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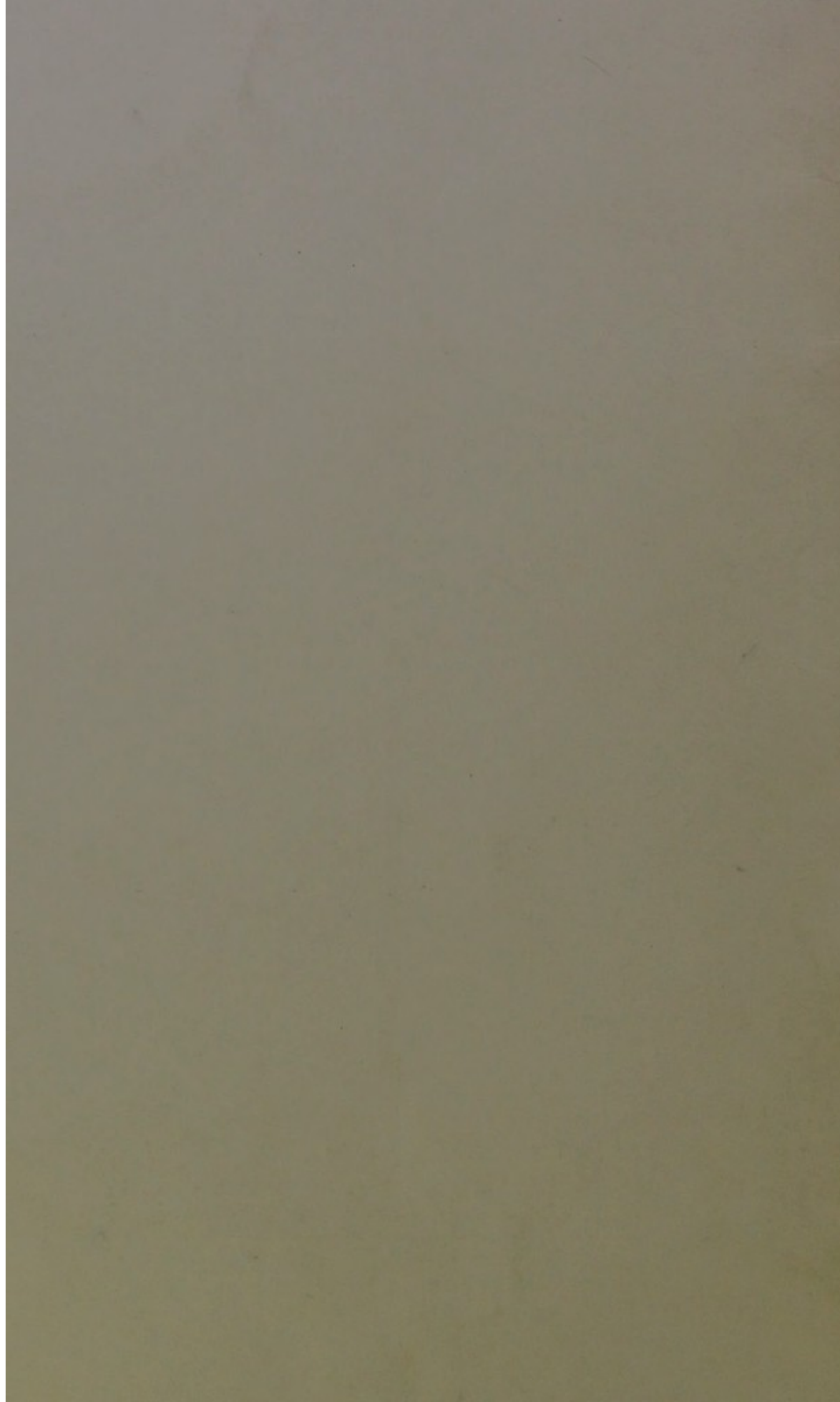
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Prof. Bennett
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(9)

STATISTICS
OF
INSANITY OF THE CRICHTON ROYAL INSTITUTION,
DUMFRIES.

BY
HUGH D. STEWART, M.D. EDIN.

As mental disease is generally of longer duration than other diseases, especially as seen in asylums for the insane—as it may be of life-long duration, and may frequently recur, or threaten to recur, in a single individual—to obtain a perfect knowledge of insanity, its history should extend from the earliest symptoms, and its subject be traced throughout life. Hence statistics which are made from records extending over a greater number of years are much more valuable than those which embody the results of a shorter period. A perfect series of statistical tables would require to exhibit, as far as they can, the complete history of every case, from the commencement of the mental disease until the death of the individual. This, however, is almost impossible. Dr. Thurnam,* under peculiar circumstances, has been able to give a series of statistics which trace the history of individuals beyond the asylum walls; but in ordinary cases such completeness is not obtainable, and we must content ourselves with less perfect results. Generally the history of the patient ceases when he leaves the asylum, and any facts we may obtain in his subsequent career are so few, and possibly inaccurate, that they cannot be embodied as trustworthy statistics. The history of those dying in the asylum, and of those under observation for five years or more, is more complete; but such cases are only those in whom treatment has been unsuccessful. In the cases of readmission, however, we have generally more trustworthy data, and are thus enabled to trace many subjects of mental disease throughout life.

The following statistics have been elaborated from the reports entered in the case-books of the institution, by Dr. Browne, from 1839 to 1857; by Dr. Dickson, from 1857 to 1859; and by my-

* 'Observations and Essays on the Statistics of Insanity.'

self, up to the present time. The results in the first series of tables are as they stood at the end of 1863, extending thus over a period of twenty-four years, which, reckoning from the period of life at which men are most frequently attacked by insanity, may be said to embrace the remainder of a life of average duration. The history of nearly all the cases admitted in that period into the Crichton Institution has been embodied in the statistics; a few only in which the report was deficient have been omitted. In those cases even, that were fully reported some of the facts required for the individual tables were wanting, and had accordingly to be entered as unknown; on the whole, however, the information was very complete.

Great care was taken in the preparation of the tables, and the author believes them to be correct and trustworthy. The following subjects will be considered in their order, and the influence of treatment on the results in each will be exhibited.

- I. *Sex.*
- II. *Domestic condition.*
- III. *Education.*
- IV. *Occupation.*
- V. *Causes of mental disease.*
- VI. *Age on first attack.*
- VII. *Number of attacks.*
- VIII. *Duration of attacks.*
- IX. *Bodily health at the time of admission.*
- X. *Age on admission.*
- XI. *Form of mental disease.*
- XII. *Duration of the attacks.*
- XIII. *Duration of residence.*

I. SEX.

TABLE showing the number of cases, male and female, admitted from 1839 to 1863 inclusive, and their terminations. Also the percentages of males and females in the total number of admissions of both sexes, and the percentages of recovered, relieved, not improved, died, and remaining in the admissions, the sexes being distinguished.

| | ADMISSIONS. | | | TERMINATIONS. | | | | | | | | | | | | | | |
|--------------------------|-------------|------|-----|---------------|-------|------|-----------|------|------|---------------|------|------|-------|-------|------|------------|------|------|
| | Totals. | | | Recovered. | | | Relieved. | | | Not Improved. | | | Died. | | | Remaining. | | |
| | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| From 1839 } to 1863 } | 521 | 380 | 901 | 169 | 142 | 311 | 74 | 51 | 125 | 70 | 45 | 115 | 121 | 90 | 211 | 87 | 52 | 139 |
| Per-centages | 58.0 | 42.0 | 100 | 32.4 | 37.37 | 34.5 | 14.2 | 13.4 | 13.8 | 13.4 | 11.8 | 12.7 | 23.2 | 23.68 | 23.4 | 16.7 | 13.6 | 15.4 |

It will be seen that the male admissions exceed the female by sixteen per cent., and that the female recoveries exceed the male by five per cent.; while the per-centage of death, calculated on the admissions, is nearly equal. These results are similar to those obtained by Drs. Thurnam,* Hood,† and Boyd,‡ with regard to the proportion of recoveries, but not in respect to the mortality, which in their observations averages four and a half less among the females than the males.

In all the following tables the sex is distinguished, so that the operations of the various conditions or causes of mental disease, as modified by sex, may be readily observed.

II. DOMESTIC CONDITION.

TABLE showing the number of married, single, and widowed, and the results of treatment in each of those classes; and the same in the cases of married, with offspring and without offspring.

| | Totals. | | | Recovered. | | | Relieved. | | | Not Improved. | | | Died. | | | Remaining. | | |
|----------------------------------|---------|-----|-----|------------|----|-----|-----------|----|----|---------------|----|----|-------|----|-----|------------|----|-----|
| | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| Married . . . | 150 | 118 | 268 | 65 | 47 | 112 | 24 | 17 | 41 | 16 | 20 | 36 | 38 | 17 | 55 | 7 | 17 | 24 |
| Single . . . | 353 | 225 | 578 | 101 | 79 | 180 | 48 | 33 | 81 | 50 | 23 | 73 | 77 | 59 | 136 | 77 | 31 | 108 |
| Widowed . . . | 11 | 36 | 47 | 1 | 15 | 16 | 2 | 1 | 3 | 2 | 2 | 4 | 3 | 14 | 17 | 3 | 4 | 7 |
| Unknown . . . | 7 | 1 | 8 | 2 | 1 | 3 | — | — | — | 2 | — | 2 | 3 | — | 3 | — | — | — |
| Married, with offspring . . . | 72 | 69 | 141 | 40 | 30 | 70 | 11 | 9 | 20 | 5 | 12 | 17 | 13 | 11 | 24 | 3 | 7 | 10 |
| Married, without offspring . . . | 4 | 10 | 14 | — | 5 | 5 | — | — | — | 1 | 2 | 3 | 2 | 2 | 4 | 1 | 1 | 2 |

TABLE of the per-centages on the admissions of the recovered and died, distinguished as to domestic condition and sex, &c.

| Married. | | | | Single. | | | | Widowed. | | | |
|------------|------|-------|------|------------|------|-------|------|------------|-------|-------|------|
| Recovered. | | Died. | | Recovered. | | Died. | | Recovered. | | Died. | |
| M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| 43·3 | 40·7 | 25·3 | 14·4 | 28·69 | 35·1 | 21·8 | 26·2 | 9·0 | 41·66 | 28·0 | 38·8 |
| Tot. 42·4 | | 18·35 | | 31·89 | | 24·0 | | 25·33 | | 33·4 | |

* Thurnam, op. cit., p. 65.

† Hood, 'Statistics of Insanity,' p. 26.

‡ Boyd, Statistics in 'Journal of Mental Science,' January, 1865.

| Married, with Offspring. | | Married, without Offspring. | |
|--------------------------|-------|-----------------------------|-------|
| Recovered. | Died. | Recovered. | Died. |
| 49.0 | 17.0 | 35.0 | 29.9 |

It will be seen that the most favorable condition as to recovery is the married; and in the widowed, as compared with the single, though the chances of recovery are greater, the chances of death are also greater.

