Mental and physical deviations of children: report of the committee consisting of Sir Douglas Galton (Chairman), Dr. Francis Warner (Secretary), Mr. E. W. Brabrook, Dr. J. G. Garson and Dr. Wilberforce Smith.

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British Association for the Advancement of Science.

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Mental and Physical Deviations of Children.—Report of the Committee, consisting of Sir Douglas Galton (Chairman), Dr. Francis Warner (Secretary), Mr. E. W. Brabrook, Dr. J. G. Garson, and Dr. Wilberforce Smith. (Report drawn up by the Secretary.)

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The Committee, acting in conjunction with a committee appointed for the same purpose by the International Congress of Hygiene and Demography (1891), in presenting their third report are able to give a further account of the 50,000 children seen individually during the years 1892-94.

The methods of observation and the points observed were fully described in our first report. Analysis of the points observed in each child affords material for the arrangement of groups of cases, prepared by established actuarial processes, their distribution, and their co-relations, and enables us to give results of scientific interest and importance, and also to give evidence on questions concerning the education of children and their control by the State.

We proceed to give the results of research among the 8,941 cases (boys 5,112, girls 3,829) of whom notes were taken as to the points in

which they were below the average in bodily or mental status.

As a step towards ascertaining the causation of defects, and the most probable means of removing them, we have arranged the children

in twelve groups of schools presented in Table I., which gives the 'numbers seen' and 'the numbers noted' in each group of schools respectively, and the special defects they presented. It is thus possible to ascertain the relative frequency of each defect among the boys and girls

of the nationalities and social classes, &c.

The numbers of cases presenting individual defects, when distributed among the nationalities and social classes, &c., are comparatively small for the general purposes of research it appears more satisfactory to deal with groups of cases presenting the main classes of defects. For this reason the Committee have bestowed much labour on preparing a general but exact analysis of the facts in hand, dealing principally with the distri bution and co-relations of the main classes of defects, leaving for future work the study of similar relations among the individual signs in such classes.

There are four main classes or divisions into which the defective con

ditions observed may be grouped.

A. Defects in development of the body and its parts-in size, form, of proportioning of parts.

B. Abnormal nerve-signs: certain abnormal actions, movements, an

balances.

C. Low nutrition, as indicated by the child being thin, pale, or delicated

D. Mental Dulness.—The teacher's report as to mental ability was adde to the record of each child noted, and those stated to be backward below the average in ability for school work were entered as 'dull.'

The relative distribution of these classes of defects is shown in Tab II., which also gives the combinations in which they occur, and their pe centages upon the numbers of children seen and the numbers noted. It: by studying the distribution and the co-relations of these groups that ne information is most readily obtained.

Among the children who present some degree of defect those are pr bably in best condition who present only 'one main class of defects,' who those with four classes of defects are often so deficient as to need speci care and training. The numbers and percentages of these groups are all

given in Table II.

A full statement of the facts observed has been prepared for ear publication by the committee with whom we are allied, which enab us to make certain general statements upon which their report will affor

detailed evidence.

Defects in development of the body are more frequent among be than girls—in the proportion of 8.7 to 6.8. A marked exception to the rule is in the cases of small cranium, which are much more freque among girls: this defect appears to some degree endemic in neighbourhoods of large buildings. It is less frequent among Irish children, who in other particulars present many noteworn points.

Of the cases with defect in development (A), 16.2 per cent. of the bo and 26.4 per cent. of the girls were pale, thin, or delicate; and 38.4 cent. of the boys and 45.0 per cent. of the girls were reported as dull.

These facts serve to illustrate the importance of presenting all w statistics separately for males and females. The greater harm that ress from defect of body among girls is shown by the fact that 65.3 per co of the boys and 72.5 per cent. of the girls presented other conditi of defectiveness. The evidence accumulated shows the importance

ooking to the four main classes of defect in each case. It has not been possible in our examinations conducted in schools to use anthropometric nethods to any extent, but new information has been supplied upon an extended basis of observation as to the significance of deviations from the normal proportioning of the bodily development.

It has been fairly established by observation, independent of argunents derived from other sources, that the 'nerve-signs' recorded in this nvestigation correspond to disordered brain conditions, such as produce

n their mental function dull and backward children.

Of cases with 'nerve-signs' 41.5 per cent. of boys, 42.6 per cent. of girls were reported as dull; of development defect with 'nerve-signs,' 45.1 per cent. of boys, 51.6 per cent. of girls, were reported as dull. Ill-proportioned bodies with motor indications of disorderly or slowly acting brains are very apt to be dull mentally. In these facts we find further evidence of a physical basis of mental action and expression. The propositive that the children reported by the teachers as dull were backward shildren is indicated by the large proportion of them found to be over age for the class or educational standard in which they had been placed a school.

In Table I. is given a class, 'G. Exceptional Children.' This includes all children whose physical or mental conditions show them to be obviously to a permanent disadvantage therefrom in social life. This group includes diots, imbeciles, 'children feebly gifted mentally'; children mentally exceptional or deficient in moral sense; epileptics and children with listory of fits during school life; dumb children and all children crippled, leformed, maimed, or paralysed. All these exceptional children need to be considered individually: they form about 1.5 per cent. of the school

opulation.

Reviewing the work of which we thus give a brief account, it may be tated that the object has been to furnish a reliable statement of the onditions observed among children seen in schools. The inquiry commenced in 1888, and 100,000 children in all have been examined and eported on. The points worthy of note have been defined and numerated; the children have been distributed in groups according to he combinations of points they presented, and classified in other ways, acluding special particulars as to the children with mental or other efficiency, the numbers in each class being recorded. The methods of eporting and preparing statistical statements have been carefully elaboated and systematised.

