2	Masculine ()
	3	Feminine
	4	Atypical
69.	WI h	Then he plays make believe games which part does, he like to play usually?
	0 /	N.K.
	1,	NIA.
Mir Wellin *	2	- Mother, vister, nurse, other female
•	3	Father, brother, doctor, other male
	4	Alternating
unitaria.	5^	Never plays such games

Co lumn	Row	Item
70.		Has masturbation been noticed?
		N.K.
1. 7. 1		N.A.
		Frequently ()
		Occasionally
	4.	Never
Sun Year	4 4 / 4 3	
71:	1	Has he ever shown erotic behaviour other than masturbation?
		그렇게 하는 어느 아이들은 아이들은 아이들은 그들은 그들은 그 그 사람들이 되었다고 있다. 그 사람들은 그 없는 이 없는 것이다.
		N.K.
		N.A.
	2	With boys or men ()
	. 3	With girls or women
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	With both sexes
	5	Other - specify
A- 14 1	6	None
don't for	7 30 TW.	
72.		Does he have a nickname?
2.10	0	N.K.
1	37-10 M	N.A.
1.1	2	Masculine ()
To be the		Feminine N
		[2] 이 아크리스 전에 어떻게 되었다면 하면 보다는 사람들이 가지 않는 그렇게 되었다. 그 이 아름다면 나를 다 했다.
A COLUMN	45.00	Neutral
for their		None :
100		
▲ 73.		Does he get teased about being romantic?
	0	N.K.
BA THE	1	N.A. ()
Carrier I	2	Yes
Mary Mills	3 .	No
100		

Column	Row	Item.
74.		Does he take play-acting roles?
	0.	N.K.
	1 1	N.A.
	2	In'public ()
i . i.	. 3	At home only
i deid	4	Never
75.	- William	When he play acts what roles does he choose?
	0	N.K.
100	1/1/	NA.
	, ,	Masculine roles ()
		Feminine roles
		Both equally
4.7.34		Never play acts
		never play accs
76.	100	Whom does he like helping at home?
	0	N.K.
	. 1	N.A.
	2	Father, brother, other male
		Mother, sister, other females
	4	Both equally
		Never helps
. America		never nerps
77.	+	What games does he like to play best?
	0	N.K.
		N.A.
1 . 18 *	2	Masculine ()
		Feminine
1.14	18 11 1	reminine Neutral
		Neutra1
	(A) 5 M	

	- B		
Column	. Row	Item	
, 78.		What kind of toys does he	want you to give him?
Sec.	0	N.K.	
The figure	1,	N.A.	
1 4 8 7 1	2	Masculine	()
	3	Feminine	
. 7 A.	. 4	Neutral	Carlot week 13 17
			245,086,000,000
79.	. N. 1947	When he calls for a playm	ate does he ask for a
LONG TO A TO		girl or boy?	
1000	0	N.K.	
	1	N.A.	
35.	h	Boy	7.5
Value	. 3	Girl	
	4	Either equally	All the fair was been
13 13 1 T	5	Does not call	
A. Des	1. 1. 1.	Jan Kristing Street are	
80.	100	When other children call	for him to play are they
100	10 2.49	usually boys or girls?	The state of the state of
6	0	N.K.	
	1-	N.A.	
	2	Mostly boys	(:)
. Take	3.	Mostly girls	
18 000 15	4	Both equally	
	. 5	No one calls	
81.		Are his current playmates	boys or girls?
	0	N.K.	
	1	N.A.	Contraction of the second
	2	Mostly boys	()
	3	Mostly girls	
5-2-2	4	Both equally	
43.00	5	Solitary	
V. C. 1. 2. 2. 2.	15 13 14 13	The second of the second of the	医通过性性 网络人名英格兰

