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WHAT CONSTITUTES FEEBLE-MINDEDNESS!

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The object of this discussion is to consider the main rent definitions of feeble-mindedness, and criteria that have used as a means of diagnosis, with the view of calling atte to the multiple and discordant standards that are now monly followed in deciding on the classification of borde and doubtful cases. These will all be considered from the point of practical applicability in the diagnosis and class tion of the individual case. To serve this object it we a propos first of all to show the present increasing need of practical criteria, aside from the need of harmonizing of dictory ones.

A. The Growing Need of Some Practical Criteria.

We have many laws concerning the feeble-minded: about commitment into special institutions, about permi and limited retention in institutions, sex and age discre tions with reference to commitment and retention, about sponsibility in crime, asexualization, marriage rights, prorights, etc. The recent rapidly growing interest in the minded is increasing these laws at a great rate. In no however, to my knowledge, does the law attempt to define constitutes feeble-mindedness. It is assumed that this left to the judgment of competent persons. In some in the qualifications of such persons have been in some me defined. This, indeed, is all that is usually necessary to the requirements of the average case. But there is a contendency to include higher and higher grade cases in the gory of the feeble-minded, which is particularly strong present time. As this is being done the number of case comes up for consideration and which requires close in increases all out of proportion to the increase in the intelligence that is added to the upper grade of feels The common view on this question seems to

eneous, even with those who have more than a merely casual wledge of the subject. It is based on the theoretical coneration only, which regards the distribution curve for difent grades of intelligence as bell-shaped. That is, as we pass n the lowest to the highest grade of intelligence, larger and er numbers of individuals belong to each successive higher de until the grade of intelligence represented by the average vidual is reached. Grades of intelligence above the average e a decreasing number of individuals with increasing disce above the average, so that the distribution curve on the aber of individuals belonging to each grade is bell-shaped. w closely this assumption corresponds with the exact facts be tested only by the grading of all individuals of a large, esentative community. This has never been done. lish survey, however, of certain districts in England, Wales, Scotland, with a total population of 3,873,151 gives us sufnt data to revise this view about the bell-shaped character he distribution curve. From this data Tredgold estimates relative number of cases belonging to each grade, for the ntry as a whole, to be as follows:

	Idiots	Imbeciles	Morons
	6	18	7 6
or, approximately	I	3	12

Assuming that these three grades together constitute one cent., for example, of the general population, gives 1,584 hals for every 16 feeble-minded. The general form of the ibution curve would depend, further, on into how many less we re-divide the normals. Since the curve is supposedly metrical, there must be three grades above the average. coronding to the three grades of feeble-minded below the average.

Regarding the exact average as a mathematical point to the theoretically none belong, gives a minimum of five grades which the normals must be divided, with the whole curve ing as follows.

Idiot	Imbecile	Moron	Just below average	Just above	Very bright	Preco- cious	Very pre- cocious
1	3	12	784	784	12	8	1
.0625	.1875	.75	49	49	.75	.1875	.0625

This shows that when the range of intelligence normal is divided into as many as five grades 40 per ce all the individuals in the general population belong to a of intelligence between the moron and the average intellig The distribution curve would be more like the outline very small bell with a very long, heavy handle, instead of shaped. It indicates that the borderline cases, the cases which there may be doubt as to whether they should be fied as normal or feeble-minded, may be a great many more numerous than all the present grades of feeble-me taken together. This must be all the more the case since certain that the relative number of morons is much larger is indicated by the English statistics. With rough me the higher grades escape detection while the lower grad not. As we draw the lines more closely, therefore, whi the present tendency, it becomes increasingly more impe from a numerical standpoint alone to have precise crite feeble-mindedness. It is not true, as is often held, the doubtful case occurs so infrequently as to make the problem refined methods of determining unimportant. The doubting occurs more frequently the more closely we attempt to the line, unless our methods of diagnosis improve at the But progress in the improvement of our metin diagnosis does not necessarily keep pace with the desire tempt to classify cases that are doubtful definitely as minded or normal. The sudden appearance of more mental tests has improved our methods of diagnosis but the increased interest in feeble-mindedness in the reformatories, juvenile courts, and everywhere is crowd improved methods of diagnosis for still greater accuracy haps more just now than has ever been the case before are more in need of precise criteria of feeble-mindedness the practical standpoint, than we have ever been before.

