From image quality to care outcome	
Helsinki – 12.6.2019	vMar-2019
HELSINKUNIVERSITY DEPARTMENT OF HYPICS HUS Medical Imaging Center	













Radiomics - method for quantification

Radiomics = field of medical study that aims to extract large amount of quantitative features from medical images using datacharacterisation algorithms.

Machine learning = type of artificial intelligence that allows software applications to become more accurate in predicting outcomes without being explicitly programmed.

 For radiologists: Chartrand G, Cheng PM, Vorontsov E, Drozdzal M, Turcotte S, Pal CJ, Kadoury S, Tang A. Deep Learning: A Primer for Radiologists. Radiographics. 2017 Nov-Dec;37(7):2113-2131.
For physicists: Sahiner B, Pezeshk A, Hadjiski LM, Wang X, Drukker K, Cha KH, Summers RM, Giger ML. Deep learning in medical imaging and radiation therapy. Med Phys. 2019 Jarv.46(1):e1-e36.





