Column	Row		Item	F .		68
82.		Does he prefer	to be wil	h boys or	girls?	
	ó	N.K.				
ř.	1	. N.A.		. 1	2.3	26 S
ė "	2	Boys	1		30.0	
	3	Girls	4.8)	
ta Lille	4 *	No pref	erence .		and the	
	57	Solitar	y	5	Facure 1	135 4
2 4			WILLIAM.	3		
83.	2.450, 246	Before the age	of 5 which	h adult wa	s he cl	osest t
	0	N.K.	1 1 Vil		1	
1. 100	1.	N.A.	VI. 14		1111111	
But the	2	Father			-	
	.3	Mother				
1.41	4 7	Brother	1,000	(`	2.5
1. 1 2. 4	5	Sister	A Serie		1.7	12:
T	6	Other m	ale	A. 181		
A 1000 F	7	Other f				Mar.
4.5	8	None		100	4.7%	1 200
100	Part of			141 14	Tyre.	
84.	1504	After the age	of 5 which	adult is	he clos	ort to
	0	N.K.	or 5 white	addit is	ne Clos	est to
- F 1.8		N.A.	100	100 100 1		151
I della	2	Father	* # # // ·		£ 100 C	1
No. 70,	3	Mother				195
11	4	Brother		14.6		
	Samuel A. A.	Sister	W	141.5	700	17.
11:19	5					Mills.
1	6	Other w		114	Sept 1	1, 4
West.		Other f	emale		1	17.
	. 8	None		Albert St.	1. 6	Sect 11
		31, 32, 33			2 34	
	ar Ayayi				star it	10 1
198	1. 1. 1/4			15 1 1 14	No.	4- 50
4 1 1 1 1 1 1 1 1 1 1	25 A S	YOU KIND OF THE S.	15 421 6		18 1 1	Sept.

Column	Row	ltem
85. ,		Oid mother share bath, with child after age 5?
	. 0	N.K.
	1	N.A.
	3 T	
	. 2	Frequently ()
1000	3	Occasionally
the the	4	Never
Variables.		
86.		oid mother share bath with him before age 5?
	. 0	N.K.
N 40 1 1	1	N.A.
4 1.27	2	Frequently ()
The stage	3	Occasionally
1 1 1 1	4	Never
May and	100	Neve:
4	1,000	
87.	e * 1	lave other people ever remarked that he looks
		like a girl?
	0	N.K.
1117 40	1	N.A.
1 1000000000000000000000000000000000000	12	Frequently ()
	3	Occasionally.
	4	s Never
		Never .
1.00		San Maria Property and a second second
88.	B. B. Cont	as the child ever been teased for being a "sissy
La Carre	. 0	N.Ř.
4. 4. 4.	1	N.A.
	2	Frequently ()
	المراج والمراج	
V. 188	See Louis Co.	. Occasionally
4.	4	Never
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1.4		
14. 44 / 4.		
		TO A DOWN THE WITHOUT THE SAME OF
1.4	F. Anna Av	
10 11 3 3	(* (*) (*)	<i></i>
25 - 125	Q	

olumn	Row	Item '
89.		Does father or mother feel he has always been different from other children?
	0	N.K. N.A.D
8.2	2	Yes - with regard to general behaviour
1	3	Yes - with regard to gender behaviour
1.00	4.	Yes - with regard to gender and general behaviour
1.30	51	Not different
	SKIP!	
90		Do you think he will be as manly as his father?
	i	N.A.
374	2	More so
		Yes
. Jilly	4	Less so
	.5	Not manly
01	W. Fire	
71.	1000	At what age was he first ever noticed wearing feminine-wear articles?
, Post	. 0	N.K.
	p. 1.	Never occurred
	2	
	4	to the second of the second
	5	2004 :
	6	6
1. 17.	7	7
	8	2.
1	10	io.
. Carte	11	
W	.12	12
1.		
A		

Golumn Row	Item	72.
. 92.	Did he wear female art or both?	ticles publicly or privately
		X - 1
	N.K.	1 1 2
	Never occurred	. ()
. 2	Privately only	
3	Publicly only	- outside the home
4.	Both	
STATE OF THE STATE OF	uran Alfridak biliki	
93.	Before starting school	what feminine articles
	did he like to try kes	aring?
. 0	N.K.	
1	N.A.	**************************************
2	Handbag	
3	High-heeled sho	nes ()
	Make-up	
	Other - specify	
Section 1		
	Several of above	re - list
7	None	
1 /94.	. Before starting school	what feminine clothes
	did he like to try out	
0	N.K.	
1	N.A.	
	Dress	
3	Underwear	(1)
4	Nightwear	
5	Several of abov	ve - list
6	None	
the same of the sa		491,000

