An inaugural physiological dissertation on the catamenia: to which are subjoined, observations on amenorrhoea; submitted to the examination of the Rev. John Ewing, S.T.P. provost, the trustees and medical professors of the University of Pennsylvania, for the degree of Doctor of Medicine / by James Westwood Wallace, of Virginia, member of the Royal Medical Society of Edinburgh.

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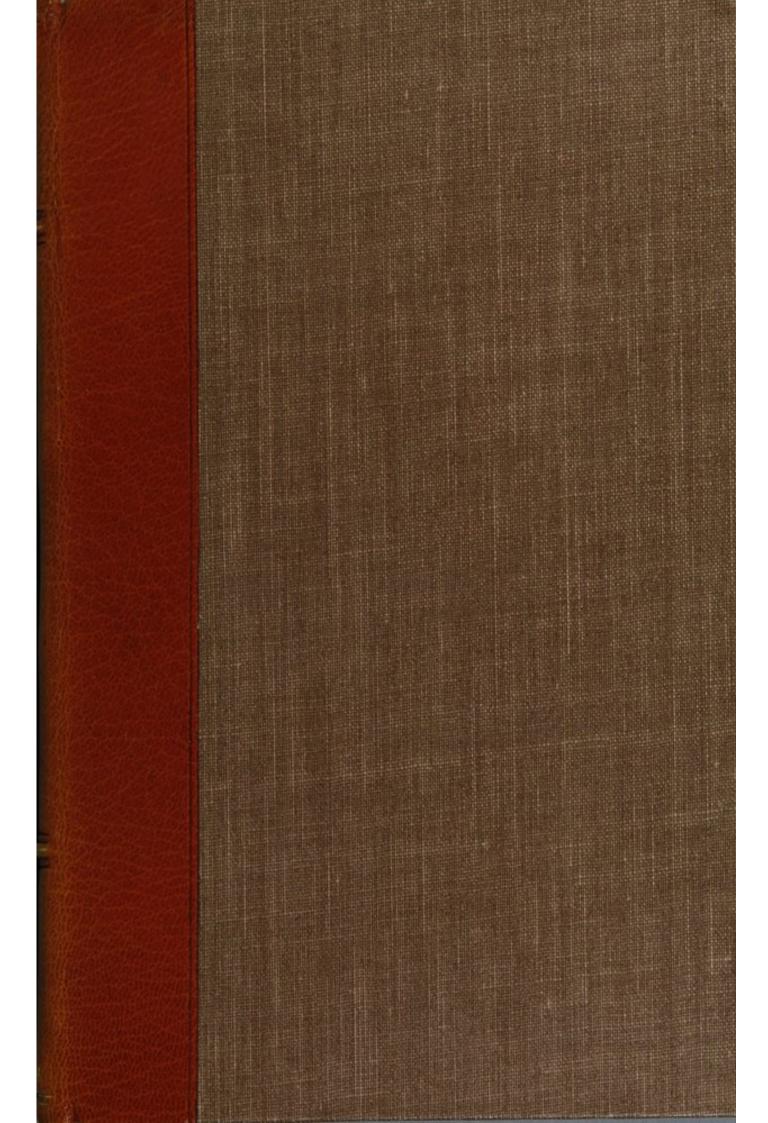
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AN

Inaugural Physiological Differtation

ONTHE

CATAMENIA:

TO WHICH ARE SUBJOINED,

Observations on Amenorrhœa.

Submitted to the Examination of the

REV. JOHN EWING, S. T. P. PROVOST,

THE TRUSTEES AND MEDICAL PROFESSORS OF THE UNIVERSITY OF PENNSYLVANIA,

For the DEGREE of DOCTOR of MEDICINE.

BY JAMES WESTWOOD WALLACE, OF VIRGINIA,

Member of the Royal Medical Society of Edinburgh.

PHILADELPHIA:

NO. 41, SOUTH SECOND-STREET.

MDCCXCIII.

