

**Tables of the weights of some of the most important organs of the body at different periods of life / by John Reid.**

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TABLES OF THE WEIGHTS  
OF SOME OF  
THE MOST IMPORTANT ORGANS OF THE BODY  
AT  
DIFFERENT PERIODS OF LIFE.

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ST ANDREWS.

*(Extracted from the Lond. and Edin. Monthly Journal of Medical Science for April 1843.)*

The materials for the following tables were collected while I was attached to the Edinburgh Royal Infirmary. As my present position does not afford me many opportunities of adding to these, my store of facts is much less complete than I had intended. No one can be more perfectly satisfied than myself, that though, at first sight, the data I have amassed appear sufficiently ample to enable us to draw satisfactory conclusions regarding the average weight of some of the most important organs of the body at different periods of life; yet that they are, when more narrowly examined, much too scanty for the purposes intended. Comparatively few children are received into the Infirmary, and the greatest imperfections in the tables I have constructed are consequently to be found at the earlier periods of life. As the number of facts which I have collected regarding the weight of several internal organs of the body is, however, so considerable, I think it right to make them public in such a form, that they may be incorporated with other facts of the same kind; and it is with this view that I have given all the data in detail. I had at first intended to give the tables founded upon, and appended to the detailed data or individual facts; but after reflecting on the matter, I became satisfied that the latter



were more valuable than the former. The detailed facts may be incorporated with other identical facts collected by other individuals, and the basis for sound and correct deductions be thus enlarged, and rendered more trust-worthy; while the tables founded upon the detailed data cannot, in general, be incorporated with other tables drawn up by other labourers in the same field, and are often totally unserviceable when we wish to throw the facts into new arrangements. It not unfrequently happens, that different statistical collectors are more anxious to contrast the conclusions which they have deduced from the limited data procured by themselves with those drawn from equally circumscribed sources by others, than to admit that more accurate deductions might be drawn from an accumulation of *all* the identical facts collected by competent observers. Statisticians should look upon each other more in the light of allies, than as antagonists. The accumulation of individual facts on the subject with which we have at present to do, is chiefly valuable in pointing out the great variety in the weight of the same organs in a state of health in different individuals of the same age,—thus enforcing upon us the sources of fallacy to which we are liable in drawing our averages from a small number of cases, and impressing upon us the insufficiency of any comparison between the weight of a diseased organ in any individual case, and the *average weight* of a healthy organ at the same period of life in enabling us to form any correct estimate of the change in weight which it has undergone in consequence of morbid action, or other causes. A knowledge of the *average* in this, as in other cases of medical statistics, should only be considered as the preparatory step for the more successful investigation of the circumstances upon which the numerous deviations from the average depend. Among the adult male brains which I have weighed, I have found as great a difference as  $28\frac{1}{2}$  oz. between two brains,—the one being about  $12\frac{1}{4}$  oz. above the average weight, and the other about  $16\frac{1}{4}$  oz. below it. It would be waste of time to dwell upon the errors which might be committed in applying average weights in reasoning upon the effects of any particular changes upon the brain in these two individual cases.

In weighing the entire bodies in the subjoined tables, I took care to exclude all those in which any considerable inflammatory or dropsical effusion was found, and where there was much obesity. All the individual organs which did not appear quite healthy were also invariably rejected from the list of “weight of healthy organs.” In weighing the encephalon, and the different parts of it found in the tables, the following was the procedure adopted:—The skull-cap being removed, and the dura mater cut through, the hemispheres of the cerebrum were sliced cautiously down, the lateral ventricles were opened, and the



serum in their interior withdrawn by a pipette, and measured in a graduated glass vessel. The medulla spinalis was cut through on a level with the margin of the foramen magnum, and the whole encephalon was then weighed. The cura cerebri were then cut through as they emerge from the upper edge of the pons Varolii; and the cerebellum, medulla oblongata, and pons Varolii, were thus weighed together. To weigh the cerebellum separately, the pons Varolii and medulla oblongata were then detached by cutting through the cura cerebelli as they pass into the lateral lobes of the cerebellum. Before the heart was weighed, all the cavities had been opened, and emptied of their fluid and coagulated blood. In removing the heart, the large veins were cut across where they enter the auricles; but about an inch of each of the two large arteries leaving the heart was left attached to it, and weighed along with it. All the hearts presenting any considerable quantity of fat on their outer surface were not weighed. In all cases the weight used was avoirdupois.

The sign + in the column headed "Serum under arachnoid," indicates that a greater quantity of serum than usual was present in the subarachnoidean cellular tissue. The letter D in any of the columns indicates that the particular organ whose place it occupies in the column was diseased. The quantity of serum in the lateral ventricles was not recorded when it did not amount to half a drachm. The serum found in the lateral ventricles was not weighed with the brain.



TABLES OF WEIGHTS OF HEALTHY ORGANS. (*Weights used Avoirdupois.*)

MALES.			CEREBRAL ORGANS.							
Age.	Occupation.	Weight of body.	Encephalon.	Cerebrum.	Cerebellum.	Cerebellum with pons and medulla oblongata.	Serum in lateral ventricles.	Serum under arachnoid.		
1 to 5 years.		st. lbs.	oz. dr.	oz. dr.	oz. dr.	f. oz. dr.	f. oz. dr.			
1 year.	..	..	39 12	35 4	4 0	4 3	..	..		
4½ "	..	2 1½	44 6	39 12	4 0	4 10	..	..		
3 "	..	1 6	39 8	35 0	4 0	4 3	..	..		
½ "	..	0 13½	27 8	24 8	2 8	3 0	..	..		
4 "	..	1 6½	45 4	39 14	4 10	5 6	0 1	..		
10 months.	..	1 2	..	..	..	..	..	..		
8 "	..	..	..	..	..	..	..	..		
Average,			39 4½	34 14	3 12	4 6½	..	..		
5 to 7 years.										
5 years.	..	2 2	42 8	37 0	4 6	5 8	..	..		
5 "	..	1 7	40 12	36 3	4 0	4 9	..	..		
6½ "	..	..	47 11	41 11	5 1	6 0	0 1½	..		
Average,			43 10	38 4½	4 7	5 6	..	..		
7 to 10 years.										
10 years.	..	..	47 14	41 14	..	6 0	..	..		
9 "	..	..	50 0	43 7	..	6 9	..	..		
7 "	..	2 1	52 14	47 3	5 0	5 11	..	..		
7 "	..	2 3½	40 12	36 2	4 0	4 10	..	..		
8 "	..	..	..	..	4 8	5 4	..	..		
8 "	..	..	42 0	36 1	5 2	5 15	0 2	+		
9 "	..	..	43 8	37 14	4 14	5 10	0 2½	..		
7 "	..	..	D.	..	..	..	..	..		
Average,			46 2¼	40 11	4 10½	5 10⅔	..	..		
10 to 13 years.										
11 years.	..	..	..	..	..	..	..	..		
10 "	..	..	50 12	45 0	5 0	5 12	..	..		
11 "	..	..	51 2	45 0	5 2	6 2	..	..		
11 "	..	..	43 8	38 2	4 9	5 6	0 6	+		
11 "	..	..	..	..	..	..	..	..		
Average,			48 7½	42 11½	4 14	5 12	..	..		
13 to 16 years.										
13 years.	..	..	50 2	44 2	..	6 0	..	..		
14 "	Ropemaker.	3 11½	43 10	38 0	..	5 10	..	..		
14 "	..	..	44 12	..	..	..	0 5	..		
13 "	Factory boy.	3 7	50 0	43 8	5 8	6 8	..	..		
15 "	Confectioner.	4 11½	49 2	42 14	..	6 4	..	..		
Average,			47 8½	42 2	..	6 1½	..	..		
16 to 20 years.										
17 years.	Shoemaker.	..	50 14	44 0	..	6 14	0 2	{3v. at base of brain.}		
16 "	..	..	..	..	..	..	..			
17 "	Pipemaker.	..	54 1	46 15	6 1	7 2	0 2			
19 "	..	9 0½	..	..	..	..	..			
19 "	..	..	56 0	..	..	..	..	..		
18 "	..	..	..	..	..	..	..	..		
18 "	..	7 13	48 0	42 8	4 8	5 8	..	..		
18 "	..	..	53 12	47 5	5 7	6 7	..	..		
16 "	..	..	..	..	..	..	..	..		
18 "	Pipemaker.	9 8	..	..	..	..	..	..		
18 "	Servant.	..	53 6	47 8	5 2	5 14	..	..		
17 "	..	..	..	..	..	..	..	..		
Average,			52 10½	45 10½	5 4½	6 6½	..	..		



THORACIC ORGANS.						ABDOMINAL ORGANS.						Cause of Death.
Heart.	Lungs.		Liver.	Kidneys.		Spleen.						
	Right.	Left.		Right.	Left.							
oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.						
1 8	3 8	2 14	17 4	1 14	1 14	..			Small-pox.			
2 4	4 0	3 0	16 8	1 2	1 6	5 0			Concussion of brain.			
2 4	..	..	16 0	1 8	1 10	..			Variola.			
..	..	..	7 8	0 10	0 10	..			Pneumonia.			
1 15	3 12	2 13	17 0	1 6	1 4	..			Burn (died 14 days after.)			
1 6	3 10	..	14 4	0 14	1 0	2 8			Variola.			
1 2	..	..	..	0 9	0 9	..						
1 11 $\frac{1}{2}$	3 11 $\frac{1}{2}$	2 14 $\frac{1}{2}$	14 6 $\frac{1}{2}$	1 2 $\frac{2}{3}$	1 3	3 10						
4 4	..	6 6	19 0	..	..	..			Ulceration of intestines.			
2 0	..	3 4	15 6	1 4	1 6	..			Pneumonia after burn.			
..	..	..	..	..	..	..			Pleurisy and morbus renum.			
3 2	..	4 13	17 3	..	..	..						
3 2	8 4	8 0	25 0	2 8	2 10	..			Scarlatina (died on 6th day,) thin.			
..	..	..	..	..	..	..			Concussion of brain; stout.			
..	..	..	..	..	..	..			Fever; died on 13th day of disease.			
2 14	5 14	5 0	24 0	1 8	1 10	1 10			Hæmorrhage from ulcer on leg.			
3 0	..	..	..	2 4	2 0	..			Abscess of cerebrum.			
2 10	..	..	..	..	..	..			Phthisis; much emaciated.			
2 14	D.	D.	19 6	2 12	2 11	..			Fever and chronic pneumonia.			
3 4	8 0	6 2	24 6	2 6	2 8	..			Disease of brain.			
2 15 $\frac{2}{3}$	7 6	6 6	23 3	2 4 $\frac{2}{3}$	2 6	..						
5 4	9 0	8 8	29 6	3 8	3 7	1 9			Abscess of brain; spare habit.			
4 9	..	..	33 2	2 13	2 14	..			Convul.; stout and healthy the day before.			
4 2	..	..	..	..	..	..			Bright's disease.			
3 8	..	..	..	3 0	3 2	..			Phthisis; very much emaciated.			
4 10	..	..	..	..	..	..			Gangrene of lungs, and abscess of brain.			
4 6 $\frac{2}{3}$	..	..	31 4	3 1 $\frac{1}{3}$	3 2	..						
5 8	..	..	35 0	3 14	4 4	3 8			Pneumonia after small-pox.			
..	..	..	..	..	..	..			Convulsions.			
..	..	..	..	..	..	..			Pneumonia and Bright's disease.			
4 15	7 12	..	37 0	4 0	4 0	3 0			Knee-joint; pneumonia.			
5 10	8 8	D.	34 8	3 6	3 6	..			Concussion of brain; death immediate.			
5 5 $\frac{1}{3}$	8 2	..	35 8	3 10 $\frac{2}{3}$	3 14	3 4						
8 4	..	..	..	..	..	..			Abscess of liver; emaciated.			
5 2	..	..	..	3 7	3 6	..			Phthisis; emaciated.			
..	..	..	..	..	..	..			Fever, died on 7th day.			
10 6	24 6	..	68 0	5 4	5 8	..			Peritonitis, 7 days after an injury.			
12 0	..	..	..	..	..	..			Pneumonia after small-pox.			
..	..	..	41 0	5 0	5 8	5 8			Phthisis.			
8 4	..	..	58 0	5 2	5 0	4 4			Ditto.			
9 0	13 4	10 12	57 8	..	..	9 0			Fever.			
D.	13 4	11 12	49 8	4 4	4 12	5 8			Disease of heart.			
D.	28 0	24 12	60 0	D.	D.	7 0			Bright's disease.			
8 2	12 10	12 6	40 0	3 10	4 1	4 8			Fever.			
8 0	..	..	43 4	5 8	5 12	3 0			Tumour of neck.			
8 10 $\frac{1}{4}$	18 4 $\frac{1}{2}$	14 14	50 12 $\frac{1}{2}$	4 9 $\frac{1}{2}$	4 13 $\frac{1}{2}$	5 8 $\frac{1}{2}$						
6 8	..	..	56 0	5 8	5 8	..			Half negro half Hindoo; variola.			