Column	Row	1tem	
95.		Occupational gender of father.	
	0	N.K.	
	1.	N.A	
	2	Masculine was	
· 1 ·	. 3	- Feminine (
	4	Neutral	
	5	No occupation	5
1		THE THE TOTAL MINE	- : .
96.	13.7.3	Occupational gender of mother.	
190	0	N.K.	1:50
43.14.15	1	N.A.	34.
	2	Masculine	
1.00	/3	Peminine (1
	4	Neutral	
4.5	. 5	No occupation	
		NO occupation	
	1.0		
97.		Which parent plays major role in discip	ine?
4 1	. 0	n∕k.	
	1	N.W.	
A control	2	Father	
	. 3	Mother ()	
	. 4	Share equally	1
1.		Neither	1.
			1.
98.	1	Does father avoid role in discipline?	70
	. 0	N.K.	
	1 1	N.A.	
1	2	Yes: -()	
	3.	No	2.4
	4	Doubtful	
- 7	1. 1. 1.		
			A

	1.			to the first	
Column	Row	Item		-	
99.		Which parent makes major decision	ns involvi	ing finances?	
	0	N.K.			Α.
	1	N.A.			
	2	Father	. () , ;	
	3	Mother	196	1 1	
	4	Share equally	4.50	S 10 Pr	
	- 1			te e e y	
100.	100	Which parent has final say	in mak	ing major o	hange
the state of	. 1	in life style of family?	100		
1.00	0	N.R.			7
4.1 7	1	N.A.	To the		, vi
275.45	2	Father	. ()	14 1
	3 1	Mother		•	20.00
	4	Share equally		7 *	-
40					
101.	100	Is mother satisfied with f	ather's	role in fa	milv?
	0 7	N.K.	delice 5		
5 1		N.A.		2 200	
		Strong dissatisfact	. ().	
e				and Karas	
		Mild dissatisfaction	n	1 1	·
	•	Satisfied	a m	1. 1	
			(%/ A)		
102.	C	Does mother express hostility to	ards men	ingeneral?	
	0	CN.K.	Out.	15 19	. 1
~	1	NA.			
4.17.	2	Marked hostility		()	2 1
a title	3.	Mild hostility	535		0.8
• 745	4 .	None		8 1 1	- 1
	Lugar No.		1.74	G	
· 45.	100	[64] [4] [4] [4] [6] [4]		1.0	
			100		
11 7	11 to 19			1 . Sec. 2	0.
-: 4 34					7
P. 17. V.	1.49.5		763		8.0
o there	1 12 2 15 1		17: "		See.

Column	, Row		Item
103.			there been serious disruptions in the filty of family life?
	0		N.K.
	1	is .	N.A.
	2	r, ar	Separation of parents ()
	3. 1	25	Frequent severe fights, not separated
a large	4	a	Prolonged separation due to father's occupation
41.	5	2.19	No serious disruptions
	6	1.2.7	Other - specify
100			
104.	7. T.	Does	father live at home?
of the	0	State.	N.K.
2 4 4 4 4	121		N-A
	,		Yes
	2		No.

	12	-	
105.	, was li	Does	father spend time in family activities?
100	0	Str.	N.K. /
or . 4	1	tell to	M
	. 2	V. S.	A great deal ()
	.3	4	Avorage
	4		Little or none
. 95.		1	
106.	2 1974	Does	father spend time in activities with the dren and is there any preference?
	. 0		N.K.
100		20 20	N.A. ()
16	,	SA.	Prefers activities with daughter(s)
1 11		Fig. 1	Prefers activities with son(s)
201			No preferences, but does spend time in
See 1			activities with children
	- 5		Does not partake in family activities involving the children
		1	

