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XLVII. Description of a double Uterus and Vagina. By John Purcell, M. D. Professor of Anatomy in the College of Dublin. Communicated by Dr. Morton.

Dublin, April 7, 1774.

Redde, June 23, AST fummer the body of a woman, who had died in labour in the ninth month of her pregnancy, was diffected at the Anatomical Theatre of Trinity College. Upon opening the abdomen, an uterus appeared of such a size and form as are generally obferved at that period. It contained a full grown foetus; but was furnished with only one ovarium and one fallopian tube, which were situated on the right On the left was placed a fecond uterus unimpregnated and of the usual fize, to which the other ovarium and tube were annexed. But these two uteri were totally distinct and separated from each other, except at the lower extremity of their necks, where their union extended a quarter of an inch. and an acute angle was formed between them. There was nothing extraordinary in the formation of the external parts of generation; but from each fide of the meatus urinarius a membrane ran downwards:

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and the two, having comprehended this orifice between them, were joined together a little below it, to as to form, by their union, a feptum or mediastinum, which taking the remainder of its origin from all that prominent ridge called the superior columna, and descending perpendicularly, was inserted into the inferior columna, so as to extend from the entrance of the vagina as far backward as its posterior extremity, and thus to divide it into two tubes of nearly equal dimensions. But each of these did not lead folely to the womb of its own fide; for the right vagina became gradually wider as it ran backward, and at last was so far dilated as to comprehend, within its circumference, the orifices of both uteri; while that on the left fide, having taken an oblique direction, ended in a cul de sac, or cæcum. Such a conformation might have rendered it totally useless: to prevent which, Nature, fertile in expedients, seems to have had recourse to a very extraordinary contrivance. This was a fiffure in the feptum, an inch in length, and about an inch distant from the womb of that fide. Although its circumference was perfectly smooth, we must acknowledge that it might have arisen from an accidental rupture of the feptum; the lips of the wound not uniting, and, in process of time, becoming callous; and yet, I imagine, that the parts were originally formed in this manner, in order to preserve a communication between the two vagina.

Thus it appears, that both uteri might be impregnated through either vagina, as that on the right fide led directly to both; and as, by means of the fiffure in the feptum, the femen could eafily be Ppp 2 thrown

thrown from the left vagina into the right, where the apertures of the two wombs were placed. Through the latter passage both uteri would seem to have an equal chance for impregnation; for, notwithstanding that which contained the foetus was placed almost directly in a line with the axis of the right vagina: yet this probably was not its original position; but by degrees its bulk increased so much as necessarily to occupy the middle space, and push the unimpregnated one afide. But, however furprizing it may feem at first view, yet there is reason to imagine, that the right womb, though at a greater distance, would be much more apt to conceive than the other, if the left vagina only had been made use of. For when this was distended, it appeared that the posterior part of the septum, by its protuberance, closed up and covered the left os tineæ; and, as such would probably be the case in copulation, the semen not finding a ready admission into it, would pass over to the right orifice, where its entrance could not be so much obstructed. So that, if we may hazard a conjecture, I think it more likely, fince the right uterus alone conceived, that the left vagina had generally been employed.

It was a prevailing opinion among the ancients, that male children were conceived in the right fide of the womb, and females in the left. Having so few opportunities of dissecting human subjects, they depended too much on the analogy of the structure of brutes, which has been the principal source of the many erroneous descriptions which we meet with in their works. It is well known that the uterus of many quadrupeds is divided into two cornua, in which the foetus' are

lodged; and it was not very abfurd to conclude, that Nature might have formed them for the diffinct repositories of the two fexes. Accordingly this was supposed to take place in the human uterus, which has been described and delineated as if distinguished into two chambers. Hence arose the opinion, which is received in some places to this day, that a very fure prognostic, with regard to the fex of the child, may be drawn from the fide of the belly on which the tumour is more fenfibly felt. Diffections being now more frequent have proved, that the human womb generally has only one undivided cavity; fo that the foetus, let it come from which tube it may, will, when arrived to a certain fize, occupy it entirely. This observation, however, is not sufficient to refute the supposition that each fex might have its peculiar ovarium; and some authors pretend, that they are able to determine how many males or females any animal has brought forth, by examining the number of cicatrices on its ovaria. For, when females only had been produced, the right ovarium was found still full of veficles, but the left quite That this is not always the case in brutes, appears from the observation of Dr. HARVEY, who frequently found male foetus' in the left cornu, and females in the right. In the human subject, opportunities of ascertaining this matter must occur very seldom. We have an instance, recorded by CYPRIAN, where both a boy and a girl were conceived, although the right tube was wanting. But the present case affords another example, which is decifive; for here the impregnated uterus had not the smallest communication with the left ovarium or tube, and yet it contained a female foetus.

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The septum was not merely membranous, but fleshy, and of a considerable thickness; and, like most other mediastina in the human body, consisted of two laminæ combined. Of these each vagina furnished one; for each had its own constrictor, and, being completely surrounded by muscular fibres, had a power of contraction independent on the other; which could not be effected if both vaginæ were comprehended within the same muscular rings, and separated by a membrane incapable of action.

