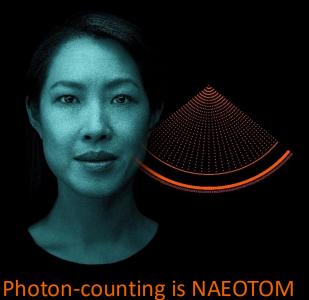
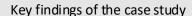
Synthetic hematocrit from virtual non-contrast images for myocardial extracellular volume evaluation with photon-counting detector CT

NAEOTOM Alpha
Publication Summary







"Myocardial ECV was computed using the synthetic hematocrit and compared with the ECV using the blood hematocrit as a reference."



"Virtual non-contrast images from cardiac late enhancement scans with photon-counting detector CT allow the calculation of a synthetic hematocrit, which enables accurate computation of myocardial extracellular volume."

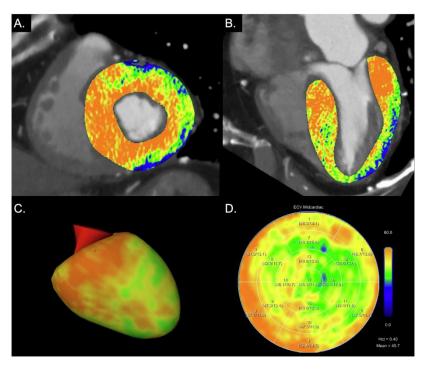
"Synthetic hematocrit derived from VNC images enables accurate computation of myocardial extracellular volume (ECV), potentially obviating the need for additional blood tests or repeat imaging, thus reducing the need for further radiation exposure."



Authors: Mergen, V., Eur Radiol. 2024

Institute: University Hospital Zurich, Switzerland https://doi.org/10.1007/s00330-024-10865-7

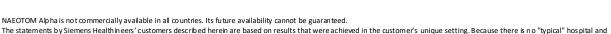
"Synthetic hematocrit calculated from VNC images enables an accurate computation of myocardial ECV with PCD-CT."



Myocardial extracellular volume (ECV) computation in an 84year-old male patient with severe aortic stenosis.

ECV: Extracellular Volume VNC: Virtual non-contrast

PCD-CT: Photon-counting detector CT



many variables exist (e.g., hospital size, samples mix, case mix, level of IT and/or automation adoption) there can be no guarantee that other customers will achieve the same results.