			T.			7		
Column	Row			Item				
107.			ner's do ith fami		n resp	onsible	for	lack of
	0		N.K.					
	1		N.A.					
	2	100	Yes			(.)	¥1
	3		No.	7				
1	4' {	1: "	Doubtfu	1	5	8 8		
108.			ether en			ine bel	aviou	r by
100	0		N.K.					100
	1:0		N.A.			100		
8	. 2	1 1	Yes			. (, y	7 15
100	3		No .	a 51				
100		100	4.1	- 10 25	. 2			
110.	K Y	Does fo	ther di	"only g	e fémi	nine be	havio	ur by
· .	c . 0	efa f	N.K.		-	2 4		
2.4	1		N.A		Sec.	!	W 6 1	
	2 .		Yes - s	specify.		()	
	. 3,		No				8	ES. (2)
100	4		Inconsi	istently			65	12
A. F. Sept.	a the sale	100	1.00		100			
111.	1.34	Does m	other di	Scourag	e fem	nine. b	havio	ur?
	. 0	21 883	N.K.	estine.		1 0		
	1		N.A	, to		1 1		
	2		Yes - s	specify		. ())
A	3 .	200	No ·			1		3
	4.	E	Inconsi	istently	-10.		1.	100
The Real Property lies	2.2	. 4 20 0	Zildonia.			: "		

Column	Row	. Item	
112.		Is there gross psychiatric disorder	in parents?
	0	N.K.	
	1	N.A.	
	2	* * No * (-)
	.3	In mother - specify	
	4	In father - specify	edu i
	5	In both - specify	
	20000000000	The both a spectry	
113:	~	is there gross psychiatric disorder	
113.	, and the	N.K.	in storings:
100	0		结合性的
	1	N.A. ()
Waller of	.2	Yes, in one sibling - specif	11 33 3
	3	Yes, in more than one sibling	g - specify
max Th	. 4 .	Ую .	
-	1 1 1	. 7 . 2	1, 1
114.	Tall III	What is chief psychiatric diagnosis	in father?
50 .	0 :	N.K.	10
The second	1 3	No psychiatric disorder	
	2	Organic psychosyndrome - spe-	of furnathalası
9.5	0 . 	Schizophrenia	in particular,
		The state of the s	
	1.	Affective psychosis (
		Alcoholism	1.
	6	Personality disorder - speci	The second second
3 15	7	Abnormal psychgenic reaction	Ten a
. 10	. 8	Other - specify	

r							_1_	
Column	Row	•		Item	5			٠,
115.		What	is chief	psychiati	ric diag	nosis i	n mother?	
	0 -3	- E	N.K.			į.		
0.00	1		No psy	chiatric o	disorder	t		
	. 2	-	Organi	c psychos	yndrome,	specif	patholo	gy
	3.		Schize	phrenia				
. (4		Affect	ive psycho	osis	()	. 1
	5		Alcoho	lism			1.5	
	6	8 8 8 E	Person	ality disc	order -	specify	180	1. 1
	7.			al psychol				
1.21.51	. 8	dil.		specify		100	3.30	1 15
1.00	Tally		200	1-1-1			7.	1
116.		Are t	here kno	m cases	of sevua	1 ahnorr	nalities	in
100	25 2 2 22		ts or si		June		, ,	- "
	. 0		N.K.				× 5 "	
* U.S.	1	•	N.A.		10 K 11 1			- 0
	. 2	T	Hómose	xuality.		(5 - 1	
1	. 3		Cross	dressing v	with or	without	homosexu	alit
	4	a.	Other	- specify		3000 T	1.17.	
	. 5	. The second	None		no.	2.5		1
- F 25 g	100	. 9		-1	9. :		4.	
117.		Does	either b	arent have	e strone	feeling	ahont.	1.0
10.5	under	homos	exuality	when the				
5. 1. 2	0 .	50° 4 :	N.K.	- 1		April 1	400	
	1 .		N.A.			**	a are a	
1	. 2		Strong	feelings	against	1.11	1. 1	-
	. 3	100	Indiff		. 1	. (5	4.
Ter . may	4	g 10°	Strong	feelings	in favo	ur (8 S.	
A STATE	. 5	7		- specify				
	6			heard of	files of	To a	*	
7 T. B.,	127		. 1			1,0 " 1		

lumn Row	Item
18.	Marital status of all paternal uncles a
	aunts over 30 years old.
- 0	N.W.
1.	N.A.
2	0 -, 24% % married
3.	25 - 49%
*	50 - 74%
	75 - 100%
7	Control of the second of the s
6	Marital status of all maternal uncles a
6	Marital status of all maternal uncles a aunts over 30 years old.
y6. ************************************	
\	aunts over 30 years old.
\	aunts over 30 years old. N.K.
\	aunts over 30 years old. NyKi N.A.
\	Aunts over 30 years old. N.K. N.A. 0 - 241 %.married

