3/29/2019

Henry FO

CT dose measurements in cylindrical phantoms: Where are we headed?

Donovan M. Bakalyar, Ph.D., FACR

Acknowlegements

AAPM Task	Group 200	Additional Contributors
Donovan Bakalyar	Shuai Leng	Lars Herrnsdorf
Erin Angel	Sarah McKenney	Marcus Söderberg
Kirsten Lee Boedeker	Michael McNitt-Gray	Rob Morrison
John Boone	Richard Morin	Elizabeth Nilsson
Kish Chakrabarti	J. Thomas (Tom) Payne	George W. Burkett
Huaiyu Heather Chen-Mayer	Robert Pizzutiello	Henry Ford Resident
Dianna Cody	Jeffrey Siewerdsen	lesenh D. Steiner
Robert Dixon	Keith Strauss	Joseph R. Stemer
Sue Edyvean		
		CHP
		HEALTH











Defining Article: Shope, T., R. Gagne, and G. Johnson. (1981). "A method for describing the doses delivered by transmission x-ray computed tomography." *Med Phys* 8:488–495.





















3/29/2019

Look at $L_{1/2}$									
Descrip- tion	h(600 mm) [mGy/100 mAs _{eff}]	D _{eq} [mGy/100 mAs _{eff}]	1/L _½ [mm [.] 1]	log₂(α)	L _½ [mm]	α	h(600)/D _{eq}		
Center (Philips)	21.89	22.21	0.0104	-0.0607	96.15	0.959	98.5%		
Edge (Philips)	20.98	21.16	0.0105	-0.9550	95.24	0.516	99.2%		
Inter- mediate (Philips)	22.18	22.47	0.0105	-0.1729	95.5	0.887	98.7%		
Center (Siemens)	14.7	14.89	0.0103	-0.1130	96.90	0.925	98.7%		
					\bigcirc				
							Ğ		

Measurements in air