MALES.			CEREBRAL ORGANS.						
Age.	Occupation.	Weight of body.	Encephalon.	Cerebrum.	Cerebellum.	Cerebellum with pons and medulla oblongata.	Serum in lateral ventricles.	Serum under arachnoid.	
20 to 25 years.		st. lbs.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	f. oz. dr.		
23 years.	Baker.	..	48 14	42 2	..	6 8	..	..	
25 "	Labourer.	..	57 8	45 4	..	6 4	..	..	
22 "	Painter.	9 5	..	..	..	5 12	..	..	
21 "	Flesher.	9 11	52 14	..	..	..	0 1	..	
22 "	Chimney-sweep.	9 11½	45 8	39 8	5 0	6 0	0 0½	..	
21 "	Blacksmith.	6 8	47 8	41 7	..	6 1	..	..	
22 "	Labourer.	8 10	58 0	51 12	6 0	7 0	..	..	
24 "	Labourer.	7 12	50 14	..	..	..	0 1	..	
27 "	Clerk.	..	..	..	..	..	..	..	
23 "	Flésher.	..	49 4	..	..	..	..	..	
20 "	Tailor.	..	51 6	45 0	5 8	6 6	0 1½	+	
20 "	Labourer.	..	..	..	..	..	..	..	
20 "	Shoemaker.	8 9	54 0	47 11	5 5	6 5	0 0½	..	
21 "	Carter.	..	..	..	..	..	..	..	
22 "	Labourer.	..	..	..	..	..	..	..	
24 "	Cabinetmaker.	5 10	52 2	45 10	5 2	6 8	0 3	Slight.	
	Average,	..	51 1¾	44 7½	5 6	6 3⅙	..	..	
25 to 30 years.									
29 years.	Porter.	..	50 6	44 6	..	6 0	..	..	
26 "	Musician.	..	..	..	..	..	..	..	
26 "	Shoemaker.	..	50 4	43 12	..	6 8	..	..	
27 "	Soldier.	..	48 0	42 8	..	5 8	..	..	
28 "	Labourer.	..	..	..	..	..	..	..	
25 "	Labourer.	..	..	..	..	..	..	..	
25 "	Groom.	..	48 8	42 6	5 4	6 2	..	..	
26 "	Labourer.	10 4	..	..	..	..	..	..	
26 "	Labourer. <sup>1</sup>	18 11	45 8	39 12	4 15	5 12	0 1	..	
29 "	Shoemaker.	6 2	..	..	..	..	..	..	
29 "	Servant.	10 13	48 8	42 8	5 0	6 0	..	..	
27 "	Sawyer.	7 10	..	..	..	..	..	..	
28 "	Weaver.	..	51 6	45 13	..	5 9	0 1	..	
26 "	Weaver.	4 5	51 10	45 10	5 2	6 0	0 3	..	
27 "	Sailor.	7 6½	..	..	..	..	..	..	
28 "	Mason.	8 6	48 9	42 9	5 2	6 0	..	..	
28 "	Groom.	..	..	..	..	..	..	..	
27 "	Tinsmith.	6 4	..	..	..	..	..	..	
28 "	Clerk.	7 12	52 8	46 4	5 6	6 4	1 2	+	
25 "	Porter.	9 7	46 12	40 10	5 4	6 2	0 1	considerable	
26 "	Wright.	..	..	..	..	..	..	..	
27 "	Painter.	7 12½	48 8	43 4	4 12	5 4	0 0½	..	
29 "	Groom.	..	56 0	49 0	..	7 0	..	..	
28 "	Groom.	..	55 8	..	..	..	..	..	
25 "	Chimney-sweep.	..	..	..	..	..	..	..	
	Average,	..	50 2	43 11⅞	5 1½	6 0⅔	..	..	
	Average between 20 and 30,	..	50 9½	44 2	5 3½	6 2	..	..	
21 "	..	6 0	43 8	..	..	..	..	..	
27 "	Sailor.	..	46 4	40 0	..	6 4	..	..	

<sup>1</sup> The weight of the body in this individual was not included in the average weight of the body in the subsequent tables.



THORACIC ORGANS.						ABDOMINAL ORGANS.						Cause of Death.
Heart.	Lungs.				Liver.	Kidneys.				Spleen.		
	Right.		Left.			Right.		Left.				
oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.		
10 0	24 8	19 0	57 2	5 4	6 4	..	Peritonitis and pleuritis; intemperate.					
10 0	23 0	19 0	58 0	5 8	6 4	14 0	Fever. .					
14 8	18 2	..	49 0	5 0	4 0	..	Fracture of skull.					
..	..	..	..	6 10	6 10	4 0	Morbus cordis.					
12 0	23 8	..	..	6 0	6 0	..	Injury (died 3 days after receipt of.)					
8 8	..	..	..	5 14	5 10	7 8	Chronic pneumonia; intemperate.					
14 0	..	..	50 8	4 8	5 12	18 0	Fever, died on 11th day of disease.					
..	..	..	..	..	..	..	Fever.					
11 5	..	..	..	..	..	..	Disease of brain; dissipated.					
7 12	..	..	..	8 12	8 2	..	Phthisis and Bright's disease.					
9 0	..	..	51 0	5 8	5 12	3 6	Phthisis.					
9 2	..	..	50 4	5 9	6 0	18 0	Fever.					
11 12	..	..	66 0	D.	D.	10 12	Disease of kidney after scarlatina.					
D.	..	..	D.	6 8	6 10	14 10	Disease of heart; intemperate.					
8 0	..	..	..	..	..	..	Pneumonia.					
6 12	..	..	..	5 4	6 0	6 0	Phthisis.					
10 4	22 4½	19 0	54 8	5 12	6 1½	10 10						
11 0	28 2	22 4	..	6 6	6 12	..	Fever, 9th day.					
10 0	24 8	22 12	41 0	4 0	4 14	4 14	Disease of brain from injury.					
7	..	..	40 14	5 2	4 12	4 4	Phthisis.					
..	..	..	..	..	..	..	Pneumonia.					
12 2	..	..	54 0	5 0	5 0	8 10	Ditto.					
11 10	..	..	..	..	..	..	Bright's disease.					
..	..	..	..	..	..	12 2	Fever, 9th day of disease.					
12 0	15 12	9 2	..	4 1	4 1	..	Injury (died shortly after receipt of.)					
..	..	..	..	..	..	..	Disease of heart.					
..	..	..	..	4 13	6 0	5 0	Phthisis.					
9 6	..	..	..	..	..	..	Erysipelas; intemperate.					
9 8	..	..	51 0	5 6	6 2	9 0	Fever.					
..	..	..	..	..	..	..	Fever; intemperate.					
5 8	..	..	46 10	..	..	..	Pneumonia and diabetes; emaciated.					
12 4	..	28 2	..	..	..	..	Fever.					
12 5	27 14	25 10	69 0	..	..	13 4	Ditto.					
12 2	..	..	..	7 0	7 0	..	Phthisis.					
8 12	..	..	..	..	..	..	Chronic pneumonia.					
10 10	..	..	..	..	6 8	..	Delirium tremens and pneumonia.					
11 8	..	..	D.	4 12	5 0	..	Injury (14 hours after receipt of.)					
8 0	..	..	..	..	..	..	Phthisis.					
11 8	28 0	22 0	52 6	7 8	8 0	9 0	Fever, 8th day.					
14 0	..	..	D.	..	..	..	Erysipelas; intemperate.					
D.	..	..	..	..	..	..	Disease of heart.					
6 10	..	..	..	..	..	4 0	Phthisis.					
10 4½	24 12	21 10	50 10¾	5 6	5 12	7 12						
9 0	..	..	32 0	..	..	..	Phthisis; African, from Mozambique.					
..	..	..	..	..	..	..	Variola; mulatto, native of Antigua.					



MALES.			CEREBRAL ORGANS.								
Age.	Occupation.	Weight of body.	Encephalon.		Cerebrum.		Cerebellum.		Cerebellum with pons and medulla oblongata.	Serum in lateral ventricles.	Serum under arachnoid.
30 to 40 years.		st. lbs.	oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.	f. oz. dr.
36 years.	Labourer.	..	53	0	47	0	..	6	0	..	..
35 "	Weaver.	..	47	14	42	0	..	5	14	0	3
32 "	Quarrier.	..	58	7	51	13	..	6	10	..	..
33 "	Groom.	..	48	0	42	2	..	5	14	..	..
36 "	Hawker.	..	48	0	42	0	..	6	0	..	..
31 "	Mason.	..	55	0	48	0	..	7	0	0	2½
32 "	Chimney-sweep.	..	40	10	35	9	..	5	1	..	+
31 "	Labourer.	..	..	..	..	..	..	..	..	..	..
39 "	Weaver.	..	55	0	..	..	..	..	..	..	..
38 "	Shoemaker.	7 7½	50	14	44	8	5	6	6	6	..
34 "	Sailor.	..	46	12	..	..	..	..	..	..	+
35 "	Labourer.	8 0	54	4	47	8	5	14	6	12	0 1
35 "	Labourer.	8 5	50	0	43	11	5	4	6	5	0 2
34 "	Baker.	..	56	0	49	0	5	14	7	0	..
36 "	Labourer.	9 5	49	8	..	..	5	2	..	..	..
33 "	Wireworker.	..	..	..	..	..	..	..	..	..	..
36 "	Labourer.	..	..	..	..	..	..	..	..	..	..
35 "	Shoemaker.	..	54	0	47	10	5	7	6	6	0 2
36 "	Book-keeper.	10 0	52	0	46	0	5	0	6	0	0 2
38 "	Papermaker.	..	..	..	..	..	..	..	..	..	..
35 "	Porter.	..	45	8	39	10	5	0	5	14	0 7
37 "	Tailor.	..	..	..	..	..	..	..	..	..	..
30 "	Sailor.	..	..	..	..	..	..	..	..	..	..
30 "	Hawker.	..	..	..	..	..	..	..	..	..	..
33 "	Flesher.	..	50	4	..	..	..	..	..	..	..
38 "	Tailor.	7 1	48	4	41	15	5	5	6	5	0 0¾
32 "	Blacksmith.	..	62	8	54	0	..	8	8	0	2½
32 "	Cab-driver.	..	50	8	45	2	4	6	5	6	0 4
32 "	Groom.	..	..	..	..	..	..	..	..	..	..
36 "	Servant.	..	46	0	40	1	4	14	5	15	..
34 "	Labourer.	..	..	..	..	..	..	..	..	..	..
37 "	Miner.	8 13½	d.	..	..	..	..	..	..	..	..
37 "	Mason.	..	50	0	43	15	5	2	6	1	0 2
33 "	Mason.	..	..	..	..	..	..	..	..	..	..
Average,			51	15½	45	3½	5	3½	6	2½	..