B. Practical Applicability of Current Definitions and Control Definitions are so numerous and various that it we futile to attempt to discuss them individually with refer their accuracy and practical applicability in dealing we

definition, and then consider the different types and phases finitions or criteria in regard to these essentials. A pracdefinition must be, first, scientifically correct, and second. Table in the diagnosis and classification of the individual case. There are a great many definitions that are encorrect so far as they go, but are entirely inapplicable in the diagnosis. There are about as many are applicable enough, but are inaccurate and inadequate in designations.

at once be eliminated as inaccurate. They are easily obd, but are no accurate criteria of feeble-mindedness, much
a means of making close distinctions between grades not
emoved from each other, for which purpose they are enout of the question. To be sure, there are a number that
been shown to occur more frequently with the feebleed than with the normal, but this alone does not make them
I criteria for diagnosis for individual cases. It is a reable fact that so many elaborate clinical blanks still give
re space to various traits that may be classified under this
ing. In numerous instances the data called for can have
agnostic value whatsoever because definite knowledge of
relation between mental defect and the physical trait is
ly lacking.

Much the same traits

Much the same may be said of the consideration of the of mental deficiency as a means of diagnosis, bearing in the distinction between a physical trait as a symptom, y, and physical trait as a cause. Factors that are in genecognized as causes of feeble-mindedness occur too freely with normals. On the other hand, causes that have present in the feeble-minded can too often not be dein individual cases. A definition of feeble-mindedness on causes would therefore be both inaccurate and inaple in practice. At the same time, few would agree that itary causes should be left out of consideration in determine the classification of a doubtful or borderline case as

feeble-minded or normal. When they are taken into ae however, let us remember that it can not be for the sideciding the grade of mental deficiency. It can only be a most of precaution and expediency, with eugenic motives on a case is so nearly feeble-minded or normal that all sour information leave doubt there are justifiable grounds for hereditary considerations decide how he shall be classificated. The objection to this procedure lies in extending consideration to cases that, from other sources of evident not doubtful cases, but are distinctly of normal mental opment.

Incurability has come to be accepted almost unit 3. as one of the essential features of feeble-mindedness. when the diagnosis has been based primarily on the res mental tests, which in themselves give no clue as to cural incurability, the reservation is made that incurability an additional characteristic to constitute feeble-mind There are good reasons for limiting the term feeble-min the incurable class. First, the vast majority of menta tarded are undoubtedly incurable. To instil the popular with the idea that feeble-mindedness is curable, even with the reservation that it is only very rarely so, would lead to much misdirected effort in behalf of entirely cases, unless some means were found of counteracti natural tendency. This belief is still widely held amount Second, there is undoubtedly some real distinction made between curable and incurable mental retardation the standpoint of the causes that produce it. Third. a feeble-mindedness has not always been considered in it is now a quite well established tradition with the The term is well fixed in this to so regard it. Fourth, the classification of a curable case as feeble-min corresponding treatment, such as commitment to a spi stitution, would under present conditions stigmatize and family, and might lead to other injustices. hand, the definition of feeble-mindedness as incurable

1 See especially Huey, "Backward and Feeble-Minded Children," 1912; and Holmes, "Conservation of the Child," Phila., 1912.

difficulties in practice, when borderline cases are under deration. The determination of the present grade of inence of a given case may be relatively easily and accumade. The determination whether a given case is curable. be brought up to normal, may be quite impossible. indose a case nine years old, with a mental age of six. Acng to common practice the grade of intelligence in such a is rightly classed as that of feeble-mindedness. cal condition of the case in question might be of such a naas to account for much of the mental retardation, which be largely or wholly remedial. How much may we atte to a bad nutrition, enlarged tonsils, adenoids, poor conof the teeth, and a great many other such factors? resent state of our knowledge the obvious answer is that an not tell. We are yet very far removed from being able in the individual case just how much mental improvement follow removal of any of the physical defects or conditions are in a general way regarded as responsible for mental ation. This subject is full of contradictory opinions. on no very tangible facts. It is entirely possible for the in the illustration just given to be curable. It is possible such a case might catch up a year or more in mental dement as a result of treatment, which would put him in ass of the intellectually normal. To make incurability an ial feature, therefore, renders it impossible to classify cases as normal or feeble-minded until after treatment, and time is allowed for the effects to appear. The time neceso allow is also undetermined. In the meantime, since his nt mental condition is that of feeble-mindedness, the case he time being needs the care and treatment adapted to mindedness. If this care and treatment is given, as it be, the distinction between curable and incurable vanexcept in name. Let the case in the illustration be a le court case with strong delinquent and criminal tendthe practical difficulties will then be obvious. the important question becomes that of which set of dit-

he important question becomes that of which set of dites can be the most easily overcome, and how this can be done. There is need of doing this before we define mindedness either as curable or incurable.