The results as to recovery and death in those having offspring, as compared with those having none, is interesting; but the observations are, perhaps, too few to warrant our laying much stress on the result.

III. EDUCATION.

TABLE showing the results of treatment in the cases having different degrees of education.

| | Totals. | | | Recovered | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | |
|-------------------|---------|-----|-----|-----------|----|----|-----------|----|----|---------------|----|----|-------|----|----|-----------------|----|----|
| | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| Superior . . . | 157 | 68 | 225 | 36 | 19 | 55 | 26 | 10 | 36 | 20 | 11 | 31 | 40 | 12 | 52 | 35 | 16 | 51 |
| Good . . . | 143 | 103 | 246 | 57 | 29 | 86 | 16 | 16 | 32 | 17 | 9 | 26 | 29 | 27 | 56 | 24 | 22 | 46 |
| Moderate . . . | 120 | 95 | 215 | 48 | 41 | 89 | 18 | 13 | 31 | 19 | 13 | 32 | 22 | 19 | 41 | 13 | 9 | 22 |
| Indifferent . . . | 88 | 103 | 191 | 26 | 50 | 76 | 12 | 12 | 24 | 12 | 11 | 23 | 25 | 26 | 51 | 13 | 4 | 17 |
| None . . . | 12 | 11 | 23 | 2 | 3 | 5 | 2 | — | 2 | 2 | 1 | 3 | 4 | 6 | 10 | 2 | 1 | 3 |
| Unknown . . . | 1 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — |

TABLE showing the per-centages of those recovered and dead, in the different degrees of education.

| Superior. | | Good. | | Moderate. | | Indifferent. | | None. | |
|------------|-------|------------|-------|------------|-------|--------------|-------|------------|-------|
| Recovered. | Died. | Recovered. | Died. | Recovered. | Died. | Recovered. | Died. | Recovered. | Died. |
| 21.5 | 20.4 | 35.0 | 22.78 | 41.4 | 19.07 | 40.0 | 26.7 | 22.0 | 43.5 |

That mental cultivation should bring with it its penalties as well as its advantages, and that it should occasionally elevate persons into positions whose organization is unable to bear the strain of duties and responsibilities so imposed, must be the experience of most physicians. But should education not also enable us to bear the ills of life, and intelligently avoid those causes which would injure our minds? However that may be, the preceding tables show how those whose minds have been best cultivated suffer most gravely from mental disease.

IV. OCCUPATIONS.

Table showing the position in society and occupations of the cases admitted, and the results of treatment.

| | Totals. | | | Recovered | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | |
|--|---------|-----|-----|-----------|----|----|-----------|----|----|---------------|----|----|-------|----|----|-----------------|----|-----|
| | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| Landed proprietors, and their wives, daughters, and widows | 18 | 10 | 28 | 6 | 1 | 7 | 1 | 3 | 4 | 5 | 2 | 7 | 3 | 1 | 4 | 3 | 3 | 6 |
| Clergymen, and ditto | 33 | 4 | 37 | 9 | 1 | 10 | 7 | — | 7 | 3 | 1 | 4 | 7 | — | 7 | 7 | 2 | 9 |
| Lawyers, and ditto | 27 | 8 | 35 | 7 | 3 | 10 | 4 | — | 4 | 5 | 2 | 7 | 7 | 2 | 9 | 4 | 1 | 3 |
| Medical men, and ditto | 20 | 9 | 29 | 6 | 6 | 12 | 1 | — | 1 | 3 | — | 3 | 8 | 2 | 10 | 2 | 1 | 3 |
| Officers in the Army | 18 | 9 | 27 | 5 | 2 | 7 | 2 | 2 | 4 | — | — | — | 5 | 3 | 8 | 6 | 2 | 8 |
| Ditto Indian Service | 6 | — | 6 | 2 | — | 2 | 2 | — | 2 | 1 | — | 1 | — | — | — | 1 | — | 1 |
| Ditto Royal Navy | 6 | 3 | 9 | 1 | 2 | 3 | 3 | 1 | 4 | 1 | — | 1 | — | — | — | 1 | — | 1 |
| Ditto Civil Service | 7 | 4 | 11 | 2 | — | 2 | 1 | — | 1 | — | — | — | 3 | 2 | 5 | 1 | 2 | 3 |
| Literary persons | 4 | — | 4 | 2 | — | 2 | 1 | — | 1 | — | — | — | 1 | — | 1 | — | — | — |
| Students of Divinity | 8 | — | 8 | 1 | — | 1 | 1 | — | 1 | 2 | — | 2 | 2 | — | 2 | 2 | — | 2 |
| Ditto Medicine | 3 | — | 3 | — | — | — | 3 | — | 3 | — | — | — | — | — | — | — | — | — |
| Ditto Philosophy | 3 | — | 3 | 2 | — | 2 | 1 | — | 1 | — | — | — | — | — | — | — | — | — |
| Gentlemen and women | 29 | 109 | 138 | 10 | 32 | 42 | 2 | 19 | 21 | 3 | 12 | 15 | 8 | 26 | 34 | 6 | 20 | 26 |
| Artists | 3 | 1 | 4 | 1 | — | 1 | — | — | — | 1 | 1 | 1 | 1 | — | 1 | 1 | — | 1 |
| Teachers and governesses | 7 | 19 | 26 | 2 | 4 | 6 | 2 | 3 | 5 | — | 2 | 2 | 1 | 7 | 8 | 2 | 3 | 5 |
| Accountants | 2 | 3 | 5 | 1 | — | 1 | — | — | — | 2 | 2 | — | — | — | — | 1 | 1 | 2 |
| Bankers | 5 | — | 5 | — | — | — | 1 | — | 1 | — | — | — | 4 | — | 4 | — | — | — |
| Engineers | 3 | — | 3 | 1 | — | 1 | 1 | — | 1 | — | — | — | 1 | — | 1 | — | — | — |
| Manufacturers | 13 | 5 | 18 | 8 | 1 | 9 | 1 | 1 | 3 | 1 | 4 | — | 1 | 1 | 2 | 1 | 3 | — |
| Booksellers and publishers | 7 | — | 7 | 3 | — | 3 | 2 | — | 2 | — | — | — | 2 | — | 2 | — | — | — |
| Merchants | 41 | 9 | 50 | 12 | 4 | 16 | 9 | 1 | 10 | 6 | 1 | 7 | 8 | 1 | 9 | 6 | 2 | 8 |
| Farmers | 56 | 27 | 83 | 21 | 9 | 30 | 8 | 2 | 10 | 10 | 8 | 18 | 9 | 3 | 12 | 8 | 5 | 13 |
| Chemists | 4 | 1 | 5 | — | — | — | 2 | — | 2 | — | — | — | 1 | — | 1 | 1 | 1 | 2 |
| Agents | 3 | — | 3 | 1 | — | 1 | — | — | — | — | — | — | 1 | — | 1 | 1 | — | 1 |
| Brewers | 2 | — | 2 | — | — | — | — | — | — | 2 | 2 | — | — | — | — | — | — | — |
| Hotel-keepers | 6 | 2 | 8 | 5 | 2 | 7 | — | — | — | — | — | — | 1 | — | 1 | — | — | — |
| Tradesmen | 10 | 3 | 13 | 5 | 1 | 6 | 2 | 1 | 3 | — | — | — | 2 | 1 | 3 | 1 | — | 1 |
| Clerks | 27 | 1 | 28 | 6 | — | 6 | 2 | 1 | 3 | 2 | — | 2 | 7 | — | 7 | 10 | — | 10 |
| Drapers | 12 | 1 | 13 | 3 | 1 | 4 | 1 | — | 1 | 4 | — | 4 | 2 | — | 2 | 2 | — | 2</ |

Table showing the position in society and occupations of the cases admitted, and the results of treatment—(continued).

| | Totals. | | | Recovered | | | Relieved. | | | Not improved | | | Died. | | | Remain- ing. | | |
|------------------------------|---------|----|----|-----------|----|----|-----------|----|----|--------------|----|----|-------|----|----|-----------------|----|----|
| | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| Soldiers and policemen . | 7 | — | 7 | 1 | — | 1 | 1 | — | 1 | — | — | — | 3 | — | 3 | 2 | — | 2 |
| Butchers | 2 | — | 2 | — | — | — | — | — | — | — | — | — | 2 | — | 2 | — | — | — |
| Shepherds | 1 | 3 | 4 | — | 2 | 2 | — | — | — | — | — | — | 1 | — | 1 | — | 1 | 1 |
| Scholars | 2 | — | 2 | 1 | — | 1 | — | — | — | — | — | — | 1 | — | 1 | — | — | — |
| Washerwomen | — | 2 | 2 | — | 1 | 1 | — | — | — | — | — | — | — | 1 | 1 | — | — | — |
| Horse-dealers | 2 | — | 2 | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — |
| Dancing-master | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — |
| Musician | 1 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — |
| Weavers | 6 | 2 | 8 | 1 | 1 | 2 | 2 | — | 2 | 1 | — | 1 | 2 | — | 2 | — | 1 | 1 |
| Occupation unknown | 4 | 8 | 12 | 2 | 1 | 3 | — | 1 | 1 | — | — | — | 2 | 4 | 6 | — | 2 | 2 |
| No occupation | 16 | 12 | 28 | — | 1 | 1 | 1 | 4 | 5 | 4 | 1 | 5 | 6 | 4 | 10 | 5 | 2 | 7 |

TABLE showing the per-centages of recoveries and deaths of the males, in various classes of society, drawn from the foregoing table. In Class I are comprised landed proprietors, independent gentlemen, and officers in the army and navy; in II, members of the learned professions; in III, members of other professions; in IV, commercial men; and in V, artisans and labourers.

| I. Proprietors. | | II. Learned Professions. | | III. Other Professions. | | IV. Commercial Men. | | V. Artisans. | |
|--------------------|-------|--------------------------------|-------|-------------------------------|-------|---------------------------|-------|-----------------|-------|
| Recovered | Died. | Recovered | Died. | Recovered | Died. | Recovered | Died. | Recovered | Died. |
| 35·7 | 22·6 | 26·5 | 25·5 | 29·1 | 33·3 | 33·8 | 18·5 | 40·8 | 23·6 |

A similar TABLE, showing the results among the females. Class I containing the wives, daughters, and widows of the first three classes of males in the former table; II, containing those of the commercial men; III, those of artisans and labourers.

| I. Affluent. | | II. Commercial. | | III. Artisans. | |
|-----------------|-------|--------------------|-------|-------------------|-------|
| Recovered | Died. | Recovered | Died. | Recovered | Died. |
| 29·3 | 22·5 | 47·1 | 19·2 | 51·9 | 24·6 |

A glance at the foregoing tables will show that those who live by brain-work are the most severe sufferers in mental disease, since the per-centage of recovery amongst them is much lower, while that of death is much higher, than in any other class. The proprietor-class

are more immune from evil results, and as we descend the social scale we find the chances of recovery increase and of death diminish, except in the artisan class, where deaths are more frequent. Among the females the same general rule holds. In the affluent class there is the lowest rate of recovery and the highest of deaths; and, as among the males, in the artisan class there exists the highest percentage of recoveries and also the highest proportion of deaths,

V. CAUSES OF INSANITY.

TABLE showing the various assigned causes of disease, and the results.