THORACIC ORGANS.				ABDOMINAL ORGANS.				Cause of Death.
Heart.	Lungs.		Liver.	Kidneys.		Spleen.		
	Right.	Left.		Right.	Left.			
oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.		
..	21 0	13 0	..	5 4	5 4	..	{ Morbus cordis; intemperate; little fat; tissues pale.	
..	..	..	..	4 0	5 2	..	{ Caries of vertebrae; emaciated.	
..	..	..	57 8	..	7 3	..	{ Aneurism of aorta; disease of lungs and heart.	
7 10	..	..	49 0	5 4	5 4	..	{ Phthisis.	
11 0	..	..	..	8 6	9 6	..	{ Ditto; intemperate.	
8 14	..	..	46 14	4 12	4 14	..	{ Ditto.	
7 5	..	..	..	4 8	4 8	..	{ Ditto; intemperate.	
..	19 6	17 0	46 0	..	..	..	{ Aneurism of aorta.	
..	..	..	41 6	5 10	6 6	..	{ Ulceration of intestines with bronchitis; emaciated.	
11 2	18 0	18 0	36 0	4 15	5 14	7 0	{ Fever, died on the 13th day of disease.	
6 8	..	..	..	..	..	..	{ Phthisis and diabetes.	
9 12	18 12	17 8	54 0	6 0	6 12	..	{ Fever; spleen black and brittle, weight, 22 3.	
..	..	..	60 0	6 0	6 0	6 0	{ Fever.	
..	..	..	..	..	..	..	{ Ditto, died on 12th day.	
14 8	..	..	78 0	..	..	6 4	{ Bright's disease.	
13 0	..	..	58 0	..	..	..	{ Pneumonia; gangrene of lungs.	
12 12	..	..	..	5 12	6 4	6 8	{ Fever.	
11 0	..	..	..	..	..	..	{ Ditto; intemperate.	
13 14	..	..	72 6	6 4	7 12	..	{ Delirium tremens.	
9 0	..	..	50 12	5 4	5 0	6 0	{ Phthisis.	
12 2	..	..	70 8	..	..	..	{ Fever; fat and muscular; intemperate.	
8 8	..	..	44 0	4 2	4 8	6 4	{ Phthisis.	
12 0	..	25 0	..	6 12	..	..	{ Fever.	
10 12	20 2	20 0	65 4	5 8	5 10	..	{ Ditto.	
..	..	..	..	..	..	..	{ Disease of heart.	
9 6	..	..	37 12	4 4	4 14	..	{ Fever.	
D.	..	..	49 0	..	..	15 0	{ Bright's disease; hypertrophy of heart.	
13 10	20 0	23 8	D.	5 12	6 4	..	{ Injury of skull; died 5 hours after.	
13 8	..	..	D.	..	..	..	{ Abscess of liver.	
11 7	31 8	24 4	51 10	6 0	5 5	..	{ Fever; 10 days; intemperate.	
9 14	..	..	55 4	5 4	5 14	..	{ Ditto.	
10 2	30 8	23 2	57 0	5 0	5 2	5 10	{ Injury of brain, died 7 days after.	
D.	D.	D.	..	..	..	9 4	{ Phthisis; intemperate.	
8 0	D.	D.	45 0	4 0	4 15 1/2	8 8	{ Ditto.	
10 8	22 6 1/2	20 2 1/2	53 9 1/2	5 6 1/2	5 7	7 10 1/2		



MALES.			CEREBRAL ORGANS.							
Age.	Occupation.	Weight of body.	Encephalon.	Cerebrum.	Cerebellum.	Cerebellum with pons and medulla oblongata.	Serum in lateral ventricles.	Serum under arachnoid.		
40 to 50 years.		st. lbs.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	f. oz. dr.			
41 years.	Sailor.	..	46 6	40 8	..	5 14	..	+		
45 "	Printer.	..	51 0	44 8	..	6 8	0 2	+		
40 "	Tailor.	..	51 0	44 0	..	7 0	..	..		
45 "	Labourer.	11 0	53 0	46 8	5 7	6 8	..	..		
44 "	Sailor.	7 3½	47 8	41 8	5 0	6 0	0 4	..		
43 "	Coachman.	6 3	50 0	43 8	5 8	6 8	0 2	..		
40 "	Flax-dresser.	7 7½	..	..	..	..	..	..		
45 "	Soldier.	7 1	51 0	45 0	5 0	6 0	..	..		
40 "	Miner.	7 6	49 8	..	..	..	0 2	..		
40 "	Labourer.	10 0	..	..	..	..	..	..		
40 "	Sailor.	11 9	49 1	43 1	5 0	6 0	0 0½	..		
45 "	Labourer.	..	51 0	44 10	5 6	6 6	0 4	Slight.		
44 "	Ditto.	..	47 0	40 0	6 0	7 0	0 4	+		
44 "	Not known.	..	49 14	42 8	6 4	7 6	0 6	+		
48 "	Hawker.	..	50 8	45 0	4 8	5 8	..	..		
46 "	Cab-driver.	11 7	46 8	..	5 4	..	..	..		
44 "	Dancing master.	..	47 12	42 4	4 12	5 8	..	..		
48 "	Not known.	7 9	45 8	39 8	5 2	6 0	..	..		
43 "	Labourer.	..	49 0	42 10	5 4	6 6	1 2	Slight.		
43 "	Mason.	..	48 8	42 0	5 8	6 8	0 1	+		
45 "	Carpenter.	8 6	..	..	..	..	..	..		
44 "	Mason.	8 12	..	..	..	..	..	..		
41 "	Porter.	6 8	..	..	..	..	..	..		
42 "	Labourer.	9 11	..	..	..	..	..	..		
49 "	Ditto.	..	49 14	..	..	..	..	..		
45 "	Cabinetmaker.	..	49 0	43 12	5 0	6 0	0 1½	+		
46 "	Hatter.	..	52 0	46 0	5 6	6 0	0 3	..		
49 "	Labourer.	6 12	47 8	42 0	4 8	5 8	0 3½	+		
45 "	Ditto.	..	49 8	..	..	..	0 3	Slight.		
49 "	Ditto.	6 3	44 0	37 13	5 4	6 3	..	..		
42 "	Tailor.	..	50 0	..	..	..	..	..		
47 "	Not known.	9 2	51 0	44 12	5 2	6 4	0 3	+		
40 "	Labourer.	..	..	..	..	..	..	..		
45 "	Mason.	..	53 8	45 14	..	7 10	0 1½	..		
43 "	Mendicant.	..	45 14	40 8	4 10	5 6	0 0½	+		
47 "	Hawker.	..	D.	..	..	..	..	..		
45 "	Brassfounder.	7 7	53 8	46 14	5 14	6 10	0 3	+		
43 "	Soldier.	..	34 0	..	..	..	..	..		
48 "	Ditto.	..	48 0	42 0	5 2	6 0	..	..		
43 "	Cabinetmaker.	..	50 6	45 6	..	7 0	..	..		
45 "	Chimney-sweep.	6 11½	52 12	46 8	5 2	6 4	0 0½	..		
43 "	Soldier.	9 9	D.	..	..	..	..	..		
45 "	Tailor.	10 7	5 0	38 12	5 0	6 4	0 1½	..		
45 "	Labourer.	..	..	..	..	..	..	..		
Average,		..	48 13½	43 1½	5 3½	6 4½	..	..		



THORACIC ORGANS.						ABDOMINAL ORGANS.						Cause of Death.	
Heart.	Lungs.				Liver.	Kidneys.				Spleen.			
	Right.		Left.			Right.		Left.					
oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.		
10	14	20	8	19	4	..	..	..	..			{ Disease of liver, and Bright's disease of kidney.	
13	4	27	8	22	0	45	8	7	4	5	10	..	Fever, 10th day of disease.
..	..	..	..	..	..	..	..	..	..	..	..	..	Disease of heart; athletic.
15	6	29	8	25	8	57	4	5	8	..	..	..	Severe injury; muscular.
9	6	20	0	19	0	..	..	5	8	5	8	..	Cancer of penis; emaciated.
8	12	..	..	..	..	..	..	4	0	4	8	..	Phthisis and aneurism; dissipated.
..	..	..	..	..	..	..	..	4	12	5	0	..	Chronic disease of lungs.
..	..	..	17	0	..	..	..	..	..	12	6	..	Aneurism.
..	..	..	..	..	57	8	6	0	5	0	5	12	Spurious melanosis.
13	12	..	..	..	57	8	6	4	6	14	9	4	Fever, 9th day of disease.
..	..	..	..	..	..	..	..	..	..	..	..	..	Fever, 13th day.
..	..	..	..	..	..	..	..	..	..	..	..	..	Pneumonia; dissipated.
..	..	..	..	..	..	..	..	..	..	..	..	..	Phthisis.
..	..	..	..	..	..	..	..	..	..	..	..	..	Fever.
10	0	..	..	..	..	..	4	10	4	12	..	..	Phthisis.
11	12	32	0	26	12	56	0	..	..	..	..	..	Fever, 8th day of disease.
10	0	..	..	..	..	..	5	10	6	10	..	..	Delirium tremens.
..	..	..	..	..	..	..	..	..	..	..	..	..	.. .. ..
..	..	..	..	..	..	..	..	..	..	..	..	..	{ Phthisis and cerebriiform disease of stomach.
..	..	..	..	..	..	..	..	..	..	..	..	..	Fever; dissipated.
12	0	37	12	29	0	57	4	4	8	4	12	..	Drowned.
..	..	..	..	..	..	58	6	6	14	6	6	..	Phthisis.
..	..	..	..	..	..	52	0	4	8	4	0	..	Cerebriiform disease of stomach.
12	0	..	..	..	..	51	8	5	12	..	..	..	Meningitis after injury.
11	4	21	8	23	8	..	..	..	..	..	..	..	Dysentery.
9	14	26	8	19	8	49	8	5	0	6	0	3 6	Fever.
11	8	..	..	..	..	..	..	..	..	..	..	..	Pneumonia; dissipated.
9	0	..	..	..	..	..	4	8	4	4	..	..	Fever.
12	0	..	..	..	..	..	8	2	9	8	..	..	Ditto; dissipated.
8	2	..	..	..	..	38	12	5	0	5	0	6 0	Fever; of weak intellect.
11	0	..	..	..	D.	..	..	..	..	..	..	..	Phthisis.
11	2	31	0	28	0	61	0	..	5	12	6 4	..	Suffocated.
8	8	..	..	..	..	..	..	..	..	..	..	..	Red softening of brain.
..	..	..	..	..	..	..	..	..	..	..	..	..	Phthisis.
12	2	..	..	..	D.	..	4	12	5	4	2 2	..	From intoxication; of weak intellect.
12	12	24	4	21	8	55	8	D.	D.	..	..	..	Fever and cerebral disease.
10	10	..	..	..	..	58	8	7	0	7	10	4 10	Fever and pneumonia.
..	..	..	..	..	..	43	2	D.	D.	..	..	..	Phthisis.
12	6	D.	D.	D.	D.	..	6	0	6	0	..	..	Pneumonia of right lung.
..	..	..	..	..	..	..	..	..	..	..	..	..	Fever, 7th day.
D.	D.	D.	D.	D.	D.	44	0	4	0	4	10	..	Bronchitis of both lungs.
15	6	..	..	..	..	63	14	D.	D.	..	9 0	..	Inflammation of brain, &c.
14	14	31	0	29	0	60	0	D.	D.	10	0	..	Fever, 12th day; intemperate.
10	12	D.	D.	D.	D.	53	6	5	0	4	0	..	Pneumonia.
11	6½	27	6	23	6	54	12½	5	7½	5	8½	6 14	



