# IRISH FAMILIES UNDER STRESS

#### Vol, 2

An Epidemiological study of Psychological Adjustment, Reading Attainment and Intelligence of 2029 ten and eleven year old children in Dublin.

A Psychosocial study of 190 children and their mothers,

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and

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This project was supported by the Health Research Board and the Eastern Health Board.

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#### (iii) CONTENTS

ACKNOWLEDGEMENTS	
PREFACE	Mr. Michael Walsh(v)
COMMENTARY	Dr. J.V.O'Gorman
SUMMARY OF MAIN FINDINGS	
OUTLINE OF STUDY	,(x11)

#### SECTION ONE

Outline of Study, Research Overview and Methodology.....1

#### SECTION TWO

SECTION THREE

SECTION FOUR

#### SECTION FIVE

Recommendation	.s	 	 ····	• • • • • • • • • • •	
References					150
	F. (1)	 	 		

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(iv)

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Primary acknowledgement in this study must go to both teachers and parents of the children studied. The teachers' contribution to this study is greatly appreciated. They managed to find time to complete detailed questionnaires on each pupil and were most generous in allowing school time to be used for assessments. The parents permitted their children to be assessed and particular thanks goes to the mothers who so willingly took part in the study

#### PREFACE

(v)

#### Michael Walsh

Programme Manager, Special Hospital Care Programme, Eastern Health Board

The Eastern Health Board has supported this research project, and the Board and its Management are very appreciative of the invaluable data produced in this work. On a personal basis I want to thank Drs. Jeffers and Fitzgerald for their initiative in this area, and hope that a follow-up study can be undertaken in the coming years.

This study of 2029 children in the Eastern Health Board gives us very important information on the psychological adjustment, reading attainment and intelligence.

The second part of the study, which examines maternal mental illness and formal child psychiatric illness, gives us even more important information, which increases our understanding of family and children.

Epidemiological research is a very important feature of service planning particularly in a period of restricted resources. In the area of Child Psychiatry continuous progress is being made, particularly in recent years with the total move of resources to the community and the extension of services to Kildare and Wicklow. A major feature of the Child Psychiatric Service is the involvement of the family as a unit.

One point emerging from this study is the great importance of social support from families; the extended family; the community in general, including professional and voluntary agencies, all of whom have an important role to play in supporting socially isolated families who are -most at risk.

30/4/91

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#### COMMENTARY

#### Dr. J.V. O.'Gorman, Chief Executive, Health Research Board.

It is my pleasure to introduce Volume 2 of "Irish Families Under Stress" which describes the epidemiology of psychiatric problems in Irish children and their families. The work reported here was funded by the Health Research Board and is a further contribution by Dr. Michael Fitzgerald to an extensive array of epidemiological research in child psychiatry which he has undertaken personally and has stimulated younger colleagues to carry out. Dr. Fitzgerald is, unusually for a psychiatrist - child or adult - qualified in both psycho-analysis and in epidemiology. The present work reflects this background and is a most valuable contribution to our knowledge of the extent and character of psychiatric disorder in Irish school children and its associated familial psychopathology:

Such work is not merely of academic interest but has hard applicability to the planning and delivery of psychiatric services to a target population. Such endeavour is all the more valuable because of the dearth of scientific knowledge on the topic in Ireland. There have been several important studies in English speaking countries and these have been helpful in putting together the outline of service delivery programmes for child psychiatry in Ireland. However the distinctive cultural characteristics of our families make it imperative that we study our own problems for ourselves so that we can more efficiently plan for our own child psychiatric services.

Irish child psychiatric services are still in their infancy and there are many parts of this country which are not in receipt of locally based services. With the background information from studies such as this we are in a position rationally to plan and deliver services and avoid making the mistakes that the absence of such data would inevitably impose on us We must therefore be thankful, not alone for Dr. Jeffers and Dr. Fitzgerald's work itself, but also for the stimulus which such endeavours inspire in the trainnee child psychiatrist and others associated with the speciality, to undertake further research in the future.

23/4/91

### SUNRARY OF STUDY AND MAIN FINDINGS.

SECTION ONE.

1.0 This study looks at the psychological adjustment in 10 and 11 year

old children.

2.0 Reading Attainment and I.Q. are assessed.

3.0 Social environment, mothers' mental health and their social adjustment are assessed.

4.0 The study and results are reported in four sections: Section Two describes screening procedures and results: Section Three looks at the prevalence of child psychiatric disorder: Section Four describes the social environment of disordered children and Section Five is a study of Depression in Mothers.

# SUNNARY SECTION TWO

- 2.0 2029 fourth class Primary School children were screened for Behavioural deviance, IQ, and Reading Attainment.
- 2.1 16.6% of 2029 children in an area of Dublin were found to be behaviourly deviant.
- 2.2 20% of boys and 11% of girls were deviant.
- 2.3 70% of those deviant were Conduct Disordered.
- 2.4 23.4% of those deviant were Emotionally Disordered.
- 2.5 6.6% of those deviant had a mixed Conduct and Emotional Disorder.
- 2.6 Children from 'socially disadvantaged' homes were more than twice as likely to be deviant thas those from 'privileged' homes.
- 2.7 25% of children were reading 18 months behind their chronological age.
- 2.8 A high level of Intelligence Capacity was found with 15.5% of children performing above the 95th percentile. A possible explanation for this is discussed.
- 2.9 A significant association was found between behavioural deviance, IQ and Reading age.
- 2.10 Those children attending schools that catered for predominantly socially deprived children tended to score lower on reading and IQ tests.

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## SUMMARY SECTION THREE

3.0	190 children are examined intensively for psychological disorder.
3.1	104 children were'non-deviant' on B2 Questionnaire and 86 were
	'deviant' on B2. (Section 2)
3.2	62 of these children were found to have a definite pychiatric
	disorder. This showed the B2 has a 61.6% true positive rate and
	an 18.3% false negative rate.
3.3	Using the above figures the prevalence of Psychiatric Disorder
	for the total population is estimated to be 25.4%.
3.4	11.6% of the 190 children were enuretic, wetting the bed at least
	DICE a week.
3.5	10.0% of the 190 children had a conduct disorder.
3.6	4.7% of the 190 children had an emotional disorder.
3.7	4.2% of the 190 children had a mixed conduct and emotional
	disorder
3.8	2.1% of the 190 children were suffering from the Hyperkinetic
	Syndrome.

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#### SURMARY SECTION FOUR

4.0 The Social and Family Circumstances of 190 Children are examined.

4.1 62 of the Children have a Psychiatric Disorder.

4.2 Child Psychiatric Disorder is associated with mothers social isolation.

4.3 Child Psychiatric Disorder is associated with Parental Disharmony.

4.4 Children whose mothers are depressed are more likely to be

disordered.

4.5 Children from large families were twice as likely to be disordered as those from smaller families.

4.6 Children scoring poorly on tests of IQ and Reading Attainment are more vulnerable to environmental effects.

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SUNRARY	SECTION FIVE
5.0	185 mothers are assessed for Psychiatric Disorder.
5.1	Their material circumstances and social and family environments
	are assessed.
5.2	33% of the mothers studied had a Psychiatric Disorder.
 5.3	30% of the mothers studied were depressed.
5.4	Depression was significantly associated with low income
5.5	Depression was significantly associated with social isolation.
5.6	Depression was significantly associated with Marital Discord.
5.7	Depression was significantly associated with difficulties with
	children and dissatisfaction as a parent.
5,8	Women with low income tended to be more likely to be socially isolated than other women.

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#### (xii) OUTLINE OF STUDY:

This study looks at reading ability, intelligence quotient and the prevalence and distribution of psychiatric disorder of ten and eleven year old children in an area of Dublin and how they are related. It also examines the social and family circumstances of these children.

The study was completed in two stages. Initially the reading ability and IQ of all fourth class pupils in an area of Dublin were assessed. Teachers of these children completed a screening questionnaire to assess psychological adjustment. This study examines variations between

#### different schools.

Stage two examines psychological problems in the population. Following results of the screening, a number of children were assessed in detail by interviewing their mothers. Family and social circumstances of children with a psychiatric diagnosis are compared with those without a diagnosis.

This report is divided into five sections.

Section one discusses previous relevent studies and the background to the present study. It describes the population studied and methodology used.

Section two looks at IQ, reading age and psychological adjustment and how they are related.

Section three looks at the prevalence of psychiatric disorder in the population studied.

Section four looks at family and social circumstances and their associations with psychiatric disorder in children.

Section five looks at psychiatric illness in 190 mothers and social and family circumstances associated with depression in women.

# SECTION ONE

# Overview of Study

#### RESEARCH OVERVIEW.

The aim of this study is to define the prevalence of child psychological problems in a given population in Ireland and to assess the significance of educational attainment, IQ and family circumstances in relation to these problems.

It is accepted that child behavioural deviance and psychiatric impairment in children is not uncommon. (Rutter et al. 1970). Studies in Ireland and elsewhere suggest that prevalence of psychological problems is higher in urban than in rural populations, in lower socioeconomic groups, in deprived environments and where there is a high prevalence of parental problems. (Gath et al 1972, McNestry et al 1988). Many previous Irish studies have suffered from having small samples or a high proportion of the chosen population refusing to cooperate.

Over the past two decades a number of epidemiological studies of maladjustment in schoolchildren have been carried out in England, America and Europe. These have reported rates of maladjustment ranging from 6% to 30%. In Ireland a prevalence of 17.3% was found in a group of Dublin schoolchildren. Boys were more likely than girls to be conduct disordered. (McCarthy and O'Boyle 1986). Lynch et al 1987 found a prevalence of 18.6%. They used a teacher screening test which showed a behavioural deviance of 35.5%, a parental interview which showed a

study was 43, all boys from socially disadvantaged areas. Murphy et al 1989, in a study of 80–10 year old boys in a Dublin primary school found that 40% scored as on the Rutter B2 scale. Barton and Fitzgerald 1986 compared the prevalence of deviance in girls from privileged backgrounds with those from disadvantaged backgrounds. Using Rutter B2 scale they found 32% of the sample from the disadvantaged background showed evidence of behavioural deviance, while the rate in the privileged group was 5%. O'Connnor et al(1988) in a large study in Limerick found 11% of primary school children to exhibit psychological deviance and, correcting for false negative results, they estimated that the true prevalence of maladjustment was 14%

This present study concentrates on 10 and 11 year old children. Along with screening for psychological deviance, a selected sample of children are studied in detail, providing a means of estimating true prevalence within the population studied.

Intellectual ability is determined by many factors. Rutter and Madge (1976) have shown that there are substantial connections between parental social class and IQ. While genetic influences are important it is also accepted that the range of experiences available to the child is important. Rutter et al (1975) found a higher rate of psychological deviance among children with low IQ. O'Connor et al (1988) have found a marked increase in intellectual functioning in Irish children since 1972 with 17% of children considered intellectually superior. They also found that 2% of children in normal schools are functioning in the mentally handicapped range. Porteus (1988) studying children in Cork found that 4% of children in normal schools were intellectually impaired. This study uses the same screening procedure as that used in Limerick (O'Connor 1988) and looks at area differences in intellectual functioning.

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Of all the problems which concern teachers and parents of school aged children, learning difficulties are the most common. Rutter has repeatedly found an association with both conduct and emotional disorders in children with learning difficulties. Reading has been chosen in this study to indicate learning difficulties. Rutter (1975) found 19% of Inner London children to be reading below average. The Britsh National Child Developement Study (1972) found 48% of children of Social Class 5 were poor readers compared with 8% of those in Social Class 1. Swan (1978) found an association in Irish children between reading ability and social circumstances, with children who were socially deprived more likely to have poor reading ability. O'Connor et al (1988) found 28% of Limerick schoolchildren were reading below average. They rated 42% of children in schools designated as 'Disadvantaged' by the Department of Education as being very poor readers. In assessing reading ability Rutter has stressed the importance of assessing both general reading retardation and specific reading retardation. 9.9% of Rutters Inner London group (1975) had specific reading retardation, with 3.3% of children on th Isle of Wight with specific reading retardation, showing the variation in different areas. 5% of Limerick children (O'Connor et al 1988) were reported to have specific reading retardation.

This study assesses reading ability and the associations between reading, IQ, psychological adjustment and area differences.

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#### METHOD

Fourth-class pupils were chosen for this study because the reliability and validity of psychiatric and psychological measures have already been established for 10 and 11 year old children, and because it has been found that this is an appropriate age for studying child psychiatric disorders. (Rutter, Tizard and Whitmore, 1970). The area chosen for study was in Dublin. The area studied consists of a number of private housing estates and local authority estates of houses and low rise flats. Fourth-class pupils in schools within the area were assessed. Schools for mentally handicapped were excluded from the study.

The strategy of investigation was based on earlier surveys carried out in the U.K. (Rutter, Tizard and Whitmore 1970, Rutter, Cox et al 1975). A two stage procedure was used to identify children with psychiatric disorder.

Firstly, the total population was studied in the summer term of fourth class by means of screening procedures. Children were screened for Psychological disorder, Reading Ability and Intelligence Quotient. From this population one in three of those whose results from the screening for Psychological disorder suggested that they might have a disorder were selected for further study. A similarly sized control group was also studied, these were chosen by selecting one in sixteen of the remaining children. In the second stage, during the summer holidays and the first term of fifth class, those selected were studied intensively.

#### Screening Procedures

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The screening instrument used to assess psychological deviance was Rutter's E2 teachers scale. This is a questionnaire which has 26 descriptions of behaviour against which the teacher is asked to indicate whether each description 'does not apply', 'applies somewhat' or 'definitely applies' to the child in question. These ratings are scored 0,1, and 2 respectively, and the scores are added together to produce a final score. The items cover the main common emotional and behavioural problems of children as they might be seen in a school setting. A cut off point of 9 or more was used as an operational definition of deviance on the questionnaire. (Rutter 1967)

Each child completed the Standard Ravens Progressive Matrices to assesss IQ level (Raven 1983). This is a non-verbal culture reduced test which is intended to provide an indication of the individual's intellectual capacity; of his/her abilities for observation, clear thinking and reasoning. The test can be administered in a group setting and is suitable for all ages. Extensive work has been carried out on the standardisation of the SPM, including a study of Irish children in 1972, (Raven 1983) in which standards of performance have been determined for an Irish population. The SPM has been shown to be a reliable test of intellectual capacity in terms of test retest reliability and in terms of the consistency with which different items of the test measure the same capacity. (Raven et al 1983). The test consists of 60 different problems divided into 5 sets of 12. Each problem consists of a pattern with a piece missing. The individuals task is to find the piece which completes the pattern from a set of given alternatives, each of which is the right shape to fit the blank space but only one is the right pattern. In each set the first problem is easy and the problems which follow become progressively more difficult. The child goes through the test from beginning to end, noting answers on a seperate answer sheet. The score is the total number of correct answers. It is possible to grade scores from previously determined Irish norms.

Reading was assessed using The MICRA-T Level 3 reading attainment screening test. This is a test which has been designed, constructed and standardised for use in Irish primary schools. (Wall and Burke 1988). Level 3 is designed for use in most classroom situations from the

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beginning of fourth class until the end of sixth class. The test consists of five CLOZE passages which encompass both narrative and expository material. Deletions from the text are made in a deliberately selective manner. The final passage is followed by a set of direct comprehension questions which is intended to probe the extent to which material from the different parts of the passage have been processed and integrated by the reader. The scoring system allows results to be expressed in terms of reading ages, standard scores and percentiles.

In addition the name, sex and date of birth was obtained on all children. A question on child's father's employment status and occupation was optional, at the request of teachers. Most declined to give this information.

Each B2 questionnaire was completed and scored by the childrens' teachers. The teachers administered the reading test after a researcher trained them. IQ assessment was carried out in a group setting by a researcher who was a primary school teacher given training in the administration of Ravens Progressive Matrices.

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#### Intensive individual examination.

Two groups of children were selected for individual study; (1) a control group chosen by taking every 16th child with a score of 8 or / less on the B2 screening test, and (2) one in three children with scores of 9 or more on the B2 test.

In each case the children were studied in the same way, the investigator always being unaware of the reason for selection, in order to avoid the possibility of bias due to prior expectation.

Each child's mother was interviewed for two to three hours at home by a psychiatrist who was an experienced and trained interviewer. A standardised approach was used (Graham and Rutter Module B 1983) to assess psychiatric disorder. A series of set questions covering a wide range of possible emotional and behavioural problems was asked in all cases. The focus of the interview was on the previous three months. For each item of possible clinical importance, information was sought systematically about the severity and frequency of the behaviour, when it began, exactly how it was manifested, what made it better or worse, the developmental course, in what situations it arose and under what conditions it did not appear. The exact nature of the probes was left to the interviewer but a comprehensive description was required and generalisations or unsubstantiated inferences were not sufficient.

A similar semi structured interview was used to assess social conditions and social supports.(Clare and Cairns 1978). This interview, which takes approximately 45 minutes to administer, covers housing, finance, social and letsure activities and relationships with significant individuals in the mothers life. In each area the interviewer assessed opportunity, management and satisfaction on a four point scale.

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Nothers were assessed for psychiatric illness using Goldberg's Clinical Interview. This is a semi structured interview schedule designed for use in community surveys and general practice. The schedule is divided into four sections. The first is unstructured and consists of sub-headings for brief recordings of the patient's past and present medical history. The second part is more detailed and systematically enquires about any psychiatric symptoms which the person may have experienced in the last month. The third part is unstructured and permits the interviewer to collect as much information on family history as is deemed necessary to make a clinical assessment. The fourth section permits the interviewer to record abnormalities observed during the interview on twelve five point scales. The ratings represent the interviewer's view of 'manifest abnormalities'. A diagnosis is made by combining findings an all sections. The strength of this schedule lies in its reliability; the overall reliability coefficient derived from the analysis of variance is +0.92. (Goldberg and Blackwell 1970).

Mothers also completed The Malaise Inventory. (Rutter 1970). This inventory consists of twenty four YES/NO questions on physical and emotional states. Five or more affirmative answers were taken as indicative of emotional disturbance. (Rutter 1970).

All interviews were completed by the same researcher, an experienced psychiatrist who was trained in the use of the interview schedules.

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Reliability was assessed by a) another psychiatrist attending a number of interviews and rating schedules independently, b) another psychiatrist rating schedules on the verbatim information obtained at a number of interviews, c) another psychiatrist deciding on the present or absence of diagnosis having access only to scores given on each item.

Results and Statistical Analysis.

The statistics used in this study have three basic aims; to describe the frequency of abnormalities in the population studied; to assess differences between different groups within the population; and to establish what factors are more commonly associated with abnormality;

Graphs and tables are used throughout the text and in the appendices to describe the population along various parameters.

Differences between groups within the population is assessed by measuring the association between two groups. By using the chi-squared test of significance it is possible to state if differences observed are due to chance or arise because of a significant difference between the two groups. Probabilities of there being a real difference are calculated; probabilities of 5% and less are accepted as significant. i.e. p < 0.05.

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Discriminant analysis is a method of discriminating groups from one another on the basis of a number of variables. Stepwise discriminant analysis is used in Section Four and Section Five when the effects of environment on children's and mothers' mental health is assessed. A more detailed discussion of this technique is given in these sections.

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#### SUMMARY: SECTION ONE.

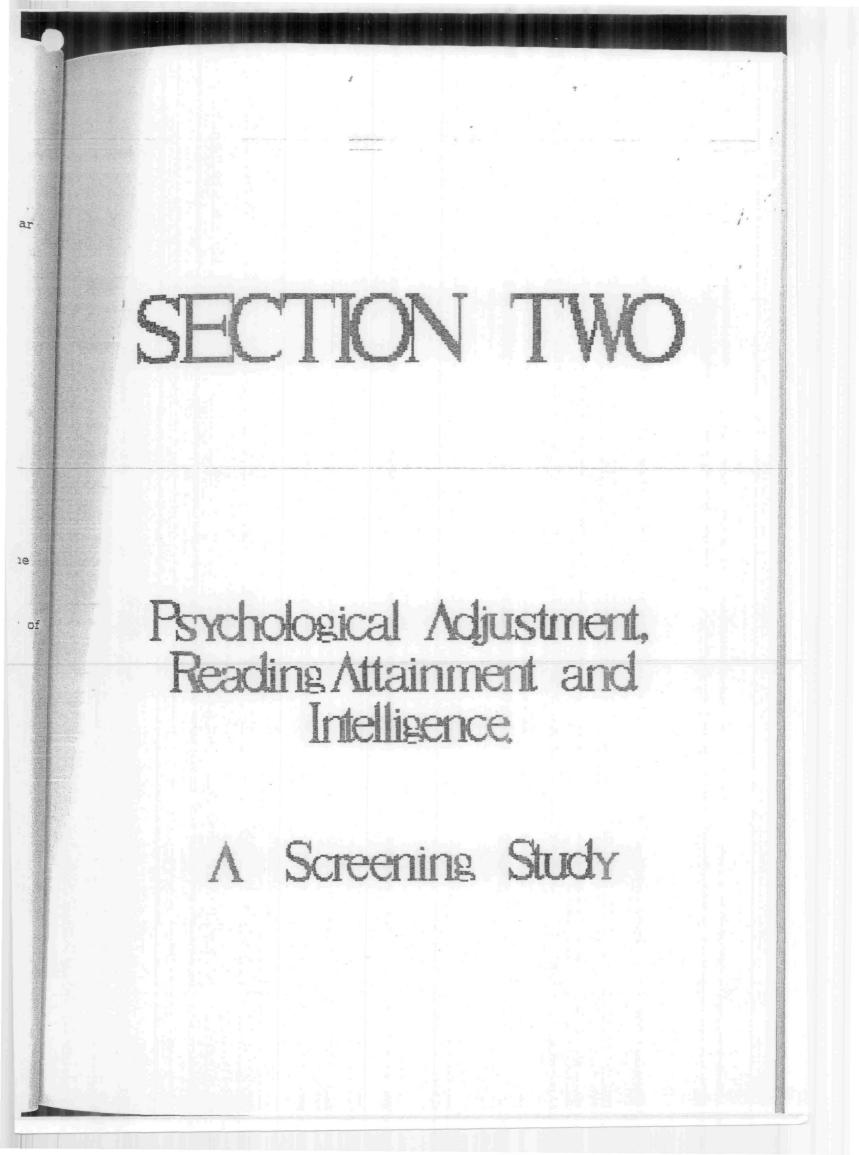
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1. This study looks at the psychological adjustment in 10 and 11 year old children.

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SECTION TVO

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#### A SCREENING STUDY OF

READING ABILITY . INTELLIGENCE AND PSYCHOLOGICAL ADJUSTMENT IN CHILDREN.

#### INTRODUCTION

This study looks at the IQ, reading ability and the prevalence of , psychological deviance in 10 year old children. The methods used to investigate are discussed initially. Each area is then dealt with individually. Finally the relationships between the areas are studied and the differences between various schools are discussed.

#### METHOD.

The primary schools were contacted early in 1989 and the nature of the study was explained to the principal of each school. The parents were informed in writing about the study. Children were assessed in the summer term of fourth class. Teachers of the pupils were asked to complete a *B2 Questionnaire* on each pupil. This questionnaire focuses on 26 items of behaviour. The items cover the main common emotional and behavioural problems of children as they might be seen in a school setting. Each item is given a score of 0 if it 'dosen't apply', 1 if it 'applies somewhat' and 2 if it 'certainly applies' and the scores are added together to produce a final score. Thus each student is rated as somewhere between 0 - 52. A cut off point of 9 or more was used as an operational definition of deviance on the questionnaire. (Rutter 1967).

