

AN  
INAUGURAL DISSERTATION  
ON

*The Signs of Pregnancy*

SUBMITTED TO THE  
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AND MEDICAL FACULTY  
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BY

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To  
Doctor Watson  
As a mark of respect  
for his  
This high standing as a Teacher.  
And sterling worth  
As a  
Practitioner of Medicine  
This  
Inaugural Dissertation  
Is  
Respectfully Dedicated  
By the  
Author

## The Signs of Pregnancy—

Immediately after effective coition of the male with the female a series of changes ensue which are of great importance to the physician; from the fact that his opinion may decide the fate of the female in a court of justice where her most important interests are intrusted to the laws of the country.

Aside from a medico-legal point of view, he is often consulted relative to deformities, and diseases which prevent natural labour, or parturition. His decision may redeem the character of the innocent, and virtuous; restore peace, happiness and reputation to the family circle. Then let it be the earnest endeavor of every

physician to acquaint himself with rational indications resulting from fruitful sexual intercourse; for an error committed under the circumstances might not only affix a lasting stigma upon his own reputation both professionally and morally, but to that of the "Chast and贞洁 woman". Inexperienced as we are in the science of Obstetrics we are not expected to present any new signs save those designated by our illustrious predecessors, whose abilities in many respects render them well worthy of example; yet it is to be ardently regretted that the sons of science in classifying the signs of pregnancy have fallen into such a discrepancy of opinion but such however is the fact;

Scarcely any two coincide, and this  
contrariety of opinion or statement is no  
small embarrassment in the path  
of the uninitiated. Therefore in a con-  
sideration of the signs of pregnancy  
we shall only allude briefly to those  
indications which we consider to  
be of most frequent occurrence and  
most reliable consistently with the  
functions of the organs implicated.  
Subsequent to impregnation there are  
changes peculiarly characteristic of its  
existence. The blood is said to be  
changed in quality and quantity.  
The fibrin is increased while the  
action of the pulse is somewhat  
augmented. Sympathies are excited  
in remote as well in contiguous  
organs and the nervous system

may be affected both directly and indirectly giving rise to that irritability of mind which so often calls into requisition "the woman's weapon of defence." About this time not unfrequently the skin undergoes a change in color especially in women of the leuco-phlegmatic temperament in whom it usually becomes sallow in spots whose dimensions vary considerably. These changes are not usually considered among the diagnostic signs of Pregnancy. We now propose to notice some of special signs common -ly particularized by Abortionists. These we propose considering under two distinct heads viz; Equivocal and Unequivocal. The former including cessation

of Menstruation 2<sup>nd</sup> Morning Sickness  
3<sup>rd</sup> Mammary Sympathies 4<sup>th</sup> Abdominal  
Enlargement 5<sup>th</sup> Ducking 6<sup>th</sup> Ute-  
rine Murmur. And the latter  
1<sup>st</sup> Ballotment 2<sup>nd</sup> Palpitation of  
the foetal heart which is the most  
reliable sign enumerated. There are  
many other signs laid down by  
Authors which we think of great  
importance, and in fact only calcu-  
lated to confuse the young practitioner  
in arriving at a definite Conclusion.  
Therefore we deem their omission  
beneficial so far as practability is  
concerned; and shall rest satisfied,  
if we can but only do partial justice  
to the signs previously designated  
Omission of Menstruation — The non  
appearance of the Calamaria at the

proper period; generally leads the female to suppose that impregnation has occurred and more especially when she has enjoyed periodical recessions. Perhaps this might be estimated as one of the most unvarying, as it is one of the first results of conception; however the cessation of the catamenial discharge is not decisive, for numerous cases are recorded by high authority where the menses recurred at the regular intervals during the period of utero-gestation; and indeed, it is said by eminent physiologist that it requires the unnatural stimulus of impregnation to induce the menstrual discharge in that class of women called viragoes." If this " says Dr Churchill "menstruation may be suppressed on

the one hand and continued on the other notwithstanding Pregnancy, it is no proof of conception" But when taken in connection or combined with other signs its validity is scarcely surpassed by any other in the category.