MALES.			CEREBRAL ORGANS.										
Age.	Occupation.	Weight of body.	Encephalon.		Cerebrum.		Cerebellum.		Cerebellum with pons and medulla oblongata.		Serum in lateral ventricles.		Serum under arachnoid.
		st. lbs.	oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.	f. oz.	dr.	f. oz. dr.
50 to 60 years.													
60 years.	Chimneysweep.	..	43	0	37	12	..		5	4	..		..
50 "	Ironfounder.	..	47	8	41	10	..		5	14	0	4	+
60 "	Ropemaker.	..	42	14	38	0	..		4	14	..		..
58 "	Weaver.	..	52	14	46	12	..		6	2	0	3½	..
59 "	Hatter.	..	39	0	32	9	..		6	7	0	2½	..
50 "	Carter.	..	42	2	36	6	..		5	6	..		..
50 "	Clerk.	..	48	0	42	6	..		5	10	..		..
50 "	Carter.	..	51	0	44	12	..		6	4	0	1½	Slight.
53 "	Labourer.	10 6	55	2	48	14	5	4	6	4	1	4	..
50 "	Labourer.	8 5½	59	0	51	15	6	0	7	1	0	0½	..
57 "	Papermaker.	..	50	6	44	8	4	15	5	14	..		{ + with 4 drs. at base of brain.
58 "	Labourer.	7 4	51	0	45	0	5	1	6	0	0	2½	
53 "	Candlemaker.	7 4	56	2	50	3	5	0	5	15	0	1	+
50 "	Mason.	9 12	53	8	47	9	..		5	15	0	1	{ + with 1 oz. in the cavity of the arach- noid.
53 "	Wright.	9 6	..		..		..		..		..	..	
53 "	Sawyer.	..	50	2	43	13	5	8	6	5	0	2½	..
50 "	Labourer.	..	..		..		..		..		..		..
55 "	Hawker.	10	..		..		..		..		..		..
55 "	Shoemaker.	..	..		..		..		..		..		..
52 "	Carver.	..	..		..		4	12	5	8	..		..
50 "	Hawker.	..	44	0	38	8	4	8	5	8	..		..
52 "	Shoemaker.	8 7½	46	8	40	8	5	2	6	0	0	2	+
53 "	Porter.	..	56	4	48	8	5	13	6	12	..		..
54 "	Porter.	8 5½	..		..		..		..		..		..
55 "	Not known.	6 2	..		..		..		..		..		..
54 "	Porter.	8 4	46	6	40	6	5	0	6	0	0	1½	..
50 "	Joiner.	..	50	10	..		..		..		..		..
50 "	Tailor.	..	58	8	50	4	7	0	8	4	..		..
50 "	Labourer.	9 2	..		..		..		..		..		..
50 "	Labourer.	9 1	56	0	49	14	..		6	2	0	2	+
56 "	Musician.	6 8	40	0	..		..		..		0	3	..
57 "	Labourer.	10 11	51	0	44	12	5	2	6	4	0	0½	..
54 "	Mason.	..	48	0	42	4	4	14	5	14	..		+
54 "	Musician.	..	56	0	50	2	5	12	6	14	0	7	..
55 "	Shoemaker.	..	..		..		..		..		..		..
54 "	Painter.	7 10	51	6	45	6	5	0	6	0	0	6	..
55 "	Confectioner.	..	52	4	45	6	5	12	6	14	0	6	+
59 "	Shoemaker.	..	..		..		..		..		..		..
50 "	Labourer.	..	..		..		..		..		..		..
59 "	Dog-keeper.	..	49	0	42	8	5	6	6	8	0	2½	+
57 "	Soldier.	..	..		..		..		..		..		..
Average,		..	50	2	44	1½	5	5⅛	6	2⅛	..		..



THORACIC ORGANS.						ABDOMINAL ORGANS.						Cause of Death.
Heart.	Lungs.				Liver.	Kidneys.				Spleen.		
	Right.		Left.			Right.		Left.				
oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.		
8 10	..	..	..	42 0	4 0	4 2	..	..	6 6	..	Pneumonia after amputation.	
12 4	18 14	18 8	..	60 0	..	..	..	..	..	..	Erysipelas; 5th day of disease; muscular.	
11 2	30 0	27 12	..	43 10	4 0	4 10	..	..	..	..	Lithotomy; 9th day; muscular.	
17 8	31 2	26 4	..	53 8	..	..	..	..	..	..	Morbus renum.	
9 14	..	..	..	40 8	4 8	4 9	..	..	..	..	Phthisis; dissipated.	
11 14	..	..	..	48 0	5 0	4 12	4 1	..	..	..	Stricture and ulceration of œsophagus.	
..	..	..	..	..	..	..	..	..	..	..	Morbus cordis; dissipated.	
11 2	18 2	15 6	..	54 12	5 10	6 0	..	..	..	..	Pleurisy; dissipated.	
14 10	..	..	..	..	..	..	7 0	..	..	..	Swallowed sulphuric acid.	
11 6	15 6	12 6	..	..	5 6	5 12	..	..	..	..	Cerebriform disease of stomach.	
9 12	21 8	17 12	..	40 8	..	..	..	..	..	..	Fever; 12th day; in great poverty.	
14 0	37 6	21 8	..	54 8	5 4	4 6	..	..	..	..	Morbus cordis.	
..	..	..	..	..	5 10	5 14	..	..	..	..	Injury of spine; 3d day after accident.	
13 8	..	..	..	58 0	5 4	5 4	5 0	..	..	..	Disease of brain.	
13 8	..	..	..	..	..	..	..	..	..	..	Delirium tremens and pneumonia.	
8 8	..	..	..	..	4 12	..	5 2	..	..	..	Morbus renum.	
..	..	..	..	23 12	..	..	..	..	..	..	Phlegmonous erysipelas.	
13 0	26 8	25 0	..	49 0	6 10	7 4	6 6	..	..	..	Disease of brain.	
11 8	..	..	..	..	5 0	5 0	..	..	..	..	Disease of brain.	
..	..	..	..	54 2	..	..	..	..	..	..	Double pneumonia.	
..	..	..	..	..	..	..	..	..	..	..	Delirium tremens.	
10 10	23 8	19 0	..	..	4 6	4 8	6 4	..	..	..	Bronchitis.	
..	..	..	..	48 4	..	..	5 4	..	..	..	Apoplexy.	
13 14	38 0	35 0	..	52 6	5 2	5 4	..	..	..	..	Chronic disease of lungs.	
8 6	..	..	..	..	..	..	..	..	..	..	Fever; 10th day.	
10 4	44 8	34 0	..	58 4	7 0	6 4	..	..	..	..	Chronic pneumonia.	
..	..	..	..	..	6 4	6 8	..	..	..	..	Fever; 16th day.	
..	..	..	..	..	..	..	..	..	..	..	Emphysema and bronchitis.	
..	..	..	..	57 0	..	..	..	..	..	..	Fever; 6th day.	
12 8	31 8	30 4	..	..	..	..	10 0	..	..	..	Cerebriform disease of stomach.	
7 6	..	..	..	..	..	..	..	..	..	..	Fever; 14th day.	
9 8	..	..	..	..	..	..	..	..	..	..	Cerebriform disease of stomach.	
..	..	..	..	..	..	..	..	..	..	..	Ulceration of stomach.	
..	..	..	..	..	..	..	..	..	..	..	Fever; 12th day.	
11 8	..	..	..	..	..	..	..	..	..	..	Fever; 10th day.	
10 0	33 14	24 0	..	37 2	..	..	7 8	..	..	..	Morbus renum and abscess in perineum.	
7 0	22 0	14 12	..	55 10	D.	D.	..	..	..	..	Disease of heart.	
D.	25 0	21 0	..	..	..	..	..	..	..	..	Disease of brain.	
11 12	21 0	18 6	..	41 8	..	..	..	..	..	..	Delirium tremens.	
..	..	..	..	..	..	..	..	..	..	..	Morbus cordis.	
..	20 0	22 14	..	..	..	..	..	..	..	..		
11 10 $\frac{1}{2}$ $\frac{5}{7}$	27 2	22 6 $\frac{8}{7}$	..	48 9 $\frac{1}{2}$ $\frac{8}{20}$	5 3 $\frac{1}{2}$ $\frac{2}{20}$	5 5 $\frac{1}{2}$ $\frac{1}{20}$	6 4 $\frac{1}{2}$ $\frac{4}{20}$	..	..	..		



MALES.		CEREBRAL ORGANS.								THORACIC ORGANS.				ABDOMINAL ORGANS.				Cause of Death.
Age.	Occupation.	Weight of body.	Encephalon.	Cerebrum.	Cerebellum.	Cerebellum with pons and medulla oblongata.	Serum in lateral ventricles.	Serum under attachment.	Heart.	Lungs.		Liver.	Kidneys.		Spleen.			
		st. lbs.	oz. dr.	oz. dr.	oz. dr.	f. oz. dr.	f. oz. dr.	f. oz. dr.	oz. dr.	oz. dr.	Right.	Left.	oz. dr.	Right.	Left.	oz. dr.		
60 to 70 years.	Schoolmaster.	..	40 12	34 8	..	6 4	0 2	+	..	..	..	..	..	..	..	..	Fever; 11th day; dissipated.	
64 years.	Weaver.	..	52 6	46 8	..	5 14	1 0	+	11 0	27 0	24 2	45 6	..	..	..	..	Fever; 13th day.	
68 "	Labourer.	..	..	..	..	..	..	..	8 0	28 6	22 8	42 4	4 12	5 4	3 10	..	Scirrhus of stomach; emaciated.	
61 "	..	..	59 1	51 13	6 3	7 4	1 3	+	11 10	..	..	..	..	..	..	..	Pneumonia & pleurisy from fracture of ribs.	
65 "	Shoemaker.	9 4	60 4	53 10	5 10	6 10	0 3	+	13 0	30 4	24 8	45 12	..	..	..	..	Bright's disease. [tore of ribs.	
62 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Disease of heart and lungs.	
64 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Disease of heart and Bright's disease.	
68 "	..	11 0	47 8	42 6	4 2	5 2	0 2½	..	..	..	..	..	5 0	5 0	5 12	..	Disease of heart.	
64 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Lithotomy.	
66 "	..	9 8	46 4	40 14	4 2	5 6	0 6	Slight.	15 4	15 8	15 8	51 8	..	..	..	..	Fever; intemperate.	
67 "	Labourer.	..	45 7	39 7	5 0	6 0	0 2	+	..	..	..	51 12	..	..	..	..	Fever; 10th day.	
62 "	Servant.	..	51 12	45 2	..	6 10	..	Slight.	15 14	D.	D.	..	..	..	..	..	Fever; 19th day pneumonia.	
60 "	Tailor.	..	..	..	..	..	..	..	11 8	..	..	..	4 0	4 8	..	..	Bronchitis.	
	Average,	..	50 6½	40 4¼	5 0	6 2	..	..	12 6¼	25 4½	21 10½	48 9½	4 9½	4 14½	4 6	6		
70 to 80 and upwards	Groom.	..	49 8	43 4	..	6 4	0 1½	..	12 0	..	..	..	..	..	..	..	[muscular.	
70 years.	Gardener.	..	54 10	48 2	5 8	6 8	0 4	+	..	..	..	..	..	..	..	..	Pneumonia; intemperate; stout;	
77 "	Japanese.	..	46 12	41 8	4 6	5 4	0 7½	+	..	..	..	..	..	..	..	..	Cerebriform disease of kidney.	
71 "	Shoemaker.	..	46 0	40 0	5 2	6 0	0 6	+	8 4	D.	D.	48 0	4 6	5 0	3 2	..	Injury; 28 days.	
70 "	..	..	43 8	38 4	4 8	5 4	0 4	+	10 4	32 0	18 0	44 0	4 8	4 14	4 4	6	Recent pneumonia.	
74 "	Weaver.	..	47 0	40 12	..	6 4	0 1½	+	9 8	22 0	20 2	..	..	..	..	..	Lumbar abscess.	
83 "	Mendicant.	..	50 8	44 10	4 14	5 14	0 4	Slight.	7 0	14 8	..	..	..	..	1 0	..	Cerebriform disease.	
89 "	..	5 13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Scirrhus pylori.	
	Average,	..	48 4½	42 5½	4 14	5 14½	..	..	9 6½	22 2½	19 0	46 0	4 6	4 14	3 12	6		



## DISEASED BRAINS.

(Serum and Pus found in Brain not weighed.)

