

Smart Protocols. Because Every Body Is Different.

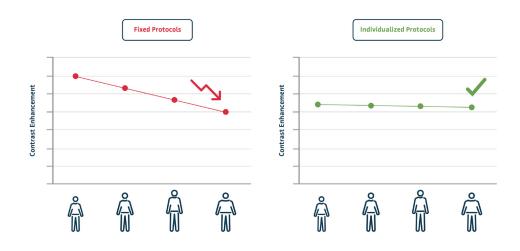
Clear Direction. > From Diagnosis to Care.



Smart Protocols. Because Every Body Is Different.

Bringing Injection Protocol Personalization to Clinical Routine

Every day, a diverse patient population presents unique imaging challenges. It is well accepted that contrast enhancement decreases with increasing patient size and that individualized protocols can lead to more consistent images.^{1,2,3,4}



However, individualizing protocols for every patient's exam has been considered impractical. Numerous factors related to the patient and to the procedure lead to complex manual calculations or look-up tables, which can take up valuable time and potentially lead to mistakes. And as scanner technology has advanced, the ability to use lower tube voltages to reduce radiation dose to patients has made protocoling even more complicated. To maintain similar levels of contrast enhancement across different tube voltages, the iodine delivery rate and iodine load should be adjusted, as well.^{5,6} All of this can be overwhelming to a radiology department already stretched thin.



Patient-centric Workflow for Individualized Care

Bayer's MEDRAD® Centargo CT injection system is now available with Workflow Solutions //Smart Protocols software, streamlining the personalization process into a few clear steps.



//Smart Protocols

(Then)	Gives You Contro	based on your own ir as you need > Review what has bee	s preferred dosing options and limits, njection protocols, for as many indications en adjusted and what limits are in effect tomatically recalculated	
	Enables Routine Personalization	patient size (weight c media concentration	 Automatically calculate flow rates and volumes based on patient size (weight or lean body weight) and contrast media concentration Apply tube voltage adjustment to account for scanner settings 	
ଔଝିଁ	Provides Added Confidence	is even selected > Verify that calculated	 > Display site-specific eGFR guidance before the protocol is even selected > Verify that calculated flow rates and pressure limit settings comply with your policies for IV access 	
check of eQ	exam-time GFR according guidance	Image: Constraint of the section of	3. Verify that the protocol settings comply with IV access policies	
With a mo worklist in Centargo into the w	ijector and Contras onsiderations for P rotocols odern, streamlined use ntegration ⁷ and built-i easily incorporates //S vorkflow. Combined w de for automatic data	ersonalized er interface, modality in barcode reader, imart Protocols ith Ultravist®'s		

eGFR = estimated glomerular filtration rate

not be simpler.

information required to personalize protocols could



Literature:

- 1. Mihl C et al. Evaluation of individually body weight adapted contrast media injection in coronary CT-angiography. Eur J Radiol. 2016;85(4):830-6. doi: https://doi.org/10.1016/j.ejrad.2015.12.031
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- 3. Hendriks BMF et al. Individually tailored contrast enhancement in CT pulmonary angiography. Br J Radiol. 2016;89(1061):20150850. doi: https://doi.org/10.1259/bjr.20150850
- 4. Seifarth H et al. Introduction of an individually optimized protocol for the injection of contrast medium for coronary CT angiography. Eur Radiol. 2009;19(10):2373-82. doi: https://doi.org/10.1007/s00330-009-1421-7
- 5. Hendriks BMF et al.Optimizing Pulmonary Embolism Computed Tomography in the Age of Individualized Medicine: A Prospective Clinical Study. Invest Radiol. 2018;53(5):306-312. doi: https://doi.org/10.1097/rli.00000000000443
- 6. Martens B et al. "A solution for homogeneous liver enhancement in computed tomography: results from the COMpLEx trial." Invest Radiol. 2020;55(10):666-672. doi: https://doi.org/10.1097/RLI.000000000000693
- 7. In conjunction with available Automated Documentation



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