

Our Cardiac CT Decision Tree for PhotonCounting CT

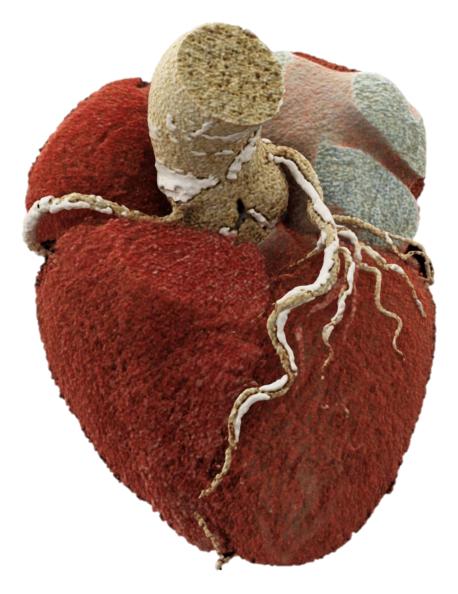
Christopher L. Schlett

for Neaotom Alpha.Peak Version Sept 2025



Benefits of PhotonCounting CT

for Cardiac-CT



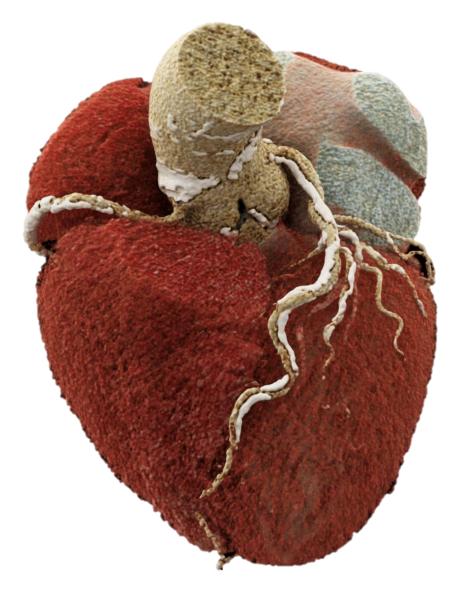
- Higher spatial resolution
- Improved contrast-to-noise ratio (CNR)
- Reduced calcium blooming
- Better stent visualization
- Multi-energy / spectral imaging
- Improved quantification
- Potential radiation dose reduction





Benefits of PhotonCounting CT

for Cardiac-CT



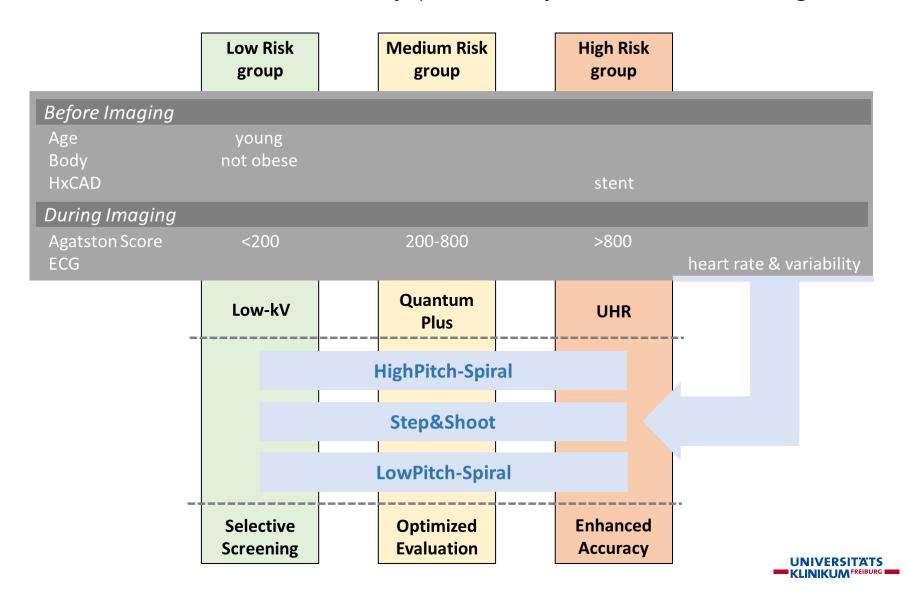
How can Photon-Counting CT be leveraged to design personalized scan protocols that guarantee the best possible diagnostic excellence for each and every patient?

→ Scanner-basedDecision Tree(myExam)