## MALES.

Age.	Encephalon.		Cerebrum.		Cerebellum.		Cerebellum with pons and medulla.		Serum in lateral ventricles.		Serum under arachnoid.	
years.	oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.		
11	45	0	39	15	.	.	5	1	0	6	..	{ An abscess $2\frac{1}{2}$ inches in length, and $1\frac{1}{2}$ in breadth in right hemisphere.
14												
19	60	1	54	8	5	8	6	9	..		..	{ Was comatose, with frequent convulsive fits before death. Subject to epileptic fits. Found comatose on the streets; very dissipated. Died of delirium tremens.
27	52	0	46	0	5	2	6	0	1	6	Slight.	
28	52	8	46	4	5	6	6	4	1	2	Considerable.	{ The left corpus striatum was flattened, and contained a cavity nearly capable of holding a plumb-stone; died of pneumonia; had for some time been in a state of mental imbecility, and was liable to epilepsy.
45	49	12	43	10	5	2	6	2	..		..	
45	39	12	33	12	5	0	6	0	1	2	..	{ Fell into a canal during some convulsive fit, to which he was subject, and was drowned. Old apoplectic cyst in left corpus striatum; died of fever.
47	54	6	48	14	.	.	5	8	0	6	Considerable.	
55	48	6	43	0	4	6	5	6	3	0	Much.	{ Superior surface of anterior lobes of brain flattened, with large inter-vals between convolution full of serum; died of phlegmonous erysipelas of lower extremity; intellects had been feeble for some time; no coma or convulsions before death. Circumscribed and yellow softening on the lower surface of anterior lobes; died of fever.
66	43	4	37	0	5	6	6	14	0	2	Much.	



FEMALES.			CEREBRAL ORGANS.									THORACIC ORGANS.							
Age.	Weight of body.	Married or Single.	Encephalon.		Cerebrum.		Cerebellum.		Cerebellum with pons and medulla oblongata.	Serum in lateral ventricles.	Serum under arachnoid.	Heart.	Lungs.						
													Right.	Left.					
1 to 5 years.	st. lbs.		oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.	f. oz.	dr.	oz.	dr.	oz.	dr.			
2½ years.	1 2½	..	32	0	27	6	4	0	4	10	0	1	..	2	0	..	..		
3½ "	1 10	..	40	4	35	15	3	12	4	5	..	..	..	2	0	6	0		
2½ "	1 6½	..	34	8	30	5	3	8	4	3	..	..	..	2	0	..	..		
2½ "	..	..	38	8	34	9	3	5	3	15	..	..	..	..	..	..	..		
3 "	1 3	..	..	..	..	..	..	..	..	..	..	..	1	8	..	..	..		
3 "	1 6	..	42	0	37	8	..	..	4	8	..	..	..	2	12	5	12		
2½ "	1 2½	..	38	2	34	0	3	8	4	2	..	..	..	1	14	3	12		
Average,	..	..	37	9	33	4½	3	9⅞	4	5	..	..	2	0	5	2⅝	3	7	
5 to 7 years.																			
5 years.	..	..	40	14	35	12	..	..	5	2	0	1	..	1	8	4	6	3	0
5 "	..	..	41	8	37	0	4	0	4	8	..	..	..	3	12	..	..	..	..
6 "	..	..	36	6	32	6	3	5	4	0	..	..	..	1	12	..	..	..	..
Average,	..	..	39	9½	35	0⅝	3	11	4	8⅝	..	..	2	5½	4	6	3	0	..
7 to 10 years.																			
8 years.	..	..	..	..	..	..	..	..	..	..	..	..	3	8	..	..	..	..	..
7 "	2 2½	..	40	8	35	2	4	9	5	6	0	2	..	..	..	..	..	..	..
7 "	2 8	..	43	14	38	5	4	10	5	9	..	..	..	..	..	..	..	..	..
7½ "	2 10½	..	43	0	38	0	4	4	5	0	..	..	..	..	..	..	..	..	..
Average,	..	..	42	7½	37	2⅔	4	7⅔	5	5	..	..	3	8	..	..	..	..	..
10 to 13 years.																			
12 years.	4 6	..	43	8	37	6	5	2	6	2	..	..	..	..	11	10	10	..	..
13 to 26 years.																			
14 years.	..	..	..	..	..	..	..	..	..	..	..	..	5	8	..	..	..	..	..
15 "	4 11	..	41	0	35	8	4	8	5	8	0	1½	..	6	8	..	..	..	..
16 to 20 years.																			
19 years.	..	..	45	14	..	..	..	..	..	..	..	..	7	4	15	2	11	..	..
19 "	..	..	41	8	36	2	..	..	5	6	0	2	..	7	4	..	..	..	..
19 "	7 5	..	..	..	..	..	..	..	..	..	..	..	..	5	6	..	..	..	..
18 "	5 10½	..	46	8	40	8	5	0	6	0	0	0½	..	7	2	..	..	..	..
16 "	..	..	43	0	37	0	5	2	6	0	0	2	+	5	4	..	..	..	..
16 "	6 4	..	49	12	43	8	5	8	6	4	..	..	..	8	0	..	..	..	..
16 "	7 8	..	48	0	42	2	5	0	5	14	..	..	..	9	0	..	22	..	..
19 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17 "	..	..	43	4	37	10	4	12	5	10	..	..	..	7	10	..	..	..	..
17 "	..	..	..	..	..	..	..	..	..	..	..	..	..	4	0	..	..	..	..
18 "	..	..	..	..	..	..	..	..	..	..	..	..	..	7	4	..	..	..	..
16 "	..	..	40	14	35	13	4	6	5	1	0	0½	..	D.	D.	D.	D.	..	..
Average,	..	..	44	11½	38	15½	4	14⅔	5	11⅞	..	..	6	13⅞	..	..	16	1	..

ABDOMINAL ORGANS.					
Liver.	Kidneys.		Spleen.	Uterus.	Cause of Death.
	Right.	Left.			
oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	
..	..	..	..	..	Phthisis.
15 8	1 12	1 12	..	0 1	Variola.
18 8	1 6	1 8	1 7	..	Pneumonia, after small-pox.
..	1 14	2 0	..	..	Pneumonia; emaciated.
11 12	..	..	..	..	Hydrocephalus.
17 12	1 12	2 3	..	..	Fever; previous debility.
14 2	1 4	1 4	1 4	0 2	Scald of surface, died on 2d day.
15 8 $\frac{1}{2}$	1 9 $\frac{3}{4}$	1 11 $\frac{5}{8}$	1 5	0 1 $\frac{1}{2}$	
10 9	1 1	1 1	0 6	0 4	Enteritis; emaciated.
23 0	..	..	..	..	Pneumonia after burn.
..	..	..	..	..	Phthisis.
16 13	1 1	1 1	0 6	0 4	
..	..	..	..	..	Fever.
..	..	..	..	..	Died of injuries.
25 0	2 4	2 4	1 5	..	Bronchitis and pneumonia after measles.
..	..	..	..	..	Disease of heart.
25 0	2 4	2 4	1 5	..	
28 8	4 0	3 12	4 8	..	Fever; died on the 12th day.
..	..	4 12	..	..	Phthisis.
..	4 4	4 12	3 2	..	Fever, 24th day; much emaciated.
..	..	..	3 4	..	Disease of knee-joint; emaciated.
..	5 5	5 5	6 13	1 4	Phthisis
38 0	..	..	..	2 2	Ditto, and Bright's disease.
..	5 8	5 2	..	..	Small-pox with pleurisy.
36 12	4 0	..	..	..	Phthisis.
62 0	..	..	..	..	Scarlatina.
57 0	..	4 4	..	..	Fever, 4 days.
59 0	..	..	..	..	Pericarditis.
..	4 10	4 12	8 8	..	Fever, 15th day; prostitute.
..	..	..	..	0 8	Phthisis; never menstruated.
37 0	3 6	3 12	..	..	Red softening of brain.
48 0	4 12	4 8	5 4	1 4	Pericarditis and pleurisy; no signs of puberty.
48 4	4 7	4 9 $\frac{1}{2}$	5 15	1 5	



FEMALES.			CEREBRAL ORGANS.							THORACIC ORGANS.			
Age.	Weight of body.	Married or Single. <sup>1</sup>	Encephalon.	Cerebrum.	Cerebellum.	Cerebellum with pons and medulla oblongata.	Serum in lateral ventricles.	Serum under arachnoid.	Heart.	Lungs.			
										Right.	Left.		
20 to 25 years.	st. lbs.		oz. dr.	oz. dr.	oz. dr.	oz. dr.	f. oz. dr.		oz. dr.	oz. dr.	oz. dr.		
22 years.	..	S.	49 0	43 4	..	5 12	..	..	8 0	11 0	12 0		
22 "	..	S.	48 12	42 11	..	6 1	..	..	9 10	..	..		
24 "	..	S.	49 0	..	..	..	1 2	+	..	..	..		
21 "	5 1½	..	44 0	..	..	..	..	..	5 8	..	..		
26 "	7 3½	..	..	..	..	..	..	..	8 4	..	..		
21 "	5 2	..	..	..	..	..	..	..	7 8	..	..		
23 "	7 3	..	..	..	..	..	..	..	7 0	..	..		
22 "	..	..	..	..	..	..	..	..	..	..	..		
20 "	4 12	..	45 0	40 4	4 0	4 12	..	..	7 12	..	..		
22 "	..	..	..	..	..	..	..	..	6 0	..	..		
21 "	7 0	S.	47 2	41 6	4 13	5 12	..	..	8 0	24 0	17 0		
24 "	..	..	50 0	44 0	5 2	6 0	1 2	..	D.	..	..		
20 "	..	..	44 6	38 14	4 12	5 8	..	..	7 12	..	..		
23 "	..	M.	45 8	39 8	..	6 0	..	..	8 11	..	..		
22 "	..	..	..	..	..	..	..	..	6 14	..	..		
Average,	..	..	46 15½	41 6½	4 10	5 11	..	..	7 8	17 8	14 8		
25 to 30 years.													
29 years.	..	M.	..	..	..	..	..	..	6 0	11 12	8 0		
28 "	..	..	44 0	39 0	..	5 0	..	..	7 2	..	..		
26 "	..	..	41 4	35 8	4 12	5 12	..	..	9 8	..	..		
29 "	..	..	..	..	..	..	..	..	..	16 0	15 8		
27 "	..	M.	43 12	37 12	5 1	6 0	0 1	..	..	..	..		
29 "	..	..	50 0	43 14	5 1	6 2	0 2	..	10 0	..	..		
27 "	7 12	S.	43 0	38 4	4 0	4 12	..	..	8 12	..	..		
28 "	..	..	..	..	..	..	..	..	7 8	10 2	9 4		
25 "	..	M.	45 8	39 10	5 0	5 14	..	..	9 0	..	..		
28 "	6 0	S.	39 2	33 6	4 14	5 12	..	..	..	18 0	12 12		
29 "	..	S.	43 0	37 8	4 12	5 8	0 1½	..	10 8	..	..		
27 "	..	..	40 2	34 14	4 5	5 4	0 2	..	..	..	..		
28 "	..	M.	..	..	..	..	..	..	5 14	D.	D.		
Average,	..	..	43 5	37 12	4 11½	5 8	..	..	8 4	13 15½	11 6		
Average between 20 and 30,	..	..	45 2½	39 5½	4 11½	5 9½	..	..					
..	6 9	..	41 0	35 8	4 13	5 8	..	..	8 0	..	..		

