SPECT/CT Artefacts

A. Geão (Lisbon)

The association of SPECT and CT images can have a synergic effect in Nuclear Medicine imaging. Although, the use of SPECT and CT combined images must be careful, due to the several artefacts that may occur and that can diminish the accuracy of this combined technique. The identification of the artefact and its source (if related to the equipment or to patient characteristics) is very useful in order to prevent or correct the artefact or even minimize its effect on image quality.

Nuclear Medicine Technologists have an important role on the implementation of strategies that help avoid the artefact to occur or minimize its effect when they are not avoidable. This knowledge and training is very important to excel image quality.

Further reading:
2. Celler, Anna, Nuclear Medicine (SPECT and PET) in Medical Imaging, Wiley, 2009: pp 101-124