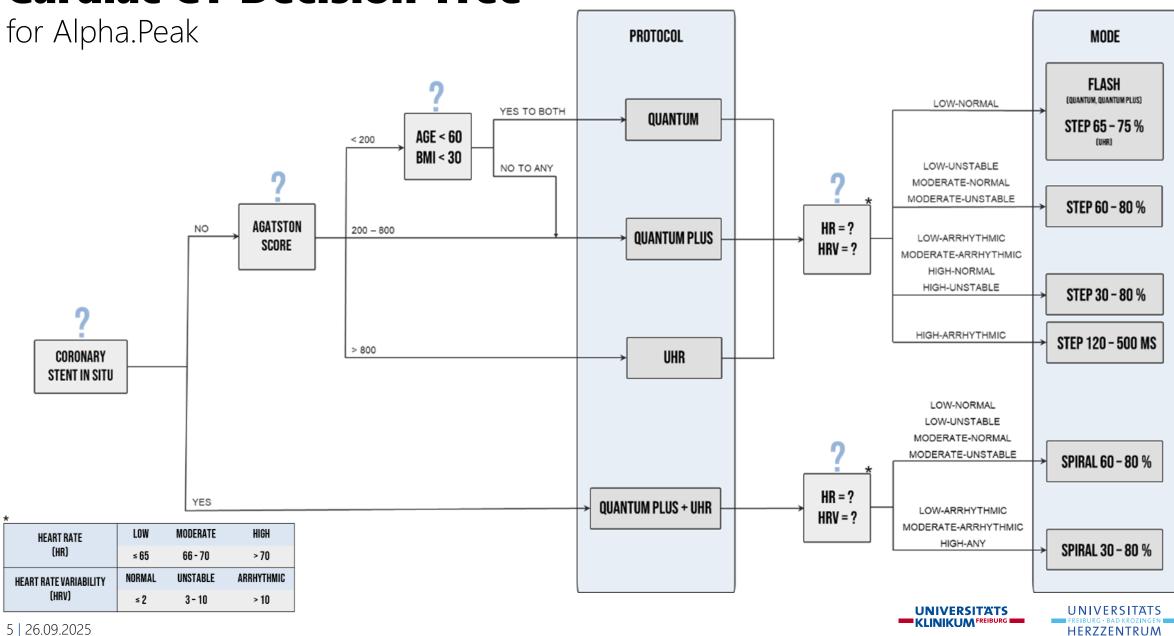
Our Approach

"Lowest risk, full dedication" – driven by probability before and during the scan

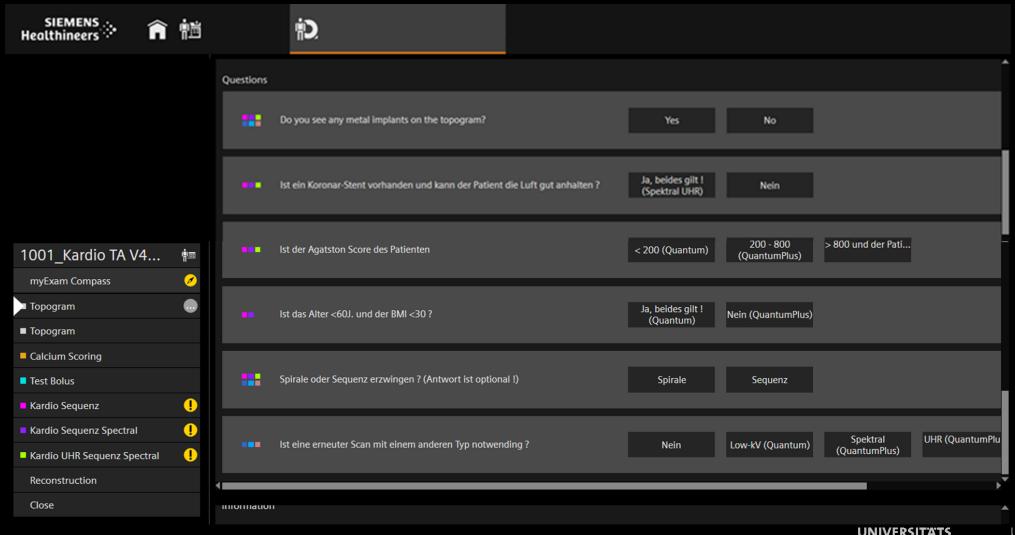


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Cardiac CT Decision Tree



myExam for the Decision Tree



Cardiac CT Decision Tree

for Alpha.Peak

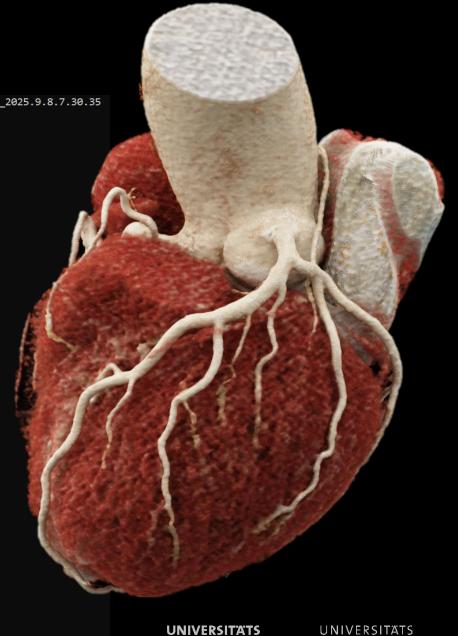
Designed based on VB10SP1, compatible with all newer versions using Naeotom Alpha.Peak, Siemens Healthineers

Version Sept 2025



Radiologie.Direktion.BK @uniklinik-freiburg.de

-CardioUKF_UHZ_EN_and_DE_VB10SP1_ExportedForArchiving_2025.9.8.7.30.35 VersionInfo.txt ClinicalDecisionTrees ClinicalDecisionTreeImportExportStorage.xml ContrastProtocols VirtualFolders.xml -1F33518F-CBBC-4DEA-9235-78E5C0235226 00000000.xml 00000000 metadata.xml 00000000 ProtocolConfig.xml 5DFA2B80-6AF1-4D05-A5A2-64D49B3271FF 00000000.xml 00000000 metadata.xml 00000000 ProtocolConfig.xml 8EB2D6DC-4D22-48F2-AB88-CD107D056878 00000000.xml 00000000 metadata.xml 00000000 ProtocolConfig.xml E11AD7AB-3FFC-45E4-906D-A9E005CCD425 00000000 metadata.xml 00000000 ProtocolConfig.xml ScanProtocols VirtualFolders.xml -13215931-EC88-4996-A0D1-E8D7A9AB1470 00000000 metadata.xml 00000000_ProtocolConfig.xml 5A87CF9-8CED-4554-B01C-D50058065410 00000000 metadata.xml 00000000 ProtocolConfig.xml



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