blood which enters into the lungs is equal to, of even perhaps greater than, that which is fent in the same time throughout the rest of the body. And, as the chief business of the lungs is for respiration, by which they are kept constantly in action, so it will appear evident why hæmorthages here are more dangerous, as well as more obstinate, than in any other part, as their constant motion counteracts and prevents the union of the ruptured vessel.

Queen Anne Street, Eaft, August 7, 1792.

XI. An Account of a Disease which, until lately, proved statal to a great Number of Insants in the Lying-in Hospital of Dublin; with Observations on its Causes and Prevention. By Joseph Clarke, M. D. Master of the Hospital above mentioned, and M. R. I. A. — From the Transactions of the Royal Irish Academy, 1789.

YING-IN Hospitals are institutions of fuch recent date, and so few in number, that hitherto we may consider them as in a state of infancy. Excepting some portion of the Hotel Dieu of Paris, which has been long allotted

lotted to the relief of poor pregnant women, I know of none that have existed above forty years, and very few can lay claim even to this antiquity. It can hardly appear unreasonable, therefore, to suppose that imperfections still exist in their management, which time and accurate comparison may ferve to detect : and although fuch establishments be at present confined to a few of the capital cities in Europe, it is probable their number will increase as their good effects in fociety are experienced. It is hoped, therefore, that a few facts and observations, tending to point out a considerable source of error in an extensive lying-in hospital, may be deemed worthy of public notice; both present and future institutions of this nature may, perhaps, derive some useful information from such enquiry.

Several years ago, in attempting to ascertain the nature of the disease which is the subject of the following remarks, I found the doctrines contained in most medical books of very little use: all the morbid causes, commonly supposed to produce diseases in infancy, appeared to me inadequate to an explanation of its phanomena. Doubts of course arose in my mind, some of which have been already stated to the public.

public*. At length I was tempted to hazard a conjecture, which then appeared probable, and which succeeding events seem to have confirmed. A sketch of the evidence is here, with deference, submitted to the candid consideration of physicians, and of this Academy.

At the conclusion of the year 1782, of seventeen thousand fix hundred and fifty infants born alive in the Lying-in Hospital of this city, two thousand nine hundred and forty-four had died within the first fortnight +, that is nearly every fixth child, or about seventeen in the hundred. This was obviously a large proportion of deaths, as we shall prove more particularly hereafter. The disease which carried off most of these children. perhaps nineteen of twenty, was general convulfions, or what our nurfe-tenders have been long in the habit of calling the nine-day fits, as constantly occurring within the first nine days after birth. As this difease has hitherto yielded to no remedy. I have been always more engaged in attending to its prevention than cure. I am chiefly indebted for its history, therefore, to the united

^{*} See Observations on the Properties commonly attributed by medical Writers to human Milk, &c. Transactions of the Royal Irish Academy, Vol. II. and London Medical Journal, Vol. XI.

⁺ See abstract of registry at the end of this essay.

reports of feveral of our most experienced nursetenders. I took down their remarks separately, and from the whole collected what follows.

In general it has been observed that such children as are disposed to whine and cry much from their birth, and fuch as are subject to heavy deep fleeps, or flartings in their fleep, are peculiarly apt to fall into convulfive affections. of the upper extremities, while awake, without any evident cause; a livid circle about the lips, and fudden changes of colour in the countenance, have now and then been thought to portend the nine-day fits Screwing and gathering of the mouth into a purse, accompanied at intervals with a particular kind of shricking, well known to the experienced nurse-tenders, are reckoned fure, and by no means distant, forerun-Sometimes previous to these symptoms, and fometimes along with them, the infants are observed to be unusually greedy for sucking at the breast, or feeding by the spoon; laxatives given, in such situations, seldom fail to operate freely, fometimes bringing away greenish, flimy, or knotty stools; though not unfrequently they are of a natural yellow colour, as I myself have more than once feen.