CAUSES.—Moral.

| ADMISSIONS. | | | | | | TERMINATIONS. | | | | | | | | | | | | | | |
|---|---------|----|----|-----------|----|---------------|-----------|----|----|---------------|----|----|-------|----|----|-----------------|----|----|--|--|
| | Totals. | | | Recovered | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | | | |
| | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | | |
| Anxiety | 29 | 8 | 37 | 10 | 5 | 15 | 3 | — | 3 | 7 | — | 7 | 7 | 2 | 9 | 2 | 1 | 3 | | |
| Change of mode of life | 1 | 1 | 2 | — | 1 | 1 | — | — | — | — | — | — | 1 | — | 1 | — | — | — | | |
| Disagreements, family | 3 | 6 | 9 | — | 2 | 2 | 1 | — | 1 | — | 1 | 1 | 1 | 2 | 3 | 1 | 1 | 2 | | |
| Disappointments | 9 | 4 | 13 | 2 | — | 2 | 2 | 1 | 3 | 1 | — | 1 | 3 | 2 | 5 | 1 | 1 | 2 | | |
| Ditto of affection | 7 | 13 | 20 | 3 | 5 | 8 | 1 | 1 | 2 | — | 3 | 3 | 2 | 4 | 6 | 1 | — | 1 | | |
| Ditto of ambition | 2 | — | 2 | — | — | — | — | — | — | 1 | — | 1 | — | — | — | 1 | — | 1 | | |
| Ditto of business | 5 | — | 5 | 3 | — | 3 | — | — | — | — | — | — | — | — | — | 2 | — | 2 | | |
| Distress (mental) | 1 | 2 | 3 | 1 | 1 | 2 | — | — | — | — | — | — | — | — | — | — | 1 | 1 | | |
| Excitement | 2 | 2 | 4 | 1 | 1 | 2 | 1 | — | 1 | — | — | — | — | 1 | 1 | — | — | — | | |
| Ditto at offer of marriage | — | 1 | 1 | — | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | | |
| Ditto, religious | 4 | 19 | 23 | 1 | 10 | 11 | 2 | — | 2 | 1 | 4 | 5 | — | 5 | 5 | — | — | — | | |
| Fear of destitution | 1 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — | | |
| False accusations | 1 | — | 1 | — | — | — | 1 | — | 1 | — | — | — | — | — | — | — | — | — | | |
| Fright | 3 | 2 | 5 | — | 1 | 1 | — | — | — | 1 | — | 1 | 2 | — | 2 | — | 1 | 1 | | |
| Family affliction | 1 | 3 | 4 | — | 1 | 1 | — | 1 | 1 | — | 1 | 1 | 1 | — | 1 | — | — | — | | |
| Grief | — | 2 | 2 | — | 1 | 1 | — | 1 | 1 | — | — | — | — | — | — | — | — | — | | |
| Ditto at loss of friends and relatives | 6 | 19 | 25 | 5 | 4 | 9 | — | 4 | 4 | — | 3 | 3 | — | 5 | 5 | 1 | 3 | 4 | | |
| Ditto, a son's crime | 1 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — | | |
| Ingratitude of a child | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | | |
| Jealousy | — | 2 | 2 | — | 2 | 2 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| Losses pecuniary | 15 | 5 | 20 | 4 | 1 | 5 | 3 | 1 | 4 | 3 | — | 3 | 5 | 2 | 7 | — | 1 | 1 | | |
| Marriage, delight at prospect of | 1 | — | 1 | — | — | — | — | — | — | 1 | — | 1 | — | — | — | — | — | — | | |
| Misfortunes | 3 | 1 | 4 | 3 | — | 3 | — | — | — | — | — | — | — | — | — | — | 1 | 1 | | |
| Ditto, family | 2 | 3 | 5 | — | 1 | 1 | 1 | — | 1 | — | 2 | 2 | 1 | — | 1 | — | — | — | | |
| Nervous shock | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 | | |
| Over indulgence | — | 1 | 1 | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| Pride | 2 | — | 2 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | | |
| Remorse | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| Solitary life | 2 | — | 2 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | | |
| Suspicion | — | 1 | 1 | — | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — | | |
| Treachery of a friend | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | | |
| Want of occupation | 2 | 1 | 3 | — | 1 | 1 | — | — | — | — | — | — | 2 | — | 2 | — | — | — | | |

CAUSES.—Physical.

| ADMISSIONS. | | | | TERMINATIONS. | | | | | | | | | | | | | | |
|--|---------|----|-----|---------------|----|----|-----------|----|----|---------------|----|----|-------|----|----|-----------------|----|----|
| | Totals. | | | Recovered | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | |
| | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| Ague | 1 | — | 1 | — | — | — | — | — | — | 1 | — | 1 | — | — | — | — | — | — |
| Apoplexy | 2 | — | 2 | — | — | — | — | — | — | — | — | — | 2 | — | 2 | — | — | — |
| Cerebral congestion | 5 | — | 5 | 5 | — | 5 | — | — | — | — | — | — | — | — | — | — | — | — |
| Catalepsy | 1 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — |
| Convulsions | 4 | — | 4 | 1 | — | 1 | — | — | — | 1 | — | 1 | 1 | — | 1 | 1 | — | 1 |
| Cold, exposure to | 2 | 4 | 6 | 2 | 2 | 4 | — | — | — | — | — | — | 2 | 2 | — | — | — | — |
| Climate, hot | 9 | 1 | 10 | 2 | — | 2 | 2 | — | 2 | 1 | 1 | 2 | 2 | — | 2 | 2 | — | 2 |
| Dissipation | 17 | 8 | 25 | 6 | 7 | 13 | 3 | — | 3 | 2 | — | 2 | 5 | 1 | 6 | 1 | — | 1 |
| Discharge, suppressed | 3 | 2 | 5 | 1 | 1 | 2 | — | 1 | 1 | 1 | — | 1 | 1 | — | 1 | — | — | — |
| Chorea | — | 1 | 1 | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | — |
| Dysentery | — | 1 | 1 | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | — |
| Dyspepsia | 1 | 7 | 8 | 1 | 3 | 4 | — | 1 | 1 | — | 1 | 1 | — | 2 | 2 | — | — | — |
| Development, imperfect | 1 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — |
| Ear, disease of | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — |
| Erysipelas | — | 1 | 1 | — | 1 | 1 | — | — | — | — | — | — | — | — | — | — | — | — |
| Epilepsy | 13 | 4 | 17 | 2 | 1 | 3 | — | 1 | 1 | 3 | — | 3 | 7 | 2 | 9 | 1 | — | 1 |
| Fever | 8 | 5 | 13 | 1 | 3 | 4 | 1 | — | 1 | 2 | — | 2 | 2 | 2 | 4 | 2 | — | 2 |
| Ditto, typhus | 1 | 4 | 5 | — | 1 | 1 | — | — | — | — | — | — | 2 | 2 | 1 | 1 | 2 | — |
| Ditto, scarlet | 1 | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — |
| Ditto, rheumatic | 1 | — | 1 | — | — | — | — | — | — | 1 | — | 1 | — | — | — | — | — | — |
| Hæmorrhoids | — | 1 | 1 | — | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — |
| Hysteria | — | 1 | 1 | — | — | — | — | 1 | 1 | — | — | — | — | — | — | — | — | — |
| Head, malformed | 2 | — | 2 | — | — | — | — | — | — | 1 | — | 1 | 1 | — | 1 | — | — | — |
| Ditto, injury | 12 | — | 12 | 4 | — | 4 | — | — | — | 2 | — | 2 | 4 | — | 4 | 2 | — | 2 |
| Intemperance | 108 | 28 | 136 | 41 | 12 | 53 | 17 | 5 | 22 | 11 | 2 | 13 | 22 | 7 | 29 | 17 | 2 | 19 |
| Ill health | 6 | 7 | 13 | 2 | 3 | 5 | — | 1 | 1 | 1 | 2 | 3 | 2 | — | 2 | 1 | 1 | 2 |
| Liver disease | 1 | — | 1 | — | — | — | 1 | — | 1 | — | — | — | — | — | — | — | — | — |
| Lactation | — | 7 | 7 | — | 4 | 4 | — | — | — | 2 | 2 | — | — | — | — | 1 | 1 | — |
| Masturbation | 48 | — | 48 | 18 | — | 18 | 5 | — | 5 | 9 | — | 9 | 5 | — | 5 | 11 | — | 11 |
| Old age | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 |
| Opium eating | — | 2 | 2 | — | — | — | — | 1 | 1 | — | — | — | 1 | 1 | — | — | — | — |
| Over-study | 29 | 3 | 32 | 9 | 2 | 11 | 4 | 1 | 5 | 2 | — | 2 | 6 | — | 6 | 8 | — | 8 |
| Over-work | 7 | 2 | 9 | 3 | 2 | 5 | 1 | — | 1 | — | — | — | 3 | — | 3 | — | — | — |
| Puerperal state | — | 11 | 11 | — | 7 | 7 | — | — | — | — | — | — | 3 | 3 | — | 1 | 1 | — |
| Paralysis | 2 | 1 | 3 | — | — | — | — | — | — | — | — | — | 1 | 1 | 2 | 1 | — | 1 |
| Pleurisy | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — |
| Poverty and destitution | 3 | 5 | 8 | 2 | 3 | 5 | 1 | — | 1 | — | — | — | 2 | 2 | — | — | — | — |
| Prison confinement | 1 | — | 1 | — | — | — | — | — | — | 1 | — | 1 | — | — | — | — | — | — |
| Phthisis pulmonalis | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — |
| Quack's treatment | 1 | — | 1 | — | — | — | — | — | — | 1 | — | 1 | — | — | — | — | — | — |
| Smoking, excessive | 2 | — | 2 | 1 | — | 1 | — | — | — | 1 | — | 1 | — | — | — | — | — | — |
| Sun stroke | 6 | — | 6 | 3 | — | 3 | 1 | — | 1 | — | — | — | 1 | — | 1 | 1 | — | 1 |
| Scrofula | 2 | 1 | 3 | — | — | — | — | 1 | 1 | — | — | — | 1 | — | 1 | 1 | — | 1 |
| Smallpox | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — |
| Uterine disorder | — | 32 | 32 | — | 8 | 8 | — | 5 | 5 | — | 6 | 6 | — | 9 | 9 | — | 4 | 4 |
| Mental disease ascribed to hereditary transmis- sion | 50 | 62 | 112 | 15 | 15 | 30 | 9 | 9 | 18 | 4 | 10 | 14 | 11 | 11 | 22 | 11 | 17 | 28 |
| Unknown | 60 | 82 | 142 | 9 | 29 | 38 | 14 | 12 | 26 | 10 | 5 | 15 | 13 | 21 | 34 | 14 | 15 | 29 |