<sup>1</sup> In the column headed "Married or Single," the letter S indicates single, the letter M married, and the letter W widow.

ABDOMINAL ORGANS.						Cause of Death.
Liver.	Kidneys.		Spleen.	Uterus.		
	Right.	Left.				
oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.		
45 4	4 0	4 0	..	2 10	Peritonitis; healthy before attack, died on 3d day.	
..	5 9	5 8	..	3 7	Burn (13 days); muscular.	
..	..	..	..	..	Disease of heart; no head symptom.	
..	..	..	..	..	Bright's disease; emaciated.	
..	5 8	5 10	5 4	..	Phthisis and pneumonia.	
..	..	..	5 0	..	Phthisis.	
47 0	5 0	5 6	..	..	Fatuous; pleurisy and pneumonia.	
39 0	3 14	4 4	..	0 14	Disease of lungs and heart.	
58 12	4 3	4 12	..	..	Chronic pneumonia with excavations.	
D.	D.	D.	..	.	Bright's disease; emaciated.	
51 4	6 14	6 12	5 0	3 9	Fever, died on 13th day.	
..	D.	D.	..	..	Heart disease.	
43 14	5 8	5 14	12 6	4 10	Fever, 13th day; delivered 2 months before death.	
D.	..	..	..	..	Phthisis.	
..	5 14	6 4	..	..	Ditto.	
47 8	5 2	5 6	6 14	2 10	Not including the uterus in the last case.	
42 4	..	..	..	..	Cancer uteri; emaciated.	
..	5 0	5 0	..	..	Phthisis.	
..	..	..	7 0	..	Phthisis.	
..	..	..	3 4	..	.. .. ..	
..	..	..	..	..	Fever, died on 12th day of disease.	
..	..	..	..	..	Chronic dysentery.	
31 4	3 12	3 12	6 8	..	Fever, 10th day.	
..	D.	D.	..	..	Bright's disease.	
..	..	..	..	..	Fever, died on 16th day.	
34 4	D.	D.	..	..	Fever, (Bright's disease.	
..	D.	D.	..	..	Bright's disease.	
..	..	..	..	..	Hæmorrhage from syphilitic ulceration of nostrils.	
36 2	..	..	..	..	Phthisis; emaciated.	
35 15	4 6	4 6	5 9 $\frac{1}{3}$	..		
..	..	..	..	3 12	Negress; pneumonia; had a child 6 weeks previous to death.	



FEMALES.			CEREBRAL ORGANS.							THORACIC ORGANS.		
Age.	Weight of body.	Married or Single.	Encephalon.	Cerebrum.	Cerebellum.	Cerebellum with pons and medulla oblongata.	Serum in lateral ventricles.	Serum under arachnoid.	Heart.	Lungs.		
										Right.	Left.	
30 to 40 years.	st. lbs.		oz. dr.	oz. dr.	oz. dr.	oz. dr.	f. oz. dr.		oz. dr.	oz. dr.	oz. dr.	
32 years.	..	M.	40 12	36 2	..	4 10	..	+	6 6	..	..	
35 "	..	M.	..	..	..	..	..	..	8 12	24 0	14 8	
36 "	..	M.	49 0	42 8	..	6 8	..	..	9 7	25 0	17 8	
39 "	..	M.	48 0	42 0	..	6 0	..	..	8 0	..	..	
35 "	..	M.	..	..	..	..	..	..	10 14	..	..	
36 "	..	M.	..	..	..	..	..	..	..	..	..	
35 "	8 11	M.	50 2	43 14	..	6 4	..	..	11 14	..	..	
33 "	5 8½	..	51 0	45 2	5 0	5 14	0 1½	..	..	..	..	
34 "	8 6	M.	49 2	43 10	4 10	5 8	0 0½	..	10 12	..	12 4	
36 "	6 4	S.	..	..	..	..	..	..	7 0	13 12	11 12	
30 "	..	..	47 0	41 0	5 2	6 0	..	..	10 4	..	..	
30 "	..	..	39 14	34 6	4 8	5 8	0 3	..	7 2	..	..	
30 "	8 10	M.	46 12	40 8	5 8	6 4	..	..	..	..	..	
37 "	..	M.	41 6	36 5	4 5	5 1	..	..	..	..	..	
34 "	..	M.	44 2	38 2	5 2	6 0	0 3	+	..	..	..	
32 "	7 12	..	45 4	39 14	4 8	5 6	..	..	..	..	..	
35 "	..	..	49 12	44 4	4 12	5 8	0 2½	+	..	..	..	
36 "	..	M.	44 8	38 14	..	5 10	..	..	10 4	..	..	
37 "	5 9	M.	45 12	39 12	5 0	6 0	..	..	..	..	..	
36 "	..	M.	..	..	..	..	..	..	9 0	15 10	13 2	
39 "	..	S.	44 4	39 4	4 2	5 0	..	..	9 8	17 8	16 0	
34 "	..	S.	..	..	..	..	..	..	11 0	..	..	
30 "	..	S.	D.	..	..	..	..	..	10 0	18 8	16 8	
33 "	6 10	M.	43 8	..	..	..	..	..	9 0	..	..	
37 "	6 2	M.	45 12	..	..	..	0 2	..	8 4	..	..	
30 "	..	M.	40 0	34 14	4 6	5 2	..	..	8 2	..	..	
34 "	..	M.	45 12	39 12	..	6 0	1 1	..	9 12	..	..	
36 "	..	..	..	..	..	..	..	..	7 2	..	..	
30 "	..	..	44 0	38 4	4 14	5 12	..	..	D.	18 0	17 8	
36 "	..	..	43 8	37 8	5 1	6 0	0 2	..	8 12	25 8	20 8	
35 "	..	M.	44 8	39 3	4 9	5 5	0 1	..	10 14	..	..	
Average,	..	..	44 1½	39 5	4 13½	5 11	..	..	9 3	19 10⅞	15 8⅞	
40 to 50 years.												
48 years.	..	M.	46 14	40 10	..	6 4	..	..	13 8	25 6	20 4	
48 "	..	..	..	..	..	..	..	..	..	..	..	
40 "	..	..	44 8	38 10	..	5 14	..	..	8 14	13 0	11 0	
45 "	..	..	50 4	44 2	..	6 2	0 1	+	..	..	..	
42 "	..	M.	43 6	37 12	..	5 10	0 1	..	10 2	8 8	12 14	
44 "	..	S.	48 6	41 6	..	7 0	..	..	..	..	..	
48 "	8 8	..	45 12	40 4	4 10	5 8	0 1¾	+	9 14	22 0	18 6	
45 "	5 12	..	43 0	..	..	..	..	..	..	..	..	
45 "	6 13	M.	50 6	43 6	6 0	7 0	0 4	..	9 5	..	17 14	
43 "	4 1	..	39 8	34 8	4 4	5 0	0 3	+	4 14	..	..	
40 "	8 4	..	..	..	..	..	..	..	12 4	..	..	
40 "	..	..	36 12	32 8	3 12	4 4	0 1½	Slight.	..	..	..	
47 "	..	..	..	..	..	..	..	..	7 12	..	..	
45 "	..	M.	42 0	..	..	..	..	..	8 0	..	..	
45 "	..	..	46 8	41 0	4 12	5 8	..	Slight.	5 3	..	..	
45 "	..	..	..	..	..	..	..	..	9 0	..	..	
43 "	..	M.	43 12	..	..	..	..	..	..	..	..	
40 "	9 3	W.	43 6	37 10	5 0	5 12	..	..	10 8	..	..	
43 "	..	W.	..	..	..	..	..	..	10 12	..	..	
48 "	..	..	..	..	..	..	..	..	8 8	18 8	15 4	
40 "	..	M.	43 0	36 14	5 2	6 2	..	..	8 2	..	..	
40 "	5 11	..	D.	..	..	..	..	..	8 6	19 0	15 8	
46 "	..	M.	44 0	..	..	..	..	..	9 0	D.	D.	
40 "	..	M.	46 0	39 1	5 2	6 15	0 1½	Slight.	..	19 8	17 0	
46 "	..	W.	48 8	42 3	5 4	6 3	0 4	..	8 12	..	..	
Average,	..	..	44 10½	39 3½	4 14	5 14½	..	..	9 1	17 15½	16 0	



ABDOMINAL ORGANS.					
Liver.	Kidneys.		Spleen.	Uterus.	Cause of Death.
	Right.	Left.			
oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	
..	2 10	2 8	..	..	Emaciated; fever.
..	5 0	4 6	..	3 6	Disease of brain; emaciated.
41 0	4 6	4 8	11 2	2 13	Fever, died on 11th day.
..	..	..	..	..	Ulceration of stomach; emaciated.
49 0	..	..	..	..	Cerebral disease.
..	..	..	..	3 0	Fever.
..	4 14	5 6	..	..	Suicide.
..	5 0	5 10	..	1 8	Phthisis; intemperate.
..	5 8	5 8	4 0	..	Pneumonia after burn.
..	4 4	4 6	..	..	Mania.
..	5 14	6 4	..	..	Fever, died on 12th day; stout.
..	..	..	..	1 14	Bright's disease; chronic disease of lung.
..	..	..	..	..	Scarlatina.
58 6	..	5 6	..	..	Fever; morbus cordis.
..	..	..	..	..	Disease of heart; pleurisy; bronchitis, &c.
..	..	..	..	..	Fever.
..	..	..	17 8	..	Bronchitis; Bright's disease; emaciated.
..	..	6 0	..	..	Fever, died on 9th day.
..	..	..	..	..	Pneumonia with excavation of lung.
..	4 12	5 8	..	3 4	Fever; no children.
D.	3 12	4 4	..	2 8	Delirium tremens; fever.
..	..	..	..	..	Disease of brain.
77 0	5 10	6 0	9 0	4 10	Abscess in brain; delivered 4 months before death.
..	..	..	..	3 8	Fever, 16th day; 5 children.
60 4	5 4	5 12	7 4	10 0	Fever; intemperate; 19 days delivered; 4 children.
..	5 0	5 4	3 4	..	Fever, died on 18th day of disease.
..	4 4	4 12	..	..	Fever; emaciated.
..	..	..	..	..	Disease of liver and kidneys.
D.	7 4	8 0	..	3 8	Disease of heart and jaundice.
44 0	..	..	10 2	3 0	Fever; had children.
..	..	..	..	2 6	Fever, 13th day; had a child 10 months before death.
54 15	4 14 $\frac{2}{7}$	5 3 $\frac{1}{2}$	8 15	2 12 $\frac{3}{4}$	Not including the uteri in 2 cases shortly after delivery.
38 8	7 0	7 5	..	..	Fever, died 16th day; stout and muscular.
48 0	5 2	5 0	..	..	Morbus cordis et aortae.
44 12	..	..	..	..	Cancer uteri; emaciated.
..	..	..	..	5 0	Morbus cordis.
35 4	..	..	..	3 0	Bright's disease.
..	..	..	..	..	Diffuse inflammation of cellular tissue.
43 6	5 14	5 12	8 6	..	Fever.
..	..	..	..	..	Bronchitis and pleurisy.
34 14	5 6	4 6	9 4	..	Fever, died on 11th day.
..	..	..	..	..	Phthisis.
..	..	..	14 0	..	Fever.
36 12	..	..	..	..	Bright's disease and pericarditis.
..	..	..	2 12	..	Fever.
..	..	..	..	..	Burn; amputation; emaciated.
44 0	4 12	5 8	..	2 0	Fever.
..	..	..	..	..	Pneumonia.
68 0	..	..	..	..	Bright's disease and bronchitis.
45 8	D.	D.	9 2	..	Fever.
..	D.	D.	..	..	Bright's disease.
..	..	..	..	..	Cancer uteri; emaciated.
..	..	..	..	..	Fever, died on 12th day.
38 4	3 10	4 2	..	..	Ulceration of intestines, &c.
..	4 1	..	..	2 0	Bronchitis and emphysema.
..	..	..	..	..	Fever, died on 13th day.
..	3 10	..	4 10	..	Phthisis and fever.
43 8	4 14 $\frac{1}{2}$	5 6 $\frac{2}{3}$	9 10	3 0	