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Generally with one or more of these symptoms preceding, but fometimes without any warning whatever, the infants are feized with violent irregular contractions and relaxations of the muscular frame, but particularly of those of the extremities and face. These convulsive motions recur at uncertain intervals, and produce various effects. In some the agitation is very great; the mouth foams; the thumbs are riveted into the palms of the hands; the jaws are locked from the commencement, fo as to prevent the actions of fucking and fwallowing; and any attempts to wet the mouth or fauces, or to administer medicines, feem to aggravate the spasms very much; the face becomes turgid, and of a livid hue, as do most other parts of the body. From this circumstance, and from the shorter duration of the discase, when it occurs in this form, the nurses reckon this a different species, and call it the black fits. The conflict in such cases lasts from about eight to thirty hours, and in some very rare cases to about forty hours, when the powers of nature fink exhausted and overpowered, as it were, with their own exertions.

It much more frequently happens, however, that the fpasmodic contractions are not so strong as above described; that the extremities are rather ther twisted than convulsed; that the power of fucking, but more certainly of deglutition, is not lost till near death; that the mouth foams less; and that the paroxysms recurring at more distant intervals, continue to harafs the patient from three to five days, and in some rare instances to seven and even nine. During all this period the face remains pale; and the body, from being perhaps very plump, is reduced to a most miferable spectre by emaciation and disease. This the nurses consider as a second species, and call it the white fits.

Both these supposed species, which may perhaps be more justly considered as varieties of the same disease, agree in constantly attacking within nine days from birth, and most frequently about the falling off of the umbilical chord. This is an event which generally takes place from the fourth to the fixth or seventh day. Diarrhæa is a constant concomitant of both species. Long and sad experience have found them also to be both equally satal, insomuch, that the memory of the oldest person does not furnish an instance of one being cured.

In order to place my ideas of the cause of this fatal disease in the clearest point of view, I find it necessary to have recourse to extracts

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from a letter written by me in the year 1783 to the late Doctor Hutcheson, who was then confulring physician to the hospital in question.

In this letter, which was written after having feen some of the best regulated Lying-in Hospitals in London, I stated to Doctor Hutcheson,

That in an old hospital, which preceded the present, but instituted by and under the care of the same gentleman, and in a less airy part of Dublin, of three thousand seven hundred and forty-six children therein born, only two hundred and forty one died within the first month*, which are in the proportion of one to sisteen and a half, or from six to seven in the hundred.

That during a period of five or fix years, in the British Lying-in Hospital, London, of three thousand fix hundred and eleven therein born, only one hundred and forty-fix died, within the first three weeks or month, which are as one to twenty five, or four in the hundred.

That in the London Lying-in Hospital I was positively assured that the death of an infant was

^{*} See the case of Mr. Mosse, offered to the consideration of the Irish House of Commons in the year 1755.

a rare occurrence. It is there computed with fome confidence (for I was told that no written account is kept) that the number of still-born infants far exceeds the number of those dying after birth. The proportion of still-born we know to be about a twentieth part, or five in the hundred.

That near forty years ago, when the diseases of children were less understood, and more especially the falutary practice of inoculation, Doctor Short computed from some very extensive registers, that London lost thirty-nine per cent. under the age of two years-Edinburgh and Northampton thirty-four or thirty-five-Sheffield twenty-eight—country places from twenty to twenty-eight; -whereas in the Dublin hofpital there was loft a number equal to half of that loft in many of these places, and nearly equal to the whole of that in some of them, in two weeks, or in about the fiftieth part of the same space of time. From which, and some other confiderations of less weight, I thought the uncommon mortality of children in the Dublin-Lying-in Hospital satisfactorily proved.

I then ventured to hazard fome conjectures concerning the causes of a mortality, by which so many useful lives were lost to the state.