TABLE showing the per-centages of recoveries and deaths in the cases of insanity produced by moral and physical causes.

| Moral Causes. | | | | Physical Causes. | | | |
|---------------|------|-------|------|------------------|------|-------|------|
| Recovered. | | Died. | | Recovered. | | Died. | |
| M. | F. | M. | F. | M. | F. | M. | F. |
| 34.9 | 39.1 | 25.4 | 24.7 | 31.8 | 36.7 | 22.4 | 22.2 |
| Total 36.9 | | 25.1 | | 33.8 | | 22.7 | |

The assigned causes are divided into moral and physical, and it appears that the former causes produce a disease which is more curable, but also more deadly, than the latter. Moral causes are assigned among the males in 20 per cent., and among the females in 25. The physical causes are by far the most frequent, being for the males and females respectively 80 and 75 per cent. These results agree with Dr. Hood's.* There are certain causes, however, which seem to produce the most curable forms of mental disease; these are, various kinds of mental anxiety, religious excitement, dissipation, intemperance, bodily ailments, poverty, and the puerperal state. Such causes are at once removed when the case comes under care into an asylum, and the disease, consequently, more readily disappears. On the other hand, when the cause is traceable to great pecuniary losses, to afflictions that appear irremediable, to climate, to grave lesions of the nervous system, to fever, and to disease of the uterus, the cases less seldom recover. In a former † number of this Journal, I have treated of heredity in insanity; here on that subject it need only be remarked that heredity predisposition was found in 49.61 per cent. of the whole number of admissions, and that the disease was attributed to heredity *solely* in 12. per cent. of the cases.

* Op. cit., p. 57.

† 'Journal of Mental Science,' April, 1863.

VI. AGE ON FIRST ATTACK.

TABLE showing the age at first attack, and the results of treatment.

| ADMISSIONS. | | | | TERMINATIONS. | | | | | | | | | | | | | | | | | |
|-------------|----|----|---|---------------|----|-----|-----------|----|----|-----------|----|----|---------------|----|----|-------|----|----|-----------------|----|----|
| Years. | | | | Totals. | | | Recovered | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | |
| | | | | M. | F. | T. | M | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M | F. | T. |
| Under | 10 | . | . | 13 | 6 | 19 | — | — | — | 3 | 1 | 4 | 2 | 1 | 3 | 4 | 2 | 6 | 4 | 2 | 6 |
| 10 | to | 15 | . | 7 | 4 | 11 | 3 | 2 | 5 | 1 | — | 1 | 1 | — | 1 | 1 | 2 | 3 | 1 | — | 1 |
| 15 | „ | 20 | . | 52 | 22 | 74 | 18 | 8 | 26 | 8 | 2 | 10 | 9 | 4 | 13 | 7 | 4 | 11 | 10 | 4 | 14 |
| 20 | „ | 25 | . | 63 | 40 | 103 | 23 | 10 | 33 | 12 | 5 | 17 | 8 | 9 | 17 | 9 | 10 | 19 | 11 | 6 | 17 |
| 25 | „ | 30 | . | 69 | 42 | 111 | 20 | 18 | 38 | 8 | 4 | 12 | 7 | 6 | 13 | 17 | 10 | 27 | 17 | 4 | 21 |
| 30 | „ | 35 | . | 43 | 32 | 75 | 9 | 12 | 21 | 4 | 6 | 10 | 6 | 3 | 9 | 15 | 5 | 20 | 9 | 6 | 15 |
| 35 | „ | 40 | . | 31 | 44 | 75 | 5 | 15 | 20 | 6 | 8 | 14 | 5 | 5 | 10 | 9 | 12 | 21 | 6 | 4 | 10 |
| 40 | „ | 45 | . | 38 | 36 | 74 | 14 | 14 | 28 | 1 | 5 | 6 | 11 | 5 | 16 | 11 | 6 | 17 | 1 | 6 | 7 |
| 45 | „ | 50 | . | 22 | 31 | 53 | 6 | 12 | 18 | 1 | 3 | 4 | — | 2 | 2 | 12 | 9 | 21 | 3 | 5 | 8 |
| 50 | „ | 55 | . | 8 | 9 | 17 | 2 | 4 | 6 | 3 | — | 3 | 1 | — | 1 | 2 | 3 | 5 | — | 2 | 2 |
| 55 | „ | 60 | . | 12 | 11 | 23 | 2 | 3 | 5 | 2 | 1 | 3 | 3 | — | 3 | 4 | 5 | 9 | 1 | 2 | 3 |
| 60 | „ | 65 | . | 6 | 5 | 11 | 1 | — | 1 | — | — | — | 1 | 1 | 2 | 4 | 2 | 6 | — | 2 | 2 |
| 65 | „ | 70 | . | 4 | 4 | 8 | 1 | 2 | 3 | — | — | — | 1 | — | 1 | 1 | 2 | 3 | 1 | — | 1 |
| 70 | „ | 75 | . | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — |
| 75 | „ | 80 | . | 1 | 1 | 2 | — | 1 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 |
| Unknown | . | . | . | 87 | 52 | 139 | 32 | 19 | 51 | 16 | 11 | 27 | 7 | 4 | 11 | 20 | 13 | 33 | 12 | 5 | 17 |

In this table the cases readmitted have been taken out, so that we have the period of life shown at which mental disease first appeared in the individual patients. The method pursued in making this table is the following:—The duration of attack prior to admission was deducted from the age on admission, and in cases in which a prior attack had occurred the age at the beginning of that attack was ascertained and noted. Those cases in which the disease is said to have begun under ten years of age are congenital cases of idiocy or imbecility.

TABLE showing the per-centages of recovered and died, the age on first attack being arranged in decennial periods.

| Ages in Years. | Per-centage on Admissions. | Per-centage Recovered. | Per-centage Died. |
|----------------|----------------------------|------------------------|-------------------|
| 10 to 20 | 9.4 | 36.4 | 16.47 |
| 20 " 30 | 23.7 | 33.1 | 21.4 |
| 30 " 40 | 16.64 | 27.3 | 27.3 |
| 40 " 50 | 14.1 | 36.2 | 29.9 |
| 50 " 60 | 4.43 | 27.5 | 35.0 |
| 60 " 70 | 2.1 | 21.0 | 47.4 |
| 70 " 80 | .33 | — | — |

VII. NUMBER OF ATTACKS.

TABLE showing the number of attacks and the results of treatment.

| ADMISSIONS. | | | | | | TERMINATIONS. | | | | | | | | | | | | | | |
|----------------|-----|-----|-----|----|----|---------------|----|----|-----------|----|----|---------------|----|----|-------|----|----|-----------------|--|--|
| Totals. | | | | | | Recovered. | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | |
| | | | | | | | | | | | | | | | | | | | | |
| M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | | | |
| First . . . | 354 | 245 | 599 | 93 | 75 | 168 | 51 | 33 | 84 | 57 | 32 | 89 | 88 | 68 | 156 | 65 | 37 | 102 | | |
| Second . . . | 74 | 60 | 134 | 30 | 33 | 63 | 12 | 7 | 19 | 7 | 7 | 14 | 18 | 8 | 26 | 7 | 5 | 12 | | |
| Third . . . | 19 | 23 | 42 | 9 | 11 | 20 | 1 | 4 | 5 | 1 | 1 | 2 | 7 | 4 | 11 | 1 | 3 | 4 | | |
| Frequent . . . | 53 | 33 | 86 | 32 | 20 | 52 | 6 | 3 | 9 | 2 | 1 | 3 | 4 | 4 | 8 | 9 | 5 | 14 | | |
| Unknown . . . | 21 | 19 | 40 | 5 | 3 | 8 | 4 | 4 | 8 | 3 | 4 | 7 | 4 | 6 | 10 | 5 | 2 | 7 | | |

TABLE showing the per-centages of the first, second, third, or frequent attacks in the admissions, and also the proportion of recoveries and deaths in each of those attacks.

| | Per Cent. on Admissions. | Per Cent. Recovered. | Per Cent. Died. |
|----------------|-----------------------------|-------------------------|-----------------|
| First . . . | 66.48 | 28.04 | 26.04 |
| Second . . . | 14.87 | 47.01 | 19.4 |
| Third . . . | 6.99 | 47.6 | 26.2 |
| Frequent . . . | 9.54 | 60.46 | 9.8 |

The results in these tables are sufficiently obvious. Sixty-six and a half of the cases admitted are first attacks, and of these the recoveries are lower, and the deaths higher, than in subsequent attacks. When the attacks become frequent the per-centage of recoveries is high.

VIII. DURATION OF ATTACK PRIOR TO ADMISSION.

TABLE showing the duration of mental disease, and the results of treatment.

