Image Acquisition and Interpretation Parameters for Planar, SPECT and PET

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The EANM Committee on Inflammation/Infection has published several guidelines with the primary aim of standardizing the methods used in Nuclear Medicine for imaging infections. This, the first guideline was to standardize the white-blood-cell (WBC) labelling procedure, followed by a guideline on PET imaging of infection/inflammation and it is about to release the fourth guideline on image acquisition, display and interpretation when using radiolabelled WBC or radiolabelled anti-granulocyte antibodies.

The content of this new guideline will be presented in this lecture and includes:
- how images must be acquired for planar scans, whole body scans and SPECT/CT scans
- how images should be displayed and processed
- how images should be interpreted to diagnose a positive or negative patient
- how to deal with doubtful cases (semi-quantitative analysis and bone marrow scan)

The content of the lecture is therefore specifically addressed to nuclear medicine technicians that have to deal everyday with acquisition and interpretation problems.

Suggested reading: