

FeatherLight Imaging

Technology for dose optimization

CT procedure-based protocols

Useful for:

- Patients ranging from newborns to 21 years old
- Smaller adults

At GE Healthcare, we understand the unique challenges of imaging smaller patients.

Using the principles of ALARA (As Low As Reasonably Achievable) and GE's commitment to optimizing image quality, these protocols are designed to help you use as low of a radiation dose as possible while maintaining diagnostic image quality.

Reminder to all CT technologists:

- **Use patient's weight.** If you must guess the weight, please make sure this is documented.
- **Position all patients to the iso-center of the gantry.** The AutomA settings will not be optimized if the table height is set too high or too low.

	Weight	Noise Index	Minimum mA	Maximum mA	kV	Pink Zone
Routine/ initial procedures	0-20 lbs = 0-9 kg	5	65	130	80	
	21-60 lbs = 9.1-27.2 kg	7	80	160	100	
	61-100 lbs = 27.3-45.4 kg	10	95	190	120	
	101-200 lbs = 45.5-90.7kg	12	110	220	120	
	>200 lbs = >90.8 kg	15	125	300	120	

Pink Zone: Use Pink for most routine procedures and/or initial scans. If unclear, use Pink.

	Weight	Noise Index	Minimum mA	Maximum mA	kV	Green Zone
Lower-dose or follow-up CT	0-20 lbs = 0-9 kg	7	50	100	80	
	21-60 lbs = 9.1-27.2 kg	9	60	120	100	
	61-100 lbs = 27.3-45.4 kg	11	70	140	120	
	101-200 lbs = 45.5-90.7kg	13	80	160	120	
	>200 lbs = >90.8 kg	16	90	240	120	

Green Zone: Use Green for follow-up exam orders or an additional lower dose option.

	Weight	Noise Index	Minimum mA	Maximum mA	kV	Grey Zone
CT angiography (except coronary CTA)	0-20 lbs = 0-9 kg	5	100	200	80	
	21-60 lbs = 9.1-27.2 kg	7	120	240	100	
	61-100 lbs = 27.3-45.4 kg	10	120	240	100	
	101-200 lbs = 45.5-90.7kg	12	120	240	120	
	>200 lbs = >90.8 kg	15	120	300	120	

Grey Zone: Use Grey for CT angiography (except cardiac CTA).

For a full version of the GE Healthcare procedure-based protocols, containing all technical scanning parameters, please visit our website at: www.gehealthcare.com/CT4kids/poster