FEMALES.			CEREBRAL ORGANS.							THORACIC ORGANS.								
Age.	Weight of body.	Married or Single.	Encephalon.		Cerebrum.		Cerebellum.		Cerebellum with pons and medulla oblongata.		Serum in lateral ventricles.		Serum under arachnoid.		Heart.	Lungs.		
			oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.	f. oz.	dr.	oz.	dr.		oz.	dr.	Right.
50 to 60 years.	st. lbs.		oz.	dr.	oz.	dr.	oz.	dr.	oz.	dr.	f. oz.	dr.			oz.	dr.	oz.	dr.
52 years.	..	S.	47	0	41	1	..	5	15	0	1	+	..	..	9	0	..	..
59 "	6 9½	..	44	0	38	12	4	6	5	4	..	..	..	..	..	..	..	..
56 "	..	W.	..	..	..	..	..	..	..	..	..	..	..	..	8	14	..	..
58 "	7 8	W.	43	4	38	2	4	4	5	2	0	3	+	..	12	2	..	..
57 "	..	M.	..	..	..	..	..	..	..	..	..	..	..	..	10	12	..	..
50 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	8	15	0
50 "	..	M.	48	6	42	14	4	8	5	8	0	5	..	..	8	8	16	12
55 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	12	..	..
53 "	..	S.	43	14	38	1	4	13	5	12	0	6	+	..	8	14	17	14
Average,	..	..	45	4½	39	12½	4	7½	5	8½	..	..	..	..	9	14½	16	8½
60 to 70 years.																		
64 years.	..	..	45	6	39	6	5	0	6	0	..	..	..	..	8	8	16	0
60 "	6 3	..	42	9	36	9	5	1	6	0	..	+	..	..	9	0	..	..
63 "	..	..	43	0	37	8	4	12	5	8	0	1½	+	..	..	..	..	..
66 "	..	..	45	4	39	0	5	0	6	4	..	..	..	..	8	12	..	..
63 "	7 3	..	46	0	40	8	4	8	5	8	0	2	considerable	..	..	18	4	
60 "	..	S.	46	8	40	8	5	2	6	0	0	2	..	..	9	0	..	..
64 "	5 4	W.	36	2	31	2	4	2	5	0	0	5	+	..	11	0	..	..
65 "	..	..	39	0	33	10	4	8	5	6	0	4	+	..	12	4	..	..
65 "	..	W.	43	0	37	12	4	4	5	4	..	..	..	..	..	14	10	
60 "	8 3	M.	46	10	41	2	4	9	5	8	0	3	..	..	9	14	19	10
60 "	..	W.	38	12	34	0	4	2	4	12	0	2	Slight.	..	8	8	..	..
65 "	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	0	..	..
Average,	..	..	42	14½	37	5	4	10⅔	5	9	..	..	..	..	9	5½	17	2
70 to 90 years.																		
75 years.	7 8	..	46	0	40	0	5	1	6	0	2	0	..	..	13	0	22	0
70 "	..	W.	..	..	..	..	..	..	..	..	..	..	..	..	11	12	..	..
90 "	7 2	..	31	1	26	12	3	10	4	5	3	0	{ 3i. within the cavity of arachnoid. }	..	..	..	..	..
Average,	..	..	38	8½	33	6	4	5½	5	2½	..	..	..	..	12	6	..	..

ABDOMINAL ORGANS.					
Liver.	Kidneys.		Spleen.	Uterus.	Cause of Death.
	Right.	Left.			
oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	
52 1	..	..	3 8	..	Diffuse inflammation of cellular tissue.
..	..	..	..	..	Aneurism of aorta.
..	5 2	6 6	2 2	2 12	Disease of brain; intemperate.
55 2	..	..	..	..	Fever, died on 13th day of disease.
..	4 0	4 12	..	..	Injury of head.
43 0	4 0	4 0	..	..	Chronic inflammation of large intestines.
38 8	5 2	5 0	4 12	2 12	Fever, died on 12th day; mother of 15 children.
..	..	..	..	..	Apoplexy.
36 4	4 12	4 8	5 0	2 1	Fever, died on 13th day.
44 15½	4 10	4 14¼	3 13½	2 8½	
..	..	..	..	3 4	Abscess in liver; emaciated.
..	4 0	5 0	..	..	Burn on chest.
..	..	..	..	..	Cerebriform disease of liver.
..	4 8	4 8	8 4	..	Bronchitis and emphysema.
69 0	..	..	..	..	Fracture of femur at neck.
..	5 12	5 8	..	..	Fever.
42 4	4 12	5 0	..	..	Fever.
..	..	..	..	..	Fever.
40 0	D.	D.	..	1 10	Accident, 6 days.
..	D.	D.	7 8	..	Fever, 9th day.
..	..	..	..	2 12	Bronchitis and emphysema.
42 0	D.	D.	..	..	Phthisis.
48 5	4 12	5 0	7 14	2 8	
..	4 10	4 8	..	..	Injury, died 11 days after receipt of.
..	..	..	..	..	Peritonitis after hernia.
..	..	..	..	..	Fracture of femur, died 31 days after receipt of.
..	..	..	..	..	



## DISEASED BRAINS.

(Serum and Pus found in Brain not weighed.)

## FEMALES.

Age.	Encephalon.	Cerebrum.	Cerebellum.	Cerebellum with pons and medulla.	Serum in lateral ventricles.	Serum under arachnoid.	Remarks.
years.	oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.		
23	39 8	34 4	4 6	5 4	..	..	{ Of weak intellect from birth; sulci of brain shallow, and grey matter appeared deficient. { Convulsions flattened; dura mater tensely stretched over brain; arachnoid dry; walls of lateral ventricles pressed together, and contained no serous effusion; substance of brain of a pure white colour. { Small tumour in brain with surrounding softening. { Inner surface of lateral ventricles covered with very minute grey granules. Very dissipated.
33	44 4	..	..	..	..	..	Had two attacks of mania. Died with apoplectic symptoms.
35	42 0	36 4	..	5 12	0 4	..	Ditto, which came on gradually.
35	48 0	41 12	..	6 4	2 0	..	
35	43 8	37 8	..	6 0	1 4	Much.	
36	44 12	39 14	4 2	4 14	0 0½	..	
55	38 8	33 4	4 4	5 4	2 1	Considerable.	
56	43 2	37 2	..	6 0	0 2	Ditto.	





TABLE II.

Relative Weight of Encephalon to Cerebellum, and to Cerebellum with Pons Varolii and Medulla Oblongata, at different ages, in 172 bodies.<sup>1</sup>

MALES.					FEMALES.			
Ages.	Cerebellum.	Number weighed.	Cerebellum with pons varolii and medulla.	Number weighed.	Cerebellum.	Number weighed.	Cerebellum with pons and medulla oblongata.	Number weighed.
1 to 5 years.	1 to 10 $\frac{2}{3}$	5	1 to 8 $\frac{1}{2}$	5	1 to 9 $\frac{9}{10}$	4	1 to 8 $\frac{1}{2}$	5
5 7 "	1 9 $\frac{9}{10}$	3	1 8 $\frac{1}{2}$	3	1 10 $\frac{7}{10}$	2	1 8 $\frac{3}{5}$	3
7 10 "	1 9 $\frac{5}{12}$	5	1 8 $\frac{1}{3}$	5	1 9 $\frac{1}{2}$	3	1 8	3
10 13 "	1 9 $\frac{2}{3}$	3	1 8 $\frac{5}{12}$	3	..	..	..	..
13 15 "	1 9 $\frac{1}{11}$	1	1 7 $\frac{1}{3}$	4	..	..	..	..
16 20 "	1 9 $\frac{1}{17}$	4	1 8 $\frac{7}{8}$	4	1 9 $\frac{1}{12}$	5	1 7 $\frac{3}{4}$	5
20 30 "	1 9 $\frac{1}{18}$	13	1 8 $\frac{1}{6}$	13	1 9 $\frac{2}{3}$	12	1 8	12
30 40 "	1 9 $\frac{1}{23}$	11	1 8 $\frac{7}{5}$	11	1 9 $\frac{6}{11}$	15	1 8 $\frac{1}{7}$	15
40 50 "	1 9 $\frac{8}{18}$	23	1 8	23	1 9 $\frac{1}{9}$	9	1 7 $\frac{2}{3}$	9
50 60 "	1 9 $\frac{1}{16}$	17	1 8 $\frac{1}{8}$	17	1 10	4	1 8 $\frac{2}{7}$	4
60 70 "	1 10 $\frac{4}{13}$	5	1 8 $\frac{1}{4}$	8	1 9 $\frac{3}{10}$	11	1 7 $\frac{2}{3}$	11
70 and upwards.	1 9 $\frac{3}{8}$	5	1 8 $\frac{1}{8}$	7	1 8 $\frac{1}{12}$	2	1 8 $\frac{2}{5}$	2
2 $\frac{1}{2}$ years.	..	..	..	..	1 10 $\frac{1}{22}$	4	1 8 $\frac{1}{2}$	4 <sup>2</sup>
4 months.	1 11	1	1 9 $\frac{1}{6}$	1	..	..	..	..
1 year.	1 9 $\frac{1}{16}$	1	1 8 $\frac{1}{8}$	1	..	..	..	..

