

**Supplemental Table 1 Pediatric CT pulmonary angiography acquisition parameters**

<b>Parameters</b>	<b>Dual-source CT</b>		<b>Single-source CT</b>
	<b>First generation</b>	<b>Second generation</b>	
<b>Tube potential (kVp)</b>	80/140	80/sn140*	80
<b>Effective tube current (mAs)</b>	213/50	89/38	100
<b>Tube current modulation</b>	Yes	Yes	Yes
<b>Collimation**</b>	64×0.6	128×0.6	64/128×0.6
<b>Pitch</b>	0.5	1.0	1.0-1.2
<b>Rotation time (s)</b>	0.33	0.28	0.5
<b>Pixel matrix</b>	512×512	512×512	512×512
<b>Section thickness (mm)</b>	0.75/0.5	0.75/0.5	0.75/0.5
<b>Energy ratio<sup>#</sup></b>	0.3	0.3	-

\*, sn indicates the tin filter which filters high-energy rays of low-energy components, that is selected photon shield (SPS) in second generation dual-source

CT

\*\* , with the z-flying focal spot technique

# , energy ratio indicates a low- and high-kilovoltage linear weighting coefficient. Linear weighting coefficient of 0.3 denotes 30% image information from low-kilovoltage series and 70% from 140-kVp series.