A researcher visited each school and carried out reading and IQ assessments. Reading was assessed using the *MICRA-T Reading Attainment Test, Level 3.* This is a test which has been designed, constructed and standardised for use in Irish primary schools. (Burke and Wall 1988)

Level 3 is designed for use in most classroom situations from the beginning of fourth class until the end of Sixth class. The test consists of five CLOZE passages which encompass both narrative and expository material. The deletions from the test have been made in a deliberately selective manner rather than in a random fashion. The final passage is followed by a set of direct comprehension questions which is intended to probe the extent to which material from different parts of the passage have been processed and integrated by the reader. A flexible scoring system allows results to be expressed in terms of reading ages, standard scores and percentiles.

IQ was assessed using Ravens Standard Progressive Matrices (SPM). The SPM is a non-verbal test which is intended to provide an indication of the individual's intellectual capacity; of his/her abilities for observation, clear thinking and reasoning. The test is suitable for all ages and can be administered on a group basis. It is argued that test results are not affected by socio-economic background. (Raven 1983) Extensive work has been carried out on the standardisation of the SPM, including a study of Irish children in 1972. (Burt et al 1972) Standards of performance have been determined for an Irish population. The SPM has been shown to be a reliable test of intellectual capacity in terms of test retest reliability and in terms of the consistency with which different items of the test measure the same capacity. (Raven et al 1983). The test consists of 60 different problems divided into 5 sets of 12. Each problem consists of a pattern with a piece missing. The individual's task is to find the piece which completes the pattern from a set of given alternatives, each of which fits the blank space but only

one of which gives the correct pattern. In each set the first problem is as nearly as possible to being self evident. The problems which follow become progressively more difficult. The child goes through the test from beginning to end, working at his/her own pace, noting on an answer sheet for each problem the number of the piece which will complete the pattern. The score is the total number of patterns for which the completing piece has been correctly identified.

#### RESULTS

#### Psychological Adjustment

39 schools out of 40 schools approached took part in the survey. A total number of 2029 children were rated on B2 Questionnaire. This included 1094 boys and 935 girls. all children were in fourth class, ages ranged from 9 years and 3 months to 12 years and 11 months. 90% of children were aged between 9 years and 8 months and 11 years and two months.

The Department of Education categorizes schools into various types depending on the perceived needs of the majority of the children in the school. Schools with a large number of children from socially deprived backgrounds are categorized as 'Disadvantaged'. Those considered to have greater need are given a concession teacher and are classified as 'Disadvantaged with a concession teacher'. For the purposes of this study the 39 schools are divided into those which are 'Disadvantaged

with a concession teacher'; 'Disadvantaged'; 'Mixed' to indicate schools catering for children from socially disadvantaged and advantaged backgrounds, and 'Advantaged' to indicate schools where the majority of the pupils are from advantaged backgrounds.

567 children were in Disadvantaged schools with a concession teacher as defined by the Department of Education (Disadv + con); 344 were in Disadvantaged schools as defined by the Department of Education(Disadv); 481 were in schools catering for a mixture of children from deprived and privileged backgrounds(Mixed); and 637 were in schools catering for children from mainly privilege bacckgrounds. (Advant.) Table 2.1

Table 2.1

#### Number of Pupils in Different School Types.

School Type	Disadv + con	Disadv	Mixed	Advan
No. of Pupils	567	344	481	637

337(16.6%) children were found to have deviant scores on B2, with boys showing a significantly higher rate. Table 2.2. Fig. 2.1. 70% of those deviant were conduct disordered, 23.6% were emotionally disturbed and 6.6% had mixed conduct and emotional disorder. Boys were significantly more disturbed with 20.8% scoring in the deviant range, compared with 11.7% of girls.

When individual items of the B2 were studied teachers reported 171(8.5%) as being restless, with 158 being fidgety; only 5.4% were reported as having poor concentration. Table 2.3.

On antisocial items, truanting was rare with only 0.4% definitely truanting. 7.4% were thought to bully somewhat with only 2.9% definitely bullying. 54 (3.6%) children were known to steal and 1.1% stole frequently.

On relationship items, 41 children or 2.0% were not liked by other children. 11.8% were somewhat irritable with 6% defiitaly irritable.3.3% of children were described as being definitely solitary.

54(2.7%) of children tended to worry excessively and 40(2.0%) children were regarded as being definitly miserable with 10.3% being miserable some of the time. School refusal was very rare with this label applying somewhat to 1.5% and definitely to 0.4%

258(12.9%) were somewhat resentful on being corrected and 5.3% were definitely resentful. These items are shown on Table 2.3.

# Table 2.2

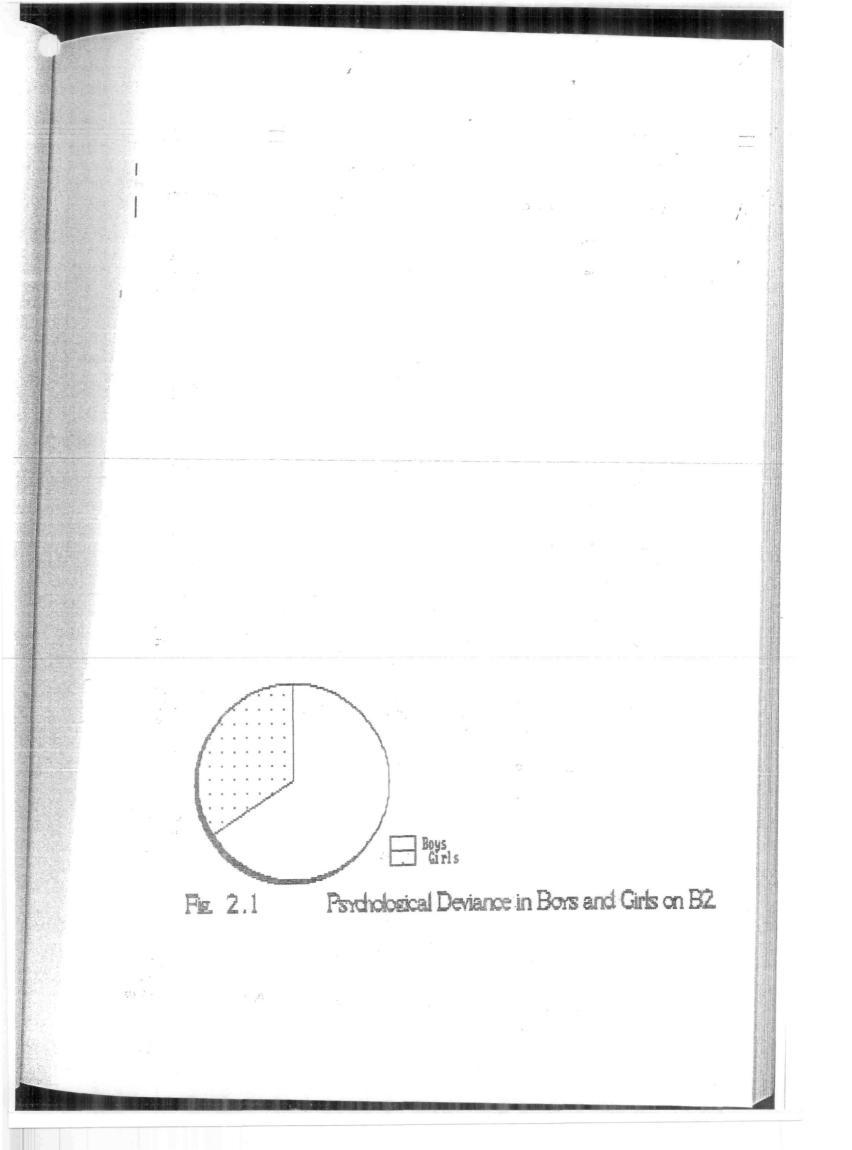
T.	Psychological	Deviance in	n Children	
B2 Result	Value	Frequency	Valid%	1997 - 200 - 20 - 20 - 20
Not Deviant	1.00	1692	83.4%	
Deviant	2.00	337	16.6%	ć

Table 2.3

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PSYCHOLOGICAL		围	BOYS	ATD	GIRLS	USIEG	TEACHERS	B2	SCALE.
B2 Deviance	Males N = 1094					ales 935	(	Chi-	Square
Mot deviant	79.2%				88	. 3%			· .
Deviant	20.8%				11	.7%	3	0.0	**** 3562
**** = p<0.0001 D.F.=1									

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B2 ITEMS FREQUENCY.

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		TO TIERD FREQUERCI	·	
Behaviour	Score	No. of children	Percent /	
'Notor Items'				:
Restlessness	0		,	
restlessless	0	1461	72.9%	
1	1 2	373	18.6%	
	4	171	8.5%	
Fidgety	0	1399	60. of	the line
- /	1	447	69.8%	- Andrewski
	2	158	22.3%	
		100	7.9%	Active Section
Twitches	0	1918	95.6%	diam's and a second
	1	75	3.7%	
	2	14	0.7%	No. of Concession, No. of Conces
Poor	0	1542		
Concentration	1		77.0%	Color Sector
	2	353	17.6%	
	2	108	5.4%	
'Antisocial It	ems			
Truanting	0	1944	04.04	
4	1	53	94.9%	
	2	9	2.6% 0.4%	
Destaut			U L TE AP	
Destructive	0	1826	91.2%	
	1	131	6.5%	
	2	46	2.3%	
Fights	0	1624	<b>Q1</b> 0#	記事で
0	1	282	81.9%	
	2	99	14.3%	
			4.8%	
Disobedient	0	1567	78.2%	
	1	314	15.7%	
	2	123	6.1%	
Téne				
Lies	0	1739	86.8%	
	1	198	9,9%	
	2	66	3.3%	
Steals	0	1950	00 00	
	0	31	97.3%	and the second second
	2	23	1.5%	and a second
-			$L \leftarrow \pm hp$	
Bullies	0	1794	89.7%	the second se
	1	148	7.4%	and a second sec
	2	57	2 04	
U = Does not ap	ply; 1	= Applies somewhat; 2 =	Definitely Applies.	An and a second se
				1

Carlot an and the Arth State

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	Table 2.3 (con	t)				
	Behaviour	Score	No. of children	Percent		
	Relationship	Items'				
	Not Liked	0	1779	88.7%		1.
A *		1	186	9.3%		
		2	41	2.0%		
	Irritable	0	1647	82.1%		7
	*** * *******	1	238	11.8%		
1		2	120	6.0%		
	Solitary	0	1714	85.5%		
		1	224	11.2%		
		2	67	3.3%		
	'Beurotic Item	is '				
			4 mm o	PP 04		
	Worried	0	1559	77.9%		
		1	389	19.4%	an annuar a' 1 fe fe Bally, a se dur a' sanna a sanna shar a' sanna).	an in the second in this international second s
		2	54	2.7%		
	Niserable	0	1760	87.7%		
		1	207	10.3%		
		2	40	2.0%		
	1 ··· · ·					
	Tears on	0	1966	98.1%		
	arrival at	1	30	1.5%		
	school (or	2	9	0.4%		
	sch, refusal)					
	Absent from	0	1768	88.2		
	school for	1	157	7.8%		
and and an and a second se	trivial reason	is 2	79	3.9%		
	Fearful	0	1663	83.0%		
		1	300	15.0%		
$\mathcal{J}_{ab} = \mathcal{J}_{ab}$		2	41	2.0%		
	E	0	1869	93.4%		
	Fussy		118	5.9%		
		1 2	15	0.7%		
		6	10	V 1 1 10		
	Apathetic	0	1647	82.2%		
	4	1	291	14.5%		
		2	66	3.3%		
	0 = Does not a	apply;	1 = Applies somewhat	at; 2 = Definite]	y Applies.	

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1 : P

	Table 2.3 (co Behaviour 'Other Items'		Ec. of	children	Percent
	Frequent	0	1874		93.5%
	aches/pains	1	102		
		2	28		1.4%
,	Thumbsucking	0	1930		96.2%
1		1	54		2.7%
		2	23		1.1%
	Mail Biting	0	1786		89.2%
	0	1	120		6.0%
		2	96		4.8%
	Resentful or	0	1638		81.8%
		1	258		12.9%
		2	106		5.3%
	Developmental	Items'			
	Stammer	0	1940		96.9%
		1	48		2.4%
		2	14		0.7%

O = Does not apply; 1 = Applies somewhat; 2 = Definitely Applies.

TABLE 2.4 Individual behaviour items of B2 in boys and girls.

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Q1 Restlessnness 0 66.6% 80.2% 1 22.3% 14.2% 2 11.1 5.5% 47.77326 **** Q2 Truanting 0 95.7% 98.4% 1 3.5% 1.6% 2 0.8% 0% 14.68758 *** Q3 Pidgety 0 62.6% 78.3% 1 26.9% 16.9% 2 10.5% 4.8% 60.84534 **** Q4 Destructive 0 88.3% 94.6% 1 7.9% 4.9% 2 3.8% 0.5% 32.14502 **** Q5 Fights 0 75.8% 87.2% 1 17.6% 9.7% 2 6.4% 3.2% 42.01419 **** Q6 Botliked 0 87.5% 90.1% 1 10.6% 7.7% 2 6.4% 3.2% 42.01419 **** Q6 Solitary 0 84.3% 86.9% 1 17.9% 21.2% 8.4% 2 1.1% 4.6% 27.99097 **** Q6 Solitary 0 84.3% 86.9% 1 15.2% 7.6% 4.0% 40.33359 **** ****,*** = p<0.001; ** = p<0.05; #S = Mot Significant.	Behaviour		Boys	Girls	Chi-Square
Restlessnness       0       66.6%       80.2%         1       22.3%       14.2%       47.77326         2       11.1       5.5%       47.77326         Q2       1       3.5%       1.6%         1       3.5%       1.6%         2       0.8%       0%       14.68758         Q3       Fidgety       0       62.6%       78.3%         Q4       2       10.5%       4.8%       60.84534         Q4       2       3.8%       0.5%       32.14502         Q4       0       88.3%       94.6%       1         Q5       1       17.8%       9.7%       32.14502         Q4       0       87.5%       90.1%       32.14502         Q5       1       17.8%       9.7%       32.14502         Q6       0       87.5%       90.1%       32.2%         Q6       0       87.5%       90.1%       4.96007         Q6       1       10.6%       7.7%       4.96007         Q6       2       1.1%       4.6%       27.99097         Q6       2       1.1%       4.6%       27.99097         Q6       2 </td <td>01</td> <td></td> <td></td> <td></td> <td></td>	01				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0	66 69	80 2%	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Kep (1855111855				
Truanting       0       95.7%       98.4%         1 $3.5\%$ $1.6\%$ 2 $0.8\%$ $0\%$ $14.68758$ 23 $0.8\%$ $0\%$ $14.68758$ Pidgety       0 $62.6\%$ $78.3\%$ 2 $10.5\%$ $4.8\%$ $60.84534$ 24 $2$ $10.5\%$ $4.8\%$ $60.84534$ 24 $2$ $3.8\%$ $94.6\%$ 2 $3.8\%$ $0.5\%$ $32.14502$ 24 $2$ $3.8\%$ $0.5\%$ $32.14502$ 25 $75.8\%$ $87.2\%$ $32.14502$ $4444$ 25 $6.4\%$ $3.2\%$ $42.01419$ $4444$ 26 $6.4\%$ $3.2\%$ $42.01419$ $4444$ 26 $6.4\%$ $3.2\%$ $42.01419$ $4444$ 27 $1.6\%$ $7.7\%$ $4.96007$ $15.2\%$ 27 $1.9\%$ $21.2\%$ $4.96007$ $15.2\%$ 27 $1.1\%$ $4.6\%$ $27.9097$ $40.33359$ 28 $2.2\%$					47.77326 ****
Image       0       95.7%       98.4%         1 $3.5\%$ $1.6\%$ 2 $0.8\%$ $0\%$ $14.68758$ 23 $0.8\%$ $0\%$ $14.68758$ Pidgety       0 $62.6\%$ $78.3\%$ 1 $26.9\%$ $16.9\%$ 2 $10.5\%$ $4.8\%$ $60.84534$ 2 $10.5\%$ $4.8\%$ $60.84534$ 2 $10.5\%$ $4.8\%$ $60.84534$ 2 $3.8\%$ $0.5\%$ $32.14502$ 2 $3.8\%$ $0.5\%$ $32.14502$ 2 $3.8\%$ $0.5\%$ $32.14502$ 2 $3.8\%$ $0.5\%$ $32.14502$ 2 $6.4\%$ $3.2\%$ $42.01419$ 2 $6.4\%$ $3.2\%$ $42.01419$ 2 $6.4\%$ $3.2\%$ $42.01419$ 2 $10.6\%$ $7.7\%$ $4.96007$ 2 $1.9\%$ $2.2\%$ $4.9\%$ 2 $1.1\%$ $4.6\%$ $27.99097$ 2 $1.1\%$ $86.9\%$	20				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0	05 74	08 47	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ruanting				
23       78.3%         Pidgety       0       62.6%       78.3%         2       10.5%       16.9%         2       10.5%       4.8%       60.84534 ****         24       0       68.3%       94.6%         1       7.9%       4.9%       2         2       3.8%       0.5%       32.14502 ****         25       75.8%       87.2%       9.7%         2       6.4%       3.2%       42.01419 ****         26       87.5%       90.1%       4.96007 MS         26       87.5%       90.1%       4.96007 MS         2       6.4%       3.2%       4.96007 MS         27       1.9%       2.2%       4.96007 MS         28       21.9%       21.2%       8         29       1.1%       4.6%       27.99097 *****         28       22.2%       4.7%       21.35210 *****         29       13.5%       8.4%       2       2.2%       4.0%       40.33359 *****					14 60750 x11
Pidgety       0       62.6%       78.3%         1       26.9%       16.9%         2       10.5%       4.8%       60.84534 ****         2       10.5%       4.8%       60.84534 ****         2       10.5%       4.8%       60.84534 ****         2       3.8%       94.6%       1         1       7.9%       4.9%       32.14502 ****         2       3.8%       0.5%       32.14502 ****         2       3.8%       0.5%       32.14502 ****         2       3.8%       0.5%       32.14502 ****         2       6.4%       9%       32.14502 *****         2       6.4%       9%       32.14502 *****         2       6.4%       9%       32.14502 *****         2       6.4%       9%       42.01419 *****         2       6.4%       3.2%       42.01419 *****         2       1.9%       2.2%       4.96007 MS         2       1.9%       2.2%       4.9%         2       1.1%       4.6%       27.99097 *****         2       2.1%       86.9%       3.4%         2       2.2%       4.7%       21.35210 *****		2	0.8%	0%	14.00100 ***
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	23				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Fidgety	0			
Q4       0       88.3%       94.6%         1       7.9%       4.9%         2       3.8%       0.5%       32.14502 ****         Q5       Fights       0       75.8%       87.2%         1       17.8%       9.7%       42.01419 ****         Q6       1       17.8%       9.7%       42.01419 ****         Q6       0       87.5%       90.1%       4.96007 #S         Q7       1       10.6%       7.7%       2.2%       4.96007 #S         Q7       0       81.0%       74.2%       2.7.99097 *****       8         Q8       Solitary       0       84.3%       86.9%       21.35210 *****         Q9       Irritable       0       77.1%       88		1	26.9%	16.9%	
Destructive       0       88.3%       94.6%         1       7.9%       4.9%         2       3.8%       0.5%       32.14502 ****         25       1       17.8%       9.7%         2       6.4%       3.2%       42.01419 ****         26       1       17.8%       9.7%         2       6.4%       3.2%       42.01419 ****         26       1       10.6%       7.7%         2       1.9%       2.2%       4.96007 MS         27       1.9%       2.2%       4.96007 MS         27       1.9%       2.12%       4.96007 MS         27       1.9%       2.12%       4.96007 MS         28       2       1.1%       4.6%       27.99097 *****         28       2       2.2%       4.7%       21.35210 *****         29       2       2.2%       4.7%       21.35210 *****         29       1       15.2%       7.9%       40.33359 *****         29       7.6%       4.0%       40.33359 *****		2	10.5%	4,8%	60.84534-****
Destructive 0 88.3% 94.6% 1 7.9% 4.9% 2 3.8% 0.5% 32.14502 #### Q5 Fights 0 75.8% 87.2% 1 17.8% 9.7% 2 6.4% 3.2% 42.01419 #### Q6 Motliked 0 87.5% 90.1% 1 10.6% 7.7% 2 1.9% 2.2% 4.96007 MS Q7 Worried 0 81.0% 74.2% 2 1.9% 21.2% 6 2 1.1% 4.6% 27.99097 #### Q8 Solitary 0 84.3% 86.9% 1 13.5% 8.4% 2 2.2% 4.7% 21.35210 #### Q9 Irritable 0 77.1% 88.0% 1 15.2% 7.9% 2 7.6% 4.0% 40.33359 ####	24				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0	88.3%	94.6%	
2       3.8%       0.5%       32.14502 *****         25       Fights       0       75.8%       87.2%         1       17.8%       9.7%       42.01419 *****         26       6.4%       3.2%       42.01419 *****         26       6.4%       3.2%       42.01419 *****         26       0       87.5%       90.1%       4.96007 MS         27       1       10.6%       7.7%       4.96007 MS         27       1.9%       21.2%       4.96007 MS         27       2       1.1%       4.6%       27.99097 *****         28       2       1.1%       4.6%       27.99097 *****         28       2       2.2%       4.7%       21.35210 *****         29       1.35%       8.4%       21.35210 *****         29       1.15.2%       7.9%       40.33359 *****					
Fights       0 $75.8\%$ $87.2\%$ $97.\%$ 1 $17.8\%$ $9.7\%$ $42.01419$ *****         2 $6.4\%$ $3.2\%$ $42.01419$ *****         26       1 $10.6\%$ $7.7\%$ $4.96007$ WS         2 $1.9\%$ $2.2\%$ $4.96007$ WS         2 $1.9\%$ $2.2\%$ $4.96007$ WS         27 $2$ $1.9\%$ $21.2\%$ $8$ 27 $2$ $1.1\%$ $4.6\%$ $27.99097$ *****         28 $2$ $1.1\%$ $4.6\%$ $27.99097$ *****         28 $22.2\%$ $4.7\%$ $21.35210$ *****         29 $113.5\%$ $8.4\%$ $21.35210$ *****         29 $115.2\%$ $7.9\%$ $21.35210$ *****         2 $7.6\%$ $4.0\%$ $40.33359$ *****					32,14502 ****
Pights       0 $75.8\%$ $87.2\%$ 1 $17.8\%$ $9.7\%$ 2 $6.4\%$ $3.2\%$ $42.01419$ *****         2 $6.4\%$ $3.2\%$ $42.01419$ *****         2 $6.4\%$ $3.2\%$ $42.01419$ *****         2 $6.4\%$ $90.1\%$ $42.01419$ *****         2 $1.0\%$ $90.1\%$ $42.01419$ *****         2 $1.0\%$ $7.7\%$ $4.96007$ WS         2 $1.9\%$ $2.2\%$ $4.96007$ WS         2 $1.9\%$ $21.2\%$ $8$ 2 $1.1\%$ $4.6\%$ $27.99097$ *****         28 $22.2\%$ $4.7\%$ $21.35210$ *****         28 $22.2\%$ $4.7\%$ $21.35210$ *****         29 $113.5\%$ $84.3\%$ $86.9\%$ 1 $15.2\%$ $7.9\%$ $40.33359$ *****	5				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0	75.8%	87.2%	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-0			9.7%	
Notliked       0       87.5%       90.1%         1       10.6%       7.7%       4.96007 MS         2       1.9%       2.2%       4.96007 MS         2       1.9%       2.2%       4.96007 MS         2       1.9%       21.2%       4.96007 MS         2       1.1%       21.2%       5         2       1.1%       4.6%       27.99097 *****         28       3       86.9%       2         20       1.1%       86.9%       21.35210 *****         29       1       15.2%       7.9%         2       7.6%       4.0%       40.33359 *****					42.01419 ****
Notliked       0       87.5%       90.1%         1       10.6%       7.7%       4.96007 MS         2       1.9%       2.2%       4.96007 MS         2       1.9%       21.2%       4.96007 MS         2       1.1%       21.2%       8         2       1.1%       4.6%       27.99097 ****         28       2       2.2%       86.9%         2       2.2%       4.7%       21.35210 *****         29       1       15.2%       7.9%         2       7.6%       4.0%       40.33359 ****					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0	87.5%	90,1%	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		1		7.7%	
Worried       0       81.0%       74.2%         1       17.9%       21.2%       \$         2       1.1%       4.6%       27.99097 ****         Q8				2.2%	4.96007 BS
Worried       0       81.0%       74.2%         1       17.9%       21.2%       \$         2       1.1%       4.6%       27.99097 ****         Q8	07				e
1       17.9%       21.2%       §         2       1.1%       4.6%       27.99097 ****         Q8		0	81.0%	74.2%	
2       1.1%       4.6%       27.99097 ****         Q8       Solitary       0       84.3%       86.9%         1       13.5%       8.4%       21.35210 ****         Q9       2       2.2%       4.7%       21.35210 ****         Q9       1       15.2%       7.9%       2         2       7.6%       4.0%       40.33359 ****				21.2%	603
Q8       84.3%       86.9%         Solitary       0       84.3%       86.9%         1       13.5%       8.4%         2       2.2%       4.7%       21.35210 ****         Q9		2			27.99097 ****
Solitary       0       84.3%       86.9%         1       13.5%       8.4%         2       2.2%       4.7%       21.35210 ****         Q9       Irritable       0       77.1%       88.0%         1       15.2%       7.9%         2       7.6%       4.0%       40.33359 ****	28	<u>e</u> .			
1       13.5%       8.4%         2       2.2%       4.7%       21.35210 ****         Q9       Irritable       0       77.1%       88.0%         1       15.2%       7.9%       2         2       7.6%       4.0%       40.33359 ****		0	84.3%	86,9%	
2       2.2%       4.7%       21.35210 ****         Q9       Irritable       0       77.1%       88.0%         1       15.2%       7.9%         2       7.6%       4.0%       40.33359 ****	J				
Irritable 0 77.1% 88.0% 1 15.2% 7.9% 2 7.6% 4.0% 40.33359 ****		2			21.35210 ****
Irritable 0 77.1% 88.0% 1 15.2% 7.9% 2 7.6% 4.0% 40.33359 ****	~				
1     15.2%     7.9%       2     7.6%     4.0%       40.33359 ****		0	77 14	88.0%	
2 7.6% 4.0% 40.33359 ****	ITTITADIO				
					40.33359 ****

