

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



دانشگاه علوم پزشکی و خدمات بهداشتی درمانی اراک

عنوان برنامه: بررسی کیس های آنومالی رحمی

نوع برنامه: کنفرانس علمی یک روزه

دبیر علمی: خانم دکتر فیروزه احمدی

برگزار کننده: دانشگاه علوم پزشکی اراک

نام واحد مجری: مرکز آموزش مداوم دانشگاه علوم پزشکی

اراک با همکاری گروه رادیولوژی

تاریخ: ۱۴۰۱/۰۲/۲۳

Application of 3D sonography in workup of infertility

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Three-dimensional sonography is an accurate, non-invasive, and cost-effective imaging method that helps specialists to evaluate infertile women. 3D sonography is shown to be an accurate and proper tool for detection of uterine anomalies and correct differentiation between types of which. It also provides detailed knowledge about type & extent of acquired uterine lesions.

Use of 3D technique allows making “*coronal plane*” of the uterus and visualization of both external uterine contour and intrauterine cavity, so it facilitates differentiation between various types of uterine abnormalities. As a reliable, simple, out-patient and cost-effective method, 3D sonography can reduce the indications for diagnostic hysteroscopy and laparoscopy. Therefore, every specialist, particularly those working at the infertility treatment centers, needs to be expert in using 3D-sonography for diagnosis of uterine abnormalities. In this article, we discussed about the instruction of which in details and provided several unique 3D-sonograms of uterine malformations diagnosed in infertile patients referred to imaging department of Royan Institute.

Key words: 3D sonography, uterine malformations, infertility, uterine lesion