4. Recent definitions tend strongly towards making cess in life, or ability to make an independent living, a for defining feeble-mindedness. The most widely quote adopted is one suggested by the Royal College of Physics of London, and reads: The feeble-minded person "is on is capable of earning a living under favorable circums but is incapable, from mental defect existing from bis from an early age, (a) of competing on equal terms will normal fellows; or (b) of managing himself and his affair ordinary prudence." This was adopted by the Royal Co sion appointed by the English government in 1904 to gate the conditions of feeble-mindedness in the British The American Association for the Study of the Feeble-M appointed a committee on classification which tentatively ed a definition essentially the same, which reads: term feeble-minded is used generically to include all degree mental defect due to arrested or imperfect mental develo as a result of which the person so affected is incapable peting on equal terms with his normal fellows or ma himself or his affairs with ordinary prudence."2 Other tions from this sociological standpoint, and which may ognized as more or less modifications, merely, of the above appeared. Notably among such may be cited those of gold and Witmer. Says Tredgold: "We may define (the term he uses for feeble-mindedness) as a state of defect from birth, or from an early age, due to incomplet bral development, in consequence of which the person is unable to perform his duties as a member of society position of life to which he is born."3. In his 1914 edit is revised to read: Feeble-mindedness is "a state of see potentiality, or arrest of cerebral development, in consecution which the person affected is incapable at maturity of se ing himself to his environment or the requirements of munity as to maintain existence independently of

² Journal of Psycho-Asthenics, 1910, P. 61. 3 "Mental Deficiency." New York, 1908. P. 2.

ence or two, but his idea may be gathered from the foling: "The defectives are those who have so many and severe mental defects that they are unable to overcome defects as a result of expert training, and must therefore a adult age arrested in mental and moral development, intially incapable of earning even a modest livelihood, and soly a menace oftentimes to themselves and their families, always to society, either by virtue of their own behavior or retained capacity to reproduce their kind. * * * We dethe feeble-minded child as a result of social considerations. In the third who for his own good and for the good of solve should be segregated for life."

Let us attempt to judge these definitions again from the le standpoint of scientific accuracy and practical applications. First, the modifications offered by Tredgold, and Wit-

Tredgold adds an important phase in the last part of efinition, "in the station of life to which he is born," a recognized also by others, especially Binet and Simon. acknowledges that a person might be rightly classified as al in one kind of social environment, and as feeble-minded other. A person might, for example, be able to perform his s as a member of society in a simple rural environment. ot in the much more complex urban environment. Or, he t be normal if he attempted to follow only a low standard ing, but feeble-minded if he attempted to follow a higher ard of living. The justification for this additional phase definition, however, stands or falls with the justification fining feeble-mindedness from the sociological standpoint first place, for it only points out a further consequence or tation of such a definition. This will be considered further moment. The additional phrase, "due to incomplete ceredevelopment," while it may not depart from scientific acy, makes the definition inapplicable in the classification of dual living cases. We are entirely unable to demonstrate

tildren with Mental Defect Distinguished from Mentally Defective Chilhe Psychological Clinic., Dec., 1913. the cerebral development in the living case, with the exception an insignificantly small number of instances. If this had a done but few cases could be classified at all.

Witmer's criteria present possibly two phases that we raise difficulties in the practical application to individual control of the first is stated in, "that they are unable to overcome defects as a result of expert training." This is on a par making incurability an essential phase of feeble-mindedness determine whether a case can overcome the defects the expert training by first giving him this expert training require too much time for the purposes demanded of a tical definition applicable in diagnosis. The second is in "their retained capacity to reproduce their kind," if by reference is made to the fact that the children of feeble-mi are liable also to be feeble-minded. The impracticability of ing the consideration of causes a phase of the definition noted above.

Let us turn to the more general phase of these defini that are based on success in life, or ability to make an pendent living. There are three terms in the one given Royal College of Physicians of London concerning which ficulties might and undoubtedly would arise in attempt These are, "favorable circumstant apply it in practice. "equal terms," and "ordinary prudence." The most judges would surely often disagree as to whether the stances under which a given case had attempted to earn ing had been favorable or not, or whether the terms under he had been competing with normals had been the same as normals, and most of all, as to whether his conduct had show dinary prudence. These are all relative terms, subject to the ing interpretations of different judges. How varying the in tations on such matters may be is readily seen when we how frequently and flagrantly experts disagree on the The social test is difficult to tality of cases in courts. Aside from this, such a definition can not lay claim to se accuracy, so far as it attempts to define grade of intelligence. only. This much is conceded by the definition itself.

mates that an individual might be classified as normal in environment. and as feeble-minded in another. A scienally accurate definition does not change standards in the this does. Moreover, success in life, or ability to make an pendent living, is not an accurate criterion of intelligence my case. In a broad, general way it undoubtedly holds true. we are considering everything as we must in practice, from standpoint of individual cases. We know from general rvation that even under essentially the same environmental sitions some fail to make an independent living partly bee of lack of intelligence, while others with no higher intelace succeed. Our most successful business men are not all ng the most intelligent, and surely a great many of our intelligent men do not rank correspondingly high as busisuccesses. We know further from recent results of mental ng that there is a certain number of cases, by no means which fails in the social test, but measures intellectually derably above the grade of feeble-mindedness as deterd by the same mental tests, though not equal perhaps to of an average normal person. On the other hand, there equal number of cases which as measured by the scientific and of mental tests, are feeble-minded, yet do not fail in ocial test. There is an extensive over-lapping. A given of intelligence will in one case pass the social test though he intelligence test, while in another case it will fail in ocial test.

The social test may be considered from still another point—that of individual rights. If a person can and does an independent living without interfering with the rights hers the state should have no grounds for classifying and ing him as feeble-minded, even though his mentality as a by some accurate scientific method clearly proved him to ble-minded on the basis of this latter standard alone. The nation seems valid, but applies only to any case for the being, and does not consider future possibilities. A person ing the social test, but otherwise feeble-minded, is always tially one who may at any time interfere with the rights

of others, because of his mentality. He is the potential linquent or criminal. He is also the potential parent of minded children who will most likely fail in the social as well as interfere with the rights of others in other ways the other hand, if a case fails in the social test, but is found other sources not to be mentally retarded sufficiently to be fiable as feeble-minded, there may be a justification for cling him thus nevertheless, because of his failure in the test. The defective delinquent is the typical illustration class. As long as the state makes no special provision for class, and since these cases must be made state charges are equally well placed or misplaced in the institution feeble-minded and the reformatory.

The status of the social test appears then, in a word as follows. It is difficult to apply, and it is a matter judge's own interpretation as to whether a case has passfailed in the social test. As a criterion of grade of interior it is scientifically inaccurate. An otherwise feeble-minder son passing the social test, may still be rightly classificated. A person with a mental retardation lead that of feeble-mindedness, but failing in the social test, may practical purposes also be classified as feeble-minded nally, the social test is, from the nature of the case, approach to adults.

5. The recognition that there are variations in traits other than intelligence as technically defined which combined with only a slightly deficient or even normaligence may cause the individual to fail in the social test to the view that feeble-mindedness as a mental defect always be defined in terms of lack of intelligence alone view is expressed most fully by Huey, whom we may alength. "Feeble-mindedness, like insanity, involves much than the intelligence; and its correct diagnosis often the expert consideration of various clinical phases. Feeble-mindedness blends, along most of its upper mat the populous and turbulent zone of the psycho-ness.

6 Backward and Feeble-Minded Children. Baltimore, 1912. Pp. 5

(with beginning adolescence) the problem of life is not erther growth of intelligence so much as the use of what en grown, to serve and to give direction to the feelings. now normality of will, of self-assertion and self-criticism. al sense and attitude, and of the emotional control that be tested for. And here in the rich but precarious field ctionings are found the next higher rungs of the retardadder, naturally with the function of sex playing a prom-We have then the higher grade feebleof the type (I) whose chief defect is in the intelligence, g over into their higher degrees to the pupils who in Dr. 's terminology are normal, 'not tainted but dull.' We hem (2) of the type when the chief defect is in the will the social adaptation of their functions, shading over curasthenia and, on the side of emotional control and ation, the hystericals. We have them (3) of the type thought fails to take account of the concrete tests of achading over into the cases which may develop the bizarre s of dementia praecox. (4) We have the type which higher grades clearly shows its kinships with mania, holia, and circular insanity. We also have to trace a (5) that tends to give us our criminals and moral detes." On first thought the suggestions here made raise difficulties in the way of finding a brief and precise definifeeble-mindedness. A critical study, however, will clear It least some of the troubles. Our attention is first called need of defining further still more of the terms of our on. Since there is practically an absolute agreement on the term feeble-mindedness to cases who have failed elop mentally in a normal degree, or are developing at er rate than normal, we may accept this as an essential It follows that we must either use the term "developof intelligence" as synonymous with "mental developor show that the development of the intelligence always xactly parallel with the development of the mind as a if we are to define feeble-mindedness in terms of intelardation and the Mental Examination of Retarded Children. sthenics, 1910. Pp. 33 and 38.