| ADMISSIONS. | | | | TERMINATIONS. | | | | | | | | | | | | | | |
|---------------|-----|----|-----|---------------|----|-----|-----------|----|----|---------------|----|----|-------|----|----|-----------------|----|----|
| Totals. | | | | Recovered. | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | |
| | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| 1 Month . . . | 125 | 95 | 220 | 73 | 58 | 131 | 15 | 13 | 28 | 7 | 5 | 12 | 17 | 14 | 31 | 13 | 5 | 18 |
| 2 " . . . | 38 | 29 | 67 | 18 | 17 | 35 | 4 | 2 | 6 | 4 | 4 | 8 | 10 | 3 | 13 | 2 | 3 | 5 |
| 3 " . . . | 37 | 24 | 61 | 13 | 14 | 27 | 7 | — | 7 | 7 | — | 7 | 8 | 6 | 14 | 2 | 4 | 6 |
| 4 " . . . | 16 | 12 | 28 | 6 | 5 | 11 | — | 2 | 2 | 4 | 1 | 5 | 5 | 2 | 7 | 1 | 2 | 3 |
| 5 " . . . | 9 | 3 | 12 | 1 | 2 | 3 | 1 | — | 1 | 3 | — | 3 | 2 | — | 2 | 2 | 1 | 3 |
| 6 " . . . | 13 | 21 | 34 | 6 | 8 | 14 | 1 | 2 | 3 | 1 | 4 | 5 | 5 | 6 | 11 | — | 1 | 1 |
| 9 " . . . | 10 | 9 | 19 | 3 | 2 | 5 | 1 | 3 | 4 | 1 | — | 1 | 2 | 2 | 4 | 3 | 2 | 5 |
| 12 " . . . | 38 | 25 | 63 | 8 | 8 | 16 | 6 | 7 | 13 | 5 | 3 | 8 | 13 | 3 | 16 | 6 | 4 | 10 |
| 18 " . . . | 15 | 9 | 24 | 4 | 2 | 6 | 2 | 2 | 4 | — | — | — | 6 | 3 | 9 | 3 | 2 | 5 |
| 2 Years . . . | 40 | 15 | 55 | 7 | 4 | 11 | 8 | 2 | 10 | 8 | 2 | 10 | 9 | 6 | 15 | 8 | 1 | 9 |
| 3 " . . . | 25 | 14 | 39 | 7 | 3 | 10 | 2 | 1 | 3 | 4 | 3 | 7 | 5 | 5 | 10 | 7 | 2 | 9 |
| 4 " . . . | 29 | 13 | 42 | 4 | — | 4 | 5 | 2 | 7 | 7 | 2 | 9 | 6 | 7 | 13 | 7 | 2 | 9 |
| 5 " . . . | 15 | 7 | 22 | 3 | — | 3 | 1 | 1 | 2 | 3 | 3 | 6 | 4 | 3 | 7 | 4 | — | 4 |
| 6 " . . . | 9 | 11 | 20 | 2 | 2 | 4 | 2 | 2 | 4 | 1 | 3 | 4 | 1 | 1 | 2 | 3 | 3 | 6 |
| 8 " . . . | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 10 " . . . | 18 | 18 | 36 | — | 2 | 2 | 4 | 3 | 7 | 3 | 3 | 6 | 5 | 7 | 12 | 6 | 3 | 9 |
| 12 " . . . | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 15 " . . . | 9 | 13 | 22 | — | 1 | 1 | 3 | 2 | 5 | 2 | 2 | 4 | 3 | 2 | 5 | 1 | 6 | 7 |
| 18 " . . . | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 20 " . . . | 14 | 15 | 29 | — | — | — | 1 | 2 | 3 | 2 | 3 | 5 | 7 | 8 | 15 | 4 | 2 | 6 |
| 30 " . . . | 11 | 8 | 19 | — | — | — | 2 | 1 | 3 | 1 | 1 | 2 | 3 | 2 | 5 | 5 | 4 | 9 |
| 40 " . . . | 3 | 1 | 4 | — | — | — | — | — | — | 1 | — | 1 | 1 | — | 1 | 1 | 1 | 2 |
| Unknown . . . | 47 | 38 | 85 | 14 | 14 | 28 | 9 | 4 | 13 | 6 | 6 | 12 | 9 | 10 | 19 | 9 | 4 | 13 |

The good effects of early treatment are here well shown, for it may be observed that those admitted within a month of the origin of the disease recover at the rate of 59·5 per cent., and those within three months at the rate of 55·4 per cent.; while as the periods become longer before treatment is adopted the proportion of recoveries diminish, so that the recoveries may be said to be in direct proportion to the duration of the disease prior to admission. It is, however, to be remarked that violence in the early stage of insanity frequently necessitates immediate removal to an asylum of cases which are the most curable; we must therefore take the nature of the case itself, as well as the early supervision into consideration, in estimating the curative effects of asylum treatment. The percentage of deaths of those admitted within three months of the origin of the attack is 13·7, whilst of those whose disease had existed ten years it is 34·5, the average proportion being 23·4.

IX. BODILY HEALTH.

TABLE showing the condition of bodily health in those admitted, and the results of treatment.

| ADMISSIONS. | | | | | | TERMINATIONS. | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|-----|-----|---------------|----|----|------------|----|----|-----------|----|----|---------------|----|----|-------|----|----|-----------------|----|----|
| | | | | | | Totals. | | | Recovered. | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | |
| | | | | | | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| Good | . | . | . | 271 | 174 | 445 | 93 | 59 | 152 | 38 | 24 | 62 | 34 | 24 | 58 | 41 | 34 | 75 | 65 | 33 | 98 | | |
| Indifferent | . | . | . | 151 | 135 | 286 | 56 | 61 | 117 | 27 | 17 | 44 | 18 | 17 | 35 | 32 | 26 | 58 | 18 | 14 | 32 | | |
| Bad | . | . | . | 97 | 71 | 168 | 19 | 22 | 41 | 8 | 10 | 18 | 18 | 4 | 22 | 48 | 30 | 78 | 4 | 5 | 9 | | |
| Unknown | . | . | . | 2 | — | 2 | 1 | — | 1 | 1 | — | 1 | — | — | — | — | — | — | — | — | — | | |

TABLE of per-centages showing the proportion of those having, on admission, good, indifferent, or bad health, and the per-centage of recoveries and deaths.

| | Per Cent. on Admissions. | Per Cent. Recovered. | Per Cent. Died. |
|-------------------|--------------------------|----------------------|-----------------|
| Good . . . | 49·38 | 34·1 | 16·8 |
| Indifferent . . . | 31·74 | 40·9 | 20·28 |
| Bad . . . | 18·64 | 24·46 | 46·4 |

X. AGE ON ADMISSION.

TABLE showing, in quinquennial periods, the age on admission of the cases, and the results.

| Years. | | | | Totals. | | | Recovered | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | |
|---------|----|----|---|---------|----|-----|-----------|----|----|-----------|----|----|---------------|----|----|-------|----|----|-----------------|----|----|
| | | | | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| Under | 10 | . | . | 2 | 1 | 3 | — | — | — | — | — | — | — | — | — | 2 | 1 | 3 | — | — | — |
| 10 to | 15 | . | . | 1 | 1 | 2 | — | 1 | 1 | — | — | — | — | — | — | — | — | — | 1 | — | 1 |
| 15 | " | 20 | . | 27 | 15 | 42 | 14 | 7 | 21 | 6 | 2 | 8 | 2 | 1 | 3 | 2 | 3 | 5 | 3 | 2 | 5 |
| 20 | " | 25 | . | 77 | 24 | 101 | 28 | 9 | 37 | 11 | 5 | 16 | 13 | 5 | 18 | 14 | 3 | 17 | 11 | 2 | 13 |
| 25 | " | 30 | . | 77 | 45 | 122 | 23 | 16 | 39 | 9 | 4 | 13 | 11 | 11 | 22 | 8 | 10 | 18 | 26 | 4 | 30 |
| 30 | " | 35 | . | 59 | 35 | 94 | 16 | 16 | 32 | 13 | 4 | 17 | 6 | 2 | 8 | 17 | 6 | 23 | 7 | 7 | 14 |
| 35 | " | 40 | . | 60 | 56 | 116 | 20 | 20 | 40 | 8 | 9 | 17 | 9 | 5 | 14 | 13 | 16 | 29 | 10 | 6 | 16 |
| 40 | " | 45 | . | 58 | 49 | 107 | 9 | 19 | 28 | 10 | 9 | 19 | 8 | 11 | 19 | 20 | 6 | 26 | 11 | 4 | 15 |
| 45 | " | 50 | . | 39 | 54 | 93 | 13 | 23 | 36 | 2 | 6 | 8 | 4 | 3 | 7 | 15 | 12 | 27 | 5 | 10 | 15 |
| 50 | " | 55 | . | 32 | 30 | 62 | 15 | 12 | 27 | 4 | 2 | 6 | 5 | 1 | 6 | 6 | 8 | 14 | 2 | 7 | 9 |
| 55 | " | 60 | . | 18 | 25 | 43 | 8 | 6 | 14 | 1 | 1 | 2 | 2 | 2 | 4 | 5 | 9 | 14 | 2 | 7 | 9 |
| 60 | " | 65 | . | 15 | 12 | 27 | 5 | 3 | 8 | 1 | 1 | 2 | 2 | 2 | 4 | 5 | 3 | 8 | 2 | 3 | 5 |
| 65 | " | 70 | . | 7 | 7 | 14 | 1 | 2 | 3 | — | — | — | 1 | — | 1 | 4 | 5 | 9 | 1 | — | 1 |
| 70 | " | 75 | . | 5 | 1 | 6 | 1 | 1 | 2 | 1 | — | 1 | 1 | — | 1 | 2 | — | 2 | — | — | — |
| 75 | " | 80 | . | 3 | 2 | 5 | 1 | 1 | 2 | — | 1 | 1 | 1 | — | 1 | — | — | — | 1 | — | 1 |
| Unknown | . | . | . | 41 | 23 | 64 | 15 | 6 | 21 | 8 | 7 | 15 | 5 | 2 | 7 | 8 | 8 | 16 | 5 | — | 5 |

TABLE showing the per-centages of recoveries and deaths, in decennial periods, of age on admission.

| Ages 20 to 30. | | 30 to 40. | | 40 to 50. | | 50 to 60. | | 60 to 70. | |
|----------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
| Recovered. | Died. | Recovered. | Died. | Recovered. | Died. | Recovered. | Died. | Recovered. | Died. |
| 34.0 | 15.7 | 34.0 | 25.2 | 32.0 | 26.5 | 38.0 | 26.6 | 25.0 | 41.0 |

From the foregoing tables it appears that the most recoveries take place in those whose age on admission is between 15 and 20, and in those between 45 and 55. This is probably owing to changes that take place in the development of man at or about these periods, predisposing to less severe attacks of mental disease. Of the deaths, it will be seen that they steadily increase in proportion to age.

XI. FORM OF MENTAL DISEASE.

TABLE showing the results of treatment of various forms of mental disease.

| ADMISSIONS. | | | | TERMINATIONS. | | | | | | | | | | | | | | |
|------------------------------|---------|-----|-----|---------------|-----|-----|-----------|-----|-----|---------------|-----|-----|-------|-----|-----|-----------------|-----|-----|
| | Totals. | | | Recovered. | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | |
| | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| Idiocy | 6 | 3 | 9 | ... | ... | ... | 1 | 1 | 2 | ... | ... | ... | 3 | 1 | 4 | 2 | 1 | 3 |
| Imbecility | 10 | 6 | 16 | ... | ... | ... | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 2 | 4 | 4 | 2 | 6 |
| Dementia | 35 | 18 | 53 | 2 | 2 | 4 | 3 | 3 | 6 | 8 | 5 | 13 | 9 | 6 | 15 | 13 | 2 | 15 |
| Fatuity | 44 | 22 | 66 | ... | ... | ... | 5 | 3 | 8 | 5 | 4 | 9 | 16 | 12 | 28 | 18 | 3 | 21 |
| Monomania | 2 | 1 | 3 | ... | ... | ... | 1 | 1 | 1 | ... | 1 | 1 | ... | 1 | ... | ... | ... | ... |
| Ditto of pride | 28 | 21 | 49 | 17 | 4 | 21 | 3 | 2 | 5 | ... | 4 | 4 | 6 | 7 | 13 | 2 | 4 | 6 |
| Ditto of suspicion | 38 | 35 | 73 | 8 | 4 | 12 | 11 | 5 | 16 | 7 | 5 | 12 | 4 | 11 | 15 | 8 | 10 | 18 |
| Ditto of fear | 6 | 2 | 8 | 2 | 1 | 3 | 3 | ... | 3 | ... | ... | ... | 1 | 1 | 1 | ... | ... | 1 |
| Ditto of vanity | 3 | 2 | 5 | 1 | ... | 1 | 1 | 1 | 2 | ... | ... | ... | 1 | 1 | 1 | ... | ... | 1 |
| Ditto of ambition | 12 | 1 | 13 | 5 | ... | 5 | 1 | ... | 1 | 3 | ... | 3 | 3 | ... | 3 | ... | 1 | 1 |
| Moral insanity | 3 | 1 | 4 | 2 | 1 | 3 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Melancholia | 85 | 102 | 187 | 38 | 49 | 87 | 16 | 17 | 33 | 6 | 9 | 15 | 17 | 15 | 32 | 8 | 12 | 20 |
| Mania | 173 | 154 | 327 | 70 | 73 | 143 | 20 | 14 | 34 | 25 | 17 | 42 | 31 | 33 | 64 | 27 | 17 | 44 |
| Dipsomania | 35 | 11 | 46 | 24 | 7 | 31 | 7 | 3 | 10 | 1 | ... | 1 | 1 | 1 | 2 | 2 | ... | 2 |
| General paralysis | 41 | 1 | 42 | ... | 1 | 1 | ... | ... | ... | 12 | ... | 15 | 28 | ... | 28 | 1 | ... | 1 |

