



# Volume 14, Lesson 7

## Nanotechnology in Nuclear Medicine

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### INITIAL RELEASE DATE:

4/8/2009

### EXPIRES ON:

4/8/2011 – to be renewed on this date for another 3 years.

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### Objective:

Upon successful completion of this lesson, the reader should be able to:

1. Describe nanotechnology advances in medicine and its impact on applications for both therapy and diagnostic imaging.
2. Understand the requirements for designing a nanoparticle to carry a radioisotope for therapy or imaging purposes.
3. Describe the design requirements for an imaging strategy, including the appropriate label and imaging modality for the task.
4. Understand the physiologic processes that may alter the biodistribution of various labeled probes.
5. Discuss the barriers that nanotechnology must overcome for cancer treatment and detection.
6. Define the limitations of various image analysis techniques.

### Instructions:

Upon purchase of this Volume (\$150), you will have gained access to the online site where this lesson and the corresponding assessment are located at:

<http://hsc.unm.edu/pharmacy/radiopharmacyCE/>

### To receive a Statement of Credit you must:

1. Review content
2. Complete assessment, submit answers online and pass with a 70% (you will have 2 chances to pass)
3. Complete lesson evaluation

Once all requirements are met, a Statement of Credit will be available in your workspace. At any time you may "View the Certificate" and use the print command of your web browser to print the completion certificate for your records.



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