Inaugural Physological Differention

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PRINTED BY T. DORSON, AT THE STORE HORAL.

MILEORGIU

To BENJAMIN RUSH, M. D.

Professor of the Institutes and Clinical Medicine, in the University of Pennsylvania,

WHOSE character is not less esteemed for literary accomplishments, than morality and benevolence, and to whom this University is much indebted for his vast fund of facts and many ingenious and new speculations,

This Differtation,

Is gratefully inscribed,

By his Friend,

THE AUTHOR.

and bourse and took it took and HEOH Which bus y its not mult of salusiffendos stam a printer paids it and represent the common met.

GUSTAVUS RICHARD BROWN, M. D.

SIR,

SINCE the practice of Dedication is meant to defignate esteem and friendship, permit me to inscribe the following Dissertation to you; if it merits your approbation, alone, I shall feel myself amply compensated. Consider it as the fruit of a study commenced under your auspices,

And believe me to be,

Your Friend,

THE AUTHOR.

To JOHN THOMSON MASON.

SIR,

IMPRESSED with the most lively sense of Gratitude to your deceased father, whose memory I revere, I cannot in silence overlook the son of my patron and friend; permit me, then, as an acknowledgement for the particular care and attention shewn me at an early period, to dedicate this Dissertation to you,

And believe me,

Your Friend,

THE AUTHOR.

INAUGURAL DISSERTATION.

T.

THE uterus is situated in the hypogastric region, is a hollow vifcus, and is defigned to receive the first rudiments of the fœtus, which it retains until its parts are completely evolved, and is fitted to make its first appearance on the theatre of the world. The nerves of the uterus are principally derived from the intercostal; its arteries from the hypogastric and spermatic. These arteries are so ramified through the fubstance of the womb, which is of a lax, fpongy confistence, that they form a very confiderable part of its fubstance. When the fubstance of the uterus is divided after a lucky injection of the uterine arteries, it appears to be nearly all vafcular. When we meditate on this structure, surprise at the great quantity evacuated at some times may cease, and we may discover astonishment that the discharge

discharge is not more often immoderate, when we reslect that it proceeds from the open mouths of perhaps a half million of vessels. This organization so curious and interesting is evidently necessary to enable the system to effectuate that phenomenon called the menses.

II.

FROM the mouths of the uterine arteries that discharge of blood called the catamenia is poured fourth. This flux appears designed for the support of that condition of the uterus which enables it to retain and support the impregnated ovum.

III.

THE menses is a discharge of pure arterial blood from the uterine arteries. They appear at puberty, and return at stated periods, and cease in advanced life. Though the various morbid affections to which the sex is liable, interrupt the course and vary the quantity, they are generally absent during pregnancy and lactation: They are considered as peculiar to the human semale. *

IV. Con-

^{*} Some have afferted that a certain species of monkey menfruate, but this is doubtful.

IV.

Constitution, climate, and modes of living, alter very confiderably the period at which this healthy evacuation first makes its appearance. As this period is established at puberty, the eruption will be earlier or more late, as the human structure is sooner evolved under the warm breezes of a mild, or retarded by the cold of a northerly climate. The menses appear later in those of a rigid sibre, are more painful and tedious, than in others of a more lax habit, and whose constitutions are less bordering on torpor of the nervous, and rigidity of the muscular systems.

V.

In countries near the torrid zone the catamenia appear as early as the eighth or ninth years. In the Icy regions they are retained to the 20th and 25th years. In this temperate climate they generally manifest themselves 2bout the 13th or 14th years.

VI.

As the menses indicate the maturity of the system, and as the maturity of this is necessary to generation, and as premature venery is highly injurious to the constitution, the laws of most nations have determined at what age females are marriageable. This is much influenced by climate, &c. In Persia, India, and other countries contiguous to the torrid zone, marriages are celebrated at the eighth or ninth year. Marriages in this country are never celebrated until the female attains to fourteen, and the male to sixteen, years of age.

VII.

THE first travellers over the northern countries, whose observations have been published, affirm that the semales of those northern countries do not menstruate. But the most respectable authority has since shewn, that the semales of Lapland and Kamschatka, and all the diminutive race of the Esquimaux, disfused over such immense tracts of land near the frigid zone, obey this universal law of the human se-

male oconomy. Though the menses in these countries appear late, continue a fhort space of time, and return after long intervals, and although they flow from certain women only during the fummer, while there is an abundance of aliment; yet among these nations they are no less necessary to conception and the health of the fystem, than among the inhabitants of more temperate climates, and any deviation from the laws of the climate produces fimilar affections to those which occur to females nearer the torrid zone. A variety frequently occurs in the different fituations of the fame country. Haller mentions a perceptible difference in the women inhabiting a higher or lower fituation of the fame kingdom. He observed the appearance of the catamenia in certain low and warm districts as early as the eighth year of age; but in more mountainous and northern districts as late as the twentieth and twenty-fifth years. In these United States a variety is observable agreeable to the variety of country and modes of living. Though they appear generally about the 13th or 14th year in this country, I have feen one instance of their occuring as early as the ninth year. Van Swieten has observed that the females of Holland menstruate more copiously than other

women inhabiting the same latitude. This he ascribes to the use of the foot-stove so common among them; indeed I conceive this practice can have much influence on the discharge. Modes of living no doubt influence the time of appearance, the quantity, and the duration of the catamenia. The use of warm chambers and soft beds often increase the evacuation: Contrary circumstances produce contrary effects.

VIII.

The earlier the evacuation begins the fooner does it discontinue, and vice versa. Females inhabiting very southern latitudes attain to maturity at the ninth year, are mothers at sourteen, or sooner, past child-bearing at twenty-sive, and exhibit strong marks of old age at thirty. It has been observed that in very northern climates, women bear children at the advanced age of sixty.* In the United States of America the menses generally cease on or about the 45th year, at which time the women generally cease to breed.

IX. THE

^{*} Dr. Monro's Lectures on Physiology.

IX.

THE appearance of the menses is usually announced by the following fymptoms. strongest marks of puberty now manifest themselves, the manners alter, the voice becomes changed, the mammæ fwelled and turgid, and the pubes now shew the first marks of covering. To these succeed heat and redness of the genital system, sometimes to a degree bordering on nymphomania. The fystem now becomes affected with languor and laffitude, vertigo and head-ach, and various pains are also felt in the hypogastric and lumbar regions: The eyes now become languid and dull, a blue colour appears below the orbits: A ferous discharge now breaks forth from the uterus which relieves the afflicted fair.

X.

THESE fymptoms only appear when the menses are about to become established. Many months and even years are consumed before this is essected. These symptoms, commonly precursors to the event, occur month-

ly,

ly, though generally with fome alleviation in proportion as the ferum becomes more tinged with blood. The discharge becomes, at length, pure arterial blood. The eyes now acquire their wonted brilliancy, the lips become tinged with an agreeable red, the cheeks bloomy, gaiety and chearfulness succeed to languor and despondency; and now the fair one, resplendent with joy, through all nature disfuses her charms.

XI.

The evacuation may be divided into three stages, the beginning, height and decline. It commences first serous; this gradually becomes more coloured, until pure arterial blood comes forth. In the decline the blood becomes mixed with serum, which gradually increases until pure ferum is again evacuated.* This serous discharge, diminishes gradually, until a final stop is put to the evacuation. The system, at this time, often becomes affected with various disorders, as vertigo, dispepsia, apoplexy and syncope.

XII. THE

^{*} This is not the case with all women—some evacuate pure arterial blood to the last.

XII.

The menstrual period when once established, becomes uniform, unless interrupted by pregnancy, lactation, or disease; though it is various, as has been before mentioned, from climate and modes of life. The discharge usually returns once in twenty-seven or thirty days, and rarely continues longer than sive or or six, and seldom shorter than two days. A deviation less frequently takes place in the time of recurrence, than in the quantity, or time of continuance.