G. CHILD'S QUESTIONNAIRE re: gender behaviour and tests

Column	Row	<u> </u>	Item
120.		Neinh	t of child
	0	in again	N.K.
	1	2 0 0	N.A.
100	2	1 1	Below 3rd percentile
1. Sec. 25	3		Between 3rd - 10th percentile
	A 18	4 1	Between 10th - 25th percentile
- 1.30 Pt	30	S. alle	Between 25th - 50th percentile
to The	6	17.16	Between 50th - 75th percentile
10000		F	
100	8		Between 75th - 90th percentile
1.67	9	1 14	Between 90th - 97th percentile
· 4 / C/3*	1 1		Above 97th percentile
		r endired.	
121.	er e	Weigh	t of child
100	. 0	100	N.K.
March 1	. 1	I way	N.A.
	2		Below 3rd percentile
the second	-::3		Between 3rd - 10th percentile
	4	Miles.	Between 10th - 25th percentile
15 1424	5		Between 25th - 50th percentile
1	6	ich in	Between 50th - 75th percentile
MA 1986	. 7	1.5	Between 75th - 90th percentile
1000	8		Between 90th - 97th percentile
	9	100	Above 97th percentile
400 40		4 13	The state of the s
122.	1000	Facia	l appearance of child
200 ml	0	11.1	N.K.
1	1"	Villa Co	N.A. 4
	2	Mark Co	Strikingly feminine ()
4.00	3	NEW W	Neutral
A Line	*	11.5	Strikingly masculine
2000年	1		

Column	Row ·	`. · Item		Ģ.
123.	200	Deportment of child (c.	arriage, bearing,	posture)
	0	N.K.		100
	1	N.A.		(Gar 1)
	· 2	Feminine - spec	ify ()
	^3 .°	Uncertain		
0.	. 4	Masculine	. *	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.4	
124.	1 1000	How the child is dress	ed.	
	0. 6	N.K.		1. 10. 1
	1 1	N.A.		1000
4.		Feminine - desc	dia.	May 1
		b Uncertain - des		
SERF.		the state of the s		
	4	Masculine - des	cribe	
2 2 2 2	7. 1.	or The State of Artist		
125.		Hair style of child -	child's opinion.	
6.4	0	N.K.	200	
	. 1	N.A.	The second	
	2	Feminine)
1	3	Uncertain	at the first	100
	. 4	Masculine	St. 18. 3	District
126.		Rair style of child -	interviewe le code	1 1
120.		N.K.	Interviewer a opi	•
Section 1				1
	1	N.A.:		100
100	2	feminine)
	3	Uncertain		
	4,	Masculine		
100	Sen W			
127		Length of hair - child		. · ·
4 1 10	. 0	N.K.		
1.00	1 1	N.A.	Seattle Town	
Property.	2	At nape of neck		5
		Below nape of n		1 1 1 1 1
	4	Shoulder length		11:00
		Below shoulder		A 100 1

olumn	Row	Item	*,
128		Child's gestures	
	0.	N.K.	
	1	N.A.	
	2	Feminine	()
	3	. Uncertain	
	4	Masculine .	
129.	6	Relative size of 2nd and 4th f	inger of dominant ha
	0	N.K.	
	- 1	. N.A.	1 6 1 1 1
100	2	2nd finger is longer th	an 4th
151. 19.	3	Equal length	
12.75	4	4th finger is longer th	an 2nd
· San Si			
30.		Child's handedness	
	. 0	N.K.	
1.	1 1	N.A.	
	2	- Use's right, hand mostly	for writing
	3	Uses both hands equally	for writing
, "Ma	4	Uses left hand mostly f	
M . W		and the second	
131.	100	Child's biceps skin fold thick	ness.
	desire I	(mean of three tries)	3 4 8
	0	. N.K.	
	. 4	N.A	
	2	Below average	():
	3	Average range	
	4	Above average range	- 1 J. W.
	tarretter to the	Table 1 April	100