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1st, Foul air, or an impure atmosphere; 2d, Neglect of keeping the children clean and

dry;

3d, Irregularity in the manner of living of their mothers, more especially in the abuse of spirituous liquors,—were the causes which appeared to me the most probable, either separately or perhaps combined; but I suspected that the first, viz. an impure or phlogisticated atmosphere, contributed most powerfully to the general calamity. For,

First. I remarked to him that public regiflers proved the mortality of children to increase proportionably with the fize of towns; and that the larger towns are, the more numerous are the causes which have a tendency to taint their atmosphere, and thereby render it less fit for the purposes of salutary respiration.

Secondly. That in private practice physicians in the city of Dublin did not find the mortality of infants, in any degree so considerable as our registry proved it to be in the Hospital, a proof that there was here some peculiar exciting cause

of disease.

Thirdly. That the difference between the mortality of the children in the old hospital and in the present one, when under the management

of the same eminent character, Mr. Mosse, afforded the strongest evidence in favour of this conjecture. Such difference could not be supposed to arise from any different method of feeding or cloathing them, or in the exhibition of medicines; to me it seemed to originate from a difference in the apartments and accommodations of the women. In the former, which was an old house, and never defigned for an hospital, were one or two, or at most three beds in a room, to each of which there must have been a door. and one or two, perhaps three windows; whereas in the latter were eight beds in the same room, and only one door properly speaking *, with three windows in some, and two in others; whence it is evident that the fupply of fresh air in each being nearly on an equality, it must be much fooner corrupted by the respiration, lochial discharges, and other effluvia of eight

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^{*} There is indeed a fecond door to each of our large wards; but as it opens into a small ward, containing two beds, it is probable the air derived from such communication is not very salubrious. The dimensions of our large wards, in the front of the hospital, are 36 feet by 23, and 13 in height: in the rear 33½ by 23, and of equal height. The small wards in front are 19 by 12½; and in rear, 18 by 13½.

women and as many children, than by those of two or three.

Fourthly. I observed, in farther confirmation of this doctrine, that the British Lying-in. Hospital in London, which is very favourable to the lives of infants, was an old building, which feemed not to have been originally defigned for an hospital; in it there were but fix beds in a room with one door, one small and three large windows, with a ventilator to each of the latter; that their beds had curtains, but no canopies as in Dublin, and that the utmost cleanliness was in every respect observed. That in the London Lying-in Hospital, which is an elegant modern building, there are but feven beds to a ward, with two large and four small windows to each, one door with a large ventilator over it, the ceilings lofty and perforated by an air-pipe of feveral inches diameter, which passes out at some part of the roof. Here also the most scrupulous cleanliness is observed, and large supplies of clean linen given both for beds, women and infants; and here the death of an infant is a rare occurrence.

Lastly. I alledged it was by no means inconfistent with analogy or reason to suppose that the accumulated effluvia arising from the bodies of puerperal

puerperal women and children in lying-in hofpitals might acquire qualities peculiarly noxious to the delicate frame of infants. That in other hospitals and gaols, as the pernicious effects of accumulated human effluvia have been often experienced by robust adults, it is possible that degrees of contagion inferior to these may prove fatal to infants. I concluded with quoting the authority of Arbuthnot, who has observed "that " the air of cities is very unfriendly to infants " and children; for that as every animal is adap-" ted by nature to the use of fresh and free air, "the tolerance of air replete with fulphureous " fteams of fuel and the perspirable matter of " animals (as that of cities) is the effect of " habit which young creatures have not yet ex-" perienced";" and that if the air of cities be unfriendly, a fortiori, so must the air of hospitals in cities, and that in proportion to their want of ventilation.

To these reasons I might have added, on the authority of Doctor Priestley, that healthy animals almost always die of convulsions on being put into air in which other animals have died, after breathing it as long as they could; and that most other kinds of air, noxious to animal

^{*} Essay concerning the Essects of Air on human Bodies. life,

life, produce similar effects. See Experiments and Observations on different Kinds of Air, Vol. I. page 71.