XIII.

It is difficult to ascertain, precisely, the quantity evacuated at one menstrual period, as it is impossible to come at an actual measurement. Experiments to ascertain the quantity have been proposed, and indeed really made with a sponge; but as part of the blood may be absorbed, as the orifice is stopped up by the sponge, it must be but an inaccurate experiment. The usual quantity for a healthy female of a moderately lax sibre is from three to

B

fix ounces. Luxurious living, warm chambers, and a sedentary life, very much alter the quantity.

XIV.

IT may not be improper in this place to enumerate the opinions that have been entertained of the nature of the catamenia. They have been supposed of so deleterious a nature, as to extinguish the life of a male, and destroy the germination of plants. This certainly is giving the evacuation more poisonous power than any thing in nature possesses. Haller mentions that gardeners would not allow their wives or daughters to approach a plant, if recently fet, if their catamenia were flowing. The Italians harboured a notion that the breath of a woman during that period would kill filk worms. La Motte retains the idea of these women being deleterious, but with fome limitation; he only fuspects those with red hair—He relates a story of a servant maid whose hair was red, spoiling a cask of wine and half a hog, by having access to the former during her menstruation, and falting the latter at the same period, which soon putrified. Indeed, I think La Mottés red headed fervant man, would have been equally deftructive to his wine and pork. The improbability of these tales destroys entirely their credit.

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retention in the folds of the varings and if

THE idea of menstrual blood being poisonous appears to have arisen from laws and institutions of the Oriental nations. The particular fource of this error first arose among the Jews: they were fond of cleanliness, and converted their customs into religious ceremonies—Their Legislator enjoined purifications as a part of religion. After the most ordinary and necessary duties of life, they were compelled to have recourse to purifications. These purifications were thought particularly necesfary to menstruating females. If a male touched the bed on which the female lay, he was thought impure for fome time. The poor female was after this period unclean for feven days. It is not to be wondered at, that fuch opinions prevailed among the vulgar after a strict adherence to the above customs.

Commence increasing the property of

XVI.

THE menses are apt to become acrid by long retention in the folds of the vagina; and if copulation is performed in this fituation, the male often contracts a difease similar to Gonorrhœa, but this generally ceases spontaneously in a few days. Perhaps this discharge from the male urethra might have given rife to the rigor of the Jewish customs respecting the fair fex. But now, when science and civilization have banished superstition and bigotry, the greatest ornaments of the human race, are no longer considered as mere convenient utenfils, the former ridiculous customs are done away, and women perform their domestic and social pleafures without any fuspicion of harbouring a natural poison.

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THE cause of the menstrual flux has given rise to many speculations among Medical Philosophers. Some of them have been engaged respecting minute inquiries into the proximate cause of menstruation; but the results of their investiga-

(13)

investigations afford nothing satisfactory on the subject, and all I can do will be to enumerate some of those which appear most plausible.

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IT has been faid that the tides are caused, the growth of vegetables accelerated, and the human fystem much influenced by the moon, as in mania, epilepfy, &c. The moon also has been supposed to be the cause of the menses, as they appear at the interval of a lunar month. But this last hypothesis is built on a tottering basis. As the influence of the moon is extended to all the animal creation, why is it exerted on the human female alone, and not extended to the inferior order of animals? If the catamenia are the effect of lunar influence, why do they occur at puberty, and cease in advanced life? Would not the moon exert its influence on all the females inhabiting the fame lattitude, the fame country, the fame city, the fame hofpital, and all the fifterhood, inhabiting the fame convent, at one time, and would not the catamenia return at exactly stated periods? Finally,

nally, would not all women become pregnant nearly on the same day of the month?

XIX.

FERMENTATION has been supposed the cause of the menses; but the idea of fermentation going on in the living animal blood has been entirely done away by the learned and ingenious Dr. Gustavus Richard Brown of Maryland, in a dissertation published at Edinburgh, de ortu animalium caloris.

XX.