It has been the opinion of many modern authors of the first reputation, that the fundus is that part of the womb, whose extent increases, in the greatest proportion, during pregnancy; and upon this supposition, they have founded various theories. One of the principal arguments which they propose, in support of their opinion, is, that the infertion of the fallopian tubes is removed from the angles of the uterus, and gradually descends towards its neck, so that a short time before delivery they are at a very great distance from their former position. HALLER does not attempt to deny these facts; but mentions three instances where the tubes did not change their place. But PETIT, in his Memoire on the cause and mechanism of child-birth, is clearly of opinion, that the whole doctrine is destitute of foun-He afferts, that the fundus increases less than any other part, and that the furprising growth of the womb is effected by fresh supplies of fibres, fuccessively furnished by the neck and parts adjoining. As a decifive proof, he infifts, that the insertion of the tubes continues nearly in the same place, and accounts for the error of the abovementioned

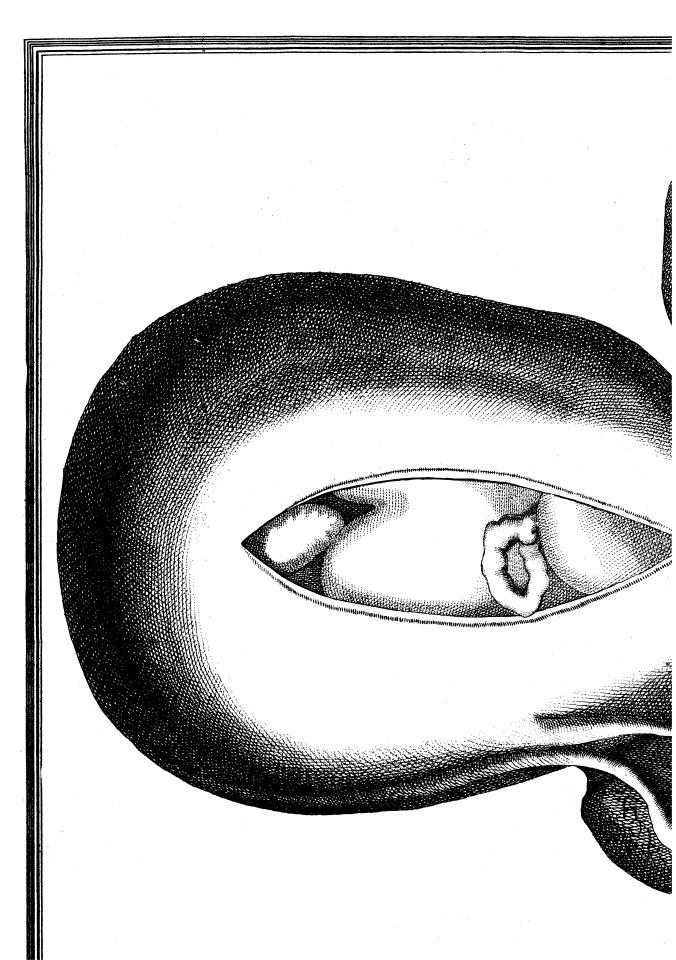
tioned anthors by observing, that as the fundar is pulshed upwards by the growth of the other parts, a greater portion of the tubes will adhere to the surface of the womb, and thus the apparent place of insertion be very far distant from the real one. This remark is verified in the present instance; for the tube at first sight appears to penetrate into the middle of the uterus; but, upon a closer inspection, and by introducing a bristle, it is found to run for a considerable space between it and the coat, which it receives from the peritonaum, and at length to enter into its cavity not very far from the spot which it may be supposed to have occupied before impregnation.

With regard to superscetation, it is evident how eafily it might have been effected in the present subject; and the supposition of a double uterus can readily account for it on many other occasions. But this is a matter on which it would be needless to dwell any longer, as it has been very fully treated in GRAVEL'S Differtation, published in HALLER'S Collection: where we meet with a fimilar instance of two uteri and a vagina, the anterior part of which was divided by a feptum; but whose posterior portion was fingle, where the feptum was discontinued. HALLER, in his Opuscula Pathologica, gives the history of a young lady of quality who had two wombs, each of an oval shape, and furnished with its own peculiar vagina. One of these vagina was anterior, and communicated with the right womb; the other was posterior, and led to the left. And it is worth observing, that in these two cases, and in most others of the same kind, which have been hitherto observed, each uterus had only one ovarium and one tube.

A double uterus is described by o. ACREL, in a treatise printed at Stockholm, in 1762; and in the seventh volume of HALLER'S Elementa Physiologiae, various authors are referred to, who deserve to be consulted upon this subject. In some of these we find examples of two wombs, or one uterus, divided into two cornua. In other instances the uterus retained its proper external appearance, although it was really double, its cavity being divided by a

septum.

Since, therefore, it is certain that, in the structure of the parts of generation, Nature frequently deviates from her ordinary course, practitioners in midwifery ought to confider how many difficulties they may, perhaps, be exposed to by not attending to the possibility of sometimes meeting with those organs formed in the same manner as in the subject of this essay. An attention of this kind would probably have been of the utmost consequence in the present case; for the orifice of the unimpregnated uterus was so far dilated, as easily to admit two fingers, which might have arisen from the attempts of the midwife to bring on delivery: nor can we conceive any thing more vexatious than such a case would prove, were it to fall into the hands of an inexperienced person; as the orifices of the different wombs presenting themselves alternately to his touch, he might entertain doubts of the pregnancy of his patient, even when her labour was approaching; and, by endeavouring to dilate the left vagina, all his efforts to promote delivery would only serve to render it more difficult, or perhaps impracticable.





TabXV . p. 480.