TABLE showing the proportions of the different forms of mental disease, and the per-centages of recovered and died in each form.

| Forms of Mental Disease. | Per Centages on Admissions. | Per Cent. Recovered. | Per Cent. Died. |
|----------------------------|-----------------------------|----------------------|-----------------|
| Melancholia . . . | 20·7 | 46·4 | 17·0 |
| Mania . . . | 36·29 | 43·6 | 19·8 |
| Monomania . . . | 16·7 | 27·8 | 21·2 |
| Dipsomania . . . | 5·1 | 67·3 | 4·0 |
| Fatuity and dementia . . . | 13·3 | 3·3 | 36·1 |
| General paralysis . . . | 4·6 | — | — |
| Congenital cases . . . | 2·7 | — | — |

The preceding tables show that next to dipsomania in curability is melancholia, and, after that, mania and monomania. Dipsomania is, however, frequently entered in the books as being recovered from, but the recovery only lasts, with too many cases, while the patient is under care in an asylum. Of the cases of general paralysis, one only is said to have recovered, and all the rest have been discharged, not improved, have died, or remain under treatment.

XII. DURATION OF ATTACK.

TABLE showing the duration of attack and the results of treatment.

| ADMISSIONS. | | | | TERMINATIONS. | | | | | | | | | | | | | | | | | | |
|-------------|-------|---|---|---------------|----|----|------------|-----|-----|-----------|-----|-----|---------------|-----|-----|-------|-----|-----|--------------|-----|-----|-----|
| | | | | Totals. | | | Recovered. | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | | |
| | | | | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | |
| 1 | Month | . | . | 1 | 1 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | 1 | ... | 1 | | |
| 2 | " | . | . | 7 | 7 | 14 | 3 | 3 | 6 | 2 | 1 | 3 | ... | ... | ... | 2 | 3 | 5 | ... | ... | ... | ... |
| 3 | " | . | . | 15 | 11 | 26 | 13 | 10 | 3 | ... | ... | ... | 1 | 1 | 2 | ... | 2 | ... | ... | ... | ... | ... |
| 6 | " | . | . | 40 | 36 | 76 | 21 | 24 | 5 | 4 | 5 | 9 | 5 | ... | 5 | 10 | 4 | 14 | ... | 3 | 3 | |
| 9 | " | . | . | 40 | 30 | 70 | 23 | 24 | 47 | 3 | 1 | 4 | 4 | 2 | 6 | 8 | 2 | 10 | 2 | 1 | 3 | |
| 12 | " | . | . | 34 | 30 | 64 | 22 | 17 | 39 | 4 | 4 | 8 | 5 | 2 | 7 | 3 | 5 | 8 | ... | 2 | 2 | |
| 18 | " | . | . | 53 | 38 | 91 | 26 | 21 | 47 | 6 | 7 | 13 | 8 | 3 | 11 | 8 | 5 | 13 | 5 | 2 | 7 | |
| 2 | Years | . | . | 21 | 12 | 33 | 8 | 7 | 15 | 3 | 4 | 7 | 2 | 1 | 3 | 7 | ... | 7 | 1 | ... | 1 | |
| 3 | " | . | . | 47 | 30 | 77 | 13 | 11 | 24 | 11 | 7 | 18 | 6 | 4 | 10 | 15 | 7 | 22 | 2 | 1 | 3 | |
| 4 | " | . | . | 33 | 17 | 50 | 8 | 5 | 13 | 6 | 4 | 10 | 6 | 3 | 9 | 10 | 3 | 13 | 3 | 2 | 5 | |
| 5 | " | . | . | 28 | 8 | 36 | 6 | ... | 6 | 7 | 1 | 8 | 7 | 1 | 8 | 5 | 3 | 8 | 3 | 3 | 6 | |
| 6 | " | . | . | 13 | 11 | 24 | 2 | 2 | 4 | 2 | 3 | 5 | 3 | 3 | 6 | 3 | 2 | 5 | 3 | 1 | 4 | |
| 8 | " | . | . | 11 | 14 | 25 | 2 | ... | 2 | 3 | 3 | 6 | 4 | 4 | 8 | 2 | 4 | 6 | ... | 3 | 3 | |
| 10 | " | . | . | 27 | 23 | 50 | 6 | 3 | 9 | 4 | 1 | 5 | 3 | 3 | 6 | 6 | 10 | 16 | 8 | 6 | 14 | |
| 15 | " | . | . | 27 | 20 | 47 | 1 | 1 | 2 | 4 | 1 | 5 | 4 | 3 | 7 | 8 | 10 | 18 | 10 | 5 | 15 | |
| 20 | " | . | . | 30 | 24 | 54 | 1 | 1 | 2 | 3 | 2 | 5 | 4 | 5 | 9 | 11 | 10 | 21 | 11 | 6 | 17 | |
| 30 | " | . | . | 33 | 17 | 50 | ... | ... | ... | 1 | 1 | 2 | 2 | 4 | 6 | 8 | 5 | 13 | 22 | 7 | 29 | |
| 40 | " | . | . | 11 | 9 | 20 | ... | ... | ... | 2 | 1 | 3 | 1 | ... | 1 | 2 | 5 | 7 | 6 | 3 | 9 | |
| 50 | " | . | . | 3 | 4 | 7 | ... | ... | ... | 1 | 1 | ... | ... | ... | ... | 2 | 1 | 3 | 1 | 2 | 3 | |
| Unknown | . | . | . | 47 | 38 | 85 | 14 | 13 | 27 | 9 | 4 | 13 | 6 | 6 | 12 | 9 | 10 | 19 | 9 | 5 | 14 | |

TABLE of per-centages of recoveries and deaths in those cases in which the attack was known to have terminated in recovery or death; the per-centages being calculated on the totals of recoveries and deaths, according to the duration of the attack.

| 1 Year. | | 2 Years. | | 3 Years. | | 4 Years. | | 5 Years. | |
|---------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|
| Recovered. | Died. | Recovered. | Died. | Recovered. | Died. | Recovered. | Died. | Recovered. | Died. |
| 80.0 | 20.0 | 75.6 | 24.3 | 52.1 | 49.1 | 50.0 | 50.0 | 42.8 | 57.1 |
| in 200 cases. | | in 82 cases. | | in 46 cases. | | in 20 cases. | | in 14 cases. | |
| 6 Years. | | 8 Years. | | 10 Years. | | 15 Years. | | 20 Years. | |
| Recovered. | Died. | Recovered. | Died. | Recovered. | Died. | Recovered. | Died. | Recovered. | Died. |
| 44.4 | 55.5 | 25.0 | 75.0 | 36.0 | 64.0 | 10.0 | 9.0 | 8.6 | 91.3 |
| in 9 cases. | | in 8 cases. | | in 25 cases. | | in 20 cases. | | in 23 cases. | |

The preceding tables are made by finding in each case the duration of attack before admission, and adding that to the period of residence in the asylum. Of course it is only in those cases that recover or die that we can obtain the exact duration of the mental disease. In those discharged relieved and not improved, and in those remaining, we have no data for ascertaining the duration of the attack. From the table of per-centages it will be seen that the greatest number of attacks are under one year's duration, and also that as the attack is prolonged so are the recoveries fewer, while the deaths increase. The attacks lasting under two years and above one are terminated by death in 24.4 per cent., whilst in those under five and above four, there is a much higher mortality, in fact, 57 per cent., and so on, until we find that the disease terminates only with life.

XIII. DURATION OF RESIDENCE.

TABLE showing the duration of residence of the cases admitted, and the results of treatment.

| ADMISSIONS. | | | | | | TERMINATIONS. | | | | | | | | | | | | | | | | | |
|--------------------|--|--|--|----|----|---------------|-----|-----|-----------|-----|-----|-----------|-----|-----|---------------|----|----|-------|-----|-----|-----------------|----|----|
| | | | | | | Totals. | | | Recovered | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | |
| | | | | | | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| 1 Month | | | | 19 | 11 | 30 | 3 | 4 | 7 | 2 | 1 | 3 | 2 | 1 | 3 | 11 | 5 | 16 | 1 | ... | 1 | | |
| 2 " | | | | 9 | 9 | 18 | 5 | 6 | 11 | 1 | ... | 1 | ... | ... | ... | 2 | 1 | 3 | 1 | 2 | 3 | | |
| 3 " | | | | 49 | 39 | 88 | 23 | 24 | 47 | 4 | 5 | 9 | 9 | 3 | 12 | 11 | 5 | 16 | 2 | 2 | 4 | | |
| 6 " | | | | 82 | 54 | 136 | 41 | 32 | 73 | 12 | 8 | 20 | 16 | 8 | 24 | 12 | 4 | 16 | 1 | 2 | 3 | | |
| 9 " | | | | 35 | 31 | 66 | 16 | 21 | 37 | 6 | 3 | 9 | 7 | 2 | 9 | 5 | 5 | 10 | 1 | ... | 1 | | |
| 12 " | | | | 84 | 60 | 144 | 35 | 28 | 63 | 18 | 16 | 34 | 10 | 4 | 14 | 11 | 8 | 19 | 10 | 4 | 14 | | |
| 18 " | | | | 36 | 18 | 54 | 18 | 12 | 30 | 4 | 2 | 6 | 5 | 3 | 8 | 6 | 1 | 7 | 3 | ... | 3 | | |
| 2 Years | | | | 42 | 27 | 69 | 15 | 4 | 19 | 10 | 6 | 16 | 8 | 8 | 16 | 9 | 6 | 15 | ... | 3 | 3 | | |
| 3 " | | | | 30 | 27 | 57 | 5 | 6 | 11 | 7 | 4 | 11 | 3 | 4 | 7 | 9 | 7 | 16 | 6 | 6 | 12 | | |
| 4 " | | | | 19 | 15 | 34 | 1 | 2 | 3 | 6 | 1 | 7 | 2 | 1 | 3 | 8 | 8 | 16 | 2 | 3 | 5 | | |
| 5 " | | | | 11 | 15 | 26 | 2 | ... | 2 | 1 | 1 | 2 | ... | 4 | 4 | 5 | 6 | 11 | 3 | 4 | 7 | | |
| 6 " | | | | 13 | 12 | 25 | ... | 2 | 2 | 1 | 1 | 2 | 4 | 1 | 5 | 3 | 5 | 8 | 5 | 3 | 8 | | |
| 8 " | | | | 5 | 7 | 12 | 1 | ... | 1 | ... | ... | ... | ... | 1 | 1 | 1 | 3 | 4 | 3 | 3 | 6 | | |
| 10 " | | | | 26 | 16 | 42 | 3 | 1 | 4 | 1 | 1 | 2 | 1 | ... | 1 | 9 | 11 | 20 | 12 | 3 | 15 | | |
| 15 " | | | | 21 | 22 | 43 | ... | ... | ... | ... | ... | ... | 2 | 2 | 4 | 9 | 13 | 22 | 10 | 7 | 17 | | |
| 20 " | | | | 24 | 14 | 38 | 1 | ... | 1 | 1 | 2 | 3 | 1 | 3 | 4 | 7 | 1 | 8 | 14 | 8 | 22 | | |
| 24 " | | | | 16 | 3 | 19 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 1 | 4 | 13 | 2 | 15 | | |