The experiments of Spallanzani fully evince that fermentation does not go on even in the Stomach; and when this is admitted, it cannot be supposed that any can take place in the uterine arteries. The idea of fermentation in the living body is inconsistent with the laws of the animal economy, and indeed with reason. What power can act by inducing fermentation once a month? If fermentation is the cause of the evacuation, I will ask, what stops the process when once commenced? This error first arose among the Chymists.

XXI.

On the other hand, the mechanic feet have supposed it occasioned by the depending situation of the uterus. To this opinion let it suffice to say, that some women confined to bed for many years menstruate freely and copiously. I know one instance of a woman, in the Royal Insirmary of Edinburgh, who menstruated freely though she had been confined to bed nine years. She was much subject to menorrhagia.

XXII.

UNIVERSAL plethora has been supposed the cause of the phenomenon. But when we consider the lax cellular texture of the lungs more easily admitting of a determination than any other part of the body, we might more reasonably expect hemoptysis than catamenia. Nay, when the system has been reduced much below its natural plethoric state by hemorrhage even the morning of an expected eruption, still the menses flow.

XXIII. ANOTHER

XXIII.

ANOTHER modern opinion is, that of a partial plethora of the uterine veffels. For this opinion there are many advocates. If uterine plethora produces catamenia, why do they appear at puberty, and cease in advanced life? Wounds of the inferior extremities, from which considerable hemorrhages proceed, seldom prevent the flux, though they are inflicted immediately before the evacuation is to come forward.

XXIV.

It has been conjectured, and with confidence afferted, that the uterine veins are of a firmer texture than the arteries, and this texture, by retaining the venous blood, produced plethora in the arteries. In my humble opinion, it must be difficult indeed to ascertain the comparative difference between vessels in a lifeless and collapsed state; though by the assistance of microscopes some difference might be suspected, the conclusion drawn cannot be just; for great is the difference between animate and inamate

(17)

animate matter. A substance, endowed with life, exhibits various phenomena peculiar to itself, and vice versa.

XXV.

ANOTHER modern theory is, that the blood discharged, is not simple blood, but a secreted sluid. Shew one secretion that returns at stated times, and I will admit the menses to be of the same nature. The urine is discharged at certain times, yet the secretion of it incessantly goes on. Bile becomes, at particular times, more abundant than usual, still the secretion is carried on, during a healthy state, with uniformity. Passions of the mind, and irritating substances, produce a preternatural slow of tears, yet the secretory function is uniformly continued to preserve the humidity of the eye.

XXVI.

How can any glandular function be performed only at stated times, while the structure of the gland remains entire, and the supply of blood is uniformly the same? An attempt to prove the menses a secretion, only

C

removes

removes the truth the farther off, and involves the subject in additional obscurity.

XXVII.

AFTER delivering the various opinions on the subject of catamenia, I cannot conceal my astonishment, that the cause of menstruation should yet remain an object worthy of investigation. Let us, for a moment, suppose it proven to demonstration, that it depended on lunar influence, on a ferment, on a position of the uterus, on general or on partial plethora, and, lastly, on a true secretion. Permit me to ask, what practical advantage could follow? As the labours of the learned have been fruitless, success on this point cannot be expected: And, if we judge of the future by the past, the cause of menstruation will ever remain hidden in the recesses of obscurity.

XXVIII.

In all probability all we shall ever know on the subject, is, that it is pure arterial blood, which proceeds from the mouths of those uterine arteries which open into the cavity of the uterus. This fact is supported by the combined testimony of the most celebrated anatomists Europe and America assord. This structure being discovered by no theoretic author, anxious to make it the basis on which he might rear an elegant superstructure, but delivered in the form of a simple truth, has obtained the credit of all physiologists. Indeed it has been proven by injection *—invertions of the uterus also demonstrates this sact, as the blood can then be seen to proceed from the open mouths of the uterine vessels.

XXIX.