FOR SHOOT PER

Column	Row '	Item .
132.	· ·	. Androgyny score (3biac - 1 biiliac)
	. 0	N.K.
	. 1	N.A.
	2 %	Below average . ()
	- 3	Average range
	-	Above average
1	. 4	Above average
(8)		
133	- W. T.	Is it luckier to be a girl or boy?
Applied for	0	N.K.
	S 1 1 1	N.A.
The state	2	Girl ()
	3	No preference
1 71.2	4	Boy
19.11	事業が必	
134		Have you ever wished you had been born a girl
134.	0	N.K.
		N.A.
10		The state of the s
	. 2	Yes ()
	. 3	Don'tiknow
1	4	No
10		
135.		Do you now wish you have been born a girl?
6.	0	N.K.
100	1 1	N.A.
. 12		Yes ()
7		Don't know
4-		No.

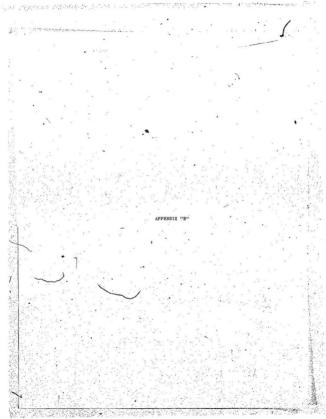
TOTAL STATE CONTRACTOR CONTRACTOR CONTRACTOR

Column	Row	Item
136.	0.0	Do you ever think you are really a girl?
	- 0	N.K.
	1	N.A.
	. 2	Yes ()
	3	Don't know
	4	No
10		
137		Do you like playing rough?
1 14 30	0	N.K.
John yes	1 1	N.A.
	2	No (.)
	3	Don't know
are that	- 4	Yes
14.4		
138.	50 100	What job would you like to do when you leave scho
		N.A.
- Tree -		Don't know
	2	Feminine type ()
a constant	2	Neutral type
B	3	specity:
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	4 1 1	Masculine type
	und ",	The state of the s
139.		When you finish school which of these jobs would you like?
1	0	N.K.
	1.	
100	2 -	Feminine ()
	3,	Neutral
	4	Masculine
140	See Page	Is that a man's job or woman's job?
	. 0	N.K.
V	1.	N.A.
	2	Feminine ()
10.72	3	Neutral
A		Masculine

Column	Row	A)	Item .		1
141.	- D	Who is	your best friend?	1 .	
	. 0		N.K.		
	1	5 6	N.A.		* *
	2		A girl	()
	. 3 .	X	Don't know		
	. 4	x 2	A boy		
	0 Jan 19				
142.	100	If you	had two tickets to the	movies, y	ou would
May or	3100	take	one person - who?	" Armen	W 12.
1 2 2 44	0	ayr. I gir	N.K.	red x	1 1 1
	1	15 87 Tu	N.A.	900	1
	2	177	Agirl		1000
ditty (V)	3	Property.	Don't know	()
17:00	4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A boy	10.4	
	5	4, 169	Mother	100	1
	6		Father		
	100		. T See al 1944		
143.			ind of chores do you pre	fer to do	at home?
10.0	0	A. S.	N.K.		12.5
1 11 1	1	100	N.A.	y hally	2011
100	. 2	200	Feminine	()	
	3	113	Neutral		
	4		Masculine	100	grafit i
	1,20	100		18 18 1	
144.	- 10 :	What a	re your favourite games?		. 100
5000	0		N.K.	er elle	1.
	1. 1.	F-174	N.A.	e legitaria	
. 7 (24)	. 2	-57 TF	Feminine	(3.)	
	3.	1.1	Neutral	14. 3.	1 11/1

