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In the name of Allah

First Trimester Complications & Emergencies: Differential Diagnosis by Transvaginal Ultrasound

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Many pregnant women present at emergency department complaining from sudden vaginal bleeding or acute pelvic pain. Some of them may present with shock according to heavy bleeding, which is a life-threatening medical emergency. There are several obstetric-gynecologic problems causing emergency for pregnant women at first trimester, such as “Ectopic Pregnancy (EP)”, “Miscarriage”, “Molar Pregnancy”, “Adnexal Tortion”, etc.

Most of these complications manifest as “**vaginal bleeding**” and “**pelvic pain**”! But, accurate administration of the patient varies depending on each problem. So, certain ***differential diagnosis*** between these problems is a key for early decision making and saving mother and fetus lives.

High resolution real-time transvaginal sonography is an accurate, non-invasive, and out-patient tool that helps differentiation between causes of bleeding or pelvic pain, and helps midwives & obstetricians to evaluate mother and fetus health in these situations.

Key words: vaginal bleeding, pelvic pain, transvaginal sonography