EVERY medical man must acknowledge that the menses are indispensably necessary to the health of the semale, and the propagation of the human species. Though the discharge is in so many respects inconvenient, as being subject to excess and deficiency, either of which will destroy both the health of the system and the power of procreation. When we contemplate on these inconveniencies to which the human semale is alone subject, in a philosophic

^{*} Mr. Fyse's private Demonstrations on Auatomy, Edinburgh.

fophic view, we might be led to conclude that they are but imperfectly finished animals. In a superstitious light, we might suppose the discharge meant as a curse on the sex for the fall of man.

XXX.

We come now to a part of the subject which Physicians have more generally agreed on—the uses of menstruation.

XXXI.

The menses are designed, principally, to preserve and keep up a state of tonic unison between the uterus and ovaria, to give to the uterus that condition which capacitates it to retain the impregnated ovum; to carry a sufficient quantity of blood for the support and evolution of the sœtus in utero; and to support the health and welfare of the semale œconomy. The discharge may serve other purposes, but they are merely secondary.

XXXII.

CONCEPTION never appears before the menses, and never after they have ceased—this

this a strong mark of the wisdom in all natural institutions; for, during both periods, the system is incapable of affording a sufficient degree of nourishment for both mother and setus.

XXXIII.

RARELY, or never, is coition prolific immediately before menstruation; and the true and final cause of the evacuation is, doubtless, to effectuate pregnancy. Few would become pregnant were the intervals shorter. Sapient nature has so organized the human semale economy, that women, unless affected by disease, may become pregnant almost at any time.

XXXIV.

Coition, immediately fucceeding the difcharge, is often fruitful; but the time, of all others the most critical, is a day or two after the flood has ceased—a space of several weeks is necessary to form the adhesion of the ovum to the uterus—were the menses to occur at shorter intervals, the ovum would frequently be lost.

XXXV.

Those females afflicted with menorrhagia, fluor albus, or amenorrhoa, are generally unfruitful—and this ftate of the fystem, so inconsistent with the female occonomy, is the only cause of sterility which the art of medicine can remedy. Obstructions of the fallopean tubes; imperfections of the ovaria, and various other morbid affections of the internal parts, are not to be discovered by human sagacity, and, if discovered, admit of no cure. Ninety-nine of an hundred cases of sterility proceed from irregularities of the menses; and, in ninety-nine cases of an hundred, we may promise a cure of barrenness, when it proceeds from these causes*.

XXXVI.

Those women who are subject to an hemorrhage vicarious to the menses, are sterile, though the evacuation be monthly; for, since the blood does not pass through the uterine vessels,

^{*} Dr Gregory's Lectures on the Practice of Medicine, Edinburgh.

vessels, they lose their activity and tone. Do not the ovaria sympathise with the uterus and partake of its morbid affections? Can conception ever take place when the ovaria and uterus are not in perfect unison with each other?

XXXVII.

Some females of robust constitutions, and rigid fibre, are called viragos. These from constitution menstruate sparingly, or none at all. They are also, with sew exceptions, sound to be barren—In what manner is this to be explained? Can rigidity of muscular sibre communicate a similar state to the arterial system? Are the arteries endowed with muscular sibres and muscular properties?

bollows and excelled XXXVIII.

THOSE females are the most prolific from whom the menses flow regularly, and appear neither too soon nor too late. In temperate climates, where the menses flow most regularly, the number of inhabitants is generally in proportion to the fruitfulness of the soil. Wo-

men of the east are prolific—those of the north the contrary. Persia and India abound in inhabitants—Tartary and Lapland have few. The women of Persia and India menstruate regularly and easily—Those of Lapland and Greenland, late and scanty, and, confequently, are not very prolific.

XXXIX.