Column	Row	Item		
145.		Are they (your favourite g boys' games?	games) girls'	or
	0	N.K.		
	1	N.A.		•
	2	Girls	. 6) .
	3	Bothe		
1,	4	Boys		
1			e i a Syd	2.9
146.	25.1	Who do you want to be like	e when you ero	w +n?
	0 :	N.K.		
W	44 7	N.A.	11.00	200
	12.1	Feminine ideal	1 1	
7. Se 37		Neutral or Don't.kr		
		Masculine ideal	100	
lt .		nasculine ideal		
147.		-		
147.		When you grow up do you wa	int to be mumn	y or daddy
	0 . 0			
	1.	N.A.		
Ď.	. 2	Mummy	. ()	
	. 3	Don't know		
**	4	Daddy	. (
-			. ~	
148	17 1.00	Draw a Person Test	1	
1.	0	N.K.		
	1	N.A.		4. 3
	2	Drew female	. ()	1
	- 3:	Sex uncertain		
	4 .	. Drew male	in arts	1. 10. 10
	2 3	Mr. Carlon	4 130	
Sec. 1 . 5	13-1-1		1. 18	
	W	AF TELE ARTISTS	11.00	1.

Column (-Row (Item	
149.	C	hoose clothes for "it".	
	0.	N.K.	
	1	N.A.	
	2	Chose feminine clothes	()
	3	Chose mixture	
	4 .	Chose masculine clothe	s ·
		La de la constante de la const	
150.	- :	hoose a picture Test.	
	0	N.K.	
	11	N.A.	A . 18 . A
The same	2	Feminine	()
	3	No choice	
1. 1.0	4	Matculine	Barren ""
4:-			7
151.		hild's Intelligence Test (WI	SC. F.S.)
	0	N.K.	
	1 .	N.A.	
	. 2	Below 70	
	. 3	70 - 79	2
	. 4	80 - 89	()
e	.5	90 - 99	4.1.4.3
	6:	100 - 109	
	7 - ":	110 - 119	
	8.	120 - 129	
1 300	. 9	130 - 139	
	10	140+	14 3 1 1 1 1 1 1
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1. 12 1. 15		S I della
	The state of the	the state of the s	



APPENDIX "B"

DEFINITIONS AND INSTRUCTIONS FOR CODES IN THE ITEM SHEET ("QUESTIONNAIRE"

Front Page

Information pertaining to the identity of the boy and his family intered here but must be kept confidential. A research number starting with Number 1 is assigned in order of inception, and this number is placed also on Page 1 of the item sheet so that the front page can be removed and storad.

A. Personalia

Item

- . Enter the number assigned to the agency which made the first contect with the clinic.
- 2,4,5, Age on latest birthday.

B. Socio-economic Data

- 18. Enter 2 if church attendance is at least once a week.
- Enter 5 if the class is for a small number of children of various with learning and/or emotional problems.
- 21,22 Enter highest grade passed for rows 4 6.

C. Household Date

- In the nuclear family there are no second degree relatives.
 Include adoptive children only if adopted within the first six months of birth.
 - Include children living in foster homes only if placed for the first time within three months of assessment date.
- 32,34, Include those who have not yet attained 18th birthday.

E. Diagnostic Data

38,39, As in International Classification of Diseases, 9th revision
40 (1977) using Axis I, III and V.

F. Parental Questionnaire

- 49. Constant proximity entails the mother keeping the infant in physical contact almost continuously and always within sight while doing housework.
- 11. Unusual proximity beyond the first year is present when the toddler or pre-school child continues to be in frequent physical contact with his mother, being carried or sitting in her lap.
 - The mother prefers not to go to places where she defined take him with her.
- 65,66 Excessive modesty is present when the boy is too bashful to dress or undress without complete privacy often causing problems with communal changing of clothes, showering, etc.
- 68. "Atypical" here refers to clothing which is masculine but against the general trend or fashion.
- 73. "Romantic" in the sense of being sentimental and susceptible.
- 77. Masculine sports and games ace ice hockey. Football, cops and cobbers, making model airplanes, vrestling, etc.
 Feminine sports and games are hopstecth, jump rope, dressing up, fing-around-the-crosy.
 Nourril games are basket ball, soft ball, base ball, card games,
- roller skating, boating, checkers, etc.

 78. Masculine toys are tains, tools, spacemen, cars, trucks, etc.

 Feminine toys are dolls, cooking and serving utensils, doll
- houses, toys for playing house, doctor, sawing, etc.