Information has from time to time been supplied to the Government epartments and other public bodies as to the provision needed for dull nd backward children; the classification of children in schools providing econdary education; children in Poor Law schools and other institutions,

nd on other important questions.

It is hoped that the scientific classification of children and enumeraion of conditions existing among them will lead to the adoption of means f social improvement, and we recommend the continuation of such equiries in other parts of the country.

The Committee desire to be reappointed, and ask a grant in aid of

he work.

Table I.—Showing the Numbers of the Main Classes of defects of noted distributed in Groups of Schools represent

	School Groups I. to XII.		London Board Schools English Children Upper Social Class		London Board Schools English Children Average Social Class		London Board Schools English Children Poorer Social Class		London Board Schools Jewish Children
		Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys
Number of children seen	26,287 5,112	3,713 3,829	4,800 838	4,316 679	6,113 1,159	5,628 944	6,242 1,155	5,213 863	1,368 249
A. Cases with defect in Development alone or in combination 1 Cranium defective 2 ", large 3 " small 4 " bossed 5 Forehead defective 6 Interfrontal ridge 7 Cranium asymmetrical 8 Dolichocephalic 9 Hydrocephalic 10 Other types of cranium 11 External ear defective 12 Eyelids with epicanthis 13 Palate defective in form 14 " narrow 15 " V-shaped 16 " arched 17 " cleft 18 Other types of defective palate 19 Nasal bones wide, sunken 20 Growth small ; stature short	2,308 806 107 149 323 53 121 27 26 2 11 364 288 496 276 179 30 12 — 155 271 250	1,618 611 13 516 47 23 19 2 2 103 190 310 163 110 22 13 153 328 212	69 30 3 2 ————————————————————————————————	272 74 2 61 5 2 3 1 21 45 71 42 2 4 3 2 - 15 58 42	510 159 19 27 59 14 27 8 5 — 69 63 131 72 43 13 4 — 42 65 60	385 142 4 127 10 6 5 1 222 400 777 388 29 4 5 - 31 79 38	548 200 31 52 65 10 22 10 7 1 6 73 79 97 55 35 4 3 — 37 68 58	391 173 3 155 6 3 3 1 2 - 24 41 55 27 22 4 2 - 49 105 40	126 55 6 12 29 2 5 1 29 5 1 29 5 9 12 15
B. Cases with Abnormal Nerve-signs alone or in combination 43 General balance defective 44 Expression defective 45 Frontal muscles overacting 46 Corrugation; knitting eyebrows 47 Orbicularis oculi relaxed 48 Eye movements defective 49 Head balance asymmetrical 50 Hand balance weak 51 Hand balance nervous 52 Finger twitches 53 Lordosis 54 Other abnormal nerve-signs C. Cases with low nutrition D. Children reported as dull or backward E. Eye cases G. 'Exceptional children'	2,853 90 151 696 38 371 348 95 1,234 253 145 36 468 749 2,077 764	2,015 113 191 146 11 293 261 274 778 359 142 112 282 770 1,638 692 147	11 19 107 4 61 52 6 6 175 25 23 6 6 78 104 142 142	342 18 32 28 1 44 57 49 135 48 22 30 43 117 233 142 21	9 78 60 17 298 70 38 3 100 180	199 447 153	32 6 121 195 511 169	37 4 87 65 75 118 85 32 20 72 205 394 129	55 11 4 4 85 36

Individual Defects; also the Numbers of Children seen and ctionalities, Social Classes, &c.

		I.	V	II.	Voluntary Schools English Children Average Social Class		Yoluntary Schools English Children Poorer Social Class		Yoluntary Schools Irish Children Poorer Social Class		Voluntary Schools Jewish Children Average Social Class		Voluntary Schools Jewish Children Poorer Social Class	
irls	Boys	Girls	Boys	Girls	Boys			Girls		Boys Girls		XI.		II.
81	803 163	807 128	974 250	939 162	968 228	988 158	Boys 697 137	720 96	2,171 535	1,952	Boys 	Girls 693	Boys 440	Girls 394
33 19 17 11 	64 15 3 2 5 2 2 7 16 7 8 1 - 3 7 7	37 12 7 4 1 - - - 5 2 10 8 2 - - - - - - - - - - - - - - - - - -	96 31 8 2 11 2 6 2 1 22 8 28 11 16 1 2 8 12	55 17 1 12 - 1 3 - - - 2 6 14 6 6 6 7 13	96 48 4 8 17 5 10 2 4 — 9 6 19 9 8 2 — 6 9 11	70 28 1 23 2 2 2 9 14 6 4 3 -1 9 13 9	58 24 4 3 14 2 1 5 15 10 4 5 1 1 5 6	44 16 — 15 1 — — — — — — — — — — — — —	252 111 11 16 54 11 14 2 2 2 39 23 45 24 16 4 1 1 27 29 26	163 65 -52 6 5 2 	68 18 	104 19 1 16 1 1 1 1 - - - 3 8 8 8 2 3 3 - - - - - - - - - - - - - - - - -	155 49 13 1 3 8 1 — — — — — — — — — — — — —	78 23 8 6 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18	2 6 3 4 5 3 4 55 4 7 11 27	156 3 1 222 1 37 24 2 83 18 7 3 17 26 80 37	96 1 4 	148 5 11 40 1 26 14 8 55 14 13 2 20 49 83 39	82 1 8 6 	78 2 2 29 ————————————————————————————	55 4 4 3 —————————————————————————————	322 10 12 131 11 20 30 13 124 23 13 2 37 71 182 67	127		63 4 5 4 5 8 9 28 14 3 7 9 9 28 28 26	98 7 2 20 8 21 3 52 5 2 2 17 26 33 20	40 4 3 1 - 4 4 23 5 - 5 8 9