ligence. If we do the former, as I think we must in the ent connection, it will become clear that most of the type Huey defines as types of high-grade feeble-minded are not of feeble-mindedness, because they do not represent an of normal mental development. They represent a high ried, very complex, and as vet little understood intermegroup, shading into the different forms of insanity, as notes, yet for the most part, if not entirely, without me sensory disturbance, delusions or emotional anomalies. one hand, and little or no lack of intelligence or mental on the other hand. They are frequently further comp with abnormal habits of thought and action acquired the unfavorable environmental influences. They readily fail social test for feeble-mindedness and because of the absen definite symptoms of insanity are often classed as feeble-new In the opinion of the present writer they should not classed, because they require a different kind of care and ment, and have a different kind of capacity for usel Their existence, however, makes the social test of feeble-m. ness still more difficult of application.

Ever since the Binet-Simon tests have come into eral use feeble-mindedness has been defined by some in of mental age. Assuming that the mental ages obtained these tests are always exactly correct, it seems at first a matter to determine the mental age that must be ascrithe feeble-minded and thereby define the term on the mental age. The committee on classification appointed American Association for the Study of the Feeble-Mind ready referred to, attributed mental ages of 8 to 12 to mental ages of 3 to 7 imbeciles, and of 0 to 2 to idiots. But designations, although the report does not specify, on were intended to apply only to adults, as, indeed, the can. For average normal children do not reach this upper of twelve years in mental age until they are twelve years logically, while at birth all would have a mental age years. In dealing with children instead of adults the ence between age and mental age was taken as a mean.

of intelligence, and feeble-mindedness was defined in s of the number of years difference, or mental retardation. ems not to have been at once fully recognized that no one number of years of mental retardation can be taken to ate feeble-mindedness, independent of the chronological This seems to be true even of Binet and Simon as late as when they published the first revision of their tests. For they still discuss the gravity of a mental retardation of one o years, without taking the chronological age into ac-Even in their 1911 revision they note that a child must e regarded as mentally arrested if the mental retardation not exceed two years. In their "Les Enfants anormaux," shed in 1907, however, they state that a pedagogical retion of two years may indicate feeble-mindedness in chilunder nine years chronologically, while it takes three years e same in children over nine. Kramer8 observed in 1911 the same grade of intelligence in children is represented increasing amount of difference between age and mental s the chronological age increases. Chotzen⁹ after examinnumber of feeble-minded children with the tests comes s conclusion, and notes further that "Children from 8 to s may be retarded one year, and children II to 12 years be retarded two years, without being feeble-minded; on ther hand, children of these ages with a retardation of two ee years have certainly no longer a normal intelligence." also is the conclusion of Bobertag10 after examining his esults with the tests. He says more definitely than Chot-"From these facts alone it may be concluded that up to e of nine years a mental retardation of two years is neceso constitute feeble-mindedness, while for older children tardation must equal three years." Goddard and others followed similar rules, each thereby making his own exact ion of feeble-mindedness. Elsewhere the present writer

e Intelligenzpruefung bei kriminellen und psychopathischen Kindern. geber den sweiten Verhandlungstag des I Kongress fuer Jugendbildung den, 11, 1911.

Intelligenzpruefung Methode von Binet-Simon bei schwachsinnigen Zeltsch. f. angew. Psychol., 1912.

er Intelligenspruefungen (nach der Methode von Binet und Simon), f. angew. Psychol., 1912.

has noted that the amount of mental development during can not be taken as an accurate unit for measuring intelliging. It should be noted in passing that in all these instant questions as to curability, heredity, physical symptoms, et left entirely out of consideration in defining feeble-mind.

