

in the vagina, percussion being made on the surface of the abdomen with the other hand.

It is also necessary to introduce the sound into the uterine cavity in order to determine the condition of the uterine canal. It is desirable that beginners in performing this operation should use the speculum. After years of experience, one may be enabled readily to introduce the sound without danger into the cavity of the womb without a speculum, the finger of one hand being introduced into the vagina and placed on the cervix and the sound being carried along this as a guide. There are so many dangers, however, which present themselves in the introduction of the sound in cases of uterine tumors, that it is desirable to use the greatest care in the introduction of the sound into the canal. It should not be forced, but the way should be felt. It frequently happens that there are displacements of the uterus by reason of the pressure of the growth, whether this be solid or cystic in character. With regard to the presence of cystic growths, the information obtained by passing the sound into the uterus relates rather to the mobility of the uterus and to the fact of its being drawn up from the cavity of the pelvis or forced down into the cavity. On the one hand, we may assert with reasonable accuracy that adhesions exist if the uterus is found to be drawn up into the cavity of the pelvis and held in a fixed position; and on the other hand, we may infer that the cyst is impacted in the cavity of the pelvis, if the uterus is in a state of flexion, either antero or retro, and is immovable in its position. In fibroid growths, especially of the submucous and mural varieties the sound will give valuable information as to the seat of the fibroid tumor.

With the speculum we can ascertain the color of the mucous membrane of the vagina and the color of that covering the cervix. This is regarded as a matter of importance, as in the pregnant female the color is of a purplish hue, which is thought to be diagnostic. Another point to be ascertained with the finger in the vagina is the condition of the cervix, as to softness or hardness.

In addition to the examination by the vagina, it is sometimes desirable to make an examination by the rectum. By this means the existence of growths which cannot be readily reached in the vagina can be determined. An enema should be administered beforehand in order to unload the lower bowel.

It is also well to complete the examination by the introduction of the sound into the cavity of the bladder. With this instrument in the bladder, and the finger in the rectum, bimanual manipulation can be made which will assist in the detection of tumors occupying the pelvic cavity.

In order to illustrate the points to which I have alluded, I shall next examine the patient now upon the table. She has been prepared by the removal of all unnecessary clothing and of all constrictions

around the waist. The abdomen is exposed, and on inspection we observe that it is irregular. In the median line there is a projection, and on the right side there is another. The observance of two irregular points upon the surface gives us certain information in regard to the nature of the growth which occupies the cavity of the abdomen. It excludes certain conditions. For instance, pregnancy. In pregnancy there is a uniform enlargement of the abdomen, and the surface is not irregular as in the present instance. Inspection does not enable us to say whether these irregularities are due to pedunculated fibroid tumors or to exogenous cysts forming part of an ovarian cyst, but it does enable us to say that this is not a case of pregnancy and not a case of simple cyst.

Palpation is the next method to be employed. By making pressure with two or three of the fingers over different parts of the swelling, I can easily feel beneath the abdominal wall a hard, resisting mass which is not elastic. This would seem to indicate that the growth is solid and not cystic. Palpation elicits the same sensation over all parts of the growth. We cannot say positively from this examination that this is not a very dense multilocular cyst. You may be able, after much experience, to determine very slight shades of difference in the elasticity, which can be obtained even in cases of dense multilocular cysts. So far as I can ascertain from palpation, I am inclined to believe that we are dealing with a solid tumor and not a cyst. Not only do the fingers determine the presence of a hard, unyielding mass, but those projections which were noticed on inspection can be further outlined. Slightly to the right of the median line is a large mass which appears to be attached to the uterus by a broad pedicle. On the left is another mass, and below the tumor on the right there is a small mass which seems to be somewhat moveable. This would seem to indicate that these growths are fibroid tumors which are attached to the body of the uterus by either broad and short or narrow longer pedicles. In the former case being called sessile and in the latter pedunculated or pediculated growths.

You will observe that the brownish line reaching from the umbilicus to the pubes, which has been referred to, is present in this case.

Next, I shall practice percussion. Beginning at the ensiform cartilage, and percussing in the median line, there is, as you observe, resonance down to this point, about two and a half inches above the umbilicus. Here the sound suddenly changes into that of dulness or flatness. As I pass downward in the median line, the same flat sound is elicited below the umbilicus. As I pass on either side of the median line from the point before mentioned, the dulness is found to exist there also. The patient is next turned on the left side, and percussion performed over the right lumbar region and