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Behaviour	(cont.)	Boys		Girls	Chi-Square
Q10					1
liserable	0				1
	1	88.7%		86.6%	
	2	9.8%		11.0%	
	4	1.6%		2.5%	,
Q11				<i>د</i> ، ب <i>4</i> 9	3.08477 MS
Twitches	0				
101100	0	93.8%		97.6%	
	1	5.5%			
	2	0.6%		1.6%	
Q12				0.8%	21.08531 ****
Thumbsuckin	g O	96.0%			
	1	2.7%		96.32	
	2	1.3%		2.7%	
04.0		1.0%		1.0%	0.43505 HS
Q13		anno al manno con caracterio a more can e mano e mano anterese anteresente			0.43505 <u>BS</u>
Nail biting	0	87.4%		and a second	
-	1			91.3%	
	2	6.6%		5.2%	
	-	5.9%		3.5%	8 60005
Q14					8.62075 **
Absent from	0	00			
school for	1	87.5%		89.1%	
trivial reaso	1	8.4%		7.2%	
	11156	4,2%		3,7%	
Q15			- <sup>2</sup>	0,770	1.36751 BS
Disobedient	0				~
	0	72.0%		85.4%	
	1	18.2%		12.7%	
	2	9.8%		1.8%	
Q16				1. O h	71.85658 ****
Poor					
concentration	0	70.8%	с. (5)	81 04	
	1	21.7%		84.2%	
	2	7.5%		12.8%	
217				2.9%	52,90630 ****
earful					
cartul	0	84.1%		91 FTW	
	1	14.0		81.7%	
	2	1.8%		16.1%	
10				2.3%	2.19833 ms
18					
lssy	0	94.3%		00 00	
	1	5.3%		92.3%	
	2	0.5%		6.6%	
	· · ·	V. 270		1.1%	4.41067 BS
9					4.41067 BS
es	0	00 54			
	L	82.5%	g	2.0%	
	2	13.0%		6.2%	
**, *** = p<0. (		4.5% = p<0.01; ∗ :		1.8%	39.63093 ****
		=			ot Significant.

#### Table 2.4 (cont.)

Behaviour		Boys	Girls	Chi-Square
Q20			1	<i>i</i> .
Steals	0	96.3%	98.5%	
	1	1.9%	1:1%	
	2	1.8%	0.4%	10.14143 ** '
Q21				
Apathetic	0	77.4%	87.8%	
$\mathcal{A} = \mathcal{I} = \mathcal{I}$	1	18.6%	9.8%	
	2	4.1%	2.4%	37.33232 ****
Q22				
Freguent	0	94.5%	92.4%	
aches/pains	1	4.2%	6.2%	
actes, barns	2	1.4%	1.4%	4.27329 NS
NEEK LIINEEL INNEEK MARKELIINE NEEKSI IN NEEKSI IN TUURA KAN TUURA KAN TUURA KAN TUURA KAN TUURA KAN TUURA KAN			and the second	n parana na ana ang ang ang ang ang ang ang a
Q23				
Tears on	0	97.9%	98.3%	
arrival at	1	1.7%	1.3%	
school (or	2	0.5%	0.4%	0.44109 NS
sch. refusal)				
Q24				
Stammer	0	95.2%	98.9%	
	1	3.9%	0.7%	
·	2	0.9%	0.4%	24.04264 ***
		et r	1. 15	
Q25				
Resentful or	0	76.2%	88.5%	
aggressive wh	en1	16.3%	8.9%	
corrected	2	7.6%	2.6%	53.28496 \$***
Q26				
Bullies	0	84.8%	95.5%	
	1	10.8%	3.4%	
	2	4.4%	1,1%	62.46127 ****

\*\*\*\*,\*\*\* = p<0.001; \*\* = p<0.01; \* = p<0.05; MS = Mot Significant.

Table 2.4 shows comparisons of boys and girls on individual items on B2. Chi square test of significance show that boys scored significantly higher on all motor items and all antisocial items. The difference was significant at the 0.1% interval for all items except stealing where significance was at 1% level, p<0.01. Girls were significantly more solitary than boys and boys more irritable than girls. Teachers scored girls as worrying more than boys, p<0.01; and there was no significant difference on other neurotic items, although girls were reported as being miserable slightly more often than boys.

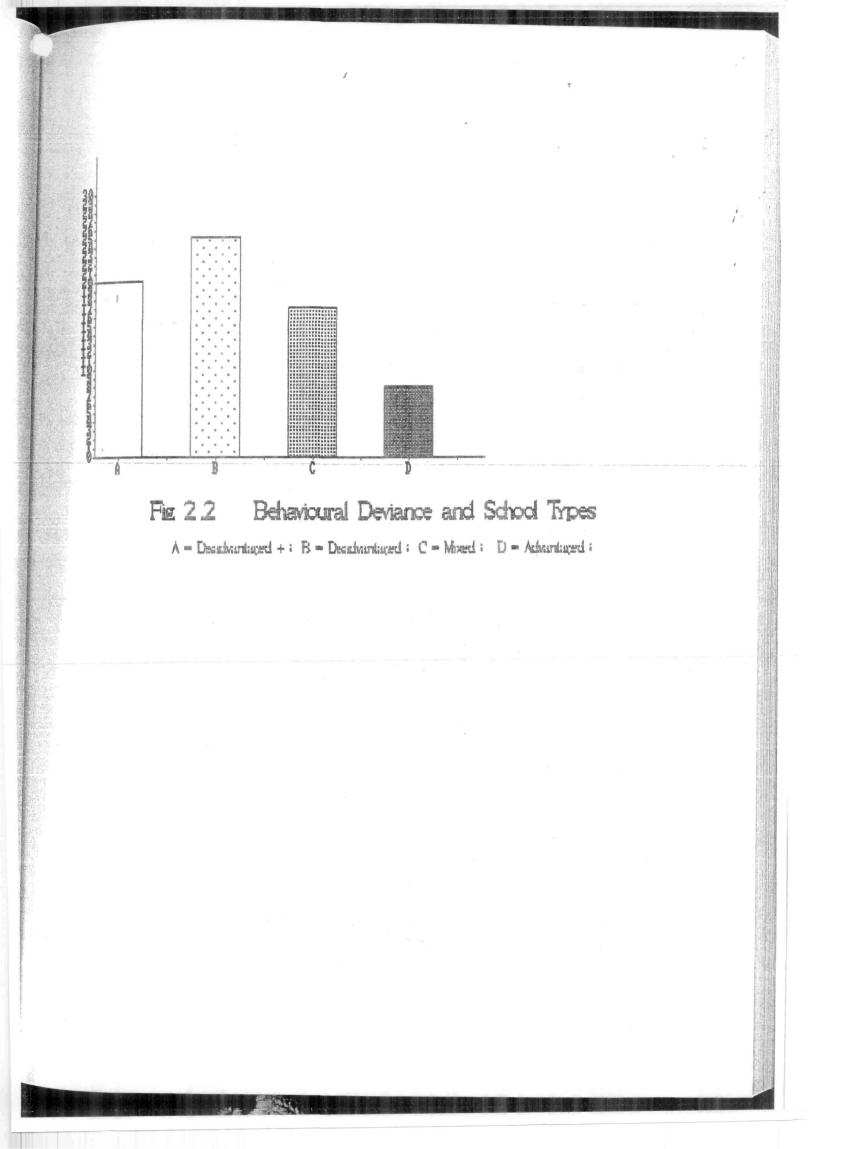
Marked disparities were found in behaviour scores in different school types. In all items except 'frequent aches and pains' children in 'disadvantaged' schools scored higher than those in 'advantaged ' schools. The significance was at the 1% level on all items. Those children in a 'disadvantaged' school were twice as likely to have deviant score as those in a 'advantaged' school. 22% of children in 'disadvantaged' schools compared to 8% in 'advantaged' schools were deviant.

	School Type A	В	С	D
Not Deviant	80.1%	74.4%	83.0%	91.5%
Deviant	19.1%	25.6%	17.0%	8.5%
the state of the s				

Table 2.5. BEHAVIOURAL DEVIANCE AND SCHOOL TYPE

p< 0.001

A = Disadavntaged + Concession Teacher; B = Disadvantaged; C = Mixed; D = Advantaged.



#### Intelligence.

1925 pupils completed the IQ test. As in the reading test those missing were children who were absent from school on several occassions. IQ results were generally higher than expected for Irish children, with 15.5% scoring above the 95th percentile for the age group. 1% or 20 children were of impaired intelligence. Table 2.7.

No significant difference between boys and girls was recorded. Table 2.8 There was a marked difference between IQ in different school types, with children in the 'disadvantaged' schools scoring lowest and those in 'advantaged' schools scoring highest, the difference was significant at level of p(0.001). Table 2.6.

	School Type	В	С	D
Superior	6.6%	8.4%	15.3%	28.6%
Above Average	26.3%	33.1%	38.8%	38.5%
Average	50.1%	47.5%	40.6%	29.4%
Below Average	14.4%	10.1%	4.7%	3.4%
Impaired	2.5%	0.9%	0.7%	0.2%
			р	< 0.001

#### Table 2.6 INTELLIGENCE AND SCHOOL TYPE

A Section of Land

A = Disadavntaged + Concession Teacher; B = Disadvantaged; C = Mixed; D = Advantaged.

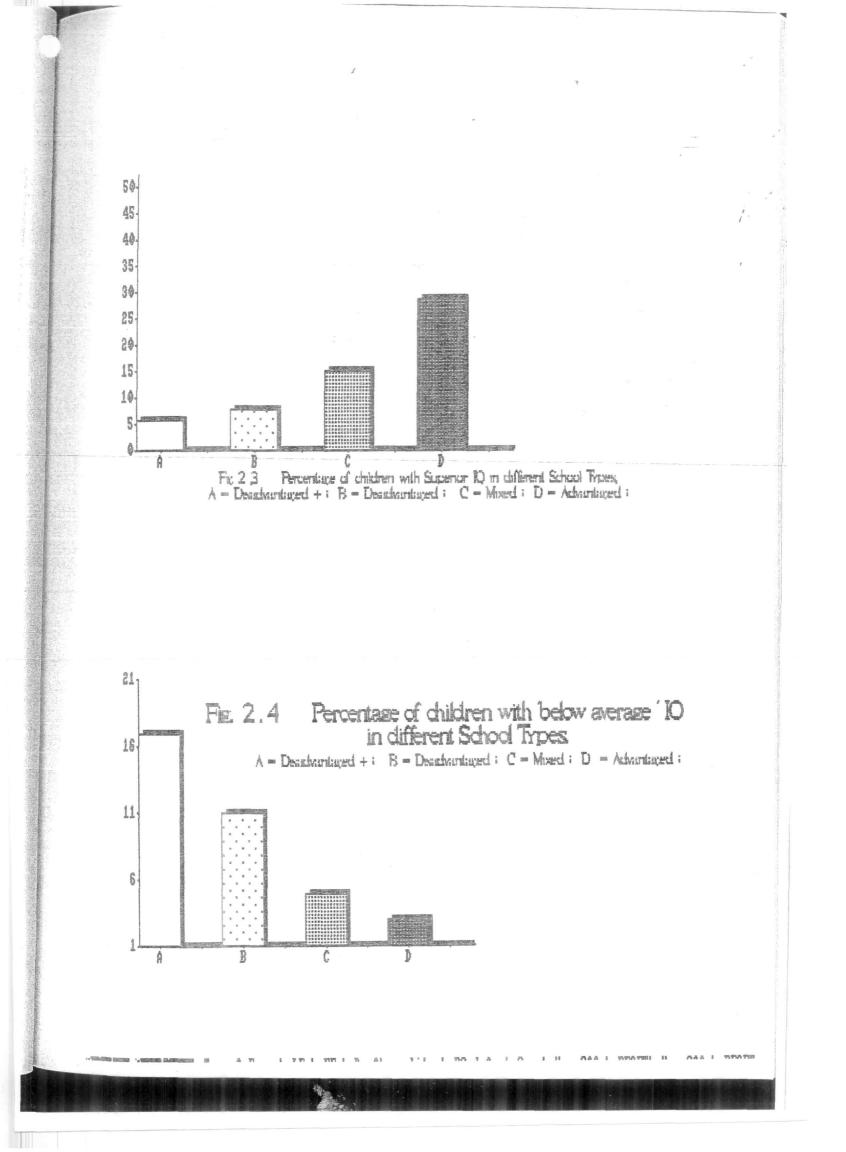


Table 2.7

Intelligence Quotient in Children.					
IQGrade	Value	Frequency	Valid%		
Superior	1	310	16.1		
Above average	2	662	34.4		
Average	3	783	40.7		
Below Average	Ą	150	7.8		
Impaired	5	20	1.0	and any strategy of the second second	
		÷			

Table 2.8

	IQ BOYS AND	GIRLS	USING	RAVENS	PROGRESSIVE	NATRICE	S.
	<u>Males</u> <u>m</u> = 1058			Femal E = {		Chi-Squ	are
IQ Grade							
Superior Above average	14.9% 33.9%			17.99 34.99			
Average Below average	41.9%			39.21 7.41			
Impaired	1.1%			0.9	Z.	3.51254	ΞS.
27 CH			4				

NS = Mot Significant; d.f. 4

Reading.

1871 completed the reading test; a number of pupils were absent from schools on the day of assessment, a further visit was made to each school to reduce the missing number, the final number missing was 158.

Reading ability for the entire group was within Irsh norms. Table 2.10. 8.2% were found to be reading 36 months and more behind chronological age. 15.6% were reading 24 months behind chronological age and 25% were reading 18 months behind chronological age. Table 2.11. Girls performed better than boys on reading-test, reaching significance where p< 0.01. Tables 2.13, 2.14. School types showed a marked difference in reading ability, with pupils in 'disadvantaged' schools scoring lowest. Table 2.18

	School Type			
	A	В	С	D
Superior	1.8%	1.9%	5.4%	10.3%
Above Average	12.7%	17.3%	26.2%	30.95%
Average	45.7%	51.2%	41.6%	46.8%
Below Average	28.4%	23.8%	20.0%	10.1%
Impaired	2.5%	0.9%	0.7%	0.2%
18mths+ ahead	18.1%	23.1%	36.1%	46.1%
Up to 17mths ab	lead 14.5%	16.9%	18.1%	21.9%
0 to 17 mths be		30.6%	20.7%	18.3%
18 mths behind	36.8%	29.4%	25.1%	13.7%
			ъŚ	0.001

Table 2.18. READING AND SCHOOL TYPE

A = Disadavntaged + Concession Teacher; B = Disadvantaged; C = Mixed; D = Advantaged.

#### Table 2.10

	Valu	Frequency	Percent	
leading	9 24 2 44	- rrequency	TELCETT	
Superior	1	105	5.5%	
bove average	2	435	22.8%	
verage	3	878	46.0%	
elow Average	Ą	372	19.5%	
mpaired	5	118	6.2%	
able 2.11		Reading Age min	us Chronolog	ical Age
6 mths and gr	eater	behind	8.2%	i.
4 mths and gr			15.6%	
	- F	behind	25.0%	
8 mths and gr	eaver			

Reading Age in Children.

Reading in months	Frequency	Valid%
18mths or more ahead	612	29.85
Up to 17mths ahead	341	18.2
0 to 17mths behind	451	24.1
18mths + behind	467	25.0

## Table 2.13

1

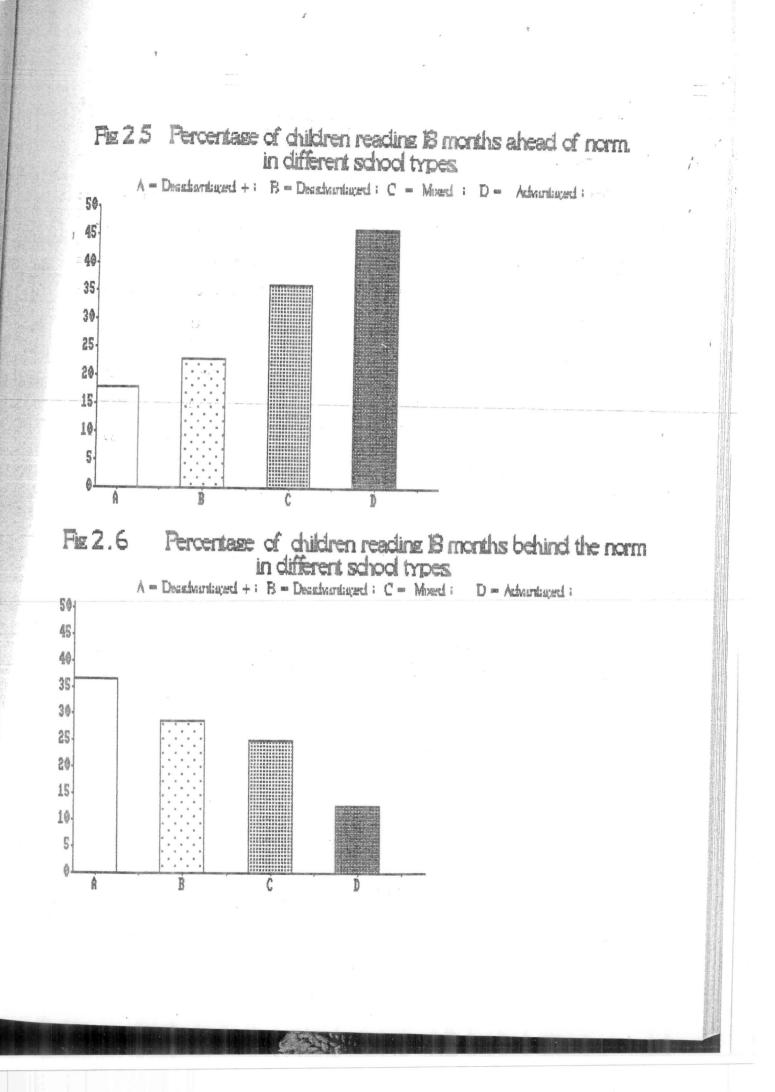
	READING IN BOYS	AND GIRLS USING MICRA	T READING TEST.
Reading Grade	Males N = 1010	Females M = 897	Chi-Square
Superior Above average Average Below average Imparied	5.2% 21.7% 45.1% 19.8% 8.1%	5.8% 24.0% 47.0% 19.2% 4.0%	** 14.75871
** = p<0.01 ;	* = p<0.05; d.f.	4	

1.

1

### Table 2.14

	DIEG IN BO	YS AND	GIRLS	USING NICRA	T READING TEST.
18mths ahead Up to 17 mths ahead 0 to 17 mths behind 18 mths behind	24.8%			34.2% 20.1% 23.3%	
		5 * m		22.4%	9.24469
** = p<0.01 ; * =	= p<0.05;	d.f 3			



#### Behaviour, Intelligence and Reading in Children.

1. 1. 1. 1.

There was a highly significant association between IQ and Behavioural Deviance. Table 2.15. Those found to be behaviourly deviant were less likely to be of superior intelligence, p<0.001. Those with behavioural deviance were also more likely to have reading difficulties Table 2.16. 50% of those rated 'deviant' were 18 mths or more behind in reading, whereas only 21% of those 'not deviant' were 18 mths behind.

IQ and Reading ability are significantly associated, Table 2.17. However a number of children have a marked discrepency between IQ and Reading ability. 4.6% of those of superior intelligence are reading at 18mths behind chronological age.

30

L. Call and

Table 2.15

	INTELLIGENCE OF CHILDRE	N AND PSYCHOLOG	GICAL ADJUSTMENT.
<u>it</u>	B2 Result		
2 X 1	Bot deviant	Deviant	Chi-Square
	필=1588	<b>B=314</b>	
IQ Grade	******		
Superior	18.2%	4.8%	
bove average	36.8%	22.9%	
lverage	38.4%	52.9%	
Below average	6.0%	16.6%	율충충충
Impaired	0.7%	2.9%	107.41253
),F. =4	No difference when c	optrolled for a	andan
	$\times 0.001; ** = p(0.01)$		

Table 2.16

READING AGE AND PSYCHOLOGICAL ADJUSTMENT

	B2 Result			
	Not deviant $E = 1594$	Deviant 257	Chi- Square	
Reading Age				
18 mths or more ahead	35.3%	15.2%		
Jp to 17 mths ahead	19.4%	12.5%		
) to 17 mths behind	24.3%	22.2%	<u>홍흥흥흥</u>	
18 mths behind	21.0%	50.2%	108.86174	

D.F. =3 No difference when controlled for gender.  $3333 + 333 = p < 0.001; \quad 33 = p < 0.01; \quad 33 = p < 0.05;$ 

Table 2.17

READING AGE AND IQ GRADE.