Viewing the subject in this light, I proposed a number of alterations intended for the more complete ventilation of the hospital, and for which I was principally indebted to Mr. White's excellent work on the management of lying-in My observations had the effect I wished with Doctor Hutcheson and the medical governors. Apertures of a confiderable fize were made in the ceilings of each ward, which have been fince changed for air pipes of fix inches diameter. Three holes, of an inch diameter. were bored, in an oblique direction, through each window frame at top. The upper parts of the doors, opening into the gallery, were also perforated with a great number of holes. By these means a free and easy passage was given to the air through the wards at all times, and executed in such a manner as to put it out of the power of nurse-tenders or patients to control it. Since the above period also the number of beds in the large wards have been reduced to feven, and feveral changes made in their construction, which render them more airy, and more eafily kept clean. The consequences have been favourable

vourable far beyond the expectation of every person concerned. The nine-day fits are become visibly less frequent; and the abstract of our registry shews the fact at first view to the most inattentive observer. Of eight thousand and thirty-three children born fince the above period, only four hundred and nineteen have died in the hospital; that is nearly one in nineteen and a third, or from five to fix in the hundred. Had the mortality of infants been in this proportion fince the commencement of the Dublin hospital, the number of children dead would have been somewhat about thirteen hundred, instead of the present number, three thoufand three hundred and fixty-three; or in other words, above two thousand lives would have been faved to the community.

That this diminution of mortality is to be attributed to improvements in ventilation can admit, I think, of little doubt. No other new mode of management has been of late practifed to account for it. No other remedies used than such as have been tried a thousand times unsuccessfully. I know it has been objected, that it may be owing to their mothers now remaining a shorter space of time in the hospital than formerly. In order to ascertain whether

this be a matter of fact, I have, for the last two years, had an entry made of the day on which each infant died; the number dead has been one hundred and fourteen, and they have died on the following days after their birth:

12th day, 11th, 10th, 9th, 8th, 7th, 6th, 5th, 4th, 3d, 2d, 1st. Total.

1 died. 0. 3. 3. 5. 24. 37. 18. 6. 5. 10. 2. 114 died.

Hence it is obvious that the fatal days are the fifth, the feventh, but especially the fixth; and either of these are undoubtedly much within the average day of the discharge of our patients. Besides, the early discharge of patients did not commence in any one year, as the lessened mortality of infants did; it arose from gradual increase in the number of poor demanding admission; and I am happy to add, that some late very liberal donations, and a consequent increase in the number of our beds, have put an end to the necessity of this disagreeable expedient, adopted solely with a view of affording indiscriminate relief.

It might naturally be supposed that an atmosphere, which we have endeavoured to prove injurious to the health of infants, would also somewhat affect the chances of life in their mothers. The fact, however, certainly is, that on an average sewer women have died in child-

bed in the Dublin hospital than in most other lying-in hospitals, (Compare the abstract at the end of this effay with facts contained in the postscript to Mr. White's treatise on the management of pregnant and puerperal women.) Here then a question arises, why should infants be so much more liable to injury from an impure atmosphere than adults? Is it possible that mothers shall escape with impunity and their children perish? This, I own, puzzled me extremely, and had almost made me doubt of what I confidered a fact, supported by the strongest probable evidence. By accident, however, in looking over a differtation on the food and difcharges of the human body, by our celebrated countryman, the late Doctor Bryan Robinson, I found some facts and observations which appear to me to go a great way towards an explanation.

In order to make these facts intelligible to persons not very conversant in such speculations, I must premise, that Doctor Priestley has sully proved one great and indispensable use of respiration to be to carry off or lessen a certain quality in the blood, which is known by the name of phlogiston. That this can only be done by pure air. That by the addition of phlogiston

to blood it acquires a deep black colour; and by its avolation, that blood returns to its natural florid hue.

Now Doctor Robinson sound by experiment*, that the weight of the heart, in respect to the weight of the body, is greater in children than in grown bodies, and that their quantity of blood is proportional to the weight of the heart. He found also, that the quantity of blood, which slows through the lungs in a given time, in proportion to the mass of circulating sluids, is greater in children than in grown bodies; and that this proportion lessens continually from the birth till bodies arrive at their growth. Hence he remarks, that as the blood of children passes of tener through the lungs, it is more sluid and of a brighter colour than the blood of grown persons.