TABLE showing the per-centage of the recovered and died, according to the duration of residence.

| Time Resident. | Per-cent'age in Admissions. | Per Cent. Recovered. | Per Cent. Died. |
|-------------------------|--------------------------------|----------------------|-----------------|
| 1 Month | 3.33 | 23.3 | 53.3 |
| 2 " | 2.0 | 61.1 | 16.6 |
| 3 " | 9.7 | 53.4 | 18.1 |
| 6 " | 15.09 | 53.6 | 11.7 |
| 1 Year | 23.3 | 47.6 | 13.8 |
| 2 " | 13.65 | 39.8 | 17.8 |
| 3 " | 6.32 | 19.29 | 28.0 |
| 4 " | 3.77 | 8.8 | 47.0 |
| 5 " | 2.88 | 7.6 | 42.3 |
| 6 " | 2.77 | 8.0 | 32.0 |
| 8 to 24 Years | 17.09 | 3.89 | 37.6 |

The preceding tables are interesting when compared with those immediately before them, as showing that patients are very frequently brought to be treated in an asylum when the chance of arresting the mental disease, or even saving life, is past. Thus, it will be seen that there are almost no attacks of insanity lasting only for a month or less, as shown in the first of the two tables under the twelfth section; yet there is, as seen in those now under consideration, a great number of cases that terminate, one way or another, within a month of admission. Of these more than one half die, and only a fourth recover. If, however, we are able to tide over the first month's residence the chances of death are much diminished, and the chances of recovery improve. In the long periods of residence the per-centages of recoveries gradually fall, while those of death rise.

To exhibit, at a glance, the results of treatment of cases admitted year by year into an asylum, is the object of the following table. The number of patients of each sex admitted during each year are placed in the first column, and the other columns show the results at the end of 1864 of the cases so admitted. Some of the cases were, of course, only for a short time under observation, while others were the subjects of treatment for various periods up to twenty-five years. As year follows year there are always found some cases remaining in the asylum, and their gradual accumulation shows how the space in an old establishment gets filled up by incurable cases. Of the patients admitted in the opening year of this institution only eight now remain, and every year tells heavily on the small residue, so that it may almost now be said that the first generation of patients of the Crichton Institution has passed away. In the table following will be found the readmissions arranged in the same manner, and showing the frequency of readmission in individual cases.

| Year of Admission | Number of Patients | Recovered | Dead | Still in Asylum |
|-------------------|--------------------|-----------|------|-----------------|
| 1825 | 10 | 2 | 1 | 7 |
| 1826 | 12 | 3 | 2 | 7 |
| 1827 | 15 | 4 | 3 | 8 |
| 1828 | 18 | 5 | 4 | 9 |
| 1829 | 20 | 6 | 5 | 9 |
| 1830 | 22 | 7 | 6 | 9 |
| 1831 | 25 | 8 | 7 | 10 |
| 1832 | 28 | 9 | 8 | 11 |
| 1833 | 30 | 10 | 9 | 11 |
| 1834 | 32 | 11 | 10 | 11 |
| 1835 | 35 | 12 | 11 | 12 |
| 1836 | 38 | 13 | 12 | 13 |
| 1837 | 40 | 14 | 13 | 13 |
| 1838 | 42 | 15 | 14 | 13 |
| 1839 | 45 | 16 | 15 | 14 |
| 1840 | 48 | 17 | 16 | 15 |
| 1841 | 50 | 18 | 17 | 15 |
| 1842 | 52 | 19 | 18 | 15 |
| 1843 | 55 | 20 | 19 | 16 |
| 1844 | 58 | 21 | 20 | 17 |
| 1845 | 60 | 22 | 21 | 17 |
| 1846 | 62 | 23 | 22 | 17 |
| 1847 | 65 | 24 | 23 | 18 |
| 1848 | 68 | 25 | 24 | 19 |
| 1849 | 70 | 26 | 25 | 19 |
| 1850 | 72 | 27 | 26 | 19 |
| 1851 | 75 | 28 | 27 | 20 |
| 1852 | 78 | 29 | 28 | 21 |
| 1853 | 80 | 30 | 29 | 21 |
| 1854 | 82 | 31 | 30 | 21 |
| 1855 | 85 | 32 | 31 | 22 |
| 1856 | 88 | 33 | 32 | 23 |
| 1857 | 90 | 34 | 33 | 23 |
| 1858 | 92 | 35 | 34 | 23 |
| 1859 | 95 | 36 | 35 | 24 |
| 1860 | 98 | 37 | 36 | 25 |
| 1861 | 100 | 38 | 37 | 25 |
| 1862 | 102 | 39 | 38 | 25 |
| 1863 | 105 | 40 | 39 | 26 |
| 1864 | 108 | 41 | 40 | 27 |

TABLE showing the number of patients admitted each year into the Crichton Royal Institution, and the results at end of December, 1864.

| Years. | Totals. Admitted. | | | Recovered. | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | | Result unknown. | | |
|--------|----------------------|-----|-----|------------|-----|-----|-----------|-----|-----|------------------|-----|-----|-------|-----|-----|-----------------|-----|-----|--------------------|-----|-----|
| | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| 1839 | 37 | 26 | 63 | 7 | 11 | 18 | 4 | ... | 4 | 6 | 1 | 7 | 13 | 13 | 26 | 7 | 1 | 8 | ... | ... | ... |
| 1840 | 28 | 16 | 44 | 6 | 8 | 14 | 4 | 1 | 5 | 4 | 4 | 8 | 10 | 3 | 13 | 4 | ... | 4 | ... | ... | ... |
| 1841 | 26 | 20 | 46 | 5 | 6 | 11 | 4 | 3 | 7 | 4 | 3 | 7 | 12 | 8 | 20 | 1 | ... | 1 | ... | ... | ... |
| 1842 | 29 | 6 | 35 | 15 | 2 | 17 | 3 | ... | 3 | 2 | 1 | 3 | 7 | 3 | 10 | 2 | ... | 2 | ... | ... | ... |
| 1843 | 23 | 20 | 43 | 7 | 4 | 11 | 5 | 3 | 8 | 2 | 1 | 3 | 8 | 10 | 18 | 1 | 2 | 3 | ... | ... | ... |
| 1844 | 17 | 17 | 34 | 8 | 7 | 15 | ... | 2 | 2 | 1 | 2 | 3 | 6 | 4 | 10 | 2 | 2 | 4 | ... | ... | ... |
| 1845 | 23 | 23 | 46 | 11 | 8 | 19 | 3 | 2 | 5 | 2 | 4 | 6 | 5 | 7 | 12 | 2 | 2 | 4 | ... | ... | ... |
| 1846 | 21 | 28 | 49 | 6 | 8 | 14 | 5 | 4 | 9 | 3 | 3 | 6 | 5 | 10 | 15 | 2 | 2 | 4 | ... | 1 | 1 |
| 1847 | 31 | 23 | 54 | 14 | 7 | 21 | 3 | 1 | 4 | 2 | 1 | 3 | 10 | 11 | 21 | 1 | 3 | 4 | 1 | ... | 1 |
| 1848 | 17 | 17 | 34 | 5 | 9 | 14 | 4 | 3 | 7 | ... | 1 | 1 | 2 | 3 | 5 | 4 | ... | 4 | 2 | 1 | 3 |
| 1849 | 17 | 22 | 39 | 2 | 10 | 12 | 4 | 1 | 5 | 3 | ... | 3 | 3 | 6 | 9 | 5 | 1 | 6 | ... | 4 | 4 |
| 1850 | 10 | 7 | 17 | 3 | 3 | 6 | 1 | ... | 1 | 2 | 3 | 5 | ... | 1 | 1 | 4 | ... | 4 | ... | ... | ... |
| 1851 | 15 | 17 | 32 | 6 | 4 | 10 | 3 | 4 | 7 | 1 | 2 | 3 | 5 | 3 | 8 | ... | 3 | 3 | ... | 1 | 1 |
| 1852 | 13 | 18 | 31 | 4 | 11 | 15 | 1 | 1 | 2 | 3 | 2 | 5 | 5 | 3 | 8 | ... | 1 | 1 | ... | ... | ... |
| 1853 | 19 | 6 | 25 | 3 | ... | 3 | 6 | 2 | 8 | 2 | 2 | 4 | 1 | 2 | 3 | 7 | ... | 7 | ... | ... | ... |
| 1854 | 22 | 9 | 31 | 3 | 2 | 5 | 1 | 1 | 2 | 6 | 1 | 7 | 6 | 2 | 8 | 5 | 3 | 8 | 1 | ... | 1 |
| 1855 | 19 | 13 | 32 | 8 | 6 | 14 | 1 | 3 | 4 | 4 | 1 | 5 | 5 | 2 | 7 | 1 | 1 | 2 | ... | ... | ... |
| 1856 | 14 | 8 | 22 | 6 | 5 | 11 | 1 | 3 | 4 | 1 | ... | 1 | 5 | ... | 5 | 1 | ... | 1 | ... | ... | ... |
| 1857 | 14 | 10 | 24 | 5 | 2 | 7 | 4 | 2 | 6 | 1 | 1 | 2 | 1 | ... | 1 | 3 | 5 | 8 | ... | ... | ... |
| 1858 | 16 | 10 | 26 | 4 | 1 | 5 | 2 | 2 | 4 | 3 | 3 | 6 | 4 | ... | 4 | 3 | 4 | 7 | ... | ... | ... |
| 1859 | 10 | 10 | 20 | 1 | 4 | 5 | 2 | 1 | 3 | 3 | 3 | 6 | 2 | ... | 2 | 2 | 2 | 4 | ... | ... | ... |
| 1860 | 9 | 6 | 15 | 4 | 1 | 5 | 1 | 2 | 3 | 2 | ... | 2 | 2 | 1 | 3 | ... | 2 | 2 | ... | ... | ... |
| 1861 | 17 | 8 | 25 | 7 | 3 | 10 | 3 | 2 | 5 | 1 | ... | 1 | 2 | ... | 2 | 4 | 3 | 7 | ... | ... | ... |
| 1862 | 22 | 15 | 37 | 5 | 5 | 10 | 1 | 4 | 5 | 5 | 1 | 6 | 2 | ... | 2 | 9 | 5 | 14 | ... | ... | ... |
| 1863 | 8 | 9 | 17 | 3 | 5 | 8 | 1 | ... | 1 | 1 | ... | 1 | 1 | ... | 1 | 2 | 4 | 6 | ... | ... | ... |
| 1864 | 17 | 13 | 30 | 6 | 1 | 7 | ... | 1 | 1 | 1 | ... | 1 | ... | 2 | 2 | 10 | 9 | 19 | ... | ... | ... |
| | 494 | 377 | 871 | 154 | 133 | 287 | 67 | 48 | 115 | 65 | 40 | 105 | 122 | 94 | 216 | 82 | 55 | 137 | 4 | 7 | 11* |

* In 11 cases, 4 males and 7 females, the results are unknown.