		Colorest Colorest Colorest Colorest	And a second state of the		
IQ Grade Superior	Above Average	Average	Below	Impaired	x2
65.0%	43.2%	15.9%	3,3%	0%	
19.1%	19.7%	18.8%	6.6%	0%	
11.2%	23.2%	29.3%	26.4%	18.8%	<u> 총홍홍홍</u>
4.6%	13.9%	36.0%	63.6%	81.3%	462.38
	1 65.0% 19.1% 11.2%	Superior Above Average 1 65.0% 43.2% 19.1% 19.7% 11.2% 23.2%	Superior         Above Average         Average           1         65.0%         43.2%         15.9%           19.1%         19.7%         18.8%           11.2%         23.2%         29.3%	Superior         Above Average         Average         Below Average           1         65.0%         43.2%         15.9%         3,3%           19.1%         19.7%         18.8%         6.6%           11.2%         23.2%         29.3%         26.4%	Superior         Above         Average         Below         Impaired           Average         Average         Average         Average           165.0%         43.2%         15.9%         3,3%         0%           19.1%         19.7%         18.8%         6.6%         0%           11.2%         23.2%         29.3%         26.4%         18.8%

33335 + 333 = p < 0.001; 33 = p < 0.01; 3 = p < 0.05; d.f 12.

#### DISCUSSION.

The group studied was quite typical of a city suburb with children from a wide range of backgrounds. In this area the majority of children attend schools that were nearest their home and so children from isimiliar social backgrounds tended to attend the same schools. Because of housing policies pupils from local authority housing, for example, tended to be clustered in one school type and children from more privileged backgrounds tended to be clustered in another school type.

The overall rate of behavioural deviance of 16.6% suggests that one in 6 children is maladjusted. This is similiar to that reported in other Dublin studies, (McCarthy and Boyle 1986; Lynch et al 1987). The greater number of boys than girls who are deviant has also been described in both Irish and International studies. (Stone et al 1990 Rutter et al 1970). It is well accepted that psychological disorder is more common in boys than girls in early childhood, tends to reach an almost equal sex ratio in pre teenage years and then shifts to the more adult pattern in which psychological disorders are much more common in women. The marked difference found here - one in nine boys deviant and only one in five girls - deserves comment. Stone et al (1989) found a discrepency between teachers rating of children on the B2 questionnaire and childrens' own rating using a self rated questionnaire of social difficulty. The discrepency was most marked in girls. This may indicate that teachers are more likely to be aware of disturbances in boys than in girls. Lynch compared results obtained using B2 questionnaire and a Child Psychiatric Interview , he found 84% agreement

between both, (Lynch 1987) indicating a high reliability of the B2 Questionnaire. As becomes obvious in In Section 3 of this paperB2 was significantly correlated with results on Parent Interview with child and no difference was found for reliability in boys and girls. This would indicate that the sex difference is real and not apparent. 70% of deviance is due to conduct disorder which tends to be much commoner in boys than girls. It has been noted in studies of behaviour in children, both disturbed and non disturbed, that boys tend to be more active and more overtly combative than girls. (Mc Farlane 1954, Shaffer et al 1980). Parents and teachers tend to react differently to boys and girls (Haverson and Waldron 1970), expecting and encouraging boys to be more active. As Macoby and Jacklin have commented, in relation to the genesis of aggression, it is remarkable how social processes and biological predisposition reinforce each other. (Macoby and Jacklin 1974).

70% of the deviant group were found to have a conduct disorder and 23.4% had an emotional disorder. This gives a rate of 11.6% of the total population with conduct disorder and 4% with emotional disorder. Rutter found a rate of 4% with conduct disorder in The Isle of Wight but a higher rate in urban populations. The rate for emotional disorders has been found to be 2.5% in small town communities and higher in urban areas. Our results would concur with this. It is well accepted that treatment outcome and long term prognosis tends to be better for children with emotional rather than conduct disorder.

This high prevalence of conduct disorder has many implications for child psychiatric services. Kolvin (1981) has shown that both Rogerian

style group psychotherapy and behavioural and nurturing treatments carried out by teachers in the classroom significantly improved the adjustment of both emotionally and conduct disordered children. McAuley (1982) pointed to evidence that children from relatively stable families respond well to behavioural and family therapies. Those from socially deprived, isolated multi-problem families responded less well. He stresses the need for behaviour therapists to look beyond the parent child interaction and focus on other critical factors, for example maternal depression. Section Four of this study shows that many children who are disordered come from multi-problem isolated families and this would confirm the need for a treatment approach which is broader than strictly behavioural.

The individual items of deviant behaviour are interesting. Many children are reported by teachers as having oddities of behaviour which are of no significance with regard to their mental health. Kanner (1957) commented that many psychiatrists tended to exaggerate the serious of individual items of behaviour. It is now generally accepted that so called 'neurotic traits' of childhood such as nailbiting, thumbsucking and stammering are quite common and are not valid indicators of emotional disorder. (Rutter and Hersov 1985).

The marked difference in behavioural deviance in different school types is disturbing. This difference has been widely shown in other studies, (Barton and Fitzgerald 1986; O'Connor et al 1988; Gath et al 1977; Power et al 1972). The main questions to be asked relate to whether these differences reflect the effects of particular schools on childrens behaviour or do they reflect differences already apparent at

school entry. Rutter in 1979 found differences between schools for rates of delinquency, behavioural disturbance, examination success and pupil attendance in secondary school children. These differences remained after controlling for the childrens' characteristics and background at ' the time of transfer to secondary school, and for the primary schools from which they were drawn. Rutter has also shown that there is a protective effect of above average scholastic attainments in the presence of family adversity. Quinton and Rutter's (1984) follow up of institution reared children found that those with positive school experiences had a better adult outcome. They-concluded that schools which foster high self esteem and which promote social and scholastic success reduce the likelihood of emotional and behavioural disturbances.

An assessment of class size and teacher turnover in a number of schools we studied showed no differences between school types. These results suggest that the main differences found in school types relate to the homes of the children assessed. Those in 'disadvantaged' schools were more likely to be living in loca! authority housing, have families with low income and have a higher rate of marital dysharmony and parental mental illness. Our results show that 'disadvantaged' schools have a higher proportion of children with reading backwardness and low IQ. It would seem reasonable to speculate that teachers in the more disadvantaged schools would therefore be more stressed and face greater difficulty providing the ideal school setting suggested by Quinton and Rutter.

It is also clear that the burden of cherishing children suffering from various forms of disadvantage is unevenly spread among the 39 schools studied. The allocation of resources in the form of teachers seems to be only marginally different. Obviously this aspect of 'educational policy needs further attention. How can this marked difference in behaviour and educational attainment be addressed, and by whom? It is not a problem unique to Dublin (O'Connor et al 1989). It appears, from our study, to be associated with the fact that children from the same socioeconomic backgrounds tend to attend the same schools.

Much work has been carried out in the U.S. on the effects of compensatory education. Attempts have been made to redistribute pupil populations in order to reduce the concentration of 'deprived' children within particular schools. One means of achieving this has been to 'bus' children from inner city ghettos to advantaged suburban schools. St. John, (1970) and Armor, (1972) have shown that this bussing has no consistent effects on academic achievement, educational or occupational aspirations, academic self-concept or self esteem, or on race relationships. Nevertheless, any changes however slight tend to be for the better rather than for the worse. There is some evidence that black children who have been bussed to the suburbs may be more likely to go to College, although this is associated with a higher dropout rate later. There was also some evidence that bussing increased racial identity and solidarity. It led to a loss in peer identity and a lowering of relative academic position. (Rutter and Madge 1970).

The American Head Start program, which attempted to compensate socially deprived children with increased stimulation in the Pre-school period has encouraged the growth of better thought out and more useful programmes and social action. Smaller more focussed Pre-school projects have been shown to produce important IQ gains, (Di Lorenzo 1969, Karnes 1969). The best results appear to stem from structured programmes with an emphasis on the developement of language. (Bronfenbrenner 1974). There is a tendency for any gains made to be lost during the early school years. This has encouraged the developement of Follow-Through programmes which extend the basic policy of Headstart into primary school and which shows more lasting effects. In England, Gahagan and Gahagan (1970) have shown that a language enrichment programme during the first two years of primary school produces significant increments in childrens use of language .

Home based interventions have shown more encouraging benefits. Programmes aimed at developing mother child understanding, communicaton and activities (Schaefer and Aaronson 1972) and attempts to train mothers through discussion of training activities and general child rearing problems at weekly meetings (Karnes et al 1970) have both been shown to benefit mother and child and other siblings.

A recent developement in Dublin is particularly promising in this regard. Since 1985 The Community Mothers programme has been in progress in some areas in Dublin. Volunteer community mothers are trained to provide support and advice for selected first time mothers in their

area. Each community mother is trained by a family developement nurse, who is then available to provide ongoing support as needed. As will be shown in Section Four and Five, many mothers of the children in this study felt socially isolated and many commented that they would have appreciated more interest and support when their children were babies. They would have benefitted from a Community Mothers Programme and we would encourage the extension of such programmes to other parts of Dublin.

Recent initiatives made by the Department of Education in the area of Home/School/Community Liaison Projects are also promising. The aims of this project are to (i) To maximise active participation of childremn in the learning process, in particular those who might be at risk of failure.; (ii) to promote active cooperation between home, school and relevant community agencies in promoting the educatical interests of the children; (iii) to raise awareness in parents of their own capacity to enhance their children's educational process and to assist them in developing relevent skills; (iv) to disseminate the positive outcome of the project throughout the school generally. Teachers are employed to work as full time co-ordinators of home /school /community liaison. Their work involves contact with schools and parents and helps to mobilise all available resources within the home and community. Promises made this Easter (1991) at the I.N.T.O. conference for extension of this service are particularly welcome.

Other projects have recently been commissioned by the Department of Justice for work with young offenders and early school leavers. We would recommend a greater degree of liaison between the Departments of Health, Education and Justice.

The apparent increase in IQ deserves comment. There appears to be a large increase in IQ results obtained by Irish schoolchildren since 1972. Over 16% of children are functioning in the superior grade, the expected rate is 5%. 50% of children are functioning above the 75th percentile, where only 25% would be expected to. This is a result that has been reported in another Irish child population (O'Connor et al 1988) also and similar large gains in IQ over generations have been reported in other countries, all reporting on results obtained using culture reduced tests such as Ravens Progressive Matrices. (Flynn 1987). While few psychologists would accept the adequacy of assessing IQ by such means alone, the gain over 17 years is unexpected. A possible explanation is provided by Brand in the Dept. of Psychology in Edinburgh. He analysed the results of WISC tests on Scottish children in 1961 and 1984. He found a slight rise of 2.5 points per generation. Other reports in Scotland reported rises of 18 points in IQ when culture reduced tests were used. Brand suggests the reason for this discrepency may be the advent of the permissive society. It has been shown that in studies of individual traits liberalism correlates positively with culture reduced intelligent scores. Brand suggests that higher personal liberalism and increasing levels of liberalism over the years, could

make for quick intuitive responding that would serve testees well on multiple choice, culture reduced tests. Taking the five subsets in the SPM, each subscale is composed of items of increasing difficulty, the last item in each subscale is more difficult than the first item in the next subscale. Therefore if time is spent trying to work out difficult problems early on the child may run out of time to complete easier later items, whereas those who make intelligent guesses on difficult items have a greater chance of scoring highly. This theory of liberalism would also explain IQ gains noted by Flynn (1987) in 14 different countries, Flynn's data included more of the Weschler Performance scales notablycoding, a multiple choice test of symbol association and copying at speed. This, notes Flynn, shows the greatest gain over time. This theory needs to be evaluated further but it emphasises the need to accept our results cautiously and the liklehood of overestimation of IQ must be considered. Another possible explanation is that increased stimulation through television has resulted in an overall increase in childrens' visuo spatial abilities. More detailed evaluations of childrens IQ using both verbal and performance tests are needed to clarify this assertion.

Despite reservations about overall IQ results they are useful for comparitive purposes. The marked discrepency between different school types has been already commented on.

Reading ability results followed a normal curve with the expected number of children reading at average ability. Overall a quarter of the children were reading at 18 months behind chronological age, however 36.8% of children in 'disadvantaged +' schools were reading at this level, this is almost three times the level found in children in 'advantaged' schools. While some of this discrepency can be explained by the variations found in IQ in the different school types it cannot all be explained by this. The discrepency in reading between different school types is much greater than discrepency in IQ levels.

The marked differences in both IQ and reading in different school types deserves further comment. We have already postulated that this is likely to be due to characteristics of the child's home rather than particular school characteristics. Such differences have been reported and assessed in other studies. They are thought to relate to differences in family interaction within different social classes. It has been shown that 'middle-class' mothers are more likely to give their children specific instruction on starting school than 'working-class' mothers (Hess and Shipman 1967). Several studies have shown social class difference in language usage, particularly with respect to abstract functioning. When describing an object or event 'middle-class' children tend to be more specific and elaborate in a way which is intelligible without knowing the immediate context. In contrast what the 'workingclass' child says is less explicit, makes more assumptions and is only

fully understandable in context. (Hawkins 1969). 'Middle-class' parents are more likely to see toys and play as things which are of educational importance. (Bernstein and Young 1967). While these studies do not show a direct effect of differing family interaction on children intellectual developement studies of children reared in institutions would support this view. (Tizard 1964).

Parental attitudes to learning and education are important factors in differences in educational attainment. A child's motivation and aspirations are shaped and influenced by parents expectations. It was noticeable, in our study, that mothers from 'disadvantaged' areas were less likely to enquire about their child's performance on IQ or Reading tests, than more 'advantaged' mothers. It has also been argued that the educational difficulties of poor children are due to a disparity between the skills used at home and those used at school, Ginsberg (1972) has argued that poor children are not in fact disadvantaged but that the problem lies in the schools taking the wrong approach. Cole and Bruner (1971) have also suggested that poor children have the necessary sklls but these are not tapped into.

Educationalists will argue as to the reasons for this marked difference we have found in psychological adjustment, IQ and educational

attainment in children from different social backgronds. Over one third of children in disadvantaged areas are reading 18 months behind chronological age. Over one fifth of those in disadvantaged areas are psychologically maladjusted. These findings appear to us to have far reaching implications. The reasons are many and the solutions needed involve changing social, environmental and educational policies

#### SUMMARY

- 2.0 2029 fourth class Primary School children were screened for Behavioural deviance, IQ, and Reading Attainment.
- 2.1 16.6% of 2029 children in an area of Dublin were found to be behaviourly deviant.
- 2.2 20% of boys and 11% of girls were deviant.
- 2.3 70% of those deviant were Conduct Disordered.
- 2.4 23.4% of those deviant were Emotionally Disordered.
- 2.5 6.6% of those deviant had a mixed Conduct and Emotional Disorder.
- 2.6 Children from 'socially disadvantaged' homes were more than twice as likely to be deviant thas those from 'privileged' homes.
- 2.7 25% of children were reading 18 months behind their chronological age.
- 2.8 A high level of Intelligence Capacity was found with 15.5% of children performing above the 95th percentile. A possible explanation for this is discussed.
- 2.9 A significant association was found between behavioural deviance, IQ and Reading age.
- 2.10 Those children attending schools that catered for predominantly socially deprived children tended to score lower on reading and IQ tests.

# SECTION THREE

# Prevalence of Child Psychiatric Disorder.

Formal Psychiatric Assessment,

#### INTRODUCTION

It is well accepted that psychiatric disorder occurs in children. Prevalence rates have varied depending on the population studied. Rutter reported rates of 25.4% in Inner London and 12% in The Isle of Wight. (Rutter et al 1974). Irish studies on small groups have shown that behavioural deviance is more prevalent in boys than girls; (Lynch et al 1987) more prevalent in urban rather than rural children; (Fitzgerald and Kinsella 1987) more prevalent in those from disadvantaged backgrounds (Barton and Fitzgerald 1986) and associated with social difficulties (Stone et al 1990) and marital disharmony. (Lucey and Fitzgerald 1989). Prevalence rates have varied from 5% in children from privileged background to 33% in children from disadvantaged ones. (Barton and Fitzgerald. 1986)

Psychological disturbance in children tends to manifest itself as a quantitative rather than qualitative change from the norm. Referral rates to general practitioners, child guidance clinics or school psyhcologists give a very crude measure of prevalence rates. Screening tests are useful but in the past have been shown to have below 50% true positive rates and 10% false negative rates.. (Rutter 1974). Lynch et al (1987) studied a small group of children in Dublin using screening tests and a psychiatric interview. They found a rate of 18.6% using psychiatric interview and 35.5% using a screening instrument, with 84% agreement between the two. In Cork, Porteus addressed this

problem by a two stage operation in which he screened a large group and then assessed a selected group in detail. He found a prevalence rate of psychiatric illness of 10%. (Porteus 1989).

Most studies in Ireland have concentrated on overall maladjustment and few studies have looked at the prevalence of individual diagnoses or symptoms. These symptoms will be discussed separately in the discussion part of this section.

In this study a large group (2029) children in the community are screened for psychiatric disorder, a smaller group of children are chosen from this group and assessed by psychiatric interview. The results of both tests are used to estimate the true prevalence of psychiatric disorder in the community.

Fourth class pupils in the study schools were screened for psychiatric disorder. The selection of the group has been described in Section 2. This part of the study reports on the intensive assessment of 190 children; from this assessment an estimate of overall prevalence is made; individual symptoms and disorders are discussed,

#### METHOD

2029 fourth class pupils were screened for psychological deviance using the B2 Teachers Questionnaire as described in Section 2. On the results of this screening two groups of children were selected for further intensive assessment. One group was chosen by taking every third child who obtained a score of 9 or more on the B2; and a control group by taking every 16th child with a score less than 9.

In each case the child was studied in the same way by one investigator, who was unaware of the reason for selection, in order to avoid bias. Each mother of the selected children was sent a short note explaining that an interviewer would call to her home to discuss her child's developement. When the interviewer called she explained the nature of the research to the mother and sought verbal permission to procede with the interview. The interviewer was a psychiatrist who was experienced and trained in the interview schedules. Each mother was interviewed for two to three hours. Interview schedules were used to assess child psychopathology; family and social factors; and mother's psychopathology. In this Section only child's psychopathology will be considered.

Child psychopathology was assessed using *IOW/IL Parental Interview* on Childs Psychiatric State, Module B. (Graham and Rutter 1988) A series of set questions covering a wide range of emotional and behavioural problems was asked in all cases. The focus of the interview was on the

previous three months, and for each item of possible clinical importance, information was sought systematically about the severity and the frequency of the behaviour, when it began, what made it better or worse, the developmental course, in what situations it arose and under what conditions it did not appear. For each item the interviewer gave a score on a four point scale, 0 indicating 'absence of symptom'; 1 'present but causing no social handicap or distress'; 2 'present and causing distress'; 3 'present and causing marked distress'.

On the basis of information obtained the interviewer was in a position to state if the child had a psychiatric illness and to classify it according to ICD 9. A psychiatric diagnosis was made if a number of symptoms of a particular disorder were present, if these symptoms were present consistently for the previous three months, and these symptoms were causing the child or others persistent discomfort. Where an adult type symptom pattern emerged the usual categories of ICD 9 were used. For those milder and less well differentiated cases which were typical childhood disorders the categories of emotional and conduct disorders of childhood were used.

#### RESULTS

206 children were chosen for intensive study. This included 100 who scored 9 or more on the B2 screening test and 106 'controls' who scored less than 9 an B2. 16 children were unavailable for study. 2 children moved from the area during the study and 14 parents refused to be interviewed. Refusals were higher among families of children with deviant scores on B2. 86 'deviant' children were assessed and 104 'nondeviant'.

117 fathers were employed. 155 children came from families with 5 children or less, with 35 coming from families with more than 5 children. 110 boys and 80 girls were assessed. 59 children were from 'Disadvantaged + Con' schools, 41 were from 'Disadvantaged' schools as defined by the Department of Education, 40 were from schools with children from both working class and middle class background and 50 were from schools with pupils from mainly privileged backgrounds.

#### Individual Symptoms on Parental Interview on Child Psychiatric Interview.

Of the 190 children assessed 12.2% had a mild physical handicap, 12.6% had marked physical handicap; these included mainly asthma, bronchitis and two children with epilepsy; three children had a severe physical handicap that resulted in marked social consequences.

13.2% of children had contact with child guidance clinics, and 2

children had received inpatient psychiatric treatment. 5.3% had attended their family doctor for a psychosocial problem in the three months prior to the interview.

When asked if they felt their child had difficulties with behaviour or emotions 15.8% answered 'definitely'; 12.6% thought it 'possible, but were unsure' and 14.7% answered 'Yes, but not more than other children'. This was asked before any formal questions on behaviour, in order to avoid any prompting. There was a high correlation between this response and final diagnosis, though there was a tendency for mothers to underestimate the presence of problems.

Table 3.2 shows the frequency of individual items reported by mothers. 10% were reported as being 'worriers'; 16.8% (32) children wet the bed at least once a week, 22 of these were 'primary' enuretics and 9 had been dry for at least one year and were 'secondary' eneuretic.

4 children were soiling more than twice a month. All four had acquired bowel control in the past and now and all had continuous soiling without retention.

8 children were considered to be *chronically unhappy* and 4 children were suffering from *major depression*. 16.8%(32) of children were felt to suffer from *loneliness*, with 13 of these distressed by this. 28.4%(54) were rated as being *irritable* and 10.6% (20) had *temper tantrums* where they threw things and half of these were 'aggressive', in that they hit or kicked others during the tantrum. In 13 of these children tantrums occured at least once a week.

Ta	Ъ1	e	3.	2	

INDIVIDUAL SYMPTOMS ON PARENT INTERVIEW ON CHILD PSYCHIATRIC SYMPTOMS.

		Frequence	>y	Percent	<i>.</i>
Headaches		N =190 4	ай — ,	2.6%	1
Stomach Aches		9		5.2%	
Worries about health		3		1.6%	
Worrying		20	N. F	10.6%	
Eating Problems		5		2.6%	
Sleep Difficulties		6		3.1%	
Bedwetting	22 s	31		16.3%	and share account. W
 Daytime Wetting	Contraction (Section of the Section of the Secti	3		1.5%	
Encoporesis		6		3.2%	
Pica		dan da		0.5%	
Chronic Unhappiness		8		4.2%	
Major Depression		3		1.6%	
Lonliness		32		16.8%	
Irritibility		54		28.4%	
Temper Tantrums		20		10.6%	
Fears		41	yr - 14	21.5%	
School Refusal		3		1.6%	
Obsessions/Compulsions	3	6	а қ.	3.2%	
Feels People are Again	ist	18		9.5%	
Delusions/Hallucinatio	INS	0		0%	
Being Teased		48		25.4%	
Teases Others		27		14.3%	
Being Bullied		23		12.3%	
Bullies others		20		10.6%	

When specific fears and phobias are assessed 21.6%(41) of children were fearful to the point that they actively avoided the feared stimulus. The commonest fear was of the dark, with 9 children being extremely fearful with marked avoidance behaviour. School Refusal occured in 3 children, each of whom refused to go to school on two or three occasions in the previous three months. 6 children showed obsessional behaviour with definite routines or rituals with distress at interference but causing no social impairment.

In relationships with others 9.5% (18) mothers reported that their children were convinced that others were out to make trouble for them;, this involved peers, parents and most frequently teachers. No child showed psychotic behaviour. Mothers reported that 25.4% (48) were teased frequently and 16 of these had difficulty coping with this teasing. 14.3% (23) were bullied 'more than others' and this caused marked distress for 4 children. 14.3% (27) were thought to tease and 10.6%(20) thought to bully 'more than others'. Only one child was considered to cause others major distress with teasing or bullying.