If this be a true picture of the constitution of infants, we must presume that such peculiarities are intended to answer some very important purposes in the economy of young animals; and that in proportion as the intention of Nature is in these respects frustrated, the effects will be more or less severely felt. Would it be deem-

^{*} See page 13, et feq. of his work.

ed a conjecture, exceeding the bounds of propability, to suspect that the avolation of a very large quantity of phlogiston, and its due separation from the mass of blood by pure air, may be essentially necessary to the growth of young animals; and that this may be one reason why the impure air of cities has, in all ages, been particularly destructive to their health?

With a view of reducing the nine day fits to its proper genus and species in nosology, I have turned over the works of some of our best writers on this subject. The only genus to which I think it can with any propriety be reduced, is that of eclampsia or convulsion des enfans of Sauvages. But although under this generic title he describes seventeen species, there is not one of them to which it bears an exact resemblance. The eclampfia neophytorum of Vander Monde is widely different, as any one may eafily fee by casting an eye over the history of both. As most of the species enumerated by Sauvages are symptomatic, and as he diffinguishes several of them from various kinds of deleterious substances taken into the system; as eclampsia ab atropa, cicuta, &c. perhaps we might with equal propriety add eclampfia ab atmosphara phlogisticata.

There is a sporadic disease in Minorca and fome other countries fo very like the nine day fits. in some particulars, that it may be worth while here to collect, under one point of view, a few extracts concerning it. Nofologists have given it the title of trismus nascentium. "In hac urbe " afflictantur plurimi infantes, adeo feroci convulsione mandibulæ inferioris, ut ea appre-" henfi, nullo possint motu illam movere, et abhine fuctus lactis impeditur omnino.....Tot " interficit mala ista convulsio, ac variolæ aut " morbilliIn hoc periculum incurrunt recen-" ter nati usque ad nonum suæ nativitatis diem, " eoque transacto, omne discrimen cessare do-" cuit semper experientia." For these and fome other observations, from the writings of a Spanish physician, we are indebted to my friend Doctor Cleghorn's valuable treatife on the difeases of Minorca. After the history of the difease, the doctor observes that is is needless to add the remedies prescribed by the Spanish author, as he ingenuously confesses the disease to be so seldom curable, that in twenty years practife he had fcarce known fix to recover.

In Germany, Heister, de maxillæ spasmo, obferves, "Quod si sponte, sive e causa interna, "hic maxillæ spasmus in infantibus, ut sæpe "vidi, "vidi, contingit ut plurimum moriuntur et vix ullum fervatum vidi; licet laudatissima remedia nervina et antispasmodica internè atque externè quam solertissimè adhibita suerint."

Hofer, in the first volume of the Acta Helvetica, has given a long account of a disease not unfrequent in some parts of Switzerland, which Sauvages and Cullen feem to think of the fame fpecies with the preceding, but which differs from them very materially in some respects .-The title of his paper is, De tetano maxillæ inferioris in Infantibus. " Subjectum isti ob-" noxium," fays he, " est infans, qui inter " tertiam et duodecimam ætatis diem versatur. Cura hujus morbi, quamvis valde " lenta fit, attamen fi infans quintam a morbi invasione diem transegerit certissime fe-" lix est, ideoque dummodo tempus terere " possumus, res in salvo posita est." After giving an account of his method of cure, which confifts of a farrago of diffilled waters, fyrups and inert powders, as may be feen in Sauvages, he concludes, " hæc est methodus applicando-" rum medicamentorum, quâ ex tribus ægro-H c tulis Vol. III.

tulis curæ meæ commissis plerumque unus gratia divina evasit."