The grounds for postulating an increasing number of of difference between the age and mental age to con feeble-mindedness as the chronological age of the chi creases lie, first, in the supposed fact that the normal mental development decreases with chronological age. young child grows mentally much more during a year does an older child then obviously one year of mental tion means the more the younger the child, and the num years of retardation necessary to constitute feeble-mine must increase with age. To show that the rate of norm tal development decreases with age Bobertag quotes some eral observations, as well as some results with the Bines tests showing that the percentage of children that pass tests increases much more from the ages of six to seve it does from the ages of eleven to twelve. The latter been fully verified by the present writer¹² in similar But as was there pointed out, its significance in regard question of a decreasing rate of mental development creasing age might not be as great as appears on the su

The second reason for postulating an increasing of years of difference between age and mental age to tute feeble-mindedness as the chronological age of the creases lies in the supposition that feeble-mindedness tially a retarded rate of development, and that there older the feeble-minded child of a given grade of interpretation. This was noted by the present writer. 13

¹¹ See "The Binet and Simon Tests of Intelligence in Grading R Children," this Journal, 1912; "A Revision of the Binet-Simon System uring the Intelligence of Children," this Journal, Monograph Supple "Degree of Mental Deficiency in Children as Expressed by the Rent to Mental Age," this Journal, 1913; and, "Some Results of Examining Public School Children with a Revision of the Binet-Simon Tests at by Untrained Examiners," this Journal, 1914.

^{12 &}quot;Some Results of Examining a Thousand School Children, etc., 13 See, "Degree of Mental Deficiency," etc., and "Some Results of a Thousand School Children," etc., just quoted.

s out the view of feeble-mindedness as a retarded rate of al development, but does not discuss its connection with nestion.

A third consideration lies in the possibility that the mental copment of the feeble-minded stops entirely at an earlier han with normals. This view is given by Chotzen, Stern, 4 Goddard. 5

The bearing this has on a definition of feeble-mindedness in the question as to in what manner the difference between and mental age postulated to constitute feeble-mindedness increase along the whole course of mental development. The face of it, it would seem to require a finer adjustment has been made so far. To make the age of nine an abrupting point, requiring two years' mental retardation to content feeble-mindedness below this age, and three years above age, is arbitrary and surely inaccurate for both the much ger and much older children, without considering the questas to when intellectual development stops entirely. If it stop entirely at about the age of fifteen it would obviously all much older children appear as feeble-minded to readifference between age and mental age of three years as ituting feeble-mindedness.

This difficulty has been recognized and has led Stern, rtag, and the present writer to propose what Stern has ed the "Intelligence Quotient" as a measure of intelligence is the figure or per cent. obtained by dividing the mental by the age. Feeble-mindedness may be defined by fixing fmits in intelligence quotient to be attributed to it. In connection Stern shows that for the children of the Hilfste examined by Chotzen the average intelligence quotients istributed as follows:

Not feeble-minded	Questionably feeble-minded	M orons	Imbecile	
.92	.84	.76	.71	
<i>4</i> 3.	.81	.77	.67	
.80	.80	.74	As	

hese children had been previously diagnosed by the schools longing in these four classes. This shows an intelligence references above.

The Improvability of Feeble-Minded." this Journal, 1913.

quotient of less than .80 for definitely feeble-minded, the more Bobertag considers the same fact, and suggests similar in gence quotients for the different grades of intelligence, doubts whether the intelligence quotient is accurate for ages. For 350 consecutive examinations with my revision the Binet-Simon tests at the Minnesota School for Fee Minded I found the following distribution in number of a belonging to the different intelligence quotients:

I. Q. 1-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-80 No. 19 36 29 41 55 64 56 33 8

In obtaining these figures it was assumed that developed of intelligence stops at the age of fifteen, so that the m age was never divided by more than fifteen for the age. shows an intelligence quotient of over .80 for seventeen, per cent. of the cases. Among this 4.0 per cent. were very young children, aged a few months to five years. had been born in the institution or were temporarily adm with their feeble-minded mothers. Other observations ve the fact that these were undoubtedly normal. Three cases eighteen years had failed in the social test, and belonged defective delinquent class, or possibly to such classes a scribed by Huey. Eight others, aged six to eighteen were partly wrongly diagnosed before admission, as show other records before and after leaving the institution again possibly showed general improvement after admission. ther study of each individual case with an intelligence qui of over .80 left none that could with certainty be classifi feeble-minded. I have elsewhere 16 suggested that cases an intelligence quotient of less than .75 may be regard feeble-minded, while those with an intelligence quotien over .80 may be regarded as normal, leaving a doubtful from .75 to .80.