Questions on motor activity resulted in 11.1%(21) of children being rated as overactive at home with three children extremely overactive. The same percentage are overactive with others and there is considerable overlap between these two symptoms. 19%(36) were rated as being restless and fidgety at home and 13.2%(25) of these are also restless at school. 7.4%(14) of children were reported as being unable to concentrate on any activity for fifteen minutes or more, and

### Overall Prevalence of Psychiatric Disorders.

118 (62.1%) children were found to have no psychiatric illness. 62 children were found to have a definite psychiatric disorder; 22 of these were suffering from isolated primary eneuresis which was not part of any broader psychiatric disorder. This group is discussed in detail later in the text. Results are discussed both including and excluding enuretics. When eneuretics are included about 60% of those with deviant scores on B2 were found to have definite psychiatric disorder as assessed by parent interview. 19 of those with non deviant scores on B2 were found to have definite psychiatric disorder at interview, giving a false negative rate of 18.6%. Table 3.3 shows these results including enuretics as having a 'definite disorder'. Table 3.3B shows the results obtained when enuresis is not included as a 'definite disorder'.

These results show the B2 to have a true positive rate of 61% and a false negative rate of 18.6%. Using these rates the results from screening the original sample of 2029 children can be corrected accordingly to estimate the true prevalence of psychiatric disorder in the area. The prevalence of psychiatric disorder in fourth class pupils in the area studied is estimated to be 25.4% when enuretics are included and 16.3% when enuretics are excluded. Table 3.4A and Table 3.4B.

Table 3.4A

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# TOTAL PREVALENCE OF CHILD PSYCHIATRIC DISORDER (1) (includes those with isolated primary eneuresis.)

\$

Not selected on	No. in total population	% of sample with psychiatric disorder	estimated no. with disorder in total popul.
screening procedure Selected on	1692	18.3%	310
screening procedure	337	61.6%	207
	Total preva	lence = <u>517</u> 2029 =	25.4%

### Table 3.4B

TOTAL PREVALENCE OF CHILD PSYCHIATRIC DISORDER (2) (excluding those with isolated primary ensuresis.)

Not selected on	No. in total population	% of sample with psychiatric disorder	estimated no. with disorder in total popul.
screening procedure Selected on	1692	10.6%	179
screening procedure	337	45.3%	153
	Total preva	lence = <u>332</u> 2029 =	16.3%

59

Table 3.5

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INDIVIDUAL DIAGNOSES ON 190 CHILDREN.

Diagnosis.	Frequency M=190	Percent.
No Disorder	118	62.1%
Eneuresis	22 (ac)	11.6%
Socialised Conduct Disorder	15	7.9%
Mixed Disorder of Conduct an	d Emotion 8	4,2%
Misery and Unhappiness (E.D.	3	1.6%
Unsocialised Conduct Disorde	r 3	1.6%
Hyperkinetic Syndrome	3	1.6%
Encopresis	3	1.6%
Endogenous Depression	2	1.1%
Phobic Anxiety	1	0.5%
Stammering	1	0.5%
Tics	1	0.5%
Insomia	1	0.5%
Compulsive Conduct Disorder	1	0.5%
Adjustment Reaction	1	0.5%
Shyness and social Withdrawa	1(E.D.)1	0.5%
Huperkinetic with developmen	tal delay 1	0.5%

This shows 11% of these children had a conduct disorder, 4.7% had an emotional disorder of childhood and 4.2% had mixed conduct and emotional disorder.

### DISCUSSION.

60

The response rate was high with 92% of those chosen being fully assessed. 14 mothers refused to take part in the intensive individual study and two families had moved from the area of study. As is common in all epidemiological studies the non-responders included a higher proportion of children showing behavioural deviance as measured by B2, 14 of the non responders were 'deviant' on B2 and 2 were 'non deviant'.

In all, 62 of the group had a definite psychiatric diagnosis, 25 children had had contact with a child guidance clinic, and 29 mothers thought their child had difficulties with behaviour or emotions. Both these latter results suggest that parents tend to underestimate the problems their children have and that much psychopathology is not identified.

### Enuresis.

Over 11 % of children suffering from enuresis at age 10 years is higher than expected. The Isle of Wight Study found 2.9% of boys and 2.2% of girls to be enuretic. Our study found 16% of boys and 6% of girls were wetting the bed at least twice a week.

The aetiology of enuresis is diverse. Genetic elements are known to be important. (Bakwin 1961, 1973; Shaffer 1984). A number of factors indicate that it may be due to an anatomical or functional bladder abnormalities: A significant association betweeen enuresis and urinary tract infections has been reported; (Dodge et al 1970) It has been shown that enuretics pass smaller volumes of urine during micturition than non-enuretics, (Starfield 1967; Shaffer 1984) and there is evidence that the anatomical developement of the pelvic floor is delayed in children who wet the bed, and their bladders are more irritable. (Hutch 1972)

It is unproven whether enuresis is a manifestation of psychiatric disorder. Shaffer et al (1984) found that enuretics with a psychiatric disturbance were more likely to have associated speech or language difficulties than those without a psychiatric disturbance. It has been shown that enuresis is more common in those of lower social class; in those living in overcrowded or disadvantaged circumstances and among those reared in institutions. Douglas (1973) found that children who had stressful life events at 3-4 years had a twofold increase in the incidence of enuresis. Such events included family break up through death or divorce, temporary separation from mother for at least a month,

birth of a younger sibling, moving home, admission to hospital and accidents or surgical operations. However such events tend to be associated with chronic disadvantage (Schaffer and Schaffer 1968) and may not be of crucial significance in themselves. Foor training due to illness or distress in mothers results in a higher rate of enuresis. Rutter has commented that children with encuresis often show an increase in psychiatric disturbance but most findings do not support the notion that enuresis is invariably a psychiatric disorder. It must be borne in mind that regardless of actiology this symptom in itself can result in considerable distress. It appears that there is a multifactorial actiology and physical and psychosocial factors should be investigated further. Of 31 children with enuresis we found only 9 children had other significant psychiatric problems, with the majority, enuresis was an isolated phenomenon unassociated with any other stress.

### Encopresis

A prevalence of 1.5% is very similar to that found by Rutter in 1970 in ind 11 year olds. All encopretic children in our study were also enuretic, in keeping with findings of others, (Rutter 1970, Sussar 1967, and Levine 1975). All three children were soiling from infancy. None of the three was attending a doctor for this problem and mothers expressed the fear that bringing the child for professional help would cause too much embarrassment to the child. All three children were from low income families. Two of the children had mothers who were depressed and marital discord was marked in both cases. The other child's mother was not psychiatrically ill and his family life was stable. Such small numbers make presumptions about asociations impossible.

## Depression in Childhood.

Two children out of the 190 studied were found to be suffering from Endogenous depression. These children had symptoms of persistent depression with sleep disturbance, poor appetite, psychomotor retardation and they felt unloved and unwanted. Their symptoms differed from those children diagnosed as having 'misery and unhappiness' in that their symptoms were similar to the adult form of Depression. Three children were suffering from 'misery and unhappiness' and one child showed unhappiness following the death of his uncle one year previously and he was diagnosed as having an Adjustment reaction. This prevalence of 1.1% of depression in 10 and 11 year old is similar to that found by

Rutter in 1976. Leader et al (1989) found 14% of children attending a Dublin Child Guidance clinic to be depressed.

64

### Anxiety in Childhood.

One child was found to suffer from phobic anxiety to a disabling extent. This child had an abnormal fear of dogs which prevented him from leaving home. Five children (2.6%) were suffering from disabling anxiety and one child was markedly shy with social withdrawal. 41 (21.5%) children in all were found to be suffering from a specific fear. Most of these were afraid of the dark to an extent that a light was always left on at night. This occured so frequently without any other evidence of psychiatric disorder that it can be taken as a common occurence in normal children. be seen in Section Four, children with all forms of psychiatric disorder were more likely to be living in a stressful environment and to have psychiatrically disturbed mothers.

### Obsessional Disorders.

No child had a psychiatric disorder with predominant obsessional features. This is as expected in that the prevalence rates in other studies has varied from 0.2% to 1.6% of clinic populations of children and adolescents. (Judd 1965, Hollingsworth et al 1980). 3.2% of children performed rituals and routines and were distressed if there was any interference with these routines. This behaviour did not cause any social impairment in that parents tolerated the routines and in no case did the obsessional behaviour interfere with day to day life. Two of the children had other symptoms of anxiety and four of the children had no other psychiatric symptoms.

### Conduct Disorder of Childhood.

10% of children had a conduct disorder with a further 4.2% with mixed disorder of conduct and emotion. Some anti-social items such as idestructivenes, truanting, running away, stealing and firesetting tended to occur only in those found to have a conduct disorder, whereas other antisocial items tended to occur commonly in the 'normal' child.

Firesetting occured in eight children, seven of whom were conduct disordered, with firesetting part of a socialised conduct disorder - it took the form of setting fire to waste paper bins, post boxes and collections of rubbish outside buildings. One firesetter was suffering from mixed emotional and conduct disorder and he had lit small fires at home. Yanell (1940) stressed the difference between 6-8 year old neurotic firesetters with much latent hostility to parent figures and the more delinquent 11-15 year olds. Our firesetters fall into the delinquent group. 4.3% prevalence for firesetters fall into the

Stealing tended to be associated with conduct disorder. No cases of comfort stealing was reported and no case of stealing unassociated with other antisocial items was reported. This can be explained by the fact that comfort stealing tends to occur in younger children.

No child was reported by his mother to be abusing alcohol, drugs or solvents. This is likely to be due to the young age of children studied and these activities tend to begin around the age of twelve years. Another possibility is that children are engaged in this behaviour unknown to their parents.

### Hyperkinetic Syndrome.

2.1% or 4 children were diagnosed as suffering from Hyperkinetic Syndrome, with one child also having developmental delay. This diagnosis was made when overactivity, restlessness, fidgetiness and disinhibition were the most prominent features. This is a slightly higher rate than that found by Rutter in the Isle of Wight study of 10 and 11 year olds. He found only two hyperkinetic children out of a total population of 2199.

There was considerable overlap between items of hyperactivity and antisocial items. This overlap has been noted in other studies. (Safer and Allen 1976; Cantwell 1978; Barkley 1981). Taylor(1983) using Conners Teachers Rating Scale found that significant hyperactivity was present in 82% of a group of conduct disordered children. We made a

diagnosis of Hyperkinesis in those cases where items of hyperactivity were more prominent than those of conduct disorder. Three children had symptoms of both hyperactivity and conduct disorder. One child had only symptoms of hyperactivity and she also had signs of developemental delay. Stewert et al (1981) used clinically gathered data as the basis for research diagnoses of pure hyperactivity, unsocialised aggression and mixed hyperactivity and aggression. They found that the mixed group quite closely resembled those with unsocialised aggression only. By contrast, the rather small group of children with pure hyperactivity appeared to be a distinct group; they had lower IQs and an earlier age of onset. Our findings support this view.

### SUMMARY SECTION THREE

- 3.0 190 children are examined intensively for psychological disorder.
- 3.1 104 children were'non-deviant' on B2 Questionnaire and 86 were 'deviant' on B2. (Section 2)
- 3.2 62 of these children were found to have a definite pychiatric disorder. This showed the B2 has a 61.6% true positive rate and an 18.3% false negative rate.
- 3.3 Using the above figures the prevalence of Psychiatric Disorder for the total population is estimated to be 25.4%.
- 3.4 11.6% of the 190 children were enuretic, wetting the bed at least once a week.
- 3.5 10.0% of the 190 children had a conduct disorder.
- 3.6 4.7% of the 190 children had an emotional disorder.
- 3.7 4.2% of the 190 children had a mixed conduct and emotional disorder
- 3.8 2.1% of the 190 children were suffering from the Hyperkinetic Syndrome.

# SECTION FOUR Family and Social Circumstances of Children with Psychiatric Disorder

1 SECTION FOUR 1 SOCIAL FACTORS AFFECTING CHILD PSYCHIATRC DISORDER

### INTRODUCTION.

72

Rates of child psychiatric disorder are known to vary considerably according to living conditions. Gath et al (1972) found referral rates to child guidance clinic were higher in areas of low social status. Rutter found marked differences in prevalence of psychiatric disorder in different areas. (Rutter et al 1975), with 12.0% of children on The Isle of Wight and 25.4% of children in Inner London showing evidence of psychiatric disorder. Studies on Irish populations have varied from 5% in a group of children from privileged backgrounds to 33% in children from a disadvantaged area of Dublin with psychiatric disorder. (Barton and Fitgerald 1986)

### METHOD.

190 children were chosen from a larger group of 2029 children. Section 2 and 3 describes how these children were chosen. Where available the mother of each child was interviewed in order to assess child psychiatric disorder, to investigate social and family factors, and to assess mothers mental state. The interview to assess the child was explained in Section 3 and mothers assessment is explained in Section 5. The social and family circumstances were assessed using a semi-structured interview which systematically evaluated attitudes or feelings and events or activities in the home. (Clare and Cairns 1978). This Social Interview, which takes about 45 minutes to administer, covers housing, finance, occupation, social and leisure activities and relationships with significant individuals in the persons life.

# Table 4.1 FREQUENCY OF ITEMS ON SOCIAL QUESTIONNAIRE

142470 202	6		
ITEN		FREQUEBCY B=185	PERCENT
Accommodation	House	180	97.3%
	Flat	5	2.7%
Tenancy	Owned Rented	124	67.0% 33.0%
Residential	Adequate	173	91.1%
Stability	Less than	adequate 12	8.9%
Kitchen	Adequate	174	94.2%
	Less than	Adequate 11	5.8%
Bathroom	Adequate	174	93.7%
	Less than	Adequate 11	6.3%
Lavatory	Adequate	170	91.6%
	Less than	Adequate 15	8.4%
Heating	Adequate	151	80.5%
	Less than	Adequate 34	19.5%
Privacy	Adequate	166	88.4%
	Less than	Adequate 19	11.6%
Furniture	Adequate	170	90.5%
	Less than	Adequate 15	9.5%

RESULTS.

74

110 boys and 80 girls were assessed. 5 parents completed child interview but refused to complete social interview, leaving a total of 185 children on whom social and family environments were assessed. 117 fathers were in fulltime employment, 57 were unemployed and 11 were not living at home. 35 of the children were from families of 6 or more children, the remainder were from smaller families.

Table 4.1 shows the frequency of items on the social questionnaire. Two thirds of the group studied lived in private accommodation and one third lived in rented accommodation, predominantly local authority housing. Generally a high level of satisfaction with housing was expressed with only 7.6% severely dissatisfied with housing. Overcrowding was evident in 15.3%; this tended to be caused by single parents sharing the home of their parents. Almost the entire sample possessed a television, half had at least one car and two-thirds had a telephone. As many people declined to disclose the amount they were earning 'Satisfaction with income' was taken to account for overall ability to live on available income. One third expressed marked dissatisfaction with their income.

ITER		FREQUENCY N=185		PERCENT
Qual 1 Comband	: Satisfied	139		75.1%
bes he of me of the second of the	inor Dissatisfact	20		10.8%
-	Annor Dissatisiact	12		6.5'
-		14		7.6%
- 2	Severe Dissatisfact	14		1.0%
Meighbour Opp	Satisfied	106		57.3%
0 11	Minor Dissatisfact	31		16.8%
	Marked Dissatisfact	34		18.4%
, n	Severe Dissatisfact	14		7.4%
				3
Weighbour Man	Satisfied	105		56.8%
0	Minor Dissatisfact	29		15.7%
	Marked Dissatisfact	35		18.9%
	Severe Dissatisfact	16		8.6%
Neighbour Sat	Satisfied	135		71.1%
0	Ninor Dissatisfact	18		9.5%
 and a second many restored and restored on the many solution and	Marked Dissatisfact	15	***	8.1%
	Severe Dissatisfact	17		9.2%
Childhood	Satisfied	121		65.4%
	Ninor Dissatisfact	17		9.2%
	Marked Dissatisfact	25		13.2%
	Severe Dissatisfact	22		11.9%
Fathers	Always worked	136		77.7%
Employment	Some Unemployment	17		9.7%
	Nostly Unemployed	16		9.1%
	Never Employed	6		3.4%
Palativac Ann	Satisfied	107	and an analysis of the second s	57.8%

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			REQUENCY N=185	r 1	PERCENT	
	Dishwasher				00.14	
	DISTACENSI		165		89.4%	1
		Present	20		10.6%	
	Spindryer		121		64.0%	2
		Present	64		36.0%	
	Telephone	Absent	74		40.7%	
		Present	110		59.7%	
	Television	Absent	3		3.2%	
		Present	182		96.8%	
	Video		66		34.9%	
		Present	119		65.1%	<u></u>
	Car	Absent	92		49.7%	alan waa in waxaa ku ku ahaa ka ku
a e e linderfre ter	ann a mhaint a' fh' ann an anns a' agus an far san staine anns a' san anns anns anns anns anns an	Present	93		50.0%	
	Satis /Incom	e Satisfied	97		52.4%	
		Minor Dissatisfact	27		14.6%	
		Marked Dissatisfac	t 25		13.5%	
		Severe Dissatisfac			19.5%	
	Leisure Opp	Satisfied	74		40.0%	
		Minor Dissatisfact	54		29.2%	
		Marked Dissatisfac			15.1%	
		Severe Dissatisfac			15.7%	
	Leisure Man	Satisfied	80		43.2%	
		Minor Dissatisfact	48		25.9%	
		Marked Dissatisfac	t 30		15.8%	
		Severe Dissatisfac			14.2%	
	Leisure Sat	Satisfied	105		56.8%	
	and for all and the out one of the other of	Minor Dissatisfact	38		20.5%	
		Marked Dissatisfac			10.0%	
		Severe Dissatisfac			12.4%	
	Social Conta	cts Satisfied	147		79.5%	
	normerner an tale on a northol data to been	Ninor Dissatisfact			5.9%	
		Marked Dissatisfac			8.1%	
		Severe Dissatisfac			6.5%	
	k Confident	Absent	40		22.1%	
	4	Present	141		77.9%	
	and a second					
	Confident	Absent	33		17.8%	
	(partner)	Present	152		82.2%	
	Opp = Opport			Sat = Satisfacti		

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	ITEN	FREQUEECY	PERCENT
		W=185	
	Marital Interest Satisfied	120	70.2%
	Marital Interest Datisiled Ninor Dissatisfact	15	8.8%
	Marked Dissatisfact	13	7.6%
	Severe Dissatisfact	23	13.5%
	Marital Irritability Satisfied	120	70.2%
	Minor Dissatisfact	12	7.0%
1	Marked Dissatisfact	18	10.5%
	Severe Dissatisfact	21	12.3%
	Marital Quarrels Satisfied	125	73.1%
	Minor Dissatisfact	15	8.8%
	Marked Dissatisfact	12	7.0%
	Severe Dissatisfact	19	11.1%
			02.08
	Physical Violence Mone	147	85.0%
	Some	6	3.5%
	Narked	9	5.3%
	Severe	9	5.3%
		119	70.0%
	Responsibility Satisfied	119	7.1%
	Ninor Dissatisfact		8.9%
	Marked Dissatisfact		11.6%
	Severe Dissatisfact	22	11.08
	Sexual Compatability Satisfied	122	64.2%
	Ninor Dissatisfact	12	7.1%
	Warked Dissatisfact		8.2%
	Severe Dissatisfact		11.6%
	But to the detail of the detail of the second details to the the sec		
	The I deliver deliver	120	68.2%

On items of social linkage one third of the mothers were considered to have markedly inadequate opportunity for leisure activities. Only one fifth of the sample were dissatisfied with their leisure activities. 22% reported that they did not confide in their partner and 17.8% had no confiding relationship at all. 14% were dissatisfied with the extent of their social supports. Over a quarter described dissatisfaction with their opportunity for relating to their neighbours, and almost one third managed this relationship poorly despite adequate opportunity; less than a fifth of these women were dissatisfied about this lack of neighbourliness.

Almost one quarter of women described unhappy childhoods, most commonly associated with parental mental illness and marital disharmony. 12.5% of the womens fathers had been unemployed during their childhood. One quarter described marked difficulties in keeping contact with their relatives, the commonest reason given being geographical distance. A slightly smaller number made constuctive efforts to keep contact, and one fifth in the total sample described dissatisfaction over their contact with relatives. A very small percentage complained of too much contact with their relatives, the majority finding the opposite.

In all 68.2% were in 'totally satisfactory marriages.' One quarter were markedly dissatisfied. 18% quarrelled frequently. In 10% of marriages there was frequent physical violence. In an objective

assessment of child management, 28% were performing poorly, although only 13% stated they had serious behavioural or emotional problems in children other than the index child. The overall satisfaction on being a parent was very high with only 5% expressing marked dissatisfaction.

Table 4.2, 4.3, and 4.5 shows the relationship between these social and family items and child psychiatric illness. Chi square test of significance has been used to show the association between individual items and child disorder.

In Table 4.2 it is seen that children living with married parents are significantly less likely to be disordered than those whose parents likely to be disordered if his father

2 2 2 3 1 - 4 - 4

assessment of child management, 28% were performing poorly, although only 13% stated they had serious behavioural or emotional problems in children other than the index child. The overall satisfaction on being a parent was very high with only 5% expressing marked dissatisfaction.

Table 4.2, 4.3, and 4.5 shows the relationship between these social and family items and child psychiatric illness. Chi square test of significance has been used to show the association between individual items and child disorder.

In Table 4.2 it is seen that children living with married parents are significantly less likely to be disordered than those whose parents are separated. A child is twice as likely to be disordered if his father is unemployed. Those of below average IQ were twice as likely to have a psychiatric disorder, but the association was not significant when all IQ grades were taken into account.

The home environment and material belongings are described in Table 4.3. Tenancy, household care and satisfaction with house are seen to be significantly important factors in child disorders. In those households where there was no telephone the index child was twice as likely to be disordered as a child from a household with a telephone. The same applied to children from households with a car.

### Table 4.2

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CHILD PSYCHIATRIC ILLBESS AND MATERNAL SOCIAL CIRCUNSTANCES.