How wifely has nature ordered all things. India and Persia are fertile and abound in inhabitants. Russia, Lapland, and Kamschatka are inhospitable and barren, and have, comparatively speaking, but few inhabitants. The north was called the hive of nations, because their numbers had gradually increased until the productions of the soil were insufficient for their support. Hence they migrated to more fruitful countries, and excelled the inhabitants, enervated by luxury and ease, both in valour and numbers.

residented (contract XL. Marchine Contraction

A NURSE cannot give fuck to more than one child, with convenience, at the same time;

time; and, during the period of lactation the ought not to conceive; for which purpose nature has fo wonderfully established the female œconomy, that when the catamenia ceafe, the breafts fwell; and, during the flow of the milk, the menses are absent. During pregnancy the vessels of the uterus are active and distended-those of the mammæ are flaccid and quiescent. When pregnancy and the lochial flow have terminated, the breafts become diftended, and the milk foon manifests itself. If the mother does not give fuck to the infant, the menses soon resume their wonted course. But, when the mother performs that natural function, the menses do not flow; and, during this period, the woman does not become pregnant, though, indeed, exceptions to this have been mentioned on the records of medicine. i smoot or ton at slemal mound oils

XLL

ted foon after mentirization. Other temales

THE mother cannot afford sufficient nourishment for the child at the breast, and the fœtus in utero at the same time. During pregnancy the milk alters in its nature, and becomes an improper nourishment for the child. (26)

Pregnancy and lactation are functions entirely opposite. A nurse, desirous to become pregnant, should discontinue the office of giving suck.

milk, the menter are MIIX During pregram

THE length of time for giving suck is prescribed by nature; for, so soon as the infant, by the assistance of teeth is enabled to chew food, it ought then to be weaned; for, at this time, the infantine system requires a more substantial nourishment, and the milk begins to acquire new qualities.

and, during this period the woman does not become prognant, the ILLIX adeed, exceptions

natural function, the mentes do not flow;

It cannot have escaped observation, that the human semale is apt to become impregnated soon after menstruation. Other semales are incapable of conception only during the venereal rage, when the uterine system is excited.

forms in meets or the .VLIX men During page

ishment for the child at the breast, and the

In infancy, the ovaria are small in size; and in semales of advanced years they are diminished

nished and contracted. They are remarkably full in brute animals, when they are in feafon. Do not the ovaria, in a particular condition of activity, by their stimulus, dispose to venery, and is it not this particular state of the ovaria that gives the female venereal appetites? Does not the female fystem fall into a leucophlegmatic and lax state, which gives predifposition to dropfy and many other diseases when the stimulus of this state of activity of the ovaria and uterus is abfent? The illustrious Cullen has offered a conjecture when treating of amenorrhœa, and supposes that a certain state of the ovaria in females prepares and disposes them to the exercise of venery about the period when the menses first appear. This must, evidently, be the state of activity abovementioned.

XLV.

SINCE menstruation is of this nature, it is proper that the same function should be wanting in animals of an inferior class. If they were endowed with the faculty of menstruating, they would enjoy an uninterrupted secundity, now the privilege of man alone.

Double

XLVI.

AMENORRHÆA or obstructed catamenia, so frequently met with, and so often destroying the health and happiness of the semale, by inducing diseases grievous in their nature; and, what is still of more serious consequence to mankind, barrenness—I will shortly mention, but would happily embrace an opportunity of a more ample detail, would the nature of this differtation allow it.

XLVII.

Any interruption of the menstrual discharge constitutes the disease now under consideration, except that interruption, or temporary cessation, the consequence of pregnancy or lactation. During the absence of the catamenia, from either of these causes, the semale system is freed from those symptoms which so constantly attend an unnatural obstruction.

iden emetion, to which the fex

XLVIII.

As the flow of the catamenia depends on a state of tone in the uterine arteries capacitating them to propel forward their contents, any power that takes away or diminishes that state, will produce the disease. The powers that effectuate this are numerous—as cold, fear, great exertions of the system, penurious diet, warm chambers, soft beds, late hours, excess in venery, the use of ardent spirits, of tobacco, tedious and lingering labours, frequent abortions, &c.

XLIX.