An examination of Table I. does not afford any support to the supposition of some, that the cerebellum attains its maximum weight at seven years of age, and the cerebrum its maximum weight nearly at the same period, or only a little later. There appears to be little doubt, however, from all the facts which have been collected on this subject, that the brain arrives at its maximum weight sooner than the other organs of the body, and to judge from a few measurements we have made of the length of the corpus callosum, the depth of the grey matter, the length, breadth, and depth of the corpus striatum and thalamus, we would be inclined to conclude that the relative size of these parts is the same in the young person as in the adult. We believe that there can be little doubt that the relative size of the brain to the other organs, and to the entire body, is much greater in the child than in the adult. In Table III. will be found the results we have obtained on this point. In Table II. we find less difference between the relative weight of the encephalon and cerebellum, at different periods of life, than we had been led to expect from some statements which have been made upon this question. The data we have collected do not entitle us to speak positively, but as the other statements to which I refer seem principally to rest upon the vague and uncertain measurements of the eye, we may reasonably request to be allowed to suspend our opinion of their accuracy, until we have a sufficient amount of materials brought before us to justify us in giving a decided judgment. In looking over the column of the average weights of the encephalon, at different ages, in Table I., we cannot fail to experience some surprise at the difference between the average weight of that organ in the male, between 16 and 20 years of age and between 40 and 50, but we cannot for a moment have any hesitation in deciding that this must arise from sources of fallacy incident to insufficient data. In the group between 40 and 50 years of age some brains much below the average weight are found, and there can be no doubt that it is to this accidental circumstance that we must attribute the diminution in the average weight of the brain in that group. Among the females, we find a decided diminution in the average weight of the brain above 60 years of age, while, among the males, this is not apparent until a later period. We certainly did expect also to find a similar diminution in the average weight of the male brain above 60 years of age, for we are perfectly satisfied, as the tables containing the individual facts will show, that we more frequently meet with a greater quantity of serum under the arachnoid and in the lateral ventricles in old people, than in those in the prime of life. We are also satisfied, from an examination of the notes we have taken at the time the brains were examined, that a certain degree of atrophy of the convolutions of the brain over the anterior lobes, marked by the greater width of the sulci, was more common in old than in young persons. We have, however, frequently remarked these appearances in the brains of people in the prime of life, who had been for some time addicted to excessive indulgence in ardent spirits.

<sup>1</sup> In ascertaining the relative weight of the cerebellum to the encephalon, those encephala only were selected in which the cerebella were also weighed. The same plan was also followed in ascertaining the relative weight of the cerebellum with pons and medulla oblongata to the encephalon.

<sup>2</sup> Three of the youngest cases included in the above Table given separately.



TABLE III.

Relative Weight of entire Body to Encephalon, Cerebrum, Cerebellum with Pons Varolii and Medulla Oblongata, Heart, and Liver, in 92 Bodies. In this and in all other similar tables, I have selected those cases only in which all the organs whose relative weight is given were weighed in the same individual.

Ages.	Body to encephalon.	Number weighed.	To cerebrum.	Number weighed.	To cerebellum.	Number weighed.	Cerebellum with pons varolii and medulla.	Number weighed.	To heart.	Number weighed.	To liver.	Number weighed.
MALES.	1 to 5 years.	4	1 to 9 $\frac{5}{16}$	4	1 to 88 $\frac{1}{2}$	4	1 to 76 $\frac{1}{2}$	4	1 to 176 $\frac{3}{4}$	4	1 to 21 $\frac{2}{3}$	5
	at 5 years.	2	1 10 $\frac{4}{7}$	2	1 97 $\frac{1}{2}$	2	1 81 $\frac{3}{8}$	2	1 130 $\frac{8}{15}$	2	1 23 $\frac{1}{16}$	2
	at 7 years.	2	1 11 $\frac{1}{17}$	2	1 107 $\frac{1}{2}$	2	1 93 $\frac{2}{3}$	2	1 175 $\frac{1}{3}$	1	1 21	1
	13 to 15 years.	3	1 21 $\frac{1}{8}$	3	1 142 $\frac{1}{2}$	3	1 146 $\frac{2}{3}$	3	1 176 $\frac{1}{16}$	2	1 25 $\frac{1}{18}$	2
	20 30 "	11	1 40 $\frac{3}{8}$	11	1 352 $\frac{1}{16}$	10	1 293 $\frac{2}{3}$	11	1 173 $\frac{2}{3}$	13	1 29 $\frac{2}{3}$	6
	30 40 "	6	1 41 $\frac{2}{3}$	5	1 342 $\frac{1}{2}$	5	1 306 $\frac{1}{3}$	6	1 165 $\frac{2}{3}$	6	1 35 $\frac{1}{2}$	7
	40 50 "	14	1 42 $\frac{1}{4}$	12	1 348 $\frac{1}{2}$	12	1 295 $\frac{8}{11}$	12	1 169 $\frac{8}{9}$	11	1 35 $\frac{1}{2}$	14
	50 60 "	11	1 42 $\frac{1}{2}$	10	1 370 $\frac{1}{2}$	8	1 318 $\frac{5}{7}$	10	1 165 $\frac{4}{11}$	15	1 35 $\frac{1}{4}$	4
	60 70 <sup>1</sup> "	4	1 44 $\frac{1}{8}$	4	1 427 $\frac{1}{2}$	4	1 348 $\frac{1}{2}$	4	1 137	3	1 43 $\frac{3}{8}$	2
	2 4 "	4	1 9 $\frac{7}{16}$	4	1 84 $\frac{1}{4}$	4	1 71 $\frac{1}{2}$	4	1 151 $\frac{1}{16}$	6	1 20	5
FEMALES.	5 7 "	..	..	..	..	..	..	..	..	..	..	..
	7 10 "	3	1 15 $\frac{1}{13}$	3	1 125	3	1 105 $\frac{1}{8}$	3	..	..	1 22 $\frac{1}{4}$	1
	13 15 "	..	..	..	..	..	..	..	..	..	..	..
	16 20 "	3	1 31 $\frac{2}{13}$	3	1 283 $\frac{1}{2}$	3	1 181 $\frac{1}{3}$	3	1 181	4	1 30 $\frac{5}{13}$	4
	20 30 "	4	1 37 $\frac{3}{4}$	4	1 327 $\frac{1}{12}$	4	1 275 $\frac{1}{2}$	4	1 183 $\frac{1}{2}$	7	1 33 $\frac{1}{7}$	5
	30 40 "	8	1 39 $\frac{3}{4}$	6	1 316 $\frac{2}{3}$	5	1 285 $\frac{2}{3}$	6	1 173 $\frac{3}{4}$	5	..	..
	40 50 "	5	1 41 $\frac{3}{8}$	4	1 324 $\frac{6}{13}$	4	1 277 $\frac{1}{2}$	4	1 174 $\frac{1}{2}$	6	1 42 $\frac{1}{2}$	4
	50 60 "	2	1 41 $\frac{1}{2}$	2	1 370 $\frac{1}{11}$	2	1 307 $\frac{5}{8}$	2	..	..	..	..
	60 and upwards.	6	1 43 $\frac{1}{3}$	6	1 346 $\frac{1}{3}$	6	1 288 $\frac{7}{16}$	6	1 180 $\frac{1}{17}$	..	1 25 $\frac{1}{4}$	2

<sup>1</sup> One of these was above 70 years of age.



TABLE IV.

Average weight of the Encephalon, &c., between 25 and 55 years of age, in the two sexes, and the average difference between them.

Males, 53 brains weighed.—Females, 34 brains weighed.

	Male.		Female.		Difference in favour of the Male.	
	oz.	dr.	oz.	dr.	oz.	dr.
Average weight of Encephalon,	50	3 $\frac{1}{2}$ , or	44	8 $\frac{1}{2}$ , or	5	11
	{ 3 lbs. 2 oz. 3 $\frac{1}{2}$ dr.		{ 2 lbs. 12 oz. 8 $\frac{1}{2}$ dr.			
... .. Cerebrum, - -	43	15 $\frac{3}{4}$	38	12	5	3 $\frac{3}{4}$
... .. Cerebellum, - -	5	4	4	12 $\frac{1}{4}$	0	7 $\frac{3}{4}$
... .. Cerebellum with pons and medulla oblongata, }	6	3 $\frac{3}{4}$	5	12 $\frac{1}{2}$	0	7 $\frac{1}{2}$ nearly.

TABLE V.

Relative weight of Encephalon to Cerebellum, and to Cerebellum with Pons Varolii and Medulla Oblongata, between 25 and 55 years of age, in the two sexes.

53 male, and 34 female brains weighed.

		Male.	Female.
Relative weight of Encephalon to cerebellum, - -	as 1 to 9 $\frac{4}{5}$	as 1 to 9 $\frac{4}{5}$	
... Encephalon to cerebellum with pons and medulla, 1	8 $\frac{9}{13}$	1	7 $\frac{9}{10}$

From this Table it would appear that, in the female, the average cerebellum is relative to the encephalon, a little heavier than in the male.

TABLE VI.

Relative Weight of the entire Body to the Encephalon, the Heart, and Liver in the two sexes between 25 and 55 years of age.

	Encephalon.	Number weighed.	Heart.	Number weighed.	Liver.	Number weighed.
Male, - -	as 1 to 37 $\frac{1}{2}$	33	as 1 to 169 $\frac{1}{2}$	37	as 1 to 35 $\frac{1}{3}$	31
Female, - -	1 35	15	1 176	12	1 39	7

As far as this Table enables us to judge, it would appear that though the average male brain is absolutely heavier than that of the female, yet that the average female brain, relative to the weight of the whole body, is somewhat heavier than the average male brain.

TABLE VII.

In 9 Males, between 27 and 50 years of age, who died either immediately, or within a few hours after accidents and other external causes of sudden death, and who had been previously in good health, the following results were obtained:

Average weight of body, (9 weighed).	Average of encephalon, (6 weighed).	Average of cerebellum, (4 weighed).	Average of cerebellum with pons and medulla, (5 weighed).	Average of heart, (9 weighed).
oz. dr.	oz. dr.	oz. dr.	oz. dr.	oz. dr.
9 st. 8 lbs. 3 $\frac{1}{2}$ oz., or 134 lbs. 3 $\frac{1}{2}$ oz.	52 4 $\frac{1}{2}$ , or 3 lbs. 4 oz. 4 $\frac{1}{2}$ dr.	5 7 $\frac{1}{2}$	6 6 or, taking the average of the four cases only in which the cerebellum was taken, 6 oz. 7 $\frac{1}{2}$ dr.	12 6

Relative weight of body to encephalon, (6 weighed,)	- -	as 1 to 40 $\frac{4}{5}$
... .. to heart, (9 weighed,)	- -	1 173 $\frac{1}{3}$
... encephalon to cerebellum, (4 weighed,)	- -	9 $\frac{2}{5}$
... .. to cerebellum with pons and medulla, (5 weighed,)	1	8 $\frac{1}{5}$

Though the data from which the above Table is constructed are very limited, yet we may be allowed to remark, that the greater relative weight of the encephalon to the body, in those emaciated by disease than in those cut off while in possession of health and muscular vigour, which it indicates, is what we would expect from other considerations. There is little difference in the relative weight of the cerebellum to the encephalon in the two classes of cases.

## TABLE VIII.

Average weight of Heart, Liver, and Kidneys, between 25 and 55 years,  
in the two sexes.

Heart.		Liver.		Kidneys.		Right.	Left.	Difference between the two kidneys in the same sex.
	oz. dr.		oz. dr.		oz. dr.			
M. (89 weighed,)	11 1	M. (60 weighed,)	52 12½	M. (65 weighed,)	5 7	5 11½	0 4½	
F. (53 ditto,)	9 0½	F. (25 ditto,)	45 3½	F. (28 ditto,)	4 13	5 2	0 5	
Total, 142		Total, 85		Total, 98		0 10	0 9½	
Difference, 2 0½		Difference, 7 9		Difference, 0 10				

Though the right kidney is sometimes equal in weight, and occasionally heavier than the left, yet the average left kidney is heavier than the right. In the above Table, the average left kidney is 4½ drachms heavier than the right in the male, and 5 drachms in the female.

The weight of the lungs is so much modified by the quantity of blood which they may contain, that I have not attempted to ascertain their relative weight to the other organs. The right lung is almost invariably a few ounces heavier than the left, and it appeared to me that when the left was heavier, this was dependent upon the greater quantity of blood contained in it.

(To be Continued.)