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		-		
Variable	Illness Pres	ent	Illness Absent	Chi- Square
Marital Status Married Other	31.8%		68.2% 28.6%	14.18 ****
Employment Status Employed Unemployed	28.2% 52.6%		71.8% 47.4%	8.87 **
Deviance on B2 Not Deviant Deviant	18.3%		81.7% 38.4%	35.78***
Child IQ			anana na aliang arang arang arang ara maring arang ara	n Sant in the general sector of the sector and the sector and the sector of the sector of the sector of the
Superior Above Average Average Below Average	27.8% 34.95 38.9% 60.9%	.74 12	72.2% 65.1% 61.1% 39.1%	6.00 BS
Reading Age 18mths + ahead Up to 17 mths 0 to 17 mths b 18 mths behind	ahead 17.9% ehind 31.8%	1 9 9	74.4% 82.1% 68.2% 48.1%	11.9**

	Table 4.3 CHILD PSYCHIATRIC ILL		MAL SOC	IAL CIRCUMST	ABCES.
1	Variable Illness	Present I	llness	Absent Chi	- Square
1	fenancy				
	Owned	25,6%		74.4%	
	Rented	62.3%	11	37.7%	21.62****
	Privacy				
	Adequate	37.5%		62.5%	
	Not Adequate	40.9%		59.1%	0.005 MS
S	Space Adequacy				
a	Adequate	34.8%		65.2%	
					0 540 70
	Inadequate	55.2%		44.8%	3.517 BS
P	lousehold Care			en Garris Marris (1) Marriello (1) Marriello (2) (2)	ta any chantes to see a stable to term one where to the set
Lapare et carrie	Adequate	33.5%		66,5%	
	Less than Adequate	69.6%		30.4%	9.64**
S	atisfaction with house				
	Satisfied	30.3%		69.7%	
	Minor Dissatisfaction	45.5%		54.5%	
	Marked Dissatisfactio	n 50.0%		50.0%	
	Severe Dissatisfactio	n 71.4%		28.6%	11.46**
Т	elephone				
_	Absent	53.2%		46.8%	
	present	27.1%		72.3%	11.58***
C	ar				
-	Absent	54.3%		45.7%	
	Present	22.1%		77.9%	19.3***
			×		
5	atisfaction as housewife Satisfied	28.0%		72.0%	
	Minor Dissatisfaction			44.4%	
	Warked Dissatisfaction			29.4%	
	Severe Dissatisfactio			33.3%	26.84***
	DEVELE DISPACISIACCIO			00.0%	20,04000
H	usbands Occupation				
	Satisfied	27.6%		77.4%	
	Minor Dissatisfaction			73.7%	
	Marked Dissatisfactio			77.8%	
	Severe Dissatisfactio			33.3%	
	Not Applicable	50.6%		49.4%	13.448
	IS = Not Significant				

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ariable Illness Pre	sent Illr	ess Absent Chi-	Square
nemployment			
Satisfied	44.4%	55.6%	
Minor Dissatisfaction	57.1%	42.9%	
Marked Dissatisfaction	56.3%	43.8%	
Severe Dissatisfaction	20.0%	80.0%	1
Not Applicable	33.9%	66.1%	7.066頁
atisfaction with Income			
Satisfied	26.8%	73.2%	
Ninor Dissatisfaction	63.0%	37.0%	
Marked Dissatisfaction	32.0%	68.0%	
Severe Dissatisfaction	72.2%	27.8%	23.43***
S = Not Significant			

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The Mothers' personal satisfaction and their social supports are described in Table 4.4. A child whose mother is satisfied with her leisure activities has a one in four chance of being disturbed, whereas a child whose mother is severely dissatisfied with leisure has a one in two chance of being disturbed. If the mother has no confiding relationship, a child is twice as likely to be disordered as is the case if she is severely dissatisfied with her social contacts. Where the mother's relationships with neighbours and relatives is poor there is a definite tendency for a child to be disordered. However this does not reach statistical significance in either case. The mothers' childhood experiences were no different for the two groups; there is no evidence that mothers unhappy childhood is associated with child disorder.

The marital and parental relationship is recorded in Table 4.5. One fifth of those children whose parents had a satisfactory relationship were found to have a disorder. A child whose parents were dissatisfied was four times as likely to be disordered. Where there was marked dissatisfaction or separation the child was three times as likely to be disordered. Almost ninety percent of children in homes where there was severe physical violence were disordered compared with 30% of those from non-violent homes. Mothers who were handicapped in child management were three and a half times more likely to have a disordered child than those with no such handicap. There was a very significant association

of child disorder with disorder in other siblings and mothers satisfaction as a parent. Children from families where there were 6 or more children were twice as likely to be disordered as those from smaller families. Position in family was not significantly associated with disorder.

Table 4.4

CHILD PSYCHIATRIC ILLNESS AND MATERWAL SOCIAL CIRCUMSTANCES

1

Variable Illness Pres Leisure Opportunity	sent	Illness .	Absent Chi	i- Square	j.
Satisfied	00 68		DA CA		
	28.4%		71.6%		
Ninor Dissatisfaction	33.3%		66.7%		9
Marked Dissatisfaction	57.1%		42.9%		
Severe Dissatisfaction	51.7%		48.3%	10.09 *	
Leisure Management					
Satisfied	25.0%		75.0%		
Minor Dissatisfaction	45.8%		54.2%		
Marked Dissatisfaction	50.0%		50.0%		
Severe Dissatisfaction	48.1%			10.02 *	
			01000	200000	
Leisure Satisfaction					
Satisfied	24.8%		75.2%		
Minor Dissatisfaction	55.3%				
Marked Dissatisfaction	52.6%		44.7%	an ar an	Constant on the week of the second
Severe Dissatisfaction			47.4%	17 00 000	
Severe Dissatisiaction	56.5%	,	43.5%	17.72 388	
Social contacts Opportunity					
Satisfied	30.6%		69.4%		
Minor Dissatisfaction	72.7%		27.3%		
Marked Dissatisfaction	60.0%		40.0%		
Severe Dissatisfaction	66.7%		33.3%	16.33 **	
Confidant (partner)					
Absent	55.0%		45.0%		
Present	32.6%		67.4%	5.73 *	
Confidant (anyone)					
Absent	66.7%		33.3%		
Present	31.6%		68.4%	12.73 ***	
Satisfaction with social contac	ts				
Satisfied	30.9%		69.1%		
Minor Dissatisfaction	40.0%	2	60.0%		
Marked Dissatisfaction	83.3%		16.7%		
				177 50 899	
Severe Dissatisfaction	64.3%		35.7%	17.58 ***	
Weighbourliness opportunity			60.04		
Satisfied	37.7%		62.3%		
Minor Dissatisfaction	41.9%		58.1%		
Marked Dissatisfaction	29.4%		70.6%		
Severe Dissatisfaction	50.0%		50.0%	2.13 MS	
NS = Not Significant					
##8#,### = p < 0.001 ; ## = p	< 0.01 ;	# = p <	0.05 :		

##8#, #8# = p < 0.001; ## = p < 0.01; # = p < 0.05:

Table 4.4 (cont)

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# CHILD PSYCHIATRIC ILLNESS AND MATERNAL SOCIAL CIRCUMSTANCES

ld vo					
Variable Illness Pr Neighbourliness management	resent	Illness	Absent	Chi- Square	*
Satisfied				*	P
	35.2%		64.8%		
Minor Dissatisfaction	44.8%		55.2%		
Marked Dissatisfaction	34.3%		65.7%		1
Severe Dissatisfaction	50.0%		50.0%		
Weighbourliness satisfaction					
Satisfied					
	33.3%		66.7%		
Minor Dissatisfaction	38.9%		61.1%		
Marked Dissatisfaction	53.3%		46.7%		
Severe Dissatisfaction	58.8%		41.2%		
Description			71.0619	5.88 BS	
Domestic Situation					
Satisfied	32.6%		CD AN		
Minor Dissatisfaction	40.0%		67.4%		
Marked Dissatisfaction	45.5%		60.0%		
Severe Dissatisfaction	58.3%	an and integration cannot when the second	54.5%		ALC 1.1 1818 1.1.1.1
	00.0%		41.7%	6.38 MS	
Childhood					
Satisfied					
Minor Dissatisfaction	36.4%		63.6%		
Harked Dissatisiaction	35.3%		64.7%		
Marked Dissatisfaction	40.0%	· · · ·	60.0%		
Severe Dissatisfaction	45.5%		54.5%	A 9610 W	-
Fathers 7			0-21 0 //	0.8612 33	)
Fathers Employment					
Always employed	37.5%		60 F.M		
Some Unemployment	41.2%		62.5%		
Nostly Unemployed	50.0%		58.8%		
Never Unemployed	33.3%		50.0%		
4 J	00.0%		66.7%	1 05 00	

### Table 4.5

CHILD PSYCHIATRIC ILLNESS AND NATERNAL SOCIAL CIRCUNSTANCES

Variable Illness Pre	sent Il	lness	Absent Chi	- Square
Marriage Interest				and the part of the second sec
Satisfied	24.2%		75.8%	
Ninor Dissatisfaction	33.3%		66.7%	
Marked Dissatisfaction	69.2%		30.8%	
Severe Dissatisfaction	73.9%			28,18 ***
Marriage Irritability				
Satisfied	23.3%		76.7%	
Minor Dissatisfaction	33.3%		66.7%	
Marked Dissatisfaction	77.8%		22.2%	
Severe Dissatisfaction	66.7%		33,3%	30.89 ****
Marriage Quarrels				
Satisfied	25.6%		74.4%	
Minor Dissatisfaction	60.0%	and a stage addition of the second of the state of	40.0%	er openset i en
Marked Dissatisfaction	58.3%		41.7%	
Severe Dissatisfaction	63.2%		36.8%	18.44 333
				- <sup>1</sup>
Marriage Physical Violence				
None	30.6%		69.4%	
Some	50.0%		50.0%	
Narked	44.4%		55.6%	10 66 **
Severe	88.9%		11.1%	13.66 **
Marriage Sharing Responsibilit	TP			
Satisfied	23.5%		76.5%	
Ninor Dissatisfaction	33.3%		66.7%	
Narked Dissatisfaction	76.5%		23.5%	
Severe Dissatisfaction	68.2%		31.8%	30,27 ****
Marriage Sexual Compatibilty				
Satisfied	21.3%		78.7%	
Minor Dissatisfaction	75.0%		25.0%	
Marked Dissatisfaction	57.1%		42.9%	
Severe Dissatisfaction	72.7%		27.3%	35.40 ***
Satisfaction with Family Plann			170 54	
Satisfied	26.5% 31.3%		73.5% 68.8%	
Ninor Dissatisfaction	51.3%		35.3%	
Marked Dissatisfaction Severe Dissatisfaction	70.0%			15.77 **
Severe Dissatislaction	$( \circ, \circ h)$		QV:VR	20011
Marital Discord				
Satisfied	20.0%		80.0%	-
Ninor Dissatisfaction	84.6%			
Marked Dissatisfaction	75.0%		2	
Severe Dissatisfaction	60.0%		Ą	
Separated	64.7%		З	
NS = Not Significant				
****, *** = p < 0.001 ; ** = 1	o < 0.01; ±	# = p <	0.05 :	
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Table 4.5 (cont)

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CHILD PSYCHIATRIC ILLNESS AND SOCIAL CIRCUNSTANCES

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Variable Illness Pro	esent	Tilnace	Ahcont	Chi-	Sausto	
Mothers' Management of childre	en	استانينا مناطب بله بل بل	AL 195255 14 W	A and the	DYBALE	1
Satisfied	20.91	1		79.1%		
Minor Dissatisfaction		-		33.35		
Marked Dissatisfaction				40.7%		1
Severe Dissatisfaction					00 40 0000	
DEAGLE DIGGGEDETETETION	12.01	p		20.00	38.10 ***	
Problems with other children	70					
None	24.8%			75.2%		
Some	44.4%			55.6%		
Marked	100.0%			0.0%		
Severe	90.9%				44.23 ****	
	000038			J . 1 19	24.00 AB22	
Mothers' Satisfaction as a Par	rent					
Satisfied	30.0%			70.0%		
Minor Dissatisfaction	72.0%			28.0%	l -	
Marked Dissatisfaction	4 con 4 m bb			33.3%		
Severe Dissatisfaction		a Channel Coll and the subscript of the coll and the	newsen of the contract of the second	Construction of the second sec	21.14 ****	, ar ann. Marri a'
I CONTRACTOR OF A REAL PROPERTY OF A CALLER OF A CALL	TAA: A%			V. V.h	21,14 2225	
School Type						
Disadvantaged + Con	47.5%		50	2.5%		
Disadvantaged	53.7%			5.3%		
WC + Nc	32.5%			7.5%		
関C	18.0%			2.0 15	5 5 2 A.R	
	201010			V 10	1.00 22	
Number of children in Family						
III						
5 or less 155	31.6%		68	. 4%		
6 or more 35	65.7%				.69 ***	
			0-2		11.42 0.00	

Position in Family

Discriminant Analysis.

Before discussing the findings on Discriminant analysis this statistical procedure will be described in some detail. Discriminant analysis is a multivariate analysis which essentially attempts to identify from a range of variables a linear combination of variables which best distinguishes between two categories of cases. As a statistical device discriminant analysis not only selects the variables which best discriminate between the two groups but also provides an estimate of the strength and direction of the discrimination.

'Stepwise discriminant analysis' is used here in which the variables discriminating the two groups are entered in a stepwise progression. An important value at this stage is the Wilks' Lambda statistic. The smaller the value of Wilks' Lambda the greater the discriminating power of a variable or set of variables. The order in which variables are entered into the final discriminating equation is decided by that variable which minimizes the value of Wilks' Lambda, thereby maximising the variance explained by this selected variable and minimising the unexplained variance. This stepwise progression continues until the addition of a further variable will not add anything to the value of the discriminating value. At this stage we have a set of variables which together best discriminate between the two groups. The smaller the value of the final Wilks' Lambda the greater the discriminating power of these combined variables. A canonical correlation value can

be calculated from these combined variables . This operates similarly to; 'multiple regression variable' in that the square of the canonial correlation provides the proportion of variance explained by the combined variables selected. Finally the Standard Canonical Discriminant Function is calculated for each variable. This standardises results to make each of the variables directly comparable to one another. This Standard Canonical Discriminant Function shows the relative contribution and direction of effect of the individual variables.

86

The two categories analysed were children with a psychiatric diagnosis and those without a diagnosis. Variables on the social questionnaire were included in the analysis. Table 4.6 and 4.7 show how these variables correlate with one another. This is of importance in discriminant analysis. If two items correlate highly, and one item is Table 4.6 shows the correlations of items on the social questionnaire with one another. Summary variables were used in order to reduce the number of variables involved. As only 28 women were not married they were excluded from this analysis. Other women excluded were those on whom information was incomplete. 146 in all were included in

this analysis.

able 4.6	Correla	tions of	Variable on Social Questionnaire (1)
	Income ]	IncDisat	QualAc HseAdeq FamMe Mardis RelDis Pardis
			45**33** .18 .35** .08 .36**
EmStat 1.00		-, 4358	.45** .28** .0133**0728**
Income 4088 InDisat . 268		1.00	42**29** .12 .24* .05 .17
QualAc 45**		4233	1.00 .823332333633114033
HseAdeq33**		21**	.82** 1.0039**34**1032*
Fameo .18		.12	-, 36** 39** 1.00 .15 .02 .23*
	\$33**	.24\$	-,36##34## .15 1.00 .0.0
	-,06	, 05	1010 .02 .30** 1100
	s2835	,17	40**32** .23* .73** .30** 1.(

N = 146 2-tailed significance; \* = .01 \*\* = .001 EmpStat = Employment Status; IncDisat = Dissatisfaction with income, QualAcc = Summary value of accommodation variables. HseAdeq = Summary value of household variables. FamNO = Family Number. MarDis = Marital Dissatisfaction. Summary Value of all marriage variables. RelDis = Relative Dissatisfaction. Summary value of items on Relatives. ParDis = Parental Dissatisfaction. Summary value of handicaps to child management, problems with other children and satisfaction as a parent.

Table 4.7	001	Concentrations of		Variable on Social		Questionnaire (2)		
Empstat	Leisure .22*	AvalConf 12	SexChlo .16		NatPsych .01	ChldPsych		
Income	. 3488	. 11	. 04	.30**		-,22*		
IncDisat	. 51**	. 02	. 01	. 11	.20	.20		
QualAc	3288	. 03	02	20	17	30%*		
HseAdeq	22	. 08	. 02	14	17	3284		
Famio	. 09	- 11	06	e the	. 05	. 28**		
Mardis	.27+*	33**	. 03	. 22*	.23*	. 44**		
RelDis	.24 s	25%	02	. 06	.23*	.10		
Pardis	.25*	34288	03	. 33##	.32**	. 4885		
eisure valConf	1.00	19	11	. 10	. 3188	. 14		
	19	1.00	. 06	13	14	16		
otB2	11	. 06	1.00	22\$	05	18		
	. 18	13	22*	1.00	. 17	. 46#*		
ldPsych	.31**	14	05	.17	1.00	.24*		

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Fifteen variables were included in the analysis. In some cases summary variables are used and these have been explained in Table 4.6 and 4.7. 28 mothers who were not married at the time of the study were excluded from the analysis. 28 were excluded as at least one discriminating variable was missing. (Some mothers declined to answer selected questions.) 129 were included in the analysis.

Table 4.8 A

	Variables	included in Disc	iminating Table.
Step	Variable entered	Wilk's Lambda	Significance.
1.	Parental Dissatisfaction	.88	.0001
2.	ReadPct	. 84	. 0000
3	FanNo	. 82	.0000
4.	Sex	.80	.0000
5.	HseDisat	.77	.0000
6.	Patage	,75	.0000
7.	IQ Tot	.74	, 0000

ReadPct = Reading Percentile(child); FamNo = Number of Children; HseDisat = Mother's Dissatisfaction as a Housewife; Fatage = Child's Fathers Age; IQ Tot = Child's score on Ravens Progressive Matrices.

Table 4.9 A	Summary Results of Stepwise Dis	criminant Analycic
Variables		
Employment Status	Standard Canonical Discri	minant Function
Income	_	
Quality of Accommoda	tion	
Standard of Living		
Maternal Age		namen and mention and the second of the second s
Paternal Age	_	an the Salar and the Salar
Farily Number	.32	
Position in Family	. 48	
Sex	-	
Parental Dissatisfacti	. 40	
Dissatisfaction as a H	60	

Table 4.9A shows that an equation based on seven variables maximally distinguishes between children who are psychiatrically disordered and those who are not, and knowing the results of these variables we would correctly classify 72% of cases into those who are disordered and who are not. The canonical correlation of .5 shows that 25% of the variance between the two groups can be explained by these six variables. This difference is significant at the 0.1% level.

Examination of the Standard Discriminant Function Coefficients show that, in order of importance, those most likely to have a psychiatric diagnosis are;

(i) those children whose mothers score highly on Dissatisfaction as a Parent. This is a summary variable of situational handicaps to child rearing, problems with children other than the index child and dissatisfacton as a parent.

(ii) those children who obtained a low Reading Percentage score.(iii) those children who were from families of 5 or more children.

(iv) Boys.

(v) those children whose mothers were dissatisfied in their role as a housewife.

(vi) those children whose fathers were older

(v) those children who obtained a low score on IQ testing.

Parental Dissatisfaction and Marital Dissatisfaction are highly correlated (r = .73). If both are included in the same analysis the discriminating power of one would be cancelled out by the other and only one would appear in the final equation. As both variables have been shown to be highly significantly associated with Child Psychiatric Disorder, two analyses have been performed, using these variables seperately. A second discriminant analysis was performed using the same variables as above, but substituting Marital Discord for Parental Dissatisfaction. Results obtained are shown in Tables 4.8B and 4.9B

92

Table 4.8B

Variables included in Discriminating Equation.

Table 4.9 B Summar	y Results	of Stepwi	se Discr	iminant An	nalysis
Variables	Standard	Canonical	Discrim	inant Fund	ction
Employment Status			-		
Income			- <mark></mark>		
Quality of Accommodation	а. м				
Standard of Living			-		
Maternal Age					2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Paternal Age	-		-		- ÷
Family Number			. 44		
Position in Family			_		
Sex			.41	 	
Marital Dissatisfaction			. 68		
Dissatisfaction as a Hou	sewife		. 35	<b>B</b> _	
School Type			-		
Reading Percentile			42		
IQ Total			33		
Malaise Result (Mother's	s mental H	lealth)	-		
Canonical Correlation	.53				
Wilks' Lambda	.72				
Chi-Squared 4	1.56	p < 0.001			

% Classified correctlyDiagnosis78%% Classified correctlyWo diagnosis82%Classified correctlyTotal80%

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Table 4.9 B shows that Marital discord is the most important factor in discriminating between disordered and non-disordered children. As was shown in the previous analysis those children with low IQ and Reading difficulties are more likely to be affected by environmental stresses.

Including Marital Discord in the variables available for selection provides a more robust equation than that obtained by including Parental Dissatisfaction. This is manifested by the higher value of the canonical correlation, showing that 30% of the variance between the two groups is explained by these six variables.

#### DISCUSSION.

As was stated in the introduction numerous studies have established that child psychiatric illness is found more commonly where there is social disadvantage, parental mental illness and marital disharmony. This study confirms these findings. In this discussion we will analyse individual social circumstances and speculate as to how they are related to child psychiatric disturbance directly and through their role in contributing to maternal depression.

The finding that children are twice as likely to be disordered if they are living in a situation other than with married parents is likely to be related to the fact that this situation would have followed on a period of considerable marital disharmony leading to eventual seperation. It also highlights the difficulties involved in rearing children as a single parent. A child whose father was unemployed was twice as likely to be disordered as a child whose father was employed. This may simply be a reflection of low income and its related effects which are discussed later in the text. Many mothers reported unemployment leading to disillusionment and poor self-esteem in their husbands. Lack of money and useful occupation led to incresed tension in the home which may have contributed to marital dysharmony. Poor self-esteem in the father may have left him undermined in his parental role and may lead to inconsistencies in parenting.

The association with IQ and disorder is interesting. Although no significant association is found, it can be seen that there is a trend for those scoring higher on IQ testing to be less likely to be disordered. It is likely that children with higher IQs are better able to cope with adversities in their environment. They are also more likely to succeed in school. Satisfactory achool performance has been shown to be associated with a greater degree of adjustment. (Quinton and Rutter 1984). It has also been shown that children with lower IQ are more likely to live in disadvantaged areas. This also correlates with a higher rate of psychological disorder. Reading Age is also associated with psychological disorder. Those reading 18 months ahead. The suggested reasons for this association are similar to those for IO.

Where a car or telephone was absent a child was twice as likely to be disordered. For mothers at home with children the telephone facilitates contact with adult support. Apart from the convenience 'afforded, it may help to lessen the liklihood of mothers becoming socially isolated. It has been shown that increased social support is associated with protection against depression. It can be speculated that the presence of a telephone, protects mothers against depression, thereby leading to improved parenting, and in turn contributing to less child psychopathology.

Women fitting the 'Advantaged' description women tend to be more cohesive than women living in more disadvantaged areas. They tend to have more money which gives access to cars, telephones, and babysitters. These in turn make it possible for them to spend more time away from children, and allows them time for themselves. This would appear to have the effect of reducing depression and improving parenting.

As is seen in Section 5, the depression referred to in this study is not focussed on genetically determined depression but is focussed on a sociological model. Brown et al (1975) have commented that mothers are more vulnerable to depression if they are at home with children and have poor social supports. Our findings would indicate that those mothers whose social supports are poor are twice as likely to have children with a psychological disorder. Living in a large housing estate is no protection against social isolation. Many women felt unwanted in their

neighbourhood. This feeling seemed to reduce self-esteem and lead to poorer management of their relationship with neighbours. With respect to leisure activities and social contacts, those with low income reported having reduced opportunity for social outlets. It was also found that they tended to manage any opportunity poorly and they did not consciously plan their leisure time. Many were caught in a stressful situation: having insufficient money for food and clothing; the continued feeling of lack of control over their lives and in many cases total dissatisfaction with their lives. Women fitting the 'advantaged' description displayed a 'planful competence' in their lives. They were aware that they needed time for themselves away from the home and imade a conscious effort to break from being 'housebound housewifes'.

It has been seen that those living in rented local authority accommodation tended to be twice as likely to have disturbed children.

A surprising finding has been the lack of association between mothers childhood unhappiness and child disorder. Other studies have , shown that those who have poor parenting themselves tend to have difficulting with parenting. (Quinton and Rutter 1988). This lack of association may be due to faulty retrospective recall and women may idealise their childhood. Brown(1988) has recently reported that present cirucmstances appear to be more important that past experiences. In a study of mothers in Islington he found that women who had unhappy childhoods were more likely to have early unplanned pregnancies and unsatisfactory marriages. However those who had successful marriages and social supports in adult lives tended to be successful parents and were unlikely to suffer from depression. It may be that those women in our study who were in satisfactory relationships at present were less likely to be affected by unhappy childhoods.