"Morning Sickness" — The nausea and vomiting attendant about the fifth or sixth month is confirmatory of the nervous sympathy existing between the uterus and stomach and in connection with cessation of menstruation is generally considered proof of conception. But when existing alone it is certainly a sign that we cannot rely upon. The attacks of nausea and vomiting are said to occur soon after rising from a night's sleep

and cease within a bout ten or twenty minutes and it is from this fact alone that ~~Abst~~Abst ~~icians~~icians and women denominate it the "Morning Sickness." Almost innumerable instances are on record, where the nausea and vomiting for a much longer period than above stated, and indeed the vomiting may become so excessive as to jeopardize the life of the patient.- About the termination of the third month after conception it generally disappears, though it has in some cases accompanied the entire period of gestation. Authors have had considerable contest as to its value in diagnosticalizing the existence of Pregnancy. Being a mere novice in the great science of Physiology, we cannot advance a theory of our own to

explain all the various changes incident to impregnation. However we are quite confident that diseases may be effectual in producing a train of symptoms analogous to those previously alluded to, and in cases where it is utterly impossible for even conception to have taken place. Dr Ramsbotham seems to place a great estimate on vomiting as a diagnostic sign. He says "when vomiting is entirely absent uterogestation does not proceed with its usual regularity and activity." Dr Churchill endorses his statement, says that "deviations in other signs" will occur when vomiting is absent. Huston on the contrary denies these statements and says "I have known women who proceeded regularly through their

Pregnancy without experiencing the least degree of sickness." Here we have high authority in direct opposition doublets each one incorrect according to his observation and experience.

Mammary Sympathies — Here again we notice the connection existing between remote organs the Uterus and the Mammary gland. This change in mamma engaged the attention of Anatomist and physiologist for a series of years; and it was not until after the dissections of the "immortal Lee" that those whimsical speculations were entirely abandoned. The alteration in these glands are said to be perceptible about the eighth week after conception has taken place. The female experiences a

variety of peculiar sensations in the organs, which as a matter of course are difficult to describe. Authors say they are sensations of palpation, formication and tingling. I cannot as to the accuracy of such a description having never consulted a female with regard these sensations; however we know there is a determination of blood to these organs producing hardness and distention. The areola formerly of a pinkish hue, changes its color, and the breast gradually enlarges in proportion to the advancement of pregnancy. The complexion of the individual will modify the color of the areola. Its circle varies in diameter from three-fourths of an inch to one inch, and depends in

color as the period for delivery approaches. The follicles of Morgagni secrete sufficiently to moisten the lining of the female milk may be formed at quite an early stage, and is generally considered as very good evidence of the existence of pregnancy, but is not conclusive by any means.

The enlargement of the breast, the color of the areola and the secretion of milk, when taken symptoms of pregnancy must be placed among the equivocal signs; for menstruation in some females and menostruation in others will produce these identical changes; and Churchill in reference to this subject says "No single sign can be relied on in diagnosing early pregnancy; and it is only

when two or three are present occurring  
in proper sequence that we can  
feel certain." Abdominal Enlargement—  
—Conception is followed by a great  
change in the uterus and appendages.  
There seems to be a demand for  
nutritious fluid; and to supply  
it the uterus takes an a peculiar  
kind of congestion—its vessels  
convey a vast quantity of blood,  
and many which did not carry  
red blood before becomes quite  
visible. The arteries, veins, nerves and  
lymphatics all participate in the  
change and the exterior or peritoneal  
coats of the uterus present a flexiform  
appearance. The proper tissue of the  
organ becomes more vascular and  
according to Meckle the parietes