A late French author, Monf. Fourcroy, in a treatife entitled Les Enfans elevés dans l'ordre de la Nature, remarks "Quand je suis arrivé "en 1744 a St. Domingue, on ne pouvoit ele-"ver des negrillons dans la plaine du Cap Francios. Ils mouroient presque tous, c'est a dire environ quatre vingt sur cent, d'une ma-"ladie appellée dans le pays mal de machoire ou tetanos, qui les emportoit dans les neuf premiers jours de leur naissance." This disorder he informs us, when come on, is beyond the power of medicine, but that much may be done in the way of prevention.

From these observations it is evident,

That in certain parts of the world children are more subject to spasmodic diseases than others.

That these are more apt to come on within nine days after birth.

That coming on within this period they are generally productive of the most fatal effects.

And

And lastly,

That their causes and cure are ever involved in obscurity.

In each of these particulars, there is a striking analogy between the trismus nascentium or tetanus maxillæ inserioris and the nine-day fits.

It is farther worthy of observation, that the disorders of adults, which are confined to particular districts or tracts of country, more frequently arise from something noxious infecting the atmosphere of such places than from any other cause; and however difficult it may be to apply this doctrine to the cases in question, it at least affords some probable evidence towards the supposition, that they originate from somewhat similar causes.

Such are the observations which reflection and some reading suggested to me on this subject, previous to the publication of the London Medical Transactions in the year 1785. In this very excellent work, however, I met with An account of a singular disease which pre-

"vailed among some poor children maintained by the parish of St. James in Westminster;" which appears to me to throw much light on this obscure subject: I hope to be excused, therefore, for making some extracts from this valuable essay, for which the world is indebted to the accurate and learned Sir George Baker.

Sir George informs us, that on the 24th day of September, 1782, seventy-three children, viz. forty-fix girls and twenty-feven boys, of different ages, from that of seven to fourteen years, were removed from Wimbleton to a large house near Golden-Square. To this house these children came in good health, and continued fo for a fortnight; when on the 8th of October, a girl aged thirteen years was fuddenly feized with an excruciating pain in the region of the stomach and in the back, which was foon followed by violent head-ach, delirium and convulfions. After a few days, another and another girl were attacked exactly in the same manner; and towards the end of the month this difease had so prevailed as very much to alarm all those to whom the care of these children had been committed. On the 29th day of October Sir George's

George's advice was defired. He found nine of these poor girls and a female servant in the same room fuffering the various effects of a most dreadful malady. Five were in the agonies of extreme pain, three were most cruelly convulfed, and the other two were raving in a fit of delirium. The other inhabitants of this house had in general been healthy during the month of October, and it is remarkable that the difease above described affected females only, and was confined to those who had flept together in a certain room on the fecond floor. The height of this room was a little more than eight feet, the length twenty, and the breadth fixteen: it contained ten beds, in which it was intended that eighteen girls, two in each bed, and a female fervant fingly should fleep; but Sir George discovered that this being a favourite room on account of its warmth, was generally crouded at night by a much greater number than its complement: that as much space as possible might be made for beds, the chimney had been ftopped up with bricks, and it had been the conftant custom of the servant at night to keep the door flut and to close the window shutters, that as little fresh air as possible might be admitted

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On enquiry it appeared that three candles and a lamp of oil had been generally used during the night in this chamber, but they were hardly of any service, giving a glimmering light and frequently almost extinguished.

Sir George advised the chamber of the fick to be evacuated without delay, the healthy to be separated from the diseased, the chimney to be opened, and whatever tended to exclude fresh air to be removed. These directions were complied with, and the patients having been removed to a large apartment (where proper care was taken that fresh air might be admitted) passed a quiet night free from every fymptom of the difeafe. However, the next morning, immediately on their awaking, they were all seized in the usual manner, but it was very foon observable, that the paroxysms returned less often and with less violence, and fometimes without convulfions, and that during the intervals the delirium appeared gradually to abate.

From these and various other important facts which we cannot here recite, Sir George conjectures that the source of this extraordinary discase was vitiated air. To me his evidence appears sufficient to afford conviction to every reasonable

reasonable mind, and if I am not mistaken, it adds greatly to the probability of the opinion, which supposes that the nine-day fits originated from a similar source.