The fact that two thirds of women reported total satisfaction with their marriage is interesting . In countries other than Ireland it is found that one third of marriages end in divorce, our findings would show that one third of our group were in unhappy marriages. Overall marital disharmony leads to increased irritability in the home, parents tend to have less shared interests and are less likely to operate as one unit. This tends to lead to inconsistent parenting, parents quarrelling with each other often scapegoat the children. The child who is exposed to marital violence in the home has a 90% chance of being disordered , this could be due to modelling of parental behaviour along with the

other effects of parents quarreling. Parental disharmony leads to frightening situations in the home leading to insecurity and reduced self-esteem in the child. A poor marital relationship is more likely to lead to maternal depression and this in turn leads to greater parenting difficulties and higher rate of child disorder.

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These results concur with the findings in clinical practice of the authors. Children whose mothers are depressed, in unsatisfactory marriages and living in conditions of social deprivation and social isolation are more likely to be disordered. Those children who appear to be most at risk within these situations are - boys; children from larger families and children who score poorly on tests of Reading attainment and IQ assessment. The increased vulnerability of those children who score poorly on tests of IQ and Reading attainment emphasises the need for greater liaison between the school and home. The Department of Education's Home/School Liaison Programme is most important in this regard and we welcome recent promises for it's extension. We would also stress the need for a greater number of Educational Psychologists. These psychologists would be best employed working part-time in schools and part-time in Child and Family Centres.

The vulnerability of those children who perform poorly on formal tests also underlines that teachers and parents should make every effort to boost children's self-esteem through praise and providing them with the opportunities for successful experiences whether this is in academic, sporting or recreational activities.

### 102

#### SUMMARY SECTION FOUR

4.0 The Social and Family Circumstances of 190 Children are examined.

4.1 62 of the Children have a Psychiatric Disorder.

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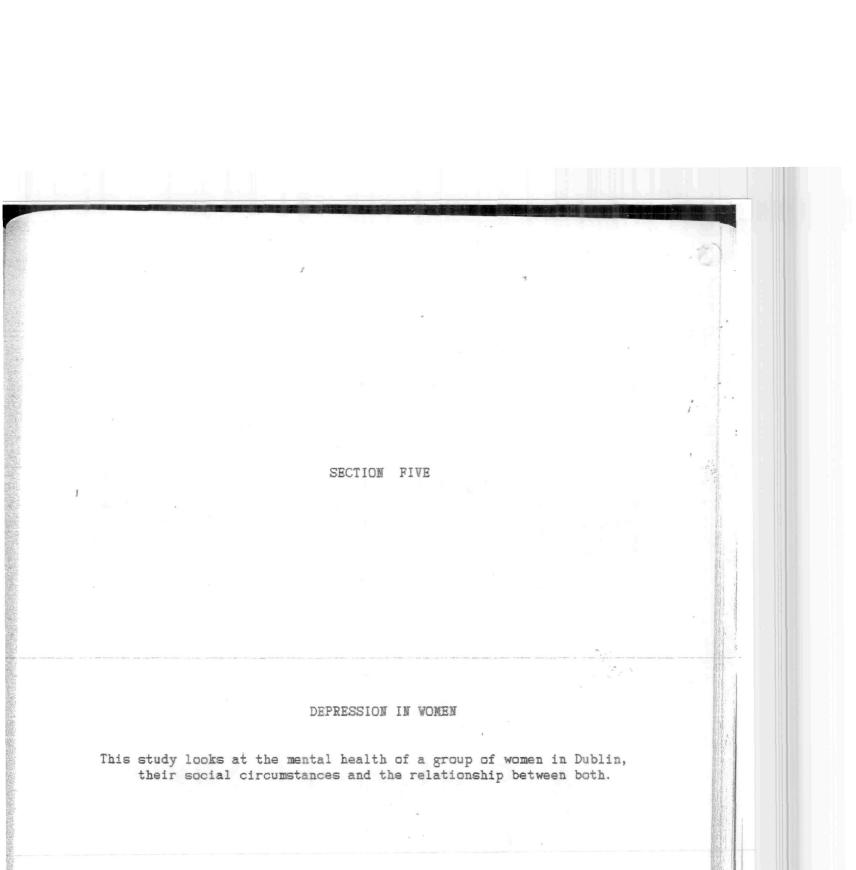
4.2 Child Psychiatric Disorder is associated with mothers social isolation.

4.3 Child Psychiatric Disorder is associated with Parental Disharmony.

4.4 Children whose mothers are depressed are more likely to be disordered.

# SECTION FIVE

# A Psychosocial Study of 190 Mothers



#### INTRODUCTION

Depressive disorders account for more admissions to psychiatric hospitals than any other diagnosis. (O'Connor and Walsh 1986.) More women than men are affected by depression and this seems to be true for both treated and community populations.

Brown et al in their Camberwell study found the incidence of depression among working class women to be 40%. They claimed that depressive conditions are often the result of actiological factors of a directly sociological nature. Shepherd et al found that many mothers attending child guidance clinic saw themselves as suffering from depression and "nerves". In Irish studies Leader found 50% of mothers of pre-school children to be depressed, McNestry et al found 44% of mothers attending a child guidance clinic to be depressed. These Irish studies have concentrated on a population that presented with a problem; i.e child attending child guidance clinic. This present study investigates mothers of children in the community. Prevalence rates of depression in women tends to vary, depending on the age group of the women studied, their marital status and environmental influences. The incidence of depression among married women is higher than among single women, (Radloff, 1975) while divorced and separated women have the highest rates. (Hallstrom, 1973). This study looks at womens social environment, social supports and relationships and discusses the influences these have on depression.

# METHOD

107

The group studied were chosen as part of a larger study on children. All fourth class pupils in schools in one area of Dublin were screened for psychological deviance. A smaller group of children were selected following this screening to include 103 children identified as 'deviant' and 104 as 'non deviant' children provided the control group. The mothers of these children were interviewed in detail in order to ascertain the presence or absence of psychiatric illness in the child, to obtain data on family and social circumstances and also to assesss the mother's mental health. In this part of the study the focus is on the mother's mental health; assessment of child illness will not be described.

The mothers mental state was assessed using the Clinical Psychiatric Interview. This is a standardised semi-structured inventory designed for use in community surveys and in general practice. It is divided into four sections, the first is unstructured and consists of sub headings for brief recordings of the patients present and past medical history. Part two is more detailed and systematically enquires about any psychiatric symptoms which the patient may have experienced during the previous week. The third part of the schedule is unstructured and permits the interviewer to collect just enough information about the patients personal family history as may be deemed necessary to assist her to make a diagnosis. The final section permits the interviewer to record abnormalities observed during the interview on twelve five point scales. The ratings represent the doctor's views of 'manifest abnormalities' that she has observed at interview, as distinct from the patient's symptoms which were already rated in the second part of the interview. The strength of the standardised psychiatric assessment lies in its reliability. The overall reliability co-efficient, derived from the analysis of variance is 0.92(Goldberg and Blackwell, 1970).

Each women also completed the *Malaise Inventory*. This is a twenty four item YES/NO scale which askes questions an different aspects of health and emotion. Five or more affirmative answers are taken as indicative of psychological disorder, in the absence of known physical illness.

Each interview, including the section on child psychiatric state

which was used to make a diagnosis, took two to three hours. All interviews were completed by the same interviewer, a psychiatrist who was trained in the use of the interview schedules. Several interviews 'were observed and rated independently by a second psychiatrist in order to rate interviewer reliability.

In order to examine the association between depression in women and social and family characteristics the Chi-Squared test of significance is used. Discriminant analysis has been used to select the variables which best differentiate depressed women from non depressed women. Stepwise discriminant analysis was used in which variables differentiating the two groups are entered in a stepwise progression, the largest discriminative being entered first. The relavent statistic in these calculation is the Wilk's Lambda. The larger the value of this statistic the smaller the amount of discriminating power is present in

#### RESULTS.

The women came from an area of Dublin which included privately owned and local authority housing. The area includes a cross section of all social classes and is quite typical of other urban areas.

185 mothers were assessed. Ages ranged from 27 years to 59 years, with 90% aged between 30 and 42 years. They all had a child in fourth class in primary school. Most women had two to five children but a number had larger families. Table 5.1

Table 5.1\_

	NUMBER OF CHILDREN O	F THE WOMEN STUDIED.	
No. of 1 2 3 4 5 6 7 9 10 11	children Frequency 3 40 43 44 29 11 4 8 2 1	Valid Percent 1.6% 21.1% 23.2% 23.8% 15.3% 5.8% 2.2% 4.2% 1.1% 0.5%	Cum. Percent 1.6% 23.2% 46.5% 70.3% 85.9% 91.9% 94.1% 98.4% 99.5% 100.0%

157 women were married and living with their spouses, the remaining 28 were widowed or separated. One woman was never married. Table 5.2 shows the material circumstances of the women. The majority lived in houses which they rated as being adequate. 15.3% were rated to be living in overcrowded situations, this was caused by an elderly parent living with them or in 22 cases by a grandchild living in the home.

33.0% of the group live in rented accommodation, most of which was local authority owned. 40% had no telephone and 49% had no car. There wasconsiderable overlap between these two items. 14.7%(27) worked partime and 5.3%(10) worked fulltime. 67% had spouses who were employed and the remainder were living on social welfare assistance. 52.5% reported that they were satisfied with their income.

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## Table 5.2 FREQUENCY OF ITEMS ON SOCIAL QUESTIONNAIRE (material circumstances)

ITEM		FREQUENCY	PERCENT
Accommodation	House Flat	至=185 180 5	97.3%
Tenancy	Owned	124	67.0%
	Rented	61	33.0%
Residential	Adequate	173	91.1%
Stability	Less than adequ	ate 12	8.9%
Kitchen	Adequate	174	94.2%
	Less than Adequa	te 11	5.8%
Bathroom	Adequate	174	93.7%
	Less than Adequa	te 11	6.3%
Lavatory	Adequate	170	91.6%
	Less than Adequa	te 15	8.4%
Heating	Adequate	151	80.5%
	Less than Adequa	1te 34	19.5%
Privacy	Adequate	166	88.4%
	Less than Adequa	ate 19	11.6%
Furniture	Adequate	170	90.5%
	Less than Adequa	ate 15	9.5%
Space	Adequate	158	84.7%
	Less than Adequa	ate 27	15.3%
Care /house	Adequate	165	87.9%
	Less than Adequ	ate 20	12.1%
Satis /house	Satisfied Minor Dissatisf Marked Dissatis Severe Dissatis	fact 10	65.9% 17.8% 8.6% 7.6%
Vacuum	Absent	18	10.1%
	Present	167	89.9%
Washing Macl	h Absent	5	2.6%
	Present	180	97.4%
Fridge	Absent	1	0.5%
	Present	184	99.5%
Cooker	Absent	1	0.5%
	Present	184	99.5%

Table 5.2(con ITEM	nt.)	FREQUENCY		PERCENT
Dishwasher	Absent Present	丽=185 165 20		89.4% 10.6%
Spindryer	Absent Present	121 64		64.0% 36.0%
Telephone	Absent Present	74		40.7% 59.7%
Television	Absent Present	3 182		3.2% 96.8%
Video	Absent Present	66 119	а. 1	34.9% 65.1%
Car	Absent Present	92 93	CONTRACTOR CONTRACTOR OF A DESCRIPTION	49.7% 50.0%
Satis /Incom	e Satisfied Ninor Dissatisf Marked Dissatis Severe Dissatis	fact 25		52.4% 14.6% 13.5% 19.5%

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Table5.3

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140100.0					
		74			40.0%
Leisure Opp	Satisfied				29.2%
	Minor Dissatisfact	54			15.1%
	Marked Dissatisfact	28			15.7%
	Severe Dissatisfact	29			10.76
	Severe Dissacioidad				
		~ ^			43.2%
Leisure Man	Satisfied	80			25.9%
Terear o	Minor Dissatisfact	48			15.8%
	Narked Dissatisfact	30			
-	Maraeu Diservicie	27			14.2%
	Severe Dissatisfact	21			
					56.8%
Leisure Sat	Satisfied	105			20.5%
Leisure Dat	Minor Dissatisfact	38			
	Minor Dissaciateot	19		<i>•</i>	10.0%
	Marked Dissatisfact				12.4%
	Severe Dissatisfact	23			
					79.5%
	acts Satisfied	147			
Social Conta	ACTS DALIBILEY	11			5.9%
	Minor Dissatisfact				8.1%
	Marked Dissatisfact	15			6.5%
	Severe Dissatisfact	12		No. of South Concession, I as the second	and the second
					00 14
	11 +	40			22.1%
Confidant	Absent	141			77.9%
(anyone)	Present	141			
the second second	7 s				
	X P				17.8%
	Absent	33			
Confidant		152			82.2%
(partner)	Present	100			
. 1	25				
					75.1%
- 110	tact Satisfied	1	139		10.8%
Social Cont	Minor Dissatisfact		20		
	Minor Dissatisfact		12		6.5'
	Marked Dissatisfact	,	14		7.6%
	Severe Dissatisfact	;	14		
					57.3%
	Opp Satisfied		106		16.8%
Neighbour	Minor Dissatisfact	t	31		
	Minor Diseatisido		34		18.4%
	Marked Dissatisfa	52			7.4%
	Severe Dissatisfa	ct	14		
					56.8%
	Man Satisfied		105		15.7%
Neighbour	Ran Daulaties	+	29		
-	Minor Dissatisiac	-	35		18.9%
	Marked Dissatisfa	.CT			8.6%
	Severe Dissatisfa	ict	16		
	Bur ver				71.1%
	- i Catiofied		135		
Neighbour	Sat Satisfied	*	18		9.5%
2	Winor Dissatisia		15		8.1%
	Marked Dissatisfa	act			9.2%
	Severe Dissatisfa	act	17		
	Deter -				

Opp = Opportunity; Man = Management; Sat = Satisfaction;

Table 5.3(con	t.)					
ITEN		FREQUE	CY			PERCENT
Childhood	Satisfied	121				65.4%
	Minor Dissatisfact	17			52 L - 2	9.2%
	Marked Dissatisfact	25				13.2%
	Severe Dissatisfact	22				11.9%
Fathers	Always worked	136				77.7%
Employment	Some Unemployment	17			a e e e	9.7%
	Mostly Unemployed	16				9.1%
	Never Employed	6				3.4%
Relatives Opp	Satisfied	107				57.8%
	Minor Dissatisfact	31				16.8%
	Marked Dissatisfact	29				15.7%
	Severe Dissatisfact	18		ang alam ang tanahit ang		9.7%
Relatives Man	Satisfied	109				58.9%
	Ninor Dissatisfact	34				18.4%
	Narked Dissatisfact	29				15.7%
	Severe Dissatisfact	13				7.0%
Relatives Sat	Satisfied	126				68.1%
	Minor Dissatisfact	22				11.9%
	Marked Dissatisfact	23				12.4%
	Severe Dissatisfact	14				7.6%

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			F	ERCENT
Table 5.4		FREQUENCY		
ITEM		N=185		70.2%
	- Li-Stod	120		8.8%
Marital Interest	Satisiied	15		7.6%
		13		13.5%
Narl	red Dissatisfact	23		10.00
Seve	ere Dissatisfact			70.2%
		120		7.0%
Marital Irritabil	ity Satisfied	12		
Marital IIIIou	or Dissatisfact			10.5%
Mor	bod Dissatisiact	18		12.3%
Rai	ere Dissatisfact	21		
5ev	ere prese			73.1%
	Satisfied	125		8,8%
Marital Quarrels	Satisitet	15		7.0%
Mil	nor Dissatisfact	12		11.1%
育a.	rked Dissatisfact	19		
Se	vere Dissatisfact			86.0%
		147		3.5%
I Wiclose	e None	6		
Physical Violenc	Some		and the second	-5.3%
and a set of the set o	Marked	9		5.3%
	Severe	9		
	Deve			70.0%
	C-ticfied	119		7.1%
Responsibility	inor Dissatisfact	12		8.9%
i iii	inor Dissacionaticfac	t 17		11.6%
I.	arked Dissatisfac	+ 22		
2	evere Dissatisfac			64.2%
		122		7.1%
Compatal	bility Satisfied			8.2%
Sezual Compart	linor Dissatisfac	G		11.6%
,	Tarkad Dissatisia	00		11.0%
	Severe Dissatisfa	ct 22		a.a. (06)
				68.2%
	action Satisfied	120		7.4%
Marital Satisi	Ninor Dissatisfac	ot 13		9.1%
	Marked Dissatisfa	act 16		5.7%
	Severe Dissatisf:	act 10	1	
	Severe Dissaulte			62.2%
	Cettofi	ed 115		9.7%
Wanagement of	children Satisfi Winor Dissatisfa	ct 18		14.6%
Na uno	Minor Dissatisfa	act 27		13.5%
	Marked Dissatisf	aur		2
	Severe Dissatist	lact		67.6%
		105		19.5%
Problems/oth	ar child Hone	26		7.0
Problems/oth	Some			
	Marke	d 13		5.9%
	Sever			
	Def we of the local			81.1%
	arent Satisfie	ed 150		13.5%
Satis. as pa	arent Satisii	fact 25		4.9%
Loca of a contract of a	Ninor Dissatis:	cfact 9		0.5%
	Marked Dissati	51200		
	Severe Dissati	51000		tion'
			Sat = Satisfac	07104,
Opp = Oppor	tunity; Nan = N	lanagement;		
Obb = Obbor				

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Ratings of the opportunity, management and satisfaction of leisure activities and social network is shown in Table 5.3. 22% reported having no regular confidant and 7.6% reported severe dissatisfaction with their social contacts. 65% reported having happy childhood with 11.9% having very unhappy childhoods. 77% had fathers who were always employed. A low proportion had fathers who had never been employed.

Table 5.4A

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#### MATERNAL DEPRESSION AND SIGNIFICANT ASSOCIATIONS

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	VARIABLE DE	PRESSION PRESENT	DEPRESSION ABSENT	CHI SQUARE	
	Married	28%	72%		
	Other	60.7%	39.3%	10.057 **	
	Employed	25.6%	74.4%		
;	Unemployed	42.6%	57.4%	4.203 *	
:	Child deviant on B2	25.2%	74.8%		
•	Not deviant on B2	42.7%	57.3%	5.518 *	
	Child psych disorde	r 52.9%	47.1%		
	No psych disorder	20.9%	79.1%	18.72418 ****	
	Child IQ				
	Grade 1	5.6%	94.4%		
	Grade 2	32.3%	67.7%		
	Grade 3	36.6%	63.4%		
	Grade 4	45.5%	54.5%	8.117 ±	
	Child Reading				
		d 17.9%	82.1%		
		ahead 14.3%	85.7%		
		ehind 47.7%	52.3%		
	18 mths behind		67.3%	12,738 **	

MS = Not Significant
#####,### = p < 0.001; ## = p < 0.05;
####</pre>

When assessed with the Clinical Interview 61 women were found to be suffering from a psychiatric disorder. 13 (6.8%) were suffering from endogenuous depression., 16 from anxiety and depression, 24 from reactive depression, 3 were suffering from abnormal grief reactions, 3 from alcoholism and two had personality disorders. As all of these had marked depressive symptoms they were included in the analysis of results. In order to examine the association between depression in women and social and family characteristics the Chi-Squared test of significance is used. Table 5.5 indicates the association between material environment and depression. Satisfaction with housing was significantly associated with mental health. The absence of a telephone or car was significantly associated with depression. Those whose partners were unemployed were more likely to be depressed. However, husbands' satisfaction with his occupation or unemployment had no

114

Table 5.5

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NATERNAL DEPRESSION AND SIGNIFICANT ASSOCIATIONS

	VARIABLE	MAT. DEI	P. PRESENT	MAT.	DEP.	BSENT	CHI-SQUARE
	Income						1
		Satisfied	21.6%			78.4%	
		dissatisfaction	29.6%			70.4%	
	Marked	dissatisfaction	16.0%			84.2%	
	Severe	dissatisfaction	77.8%			22.2%	41.722 ****
	Leisure opp	ortunity	÷ .				
		Satisfied	20.3%			79.7%	
	Tinor	dissatisfaction	16.6%			83.3%	
		dissatisfaction	53.6%			46.4%	
		dissatisfaction	75.9%				41.41 ****
	Devere	: 41994 (1914) (10H	1			63-34 J. 19	27.27
	Leisure ma	nagement					
	Neroure ME	Satisfied	16.3%	an an an Sarahan		83.8%	energianet di serveri internetariante dal
	Winner	dissatisfaction				70.3%	
		dissatisfaction				53.3%	
							33.62 ****
	Severe	dissatisfaction	74.1%			63.9%	00.02 2255
	-						
	Leisure Sat						
		Satisfied	15.2%			84.8%	
		dissatisfaction	42.1%			57.9%	
	Marked	dissatisfaction	42.1%			57.9%	
	Severe	e dissatisfaction	91.3%			8.7%	52.50 ****
	Social Cont	acts opportunity					
		Satisfied	21.8%	7	8.2%		
	Minor	dissatisfaction	72.7%	2	7.3%		
	Marked	dissatisfaction	66.7%	3	3.3%		
	Severe	dissatisfacti	91.7%		8.3%		42.62****
					î.		
	Confidant	(partner)		,			
5 °	and the set of the set	Absent	60.0	9/	40.	0%	
		Present	25.5		74.		15.18****
		and any star sport store sport SP		1951.0			
	Confidant	(anyone)					
	ter ter anvær en tidtet de til	Absent	63.	6%	36	. 4%	
		Present	26.			. 7%	15.44 ****
		a a to conside te	and the second sec			27	
	Catiofanti	on with social con	tacts				
	DALISIACLI	Satisfie		2%	7	9.9%	
			45.			5.0%	
		dissatisfaction				5.7%	
		d dissatisfaction	83.			0.0%	53.89****
1.15	Sever	e dissatisfaction	100.	10		V + V/#	00,0 <u>2</u> 0000
	NS = Not S					10	
	**** *** =	p < 0.001 ; ##	= p < 0.01;	₽ =	p < 0	.05 :	

Table 5.5         MATERNAL DEPRES           VARIABLE         DEPRESSION		IGNIFICANT ASSOCIATIC DEPRESSION ABSENT	CHI SQUARE
Accommodation			<i>F</i>
Adequate	32.2%	67.8%	
Not Adequate	60.0%	40.0%	0.67412 NS
Tenancy of home			
Owned	25.0%	75.0%	
Rented	49.2%	50.8%	9.750 **
Privacy of home			
Adequate	29.8%	70.2%	
Not Adequate	64.7%	35.3%	7.022 **
Household Care			
Adequate	29.9%	70.1%	
Not adequate	61.1%	38.9%	5.803 *
Housing			
Satisfied	21.3%	78.7%	
Ninor dissatisfaction	48.5%	51.5%	
Marked dissatisfaction	43.8%	56.3%	
Severe dissatisfaction	85.7%	14.3%	29.561 ****
Telephone			
Absent	49.4%	50.6%	
Present	21.3%	78.7%	14.764 ***
Car			
Absent	41.5%	58.5%	
Precent	24 2%	755 8%	5 512 8

#### Table 5.5(cont)

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## NATERNAL DEPRESSION AND SIGNIFICANT ASSOCIATIONS

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VARIABLE MAT. DEP.	PRESENT	MAT. DEP. ABSENT	CHI-SQUARE
Neighbourliness opportunity			
Satisfied	25.5%	74.5%	f -
Minor dissatisfaction	25.8%	74.2%	
Marked dissatisfaction	44.1%	55.9%	
Severe dissatisfaction	78.9%	21,1%	18.50 *** '
Weighbourliness management			
Satisfied	23.8%	76.2%	
Minor dissatisfaction	31.0%	69.0%	
Marked dissatisfaction	42.9%	57.1%	
Severe dissatisfaction	75.0%	25.0%	18.37 ***
Neighbourliness satisfaction			
Satisfied	25.2%	74.8%	
Minor dissatisfaction	27.8%	72.2%	
Marked dissatisfaction	53.3%	46.7%	
Severe dissatisfaction	82.4%	17.6%	25.49 ****
Childhood Experience			
Satisfied	27.3%	72.7%	
Minor dissatisfaction	41.2%	58.8%	
Marked dissatisfaction	44.0%	56,0%	
Severe dissatisfaction	45.4%	54.6%	5.222 MS
Nothers' Fathers Employment			
Always employed	28.7%	71.3%	
some unemployment	29.4%	70.6%	
mostly unemployed	62.5%	37.5%	
never employed	33.3%	66.7%	7.58 IS
Relatives contact oppportunity	Ĩ		
Satisfied	22.4%	77.6%	
Minor dissatisfaction	29.0%	71.0%	
Marked dissatisfaction	48.3%	51.7%	
Severe dissatisfaction	77.8%	22.2%	25.02****
Relatives contact management			
Satisfied	22.0%	78.0%	
Minor dissatisfaction	35.5%	64.7%	
Marked dissatisfaction	62.1%	37.9%	
Severe dissatisfaction	53.8%	46.2%	19.67 \$**
Relatives contact satisfaction	2		
Satisfied	22.2%	77.8%	
Minor dissatisfaction	40.9%	59.1%	
Marked dissatisfaction	56.5%	43.5%	
Severe dissatisfaction	78.6%	21.4%	26.16 ****
MS = Mot Significant			
****, *** = p < 0.001 ; ** = j	p < 0.01;	≇ = p < 0.05 :	and the second of the second sec

When social network is assessed a most interesting picture emerges. Table 5.6 shows that lack of opportunity , poor management and disatisfaction with all social outlets is significantly associated with depression. 75% of women who never had time with friends or at hobbies were depressed compared with 20% of women who had ample opportunity for leisure pursuits. 91% of women who were severely dissatisfied with their leisure activities were depressed compared with only 15% who expressed total satisfaction with their leisure activities. 63% of those with no confidant were depressed compared with 26% of those with a confidant. All the women who were severely dissatisfied with their social contacts were depressed, while only 20% of those totally satisfied with social contacts were depressed.