thickens from the first to the fourth month. The uterus commences its enlargement at the fundus after the reception of the ovum, and the enlargement proceeds downwards until it embraces the cervix. It is retained in the pelvis up to the fourth month; soon after however the fundus rises above the symphysis pubis and gradually ascends until it reaches the ensiform cartilage which is attained by the expiration of the eighth month. Then it descends somewhat but still increases in magnitude. From our foregoing remarks it would appear that abdominal enlargement is positive proof of conception but we must remember that other causes

not unfrequently give rise to an enlargement of the abdomen. In several instances cited by authors the female was of opinion herself that she was pregnant but after due investigation she was found to be the subject of disease and not impregnation. The uterus may be enormously distended by an accumulation of air, fluids or even hydatids; the form of the abdomen in such cases being nearly or quite the same as in pregnancy. Physicians often confound this stage of pregnancy with abdominal dropsy and treat it accordingly; where after an interval of some months the cure is spontaneous.

Quackning — This term is

applied to the first perception  
of the fetus in utero, on the  
part of the mother which most  
usually occurs about the eighteenth  
week after conception, it is  
stated by authors that these  
sensations may be experienced much  
earlier by some than others like the  
preceding signs, it is likely to assume  
many variations, and capable of causing  
no small amount of embarrassment to the  
examiner. We have no doubt that this  
sign in consideration with others  
we have noticed, is quite sufficient  
to form a correct diagnosis; but when  
character is at stake we must not  
rely on this alone; nor on any one of the  
signs of pregnancy for if we do our  
anticipations will often be disappointed.

Uterine Murmur— This term has been given to a peculiar sound heard over the uterine surface. Almost every author makes his own comparison Dr Churchill compares it to the bruit de souffle of the heart; which we think, is the most appropriate. It is stated by some writers on this subject to be limited to the situation of the placenta, while others deny the statement and declare it can be heard over any part of the uterus. According to the best writers, the period when it first becomes audible is about the sixteenth week of utero-gestation. Its value as a proof of pregnancy is manifestly doubtful, since the very same sound has been heard to proceed from fibrous tumors

in the uterus, and evades hypertrophy  
Therefore we think the term Equivocal  
is admissible. Ballotment  
Having placed the patient in the  
proper position the Examiner  
introduces his index finger into the  
vagina, and places it upon the cervix  
uteri. Then by gentle filling the  
parts above he will feel a sensation  
recede and by permitting the finger  
to remain motionless he will in a few  
moments perceive the weight of a body  
descending on the point his finger  
By operating thus the foetus is forced  
upward into the ligae amni, and in  
obedience to the laws of gravitation  
it descends. Some author remarks  
that should this body be felt it is proof  
positive of a foetus in utero; for there is

No condition or disease of this organ in which a body can be distinguished floating in the cavity. We feel assured that this is really the case. With regard to the time of practising reperfusion, authors are at variance some contend that it may be performed as early as the third month while others not earlier than the fifth month. Having no experience on this subject we are at a loss to say at what time it may be practised.

Pulsation of the foetal heart —

Not like the signs preceding this one alone is positive proof of pregnancy; and so far as we know no author has assumed a position to the contrary. The sound caused by the systole and diastole of the foetal heart are peculiar

and not likely to be mistaken for  
uterine murmur or any sound  
emitted by disease. Dr Churchill  
describes it thus "It consists of a rapid  
succession of short, regular, double  
pulsations resembling those of the  
adult heart except in force and frequen-  
cy." And our able and distinguished  
professor of Obstetrics in the  
University of Nashville - Dr Watson  
has compared it to the ticking  
of a watch placed under a pillow.  
The situation in which the  
fetal heart is heard most distinctly  
is said to be about the middle or  
inferior abdominal region more  
frequently on the left than the  
right side. With this consideration  
we close our remarks on the

Signs of Pregnancy not without  
a feeling of regret that our task  
has not been better performed;  
we know that there are other  
signs mentioned by authors. but  
for their minor importance we do  
not think they demand attention  
We will now leave this all important  
subject with earnest wishes for  
the full success of the institution  
which we hope soon to have the  
honor to represent.