 83,84 Closest adult is the person whose company the child prefers
 above all and with whom he has a secure relationship.

- Masculine occupations are fishing, truck driving, engineering, construction work on roads and buildings, working on boats, motor mechanics, etc.
 - Feminine occupations are homemaking, child care, cooking, beauticism, physiotherspy, nursing, etc. Reutral occupations are clerical work, teaching, working in fish plans, chauffering, waiting at able, etc.
- 100. Life style includes location or relodation in the narrow and vider geographic area, choosing schools and churches, contacts with friends and relatives, ways used to supplement finily fiscome, etc.
- 105. Family activities involve both work such as child care, house-keeping, shildren's school progress, etc., as well as playing sith children, hebbies with children, being involved in lessure activities of martial extiner and children, etc.
- 112. Psychiatric disorder assessed as gross if it has received treatment or is presently causing significant distress to the person and/or others in the vicinity.

4G. Child's Questionnaire

120,121 Percentile charts as used in the children's hospital.

122,123, Subjective impression of interviewer, 126,128

131,132 As in Taranger, J and Karlberg, P (1976).

138,139 As defined in parental questionnaire.

APPENDIX "C"

ANALYSIS OF RATINGS UTILIZED FOR WEIGHTING THE VARIABLES USED TO OBTAIN AN EFFEMINACY SCORE

Experiment

Given: there are three expert raters, K, J and M who are asked to rate.

Summary of results of Experiment

Variables than Drs. K. J. M race similarly = . 18
K. J race similarly = . 27
J. M. race similarly = . 28
K. M race similarly = . 28
K. J. M race dissimilarly = . 28

Assume: Majority rule, that is, if two experts agree on the rating given to the question, then it is the correct rating.

Given that the raters are independent and experts in their field, one can struct for the above assumption.

What we would like now is an estimate of the probability that each of the experts is right. A simple way of doing this is by using the relative fraquency concept and the assumption of majority rule.

 $b \; (Dr._i \; \text{is right}) \; = \; \frac{\#_{b} \text{of times i is an the majority}}{\#_{b} \text{of questions}}.$

From the results of the experiment,

Note that this is an independent probability estimation of the experts?

correctness in general, i.e., on the average this is the number of times
the expert is right in his rating.

Now we have the problem of weighting each question with reference to its. Amportance in measuring effeminacy.

Experiment

Drs. 1, 2 and 3 are given a question and asked to rate the answer for importance in measuring effectnacy. The higher the rating, the higher the importance.

Typically, let $(\mathbf{x}_1, \mathbf{x}_2, \mathbf{x}_3)$ be the rating of an answer to a question regarding feminiarity, by the experts. We are interested in raying this answer on a general level and on an ordinal scale. One way to do it is to assign, a linear functional score by value of answer to question?

 $w(x_1, x_2, x_3) = \sum_{i=1}^n x_i \ P. (Dr. i is right in his valuation)$. Note, that the term $\{x_i \ P. (Dr. i is right in his valuation)\}$ is the expected value of the rating by Dr. i, assuming that when the expert is verong, no weight is given to his rating.

A STATE OF THE PROPERTY OF THE

Also note that since the valuation function v is ordinal, we can normalise the probabilities that the experts are right. Let

$$\begin{array}{lll} P_{c} & = \frac{F \; (Dr. \; i \; is \; right)}{DP \; (Dr. \; i \; is \; right)} \; , & \text{where } \; i = 1, \; 2, \; 3 \\ \\ & & & & & & & & & & & \\ P_{1} & = \frac{37}{32} & = \frac{37}{32} & = \frac{37}{114} = 0.32 \\ \\ & & & & & & & & & & \\ P_{2} & = & \frac{38}{314} = 0.33 \end{array}$$

It is interesting to note that eachof the experts gets an almost equal weighting, re-inforcing the fact that the experts were indeed independent and "equally expert".

Then given a ranking (x_1, x_2, x_3) to any answer to a variable measuring effeminacy, the value attached to the answer is:

$$v(x_1, x_2, x_3) = P_1x_1 + P_2x_2 + P_3x_3$$