PATIENTS READMITTED.

Results at end of December, 1864.

| Years. | | | | Totals Admitted. | | | Recovered | | | Relieved. | | | Not Improved. | | | Died. | | | Remain- ing. | | |
|--------|---|-----|---|------------------|-----|-----|-----------|-----|-----|-----------|-----|-----|---------------|-----|-----|-------|-----|-----|--------------|-----|-----|
| | | | | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. | M. | F. | T. |
| 1840 | . | . | . | 3 | 2 | 5 | 1 | ... | 1 | 1 | 1 | 2 | ... | 1 | 1 | 1 | ... | 1 | ... | ... | ... |
| 1841 | . | . | . | 1 | 2 | 3 | ... | 2 | 2 | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | ... | ... | ... |
| 1842 | . | . | . | 1 | 1 | 2 | 1 | 1 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1843 | { | 2nd | . | 1 | 2 | 3 | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | 1 | ... | 1 |
| 1844 | { | 2nd | . | 3 | 1 | 4 | 1 | 1 | 2 | 2 | ... | 2 | ... | ... | ... | ... | 1 | 1 | ... | ... | ... |
| 1844 | { | 3rd | . | 1 | 1 | 2 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | ... | ... | ... |
| 1845 | . | . | . | ... | 1 | 1 | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1845 | . | . | . | 2 | 4 | 6 | 2 | 1 | 3 | ... | 2 | 2 | ... | ... | ... | ... | 1 | 1 | ... | ... | ... |
| 1846 | { | 4th | . | 2 | 2 | 4 | 1 | ... | 1 | ... | ... | ... | 1 | 1 | 2 | ... | 1 | 1 | ... | ... | ... |
| 1846 | { | 4th | . | ... | 1 | 1 | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1847 | { | 5th | . | 4 | ... | 4 | 1 | ... | 1 | 1 | ... | 1 | ... | ... | ... | 2 | ... | 2 | ... | ... | ... |
| 1847 | { | 5th | . | ... | 1 | 1 | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1848 | . | . | . | 3 | 1 | 4 | 2 | 1 | 3 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1848 | { | 6th | . | ... | 1 | 1 | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1849 | { | 2nd | . | 5 | 2 | 7 | 2 | ... | 2 | 1 | ... | 1 | 1 | ... | 1 | 1 | ... | 1 | ... | 2 | 2 |
| 1849 | { | 2nd | . | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | ... |
| 1850 | . | . | . | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1851 | { | 2nd | . | 2 | 2 | 4 | 2 | 1 | 3 | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1851 | { | 2nd | . | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | ... | ... | ... |
| 1852 | { | 2nd | . | 2 | 3 | 5 | ... | 1 | 1 | ... | ... | ... | 2 | ... | 2 | ... | 1 | 1 | ... | 1 | 1 |
| 1852 | { | 2nd | . | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 1 | ... | ... | ... |
| 1853 | . | . | . | 2 | 2 | 4 | 1 | 2 | 3 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1853 | { | 2nd | . | 3 | ... | 3 | 2 | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 |
| 1854 | . | . | . | ... | 2 | 2 | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 |
| 1855 | { | 2nd | . | 3 | 1 | 4 | 2 | ... | 2 | ... | ... | ... | 1 | 1 | ... | ... | ... | 1 | ... | 1 | ... |
| 1855 | { | 3rd | . | 1 | 1 | 2 | 1 | ... | 1 | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1856 | { | 2nd | . | 2 | ... | 2 | 2 | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1856 | { | 2nd | . | 1 | 1 | 2 | ... | ... | ... | ... | ... | ... | 1 | 1 | 2 | ... | ... | ... | ... | ... | ... |
| 1856 | { | 2nd | . | 1 | 1 | 2 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 |
| 1857 | . | . | . | 4 | ... | 4 | 1 | ... | 1 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | 2 | ... | 2 |
| 1857 | { | 4th | . | 1 | ... | 1 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1858 | . | . | . | 3 | ... | 3 | 2 | ... | 2 | ... | ... | ... | 1 | ... | 1 | ... | ... | ... | ... | ... | ... |
| 1858 | { | 2nd | . | ... | 1 | 1 | ... | ... | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1859 | . | . | . | 2 | ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | ... | 1 | ... |
| 1860 | { | 2nd | . | 2 | 1 | 3 | ... | 1 | 1 | ... | ... | ... | 2 | ... | 2 | ... | ... | ... | ... | ... | ... |
| 1860 | { | 4th | . | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 |
| 1861 | . | . | . | 1 | ... | 1 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1862 | . | . | . | 2 | 2 | 4 | 2 | 1 | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 |
| 1863 | . | . | . | 1 | 1 | 2 | 1 | 1 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1863 | { | 3rd | . | 1 | ... | 1 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1863 | { | 5th | . | 1 | ... | 1 | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 1864 | . | . | . | 4 | 3 | 7 | 2 | 1 | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 | 4 |
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| 1864 | { | 4th | . | 1 | ... | 1 | ... | ... | ... | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | | | | 73 | 46 | 119 | 38 | 21 | 59 | 9 | 6 | 15 | 8 | 4 | 12 | 7 | 6 | 13 | 11 | 9 | 20 |

From the preceding statistics we have ascertained that in regard to—

I. *Sex.*

1. There were 16 per cent. more males than females under treatment.
2. That the females recover more readily than the males.
3. That the number of deaths in each sex is nearly equal.

II. *Domestic Condition.*

1. That most of the patients were single.
2. That the highest proportion of recoveries was among the married, the next among the single, and the lowest among the widowed.
3. That the smallest proportion of deaths was among the married, a higher among the single, and the highest in the widowed.
4. That the married with offspring had a much greater chance of recovery, and a much less chance of death, than the married without offspring.

III. *Education.*

1. That those having a superior education recover less frequently than those whose minds are not so highly cultivated.
2. That those having moderate and indifferent educations have the best chance of recovery.
3. That the highest mortality occurs among those whose education is indifferent.

IV. *Occupation.*

1. That members of the learned professions have much less chance of recovery than men in any other occupation.
2. That artisans have the largest proportion of recoveries among them, proprietors next, commercial men next, and architects, engineers, &c., next.
3. That death is more frequent among the members of the professions, and less so among the other classes.
4. That among the females the fewest recoveries are among the affluent class, and the greatest in the commercial and artisan class.
5. That the deaths among females are more frequent in the artisan and affluent than in the commercial class.

V. *Cause.*

1. That the ascribed cause of insanity is much more frequently physical than moral.
2. That moral causes are more frequent among the females than the males.

3. That moral causes, both among males and females, produce an insanity more easily curable than physical causes.

4. That death in both sexes occurs more frequently among cases of mental disease produced by moral than by physical causes.

5. That one half of the cases were hereditary, and that 12 per cent. of them were ascribed entirely to hereditary transmission.

6. That the cases produced by easily removable causes are the most curable.

VI. *Age at which the Insanity first appeared.*

1. That the greatest number of first attacks occur between the ages of 20 and 30 years.

2. That the highest per-centages of recoveries occur in those attacked at the climacteric period, namely, between the ages of 10 and 20, and 40 and 50 years.

3. That the recoveries are next most frequent in those first attacked between 20 and 30; and that as life advances (with the exception of those in the disorder mentioned in the preceding paragraph) the chances of recovery diminish.

4. That the per-centage of death is higher the greater the ages at the first appearance of the insanity.

VII. *Number of Attacks.*

1. That 66 per cent. of the cases admitted are first, 15 per cent. second, 7 per cent. third, and 9 per cent. frequent attacks.

2. That by far the lowest proportion of recoveries takes place in those that suffer from the first attack, and that those having a second or frequent attacks recover in a much higher proportion.

3. That the proportion of deaths is higher in the first, and generally lower in the frequent attacks.

VIII. *Duration of Attack prior to Admission.*

1. That the earlier the patient is placed under treatment the greater is his chance of recovery.

2. That the number of deaths is fewer in those admitted soon after the appearance of insanity, than in those in which the disease has existed for longer periods.

IX. *Bodily Health.*

1. That nearly one half of the cases had good bodily health; that in 31 per cent. it was indifferent, and in 18 per cent. it was bad.

2. That the recoveries were high among those having good, but highest in those having indifferent, and lowest in those having bad health.

3. That the deaths were lowest in the first class, intermediate in the second, and highest in the third.

X. Age on Admission.

1. That the greatest number of patients admitted are between the ages of 20 and 50.
2. That most recoveries take place in those whose age is between 15 and 20, and 45 and 55, the two climacteric periods (see heading VI).
3. That the proportion of deaths steadily increases in proportion to age.

XI. Form of Mental Disorder.

1. That mania was the most frequent form of mental alienation; next melancholia, next monomania, and next dementia.
2. That after dipsomania, melancholia was the most curable, and after it mania and monomania.
3. That the deaths were most frequent in fatuity and dementia, less so in monomania; and that in mania and melancholia they were in the lowest proportion.

XII. Duration of Attack.

1. That the greatest number of attacks of mental disease last for less than one year.
2. That the longer the attack the fewer the recoveries.
3. That the longer the attack the greater become the proportion of deaths.

XIII. Duration of Residence in the Asylum.

1. That the mass of cases remain less than one year in the asylum.
2. That such cases are the most curable.
3. That more than a half of those cases that remain only for a month die, and that in those remaining six months the mortality reaches its minimum, and thereafter, in the longer periods of residence, on the whole, increasing.

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