

Chairperson(s): **Sung Kyoung Moon** (*Kyung Hee University Hospital, Korea*)
Bum Sang Cho (*Chungbuk National University Hospital, Korea*)

Meta-Analysis of GU Ultrasound: Kidney and Others

Myoungseok Lee

Department of Radiology, SMG-SNU Boramae Medical Center, Korea

The field of clinical medicine has seen a significant increase in the use of ultrasound in diagnosing a wide range of diseases. Ultrasound imaging is especially useful in the detection of kidney and gynecologic abnormalities, providing a non-invasive and relatively low-cost diagnostic option for patients. However, the results of individual studies on ultrasound imaging can vary widely due to various factors such as study design, patient population, and ultrasound machine quality. This is where meta-analysis comes into play.

This lecture focuses on the usefulness of meta-analysis in combining and analyzing multiple studies on kidney ultrasound and gynecologic ultrasound. Meta-analysis is a statistical technique that combines the results of multiple studies to provide a more robust and accurate estimation of the true effect of a particular intervention or diagnostic test. By pooling data from multiple studies, meta-analysis can increase the sample size, reduce the effect of random variation, and provide more precise estimates of the effect size.

This presentation aims to summarize and introduce representative studies among meta-analysis studies conducted in the areas of renal ultrasound and gynecological ultrasound. Furthermore, it aims to enhance examiner confidence and examination quality by comparing these meta-analysis results with current treatment consensus and guidelines and recalling what should be evaluated and noted in actual ultrasound treatment.