

## Radionuclides in Nephrourology, Part 2: Pitfalls and Diagnostic Applications

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**Learning Objectives:** On successful completion of this activity, participants should be able to describe (1) the common clinical indications of suspected obstruction and renovascular hypertension; (2) the status of radionuclide renal imaging in the evaluation of the transplanted kidney and the detection of infection; and (3) potential pitfalls.

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Radionuclide renal scintigraphy provides important functional data to assist in the diagnosis and management of patients with a variety of suspected genitourinary tract problems, but the procedures are underutilized. Maximizing the utility of the available studies (as well as the perception of utility by referring physicians) requires a clear understanding of the clinical question, attention to quality control, acquisition of the essential elements necessary to produce an informed interpretation, and production of a report that presents a coherent impression based on data contained in the report and that specifically addresses the clinical question. To help achieve these goals, part 1 of this review addressed the available radiopharmaceuticals, quality control, and quantitative indices, including the measurement of absolute and relative renal function. Part 2 assumes familiarity with part 1 and focuses on the common clinical indications of suspected obstruction and renovascular hypertension; part 2 also summarizes the status of radionuclide renal imaging in the evaluation of the transplanted kidney and the detection of infection, discusses potential pitfalls, and concludes with suggestions for future research. The series of SAM questions accompanying parts 1 and 2 has been designed to reinforce and extend points made in the review. Although the primary focus is the adult patient, aspects of the review also apply to the pediatric population.

**Key Words:** diuresis renography; diuretic renography; MAG3; renal obstruction; renovascular hypertension

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**R**adionuclide renal scintigraphy provides important functional data to assist in the diagnosis and management of patients with a variety of suspected genitourinary tract problems; however, the

examination is underutilized because referring physicians may have an incomplete knowledge of the advantages and limitations of renal scintigraphy, may not know when or when not to order a study, and may fail to formulate a well-defined clinical question. Moreover, the clinical perception of the utility of renal scintigraphy can vary from institution to institution because of marked differences in scan quality despite the use of the same radiopharmaceutical, comparable equipment, and identical billing. Differences in scan quality are primarily related to differences in physician and technologist training and supervision. The nuclear medicine physician needs to make certain that the clinical question is clearly formulated, the scan is appropriate, and the imaging procedure incorporates the elements required to optimize the study and best answer the clinical question. To help address these goals, part 1 of this review focused on the available radiopharmaceuticals, patient preparation, the utility of quantitative indices, and clearance measurements. Part 2 discusses the common clinical indications of suspected obstruction and renovascular hypertension, briefly summarizes the status of radionuclide renal imaging in the evaluation of the transplanted kidney and the detection of infection, reviews potential pitfalls, and concludes with suggestions for future research. The primary focus is the adult patient, but aspects of the review also apply to the pediatric population.

### SUSPECTED OBSTRUCTION (DIURESIS RENOGRAPHY)

Obstruction to urinary outflow may lead to obstructive uropathy (dilatation of the calices, pelvis, or ureters) and obstructive nephropathy (damage to the parenchyma). The goal of intervention in patients with suspected obstruction is to preserve renal function. The kidneys of almost all patients referred for diuretic renography are either nonobstructed or partially obstructed, with partial obstruction defined as a level of resistance to outflow that, if untreated, will lead to a loss in function; complete obstruction rapidly leads to a nonfunctional kidney (*1*). The suspicion of urine outflow obstruction is usually based on clinical findings, the incidental detection of a dilated renal collecting system, or diagnosis of previous obstruction in a patient referred for follow-up. Diuresis renography is

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# Radionuclides In Nephrourology

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