115

The association between poor neighbourliness and depression is significant, with the woman's satisfaction with '

Table 5.6

MATERNAL DEPRESSION AND SIGNIFICANT ASSOCIATIONS

VARIABLE MAT. D	EP. PRESENT	MAT. DEP. ABSENT	CHI-SQUARE
Marriage Interests			
Satisfied	22.5%	77.5%	I. T
Minor dissatisfaction	33.3%	66.7%	
Narked dissatisfaction	46.2%	53.8%	
Severe dissatisfaction	65.2%	34.8%	18.07*** '
Narriage Irritability			
Satisfied	20.8%	79.2%	
Minor dissatisfaction	41.7%	58.3%	
Marked dissatisfaction	38.9%	61.1%	27.02 ****
Severe dissatisfaction	76.2%	23.8%	61.46 \$***
Marriage Quarrrels	24.0%	76.0%	
Satisfied	33.3%	66.7%	
Minor dissatisfaction	50.0%	50.0%	
Marked dissatisfaction	63.2%	36.8%	14.11 **
Severe dissatisfaction	00.28	an a	an an anna a' a' ann ann an an a' a' anna an an a' a' a' anna a'
Marriage Physical Violence			
None	26.5%	73.5%	
Some	50.0%	50.0%	- A Start
Narked	44.4%	55.6%	
Severe	22.2%	77.8%	12.35***
Marriage Sharing of Responsib	ilty	(70 A#	
Satisfied	61.06	79.0%	
Minor dissatisfaction	41.7%	58.3%	
Marked dissatisfaction	41.2%	58.8%	24.84 ****
Severe dissatisfaction	72.7%	27.3%	27.07
Marriage Sexual Compatability	23.8%	76.2%	
Satisfied	16.7%	83.3%	
Minor dissatisfaction	50.0%	50.0%	
Marked dissatisfaction	63.6%	36.4%	17.56 ***
Severe dissatisfaction	00,00		
T dia Dienning			
Marriage Family Planning Satisfied	26.5%	73.5%	
Minor dissatisfaction	31.3%	68.8%	
Marked dissatisfaction	29.4%		
Severe dissatisfaction	70.0%	m 0 0 44	8.25 #
Severe dissatisization			
Summary Marital Discord			
Summary Maintai Disting	20.8		
Minor dissatisfaction	53.8		
Marked dissatisfaction	43.8		01 0 <u>02222</u>
Severe dissatisfaction	80.0	% 20.0%	24.82****
MS = Mot Significant			and the same stargetime theory of a start of a
NS = Mot Significant ****,*** = p < 0.001 ; ** =	= p < 0.01 ; *	= p ( 0.00 ;	

34.994

Table 5.6(cont)

MATERNAL DEPRESSION AND SIGNIFICANT ASSOCIATIONS

	VARIABLE	MAT.	DEP,	PRESENT	MAT.	DEP.	ABSENT	CHI-SQUARE	
	Management of children			,					
	Satisfied	L		16.5%		83.5	1/2		
	Ninor dissatisfacti	an		66.7%		33.3	of a		
	Marked dissatisfact	ion		51.9%		48.1	%		
	Severe dissatisfac	tion		64.0%		36.0	01	38.57***	
					т. Т				
	Problem with other child	ren							
	Hone			20.0%	6	80.	0%		
	Some			47.2%	6	52.	8%		
	Marked			84.6%	6	15.	4%		
	Severe			72.79	6	27.	3%	36.37****	
	Satisfaction as parent								
	Satisfied			26.0	1.	73	. 0%		
	Minor dissatisfacti	cin		48.07		52	. 0%		
	Marked dissatisfact			0.02	6	100			
in an energy and a second	Severe dissatisfact	ion	and an 1 of a	0.09	0	100	. 0%	26.18****	
]	Number of children								
	5 or less			31.6	5%	6	8.4%		
	6 or more			39.4	1%	6	0.6%	0.44 NS	
								151	

NS = Mot Significant \*\*\*\*,\*\*\* = p < 0.001 ; \*\* = p < 0.01 ; \* = p < 0.05 :

# Marital and Family Relationships.

No significant association was found between family size and maternal psychiatric illness. Those with 5 children or less were as likely to suffer from depression as those with 6 children or more. Table 5.6 shows that all aspects of marital disharmony are associated with depression. Using a summary rating, 80% of those with severe marital disharmony were depressed compared with 20% of those with satisfactory marital relationship.

Situational handicaps to child management, the presence of serious difficulties in children other than the index child, and dissatisfaction as a parent, were highly significantly associated with depression.

The Malaise Health Questionnaire is a 24 item self rated questionnaire that covers aspects of physical and emotional state. It consists of 24 items with Yes/No answers. Of the 185 women studied 115 scored less than 5, and the remainder 70 scored 5 or more which is indicative of pathology. A high correlation was found between a positive score on the Malaise and a diagnosis on The Clinical Interview, r = .74. Table 5.11 shows the frequencies of affirmative answers on the Malaise Questionnaire.

117

The results of this self-rating questionnaire indicate the amount of stress the mothers are under. There is a high level of anxiety with almost half stating that they often worry and almost one third 'suddenly become scared for no good reason.' The high scoring on somatic items could manifest possible psychosomatic symptoms, a high percentage had backache palpitations and headache. Over one third describe feeling

Table 5.11 FREQUENCY OF AFFIRMATIVE ITEMS ON MALAISE SELF-RATING QUESTIONNAIRE. N 185 %Freg. 66% Do you often have backache? Do you feel tired most of the time.? 36% 24% Do you often feel miserable or depressed? 30% Do you often have bad headaches? 48% Do you often get worried about things? Do you usually have great difficulty in falling 31% asleep or staying asleep? Do you usually wake unnecessarily early in the morning? 15% Do you wear yourself out worrying about your health? 6% Do you often get into a violent rage? 25% 36% Do people often annoy and irritate you? Have you at times had a twitching of your face, head or shoulders24% 31% Do you suddenly become scared for no good reason? 23% Are you scared to be alone when there are no friends? 45% Are you easily upset or irritated? Are you frightened of going out alone or of meeting people? 14% 24% Are you constantly keyed up and jittery? 15% Do you suffer from indigestion? 21% Do you often suffer from an upset stomach? 15% Is your appetite poor? Does every little thing get on your nerves and wear you out? 13% 45% Does your heart often beat like mad? 24% Do you often have bad pain in your eyes? 27% Are you troubled with rheumatism or fibrositis? 12% Have you ever had a nervous breakdown?

Table 5.7 shows the correlations of items on the social questionnaire with one another. Summary variables were used in order to reduce the number of variables involved. As only 28 women were not married they were excluded from this analysis. Other women excluded were those on whom information was incomplete. 146 in all were included in this analysis.

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Table 5.7 Correlations of Variable on Social Questionnaire (1)

Empstat Income IncDisat QualAc HseAdeq FamMo Mardis RelDis Pardis

EmStat 1.0039**	,26*	-,45**3	3** .18	.35** .08	. 36**
Income 40** 1.00	-,4388	.45** .2	8** .01	33**	28**
InDisat .26*43**	1.00	-,428* -,2	9** .12	.24* .05	.17
QualAc45** .45**	4288	1.00 8	084 - 90*	8 02×× 44	

Discriminant Analysis.

Before discussing the findings of this analysis it is worth describing this procedure in some detail. Discriminant analysis is a multivariate analysis which essentially attempts to identify from a range of variables a linear combination of variables which best distinguishes between two categories of cases. As a statistical device discriminant analysis not only selects the variables which best discriminate between the two groups but also provides an estimate of the strength and direction of the discrimination.

Stepwise discriminant analysis is used in which the variables differentiating the two groups are entered in a stepwise progression. The order in which variables are entered is decided by that variable that minimises the value of the Wilks' Lambda statistic, thereby maximising the variance explained by this variable and minimising the unexplained variance. This stepwise progression continues until the addition of a further variable will not add anything to the value of the discriminating equation. At this stage we have an equation based on a number of variables which best distinguishes between the two groups. The smaller the value of the final Wilks Lambda the greater the amount of discriminating power is present in the variables included in the group. A canonical correlation value is calculated for these variables. This operates similarly to multiple regression variable in that the square of the value provides the proportion of the variance of the discriminant function which is explained by the variable groupings included in the

Table 5.8	Corr	elations of	Variable on	Social	Questionna	ire (1)
	Leisure	AvalConf	SexChld	TotB2	MatPsych	ChldPsych
Empstat	.22≉	12	.16	.15	.01	.22#
Income	. 34**	.11	. 04	.30**	.19	-,22#
IncDisat	.51**	. 02	.01	.11	.20	.20
QualAc	32**	.03	02	20	17	30**
HseAdeq	22	. 08	. 02	14	17	32**
Fammo	. 09	11	06	.14	. 05	. 28**
Mardis	,27卷章	33**	. 03	,22*	. 23*	. 443*
RelDis	.24*	25*	02	. 06	.23\$	.10
Pardis	.25*	-,3488	03	.33**	, 32**	. 48**
Leisure	1.00	19	11	.18	.31#*	. 14
AvalConf	19	1.00	.06	13	14	16
Sex	11	. 06	1.00	22*	05	18
TotB2	.18	13	22*	1.00	. 17	.46**
MatPsych	.31**	14	05	.17	1.00	.24*

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analysis. Finally the Standard Canonical Discriminant Function is calculated to show the relative contribution and direction of effect of the individual variables.

The two categories analysed were those women with a psychiatric diagnosis and those without a psychiatric diagnosis. 15 variables were included in the analysis, Table 5.10. Some of these were summary values of a number of related variables. Table 5.7, 5.8 show the correlations of these variables with one another. As Marital Dissatisfaction and Parental Dissatisfaction were highly correlated (r = .73) two seperate analyses were performed, one including Marital Dissatisfaction and excluding Parental Dissatisfaction and the other included the latter and excluded the former. The results of both analyses are reported. Two measures of Maternal Psychiatric illness were available, the Malaise score and result of Clinical Psychiatric Interview. As there was a high correlation between them (r = .75) the Malaise seemed more suitable in the analysis. The clinical interview gave a Yes/No result, where results of Malaise varied from 0 to 24.

157 cases were processed for the analysis. 28 who were 'not married at present' were excluded from the analysis. 17 others were excluded as they had at least one missing discriminating variable. Of the 140, 33 had a diagnosis. Table 5.9A shows the steps in which variables are included in the discriminating equation. (Parental Dissatisfaction included). The addition of variables stopped at Income as the addition of a further variable would not have added anything to the value of the

discriminating equation. The canonical function of .44 shows that almost 25% of the variance between the two groups is explained by these five varibles. 74% of those without a diagnosis and 67% of those with a diagnosis are correctly classified using these variables as predictors.

122

Table 5.9A Variables included in Discriminating Equation.

Action	Wilks'	a and a state of the	
Step Entered Removed	Lambda	Sig.	
1.Pardisat	.9112	. 0004	
2. Leisure	.8551	.0000	
3.EmpStat	.8312	.0000	
4.Reldisat	.8176	.0000	
5. Income	.8060	.0000	
Canonical Function	Wilks' Lambda	Chi-Squared	D.F. Sig.
.4403835	.8060	29.213	5 .0000

Variable Women with Psychiatric Diagnosis. Husbands Employment Status -,51 Income -.30 Income Dissatisfaction Quality of Accommodation Dissatisfaction as a Housewife Family Number Standard of Living Dissatisfaction with Neighbours Dissatisfaction with Relatives .33 Dissatisfaction as Parents .65 .50 Dissatisfaction with Leisure Available Confident Sex of Child Child's Total B2 score . 44 Canonical Correlation .80 Wilks' Lambda 29.21 Chi-Square <.0001 P 67% Diagnosis+ %classified correct 74% %classified correct Diagnosis-72% %classified correct Total

123

Table 5.10A Summary Results of Stepwise Discriminant Function Analysis.

Table 5.10A shows that an equation based on five variables maximally, distinguishes between those women who have a psychiatric diagnosis and those who do not, and it correctly classifies 72% of cases. Examination of the discriminant function coefficients show that, in order of importance, those most likely to have a diagnosis are:

1) those who score highly on Dissatisfaction as parents. This is a summary value of situational handicaps to child rearing, problems with children other than the index child and dissatisfaction as a parent.

2) those whose husband's are unemployed.

3) those who score highly on Dissatisfaction with Leisure. This is a summary value for opportunity, management and satisfaction with leisure.

4) those who score highly on Disatisfaction with Relatives. This is a

As stated earlier, Parental Dissatisfaction and Marital

Dissatisfaction are highly correlated (r = .73). If both were included in the same analysis the discriminating power of one would be cancelled out by the other and only one would appear in the final equation. As both variables have been shown to be highly significantly associated with depression using Chi-squared test of significance, Table 5.6, two analyses have been performed, including these variables seperately. A second discriminant analysis was performed using the same variables as above , but substituting Marital dissatisfaction for Parental Dissatisfaction. Results obtained are shown in Table 5.9B and 5.10B.

Action	Wilks				
Step Entered Removed	Lambda	Sign.			
1.Leisure	.91	. 0004			
2. MarDisat	. 89	. 0003			
3. Empstat	.87	.0003			
4. RelDisat	. 85	.0004			
5. TotB2	.84	.0004			
6. Income	. 84	.0007			
Canonical Function	Wilks' Lambda .8405	Chi-Squared 23.449	D.F. 6	Sign. .0007	

Table 5.9B Variables included in Discriminating Equation

Leisure = Summary value of dissatisfaction with opportunity, manangement and satisfaction of Leisure activities. MarDisat = Summary value of Marriage items. Empstat = Husband's employment status RelDisat = Summary value of dissatisfaction with opportunity, manangement and satisfaction with contact with relatives. TotB2 = Childs score on B2.

126

Table 5.10B Summary Results of Stepwise Discriminant Function.

	Variable	Women with Psychiatric Disorder
9	Employment Status	48
	Income	25
	Income Satisfaction	— —
	Dissatisfacton as a Housewife	-
	Family Number	-
	Standard of Living	-
	Dissatisfaction with Neighbours	-
	Dissatisfaction with Relatives	.36
	Dissatisfaction with Marriage	. 41
	Dissatisfaction with Leisure	.50
	Available Confident	
	Sex of Child	-

Dissatisfaction is excluded from the included variables the discriminating power of Child's B2 increases. This equation is less robust than the previous one, with these six variables explaining 16% of , the variance between the two groups, however these variables as predictors of women mental health will correctly classify 71% of cases. The importance of social relationships and income is evident.

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#### Discussion.

130

33% of the women studied were found to be suffering from a psychiatric disorder. This is a much higher rate than would be expected in the general population, but can be explained by the nature of the group studied. The women in this study are selected in such a way that they are not typical of the general population. They are aged betwen 28 and 50 years, were all but one married at some time and all had at least one child. 37% of the women had a child with a psychiatric disorder, where the expected rate in the general population would be 25% This rate is similar to that found by other authors who have assessed the prevalence of depression in selected groups of women, such as mothers of attenders at child guidance clinics(Rutter 1970, Leader et al 1985) and

income is the important factor here rather than unemployment as such. A low family income is associated with lack of facilities such as telephones, cars, and babysitting facilities leading to greater social isolation. The finding that many women from local authority housing were socially isolated has been reported elsewhere (McGee and Fitzgerald 1988) and is confimed in this study. This has been extensively discussed in Hannah Gavron's (1966) research on "Captive Wives". She pointed to the myth of working class cohesiveness, social embeddedness and solidarity in relation to the young mothers she studied. It was instead, she suggested, upper class women who enjoyed a wide circle of supportive friends. Many of the women in our study lived in new housing developements where opportunities for local social interaction have not yet been fully developed and there is little sense of neighbourhood identity. Those living in local authority housing that was built in the previous five years were much more likely to be depressed than those living in older housing estates. It was also apparent that women in newer housing estates that were built near older estates had a lower rate of depression. This is to be expected. Local authority houses tend to be built without providing adequate social supports. Schools and churches were built initially but shops, community centres and social facilities are not built for some years. It appeared in this study that it took ten years for a network of social supports to develop within a housing estate, and once this developed an improvement in mental health was evident. A noticeable effect on local authority housing estates was the £5.000 surrender grant. This was a grant offered to tenants who vacated a local authority house and bought a private dwelling. Tenants

were required to be in fulltime employment before they were entitled to such a grant. A large proportion of eligible tenants availed of this grant, these tended to be the more successful and resourceful in the community. The result was to leave the unemployed and often the more dependent in the estates, this reduces the cohesiveness that had formed and tends to group multiproblem families together.

The importance of social support and specifically the presence of a confiding relationship is very evident. Brown et al (1986) have shown that social support at the time of an important loss or disappointment reduces the chances of developing depression. Some authors have failed to find such a link (Henderson et al 1981) and have speculated that what is primarily involved in such findings is the misperception of 'adequate' support as 'inadequate' on the part of those

who go on to become depressed. In other words what actually

and management of social relationships would point a real protective effect in adequate social relationships. It is interesting to speculate as to how social supports work. Cohen and Willis (1985) have suggested the use of two models to explain the impact of social support, the 'main effect' and the 'buffering' models. The 'main effect' model is considered to operate irrespective of any stress; it offers general health protection by increasing the individuals sense of overall wellbeing. The 'buffering' model applies only to individuals who are exposed to stress: social supports are hypothesized to protect. individuals from the effects of stress. Both these models can be applied to this study. The 'middle class' women tended to have less stress in their lives, social supports provided an improvement in general wellbeing and could be claimed to improve self esteem. This has an effect of making the woman feel more competent and she is in a better position to plan her life effectively. For those women with stress in their lives, and many of the women had the constant stress of lack of money, marital problems and difficulties with their children, social support acted as a buffer against these stresses. Women without social support are likely to have a poor self esteem; continual stress without social support leaves them unable to cope and leads to the developement of 'learned helplessness'. As Seligman (1975) has pointed out this leads to depression which is particularlyy likely when the woman feel she has no control the stress in her life. (Abramson et al 1978)

The lack of any association between unhappy childhood experiences and adult depression is interesting. This may well be due to a tendency to idealise one's childhood, this is unlikely, as over one third reported having unhappy childhoods. As Brown has recently found (1988), women who experience rewarding relationships in adult life are less likely to become depressed even if they have had unhappy childhoods. Women who reported having unhappy childhoods and unhappy marriages were more likely to be depressed than those who had unhappy childhoods but now have happy marriages.

135

Discriminant analysis shows that those women most at risk are those who are socially isolated, in unsatisfactory marriages and have low

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# SUMMARY SECTION FIVE

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5.0	185 mothers are assessed for Psychiatric Disorder.
5.1	Their material circumstances and social and family environments
	are assessed.
5.2	33% of the mothers studied had a Psychiatric Disorder.
5.3	30% of the mothers studied were depressed.
5.4	Depression was significantly associated with low income
5.5	Depression was significantly associated with social isolation.
5.6	Depression was significantly associated with Marital Discord.
5.7	Depression was significantly associated with difficulties with
	children and dissatisfaction as a parent.
5.8	Women with low income tended to be more likely to be socially
	isolated than other women.

136

## MAIN FINDINGS AND RECONNENDATIONS.

The high prevalence of disorder in children , the association of behavioural disorder, poor reading attainment and lower IQ scores with social disadvantage prompts the following recommendations.

1. Parents are underestimating their childs problems and they should be made aware of this.

2. Few children or mothers who were identified as suffering from a psychological disorder were receiving any treatment for this. General Practitioners and Social Workers need to identify and recognise illness in both mothers and children. Teachers need to be able to recognise psychological disturbance in children.

3. Lack of adequate social support was significantly associated with both mother and child morbidity. The establishment of 'Drop-In' Centres within

6. There is a need for quality child care and day care. A most valuable area where financial resources could be increased is in the area of high quality cognitively orientated pre-school curriculum. This combined with parental training for behaviourly disturbed 3 and 4 year olds has been shown to produce economically efficient gains. By the age of 21 children on this programme tend to stay in fulltime education longer, are less likely to be arrested and are less likely to be on social welfare,

7. New housing estates should be built close to old ones in order to facilitate social linkage. Shopping centres and community facilities should be built at the same time as the new housing estates. It is the newest housing estates which have been built at a distance from other estates that have the highest rates of psychological disorder.

8. There is a need for review of The Department of Education's policy of granting concessionary teachers to schools in socially disadvantaged areas. There is a need to provide more concessionary teachers in 'disadavntaged' areas.

9. There is a need to mix pupils from socially advantaged and disadvantaged homes in schools and a need to mix private and public accommodation.

10. There is a need for increased emphasis on remedial education.

11. The use of psychotherapeutic groups for conduct disordered children within the school setting should be explored.

12. There is a need for an increase in the number of educational psychologists. These psychologists would be best employed working part-time in schools and part-time in Child and Family Centres.

13. Recent promises by the Department of Education to expand the existing Home-School Liaison Programme are welcomed and encouraged.

14. As child morbidity is associated with maternal psychiatric illness and marital disharmony then the early recognition and treatment of these problems will prevent the development of child difficulties.

15. Childhood psychological problems have a multifactorial aetiology, In treatment it is not sufficient to treat the child alone, it is important to address other critical factors such as family disharmony and parental mental illness.

18. Professional and voluntary agencies must help people to develop a sense of control of their lives and reduce the sense of learned helplessness that sometimes pervades socially disadvantaged areas.

3

19. There is a need for greater liaison between the Departments of Justice, Health and Educaton.

#### 141

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143

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