Upon the whole, from the evidence adduced, I hope the following inferences may not appear improbable.

- 1. That one effect of an impure atmosphere, on the human body, is to produce spasms and convulsions.
- 2. That all young creatures, and especially infants within nine days after birth, suffer most feverely by such a noxious cause; and therefore
- 3. That in the construction of lying-in hospitals, and perhaps of all public buildings intended for the reception of children, lofty ceilings, large windows and moderate fized rooms should be especially attended to.
- 4. That in the arrangement of fuch edifices, no apartment should be completely filled with beds, if it can be conveniently avoided; and
- 5. That in their management attention is especially necessary to cleanliness, as well as to H 4. the

the constant and uniform admission of atmospheric air by night as well as by day; and

Lastly. That by pursuing such measures with care, diseases may be prevented which it has hitherto been found difficult, and sometimes impossible, to cure.

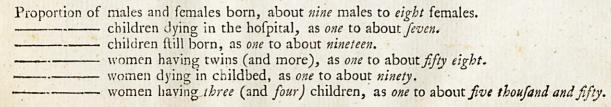
Chargabhicea gancingeann an ma seal an aig

es fiver en espatiación es villaga.

An Abstract of the Registry * kept at the Lying-in Hospital, in Dublin, From the 8th of December, 1757, (the Day it was first opened) to the 31st of December, 1788, each Year distinguished.

By B. H. Register.

			1000		5				- 2' *-			4
		Number of Pa- tients ad- mitted.	not	Delivered in the Hospital.	Boys born.	Girls born.	Total Number of Chil- dren.	Women having twins.	Children dead.	Children (till-born.	Women dead.	
	From 8th to 31ft De- cember 1757	55		55	30	25	55		6	3	I	
	(1758 1759	455 413	7	454 406	255 228	207 192	462 420	8 13 1had 3	54 95	2 I 22	8 5	
The second secon	1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776	571 537 550 519 610 559 611 695 689 675 724 725 727 709 752 883	15 16 17 31 22 26 30 31 34 35 29 21 33 28	556 521 533 488 588 533 581 664 655 642 670 695 704 694 681 728 802	300 283 279 274 287 288 324 373 362 350 372 370 368 367 357 364 418	260 249 266 224 308 251 261 301 302 301 305 341 344 344 334 378	560 532 545 498 595 539 585 674 664 651 711 712 711 691 742 825	4 11 12 12 7 6 4 10 9 7 16 8 17 10 14 22	116 104 106 94 83 94 111 125 154 152 107 102 116 136 154 122	36 29 33 29 28 25 18 29 47 38 37 44 32 29 27	4 9 6 9 12 6 3 11 16 8 8 5 4 13 21	
	ip 1777 1778 1779	872 961 1064	31 37 34 53	835 927 1011	452 476 550	395 460 476	847 '936 1026	1 had 3 12 9	132 145 127 146	39 35 39 59	7 7 10 8	
	1780 1781 1782 1783	967 1079 1021 1230	53 48 4 52 31 63	-919 1027 990 1167	499 598 549 632	441 447 458 553	940 1045 1007 1185	21 18 17	115 121 127 91	41 38 57 72	5 6 6 15	
	1784 1785	1317	56 57	1261	643	641 609	1284	1 had 3 24 28 1 had 3	76 87	68 75	8	
-	1786 1787 1788	1396 1418 1533	45 71 64	1351 1347 1469	716 705 725	656 670 771	1372 1375 1496	21 28 25 1 had 4	51 59 55	95 72	8 14 23	
	Totals	26321	1075	25246	13505	12177	25682	432	3363	1349	282	



^{*} An abstract of this Registry, from 1757 to 1784, was annexed by Dr. Clarke to his letters to the late Dr. Price, (see Philosophical Transactions, Vol. LXXVI. and London Medical Journal, Vol. IX.); but the present abstract, being brought down to a later period, includes a much greater number of sacts, and, in particular, shows the decreased mortality of children in the Hospital since the year 1783.—EDITOR.