The fymptoms commonly attendant on this disease, are—sluggishness in motion, and some inability to perform it, acid eructations, gastrodynia, nausea, loss of appetite, distension of the stomach from flatus, sometimes a desire for chalk, leucophlegmatic appearance over the whole body, dematous swellings of the lower extremities, vertigo, headach, pains felt in the hypogastric and lumbar regions, particularly at the menstrual period, alvus constricta,

constricta, the pulse becomes much accelerated upon sudden emotion, to which the sex are liable, palpitation and syncope, when either of these occur, hysteric symptoms generally supervene, and sometimes to such a degree as to form hysteria in its exquisite character.

L.

As the cause of this disease is atony in those arteries which, in a healthy state, pour forth the menses, the indication of cure is to remove this state of debility. But another cause of obstructed menses has, and I think with propriety, been affigned, that is a constriction of the mouths of the arteries. This is more especially the effect of cold, and the exposure of the system to a humid atmosphere, and the feet to a damp ground. Here the indication of cure is very different. When the obstruction from the last cause is accompanied by fymptoms of pyrexiæ, as it frequently is, blood letting, and an antiphlogistic regimen generally remove the complaint in a short space of time. When dyspnæa attends the fever, which it does very frequently, venefection nefection is more particularly indicated, and may be repeated occasionally.

us cone of the usering arrends, may also

To answer the first indication of cure, the physician should always have in view the state of atony of the uterine vessels. This state is presumed to be always present, and communicates, by sympathy, a general laxity of sibre and leucophlegmatia.

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eve fact, it feveral times practifed in the Roys

Van Swicken mentions entitle

THE healthy tone may be restored by those remedies called tonics by writers on the materia medica—such as cold bathing, the use of chalybeate waters, and the various preparations of iron usually kept in the shops. Peruvian bark and iron combined, forms an excellent medicine. Also, iron combined with the various vegetable bitters and aromatics. Iron in its different forms merits particular attention, for seldom does the patient recover without the liberal use of this valuable emmenagogue.

ion is more particular

may be repeated occ. III.1

THE tone of the uterine arteries may also be excited by remedies that act more immediately on the uterus, as venery, when admiffible-Cantharides feem also to act on this vifcus by confent; also aloes, warm fomentations applied to the hypogastric region, though this should only be applied at the menstrual period. Pediluvia, bodily exercise and the exercise of gestation, compression of the external illiacs. Van Swieten mentions cures being effected by this practice. Though I have feen it feveral times practifed in the Royal Infirmary of Edinburgh-I have never feen good effects refult from it. The general action of the fystem may be excited by elecof chalvacete waters, and the veri tricity.

LIV.

one of iron ulitally bops in the thore. Peruvian

CANTHARIDES have been much used as an emmenagogue, and so far as my observation has extended, it has been of considerable efficacy. When exhibited in the form of tincture, in small doses, repeated two or three

times

times a-day, and especially when the above tonics are employed, I have seen it produce the most desirable effects.

LV.

When the practice of medicine was guided by the vague and hypothetical fancies of Physicians, and during the period the humoral pathology was so much cherished in the Schools of Medicine, when the phenomena of diseases were explained on the principles of acrimony, morbific matter, and Lentor, this disease served its turn to convince the learned and ingenious Physicians of old that Lentor, the Boerbaavean hobby-horse, really did exist, and was the cause of diseases.*

LVI.

THE mistaken cause of this disease led the advocates for the Humoral Pathology to a practice not less fallacious than their theory, viz. the use of mercury for the cure of amenorshaa. This medicine was administered with

^{*} Vide Boerhaave-Van Swieten's Commentaries.

with a view to open the arteries obstructed by an impermeable matter, Lentor; that the use of mercury is always unsafe or inefficacious in this disease I will not affert; but, that the indiscriminate use, for a length of time, is a practice to be depended on, I can positively deny.

LVII.

Since the expulsion of the humoral Pathology, Physicians have sought for a different source to explain the phenomena of diseases, viz. changes in the solidum vivum, this has given rise to a more rational practice and one more generally attended with success.

THE END.



