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Repeatability of Deep Learning density maps of the head

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The goal of the present study was to assess the longitudinal repeatability of a novel bone identification method, based on a convolutional deep network trained to convert LAVA-Flex and zero echo-time MRI data into pseudo-CT density maps. The consistency of the bone maps -with potential applications in attenuation correction of PET data and MR-based radiotherapy planning- was evaluated for a number of clinically realistic variations of the ideal acquisition conditions.

Primary author: DELSO, Gaspar (UniversitätsSpital Zürich)

Co-authors: Dr FERNANDEZ, Brice (GE Healthcare);   Dr WIESINGER, Florian (GE Global Research);   Dr KAUSHIK, Sandeep (GE Healthcare)

Presenter: DELSO, Gaspar (UniversitätsSpital Zürich)

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