Some objections have been raised to using the intelliquotient as a means of defining feeble-mindedness and grades of intelligence. Stern and Bobertag note that correct for all ages it implies that the feeble-minded ke

16 The Mental Examination of Reformatory Cases. Am. Journ. of Crit. No. 5, Jan., 1915.

the earlier the lower the grade of intelligence, so that the idiot grade the intelligence quotient could have but litmeaning. If this view were correct it would mean that the ligence quotient would decrease abruptly for feeble-minded at the age when intellectual development ceased, and it to this extent no longer be regarded as a true index of ligence, since this age would vary with the grade of inence in the first place. But the view is only an assumption, in, however plausible it may seem on first consideration, no established facts to support it. In the meantime, we not without evidence assume that the opposite is true, and the intelligence quotient is a correct index of intelligence, it as this is concerned.

Bobertag and the present writer have pointed out a second This is connected with the view, which in itself abtedly is in the main correct, that the rate of mental dement of normals decreases with age, and that with the minded this rate of development is at all ages behind the al rate. This being granted, Bobertag concludes that "a would increase with age not only absolutely but also vely"; the intelligence quotient would decrease with age. conclusion, however, does not necessarily follow. It folonly if still another assumption is granted, an assumption I also made in discussing this point before.¹⁸ The intele quotient will decrease with age in the case of feebleed children if the amount of mental development during year is determined by the chronological age rather than e mental age. If it is determined by the mental age the gence quotient may remain constant. To make this clear, suppose a case with a mental age of four at the chronoal age of eight, indicating at this point a rate of developjust half that of the average normal. What will deterthe examination after intervals of one to three years of cases in the Min-School for Feeble-Minded now in progress at present rather indicate that rases continue to develop, some even beyond the age of fifteen. An analy-lase results will be reported later. "Degree of Mental Deficiency in Children," etc., this Journal, 1913, P.

mine the amount of development during the next two Will he develop half of what the average normal child from eight to ten, or will it be half of what the average child would develop from four to six? If the former case the intelligence quotient will decrease, on the basis assumption, which is granted, that the rate of development normals and feeble-minded decreases with age. If the la the case this need not be true. To show that the intelligence quotient does as a matter of fact decrease with age Bo quotes some results derived from Chotzen's table, which an average intelligence quotient of .79 at the age of eigh at nine: .70 at ten; and .67 at eleven to twelve, for the chi of the Hilfsschule. The same may be seen in figures of by Stern, and given above. This evidence, however, is mi ing, since this decrease in intelligence quotient holds to normally developing children as well as it does of the minded. It is due to the fact, established by all investig that the tests measure slightly too high for the lower age error decreasing towards the higher ages where the tests ure too low. Bobertag's results for normal children give from which the following intelligence quotients are de 1.05 at the age of eight: 1.00 at nine; .98 at ten; and .96 to twelve. 19 Intelligence quotients derived from result others testing normals show a similar decrease for these On the other hand. I have shown that the average mental of the inmates of the Minnesota School for Feeble-Mine crease with chronological age in a manner very closely to the mental ages computed on the basis of the assumption the intelligence quotient remains constant. These results as follows -20

Age	6—8	9-11	12-14	15-17
Av. M. A.	2.8	4.1	4.9	5.5
Computed M. A.	2.6	37	49	KK

Here the average mental age of all cases with chrono ages from six to eight was 2.8, etc. The computed mental are derived by assuming that the rate of mental development

¹⁹ See article quoted above, P. 503.

²⁰ See "Degree of Mental Deficiency," etc., P. 141.

hout for such an "average" case would be 5.5-15.0 of the e normal rate, i. e., 5.5-15.0 of the average of six to or seven years, etc.

suming any given intelligence quotient as the dividing tween feeble-mindedness and the normal, and considering ferent ages and mental ages that will all give this intelliquotient will show how inadequate any practice must t makes an abrupt turning point at the age of nine, reg two years of mental retardation below this age to confeeble-mindedness, and three years above this age. The sing ages and mental ages all give an intelligence quotient

4 8 12 16 3 6 9 18 1 2 3

en the mental retardations range from one to four years, en the ages of four to sixteen, for one and the same grade elligence, as given by the intelligence quotient. Moreall the objections against the intelligence quotient as a re of intelligence must hold true equally against the at of mental retardation measured directly in terms of

The intelligence quotient must, therefore, be regarded most accurate index of intelligence of any that are based ental tests. It does not follow from this, however, that inet-Simon tests in their original form are adequate alfor drawing the fine distinctions in grades of intelligence practice we are often called upon to do. For, granting on the whole an intelligence quotient of .75 or less, for ble, indicates feeble-mindedness, and one of .80 or over, al intelligence, the variability in the results obtained with sts is still so large that a barely normal case might someappear as barely feeble-minded, and vice versa. For the mental ages the same examiner on two immediately suce examinations of the same case sometimes varies by three er points in the mental ages found in the two examinaalthough as large a variation as this occurs only occasion-But this is enough to change the classification from definitely feeble-minded to definitely normal. An incremental age of four-fifths of a year for the second examined could change the intelligence quotient from .75 to .80. The applicability of the intelligence quotient in practice termined by the practicability of giving the mental termined by the practicability of giving the mental termined it is based. At present mental tests can not always given where the individual still needs to be judged as a grade of intelligence. Less accurate methods must in cases suffice.

C. Summary and Conclusions.

The so-called physical symptoms have so far appeare inaccurate a means of diagnosis to merit consideration for purpose.

Causes of feeble-mindedness can not be used as a mediagnosing grade of mental deficiency, but in doubtful borderline cases hereditary causes known to be present justly be a eugenic motive for classifying a case in quas feeble-minded rather than as normal if a classification be made.

To make incurability an essential feature of feeble-meness leads to difficulties in diagnosis, and to other object. To disregard this feature may under present conditional lead to serious objections. It is an open question as to set of difficulties are the more easily overcome.

The social test, or the ability to make an independent honest living, is difficult of application, and is scientifical accurate as a means of determining grade of intelligence practical purposes and as a matter of expediency, failure the social test by a borderline case may be taken as ground classifying a case with the feeble-minded rather than with normal.

The rules followed of arbitrarily choosing different bers of years of mental retardation at different ages as tuting feeble-mindedness can only be approximately act and is not the best method of grading intelligence on the of mental tests.

The intelligence quotient, or mental age divided by

e most reliable criterion of grade of intelligence. An gence quotient of .75 or less is always indicative of fee-indedness, provided the mental age as determined in the place is correct. Cases with intelligence quotients imtely above this constitute the borderline and doubtful concerning whom other considerations than those of intence may and must be taken into account in order to make sification.

the number of cases belonging to this borderline class is much larger than any similarly limited grade below this. For this group of borderline cases, for which there at presist multiple standards of diagnosis, there is great need of evement of methods, of agreement on what may be regarded teria of feeble-mindedness, and especially of arriving at a n evaluation of these, in order that undue stress may not seed on any one.

fultiple standards of diagnosis are commonly employed only for really borderline cases but are frequently med to the diagnosis of other cases irrespective of grade elligence. This is done on the basis of the idea that a sis will be the more reliable the more extensive and the inquiry, and the wider the consideration of all conle factors. This idea is not only entirely erroneous, but factice is all the more unfortunate because the procedure the outward semblance of great thoroughness and accudeluding both the examiner and the layman. Great thoress of inquiry into factors that in the first place are not criteria of grade of intelligence can only mislead instead to the accuracy of a diagnosis. A consideration of a vaof factors all of which may have some relation to grade elligence, though that be small, is valuable, but this may and to error instead of to greater accuracy, when their ance is wrongly evaluated in relation to other factors ave a much closer relation to grade of intelligence. present chief difficulties in following multiple standards mosis lies in this fact. We have at present no method of bing the results from a variety of sources of inquiry, such as is called for by most clinical blanks, so that each factor count for what it should. It is highly desirable that smethod be devised.

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NEWS AND NOTES

The State of Minnesota is to try out the plan of state support to dal classes for deaf, blind, speech defective and mentally sub-normal tren, in any special, independent, or common school district in the state. Under the authority of Chapter 194 of the Laws of 1915, application be made by any such district to the State Superintendent of Education permission to establish a school for one or more of the above classes, if there are not less than five (5) children of any such class between tree of four (4) and sixteen (16) [as to deaf children ten (10) to six-(16)] in actual attendance, the State Superintendent may grant permistic establish such school. For every child taught in any such school for blind, or mentally deficient, holding a nine-months session, the State asury shall pay to the district \$100 on July 1st succeeding. For each derive speech pupil, the law specifically provides for a pro rata payment of the amount, when the term of instruction in the case of any pupil is less