

## St. David's Health Care - Imaging Medication Dose Protocol - Pediatric

Campuses of: St. David's Medical Center, South Austin Medical Center, North Austin Medical Center, St. David's Surgical Hospital,  
Round Rock Medical Center, Heart Hospital of Austin, St. David's Georgetown Hospital

*Medication dose protocols require annual review.*

Modality	Imaging Exam	Medication/Contrast Media	Strength	Route	Patient Age	Dosage
CT	all exams w/IV contrast	Isovue 250	Iopamidol 51%, 250 mg Iodine/mL	IV	all pediatric patients	1.2 mL/kg
CT	all exams w/IV contrast	Isovue 300	Iopamidol 61%, 300 mg Iodine/mL	IV	all pediatric patients	1.0 mL/kg
CT	all exams	Omnipaque 240	518 mg Iohexol/mL, 240 mg Iodine/mL	IV	all pediatric patients	2 mL/kg
CT	all exams	Omnipaque 300	647 mg Iohexol/mL, 300 mg Iodine/mL	IV	all pediatric patients	2 mL/kg
CT	all exams w/oral contrast	Omnipaque 240	518 mg Iohexol/mL, 240 mg Iodine/mL	Oral	infant to 3 yrs	2 mL/kg, diluted, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					3 yrs to 17 yrs	2 mL/kg, diluted, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
CT	all exams w/oral contrast	Omnipaque 300	647 mg Iohexol/mL, 300 mg Iodine/mL	Oral	infant to 3 yrs	2 mL/kg, diluted, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					3 yrs to 17 yrs	2 mL/kg, diluted, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
CT	all exams w/oral contrast	Omnipaque 350	755 mg Iohexol/mL, 350 mg Iodine/mL	Oral	all pediatric patients	50 mL Omnipaque diluted in 950 mL water/diluent. Patient's wt.(kg) x 25mL/kg = Total Volume of Omnipaque/diluent mixture that can be administered. Maximum patient weight for this formula is 36 kg. Diluent can be water, noncarbonated beverage, formula or milk.
CT	all exams w/oral contrast	Omnipaque (Iohexol) Oral Solution	9 mg Iodine/mL (19 mg Iohexol/mL)	Oral	all pediatric patients	Do not dilute, Patient's wt.(kg) x 25mL/kg = Total Volume of Omnipaque Oral Solution that can be administered. Maximum patient weight for this formula is 36 kg.
CT	all exams w/oral contrast	Omnipaque (Iohexol) Oral Solution	12 mg Iodine/mL (26 mg Iohexol/mL)	Oral	all pediatric patients	Do not dilute, Patient's wt.(kg) x 25mL/kg = Total Volume of Omnipaque Oral Solution that can be administered. Maximum patient weight for this formula is 36 kg.

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Modality	Imaging Exam	Medication/Contrast Media	Strength	Route	Patient Age	Dosage
MRI	all exams w/contrast	Gadavist	Gadobutrol Injection 1 mmol/mL	IV	all pediatric patients	0.1 mL/kg
MRI	all exams w/contrast	MultiHance	Gadobenate Dimeglumine Injection, 529 mg/mL	IV	infant to 2 yrs	0.2 mL/kg
					2 yrs to 17 yrs	0.2 mL/kg
MRI	all exams w/contrast	ProHance	Gadoteridol 279.3 mg/mL	IV	infant to 2 yrs	0.2 mL/kg
					2 yrs to 17 yrs	0.2 mL/kg

Modality	Imaging Exam	Medication/Contrast Media	Strength	Route	Patient Age	Dosage
NM	Renal Scan - with Lasix	Furosemide (Lasix)	40 mg/4mL	IV	all pediatric patients	1 mg/kg

Modality	Imaging Exam	Medication/Contrast Media	Strength	Route	Patient Age	Dosage
RAD	Cholangiogram,T-Tube	Isovue 300	Iopamidol 61%, 300 mg Iodine/mL	Catheter	all pediatric patients	2 mL/kg, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Cholangiogram,T-Tube	Omnipaque 300	647 mg Iohexol/mL, 300 mg Iodine/mL	Catheter	all pediatric patients	2 mL/kg, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Colon Barium Enema (Single Contrast)	Liquid Polibar Plus	105% w/v, 58% w/w	Rectal	all pediatric patients	Physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Colon Contrast Enema (Single Contrast)	Gastrografin	37% Organically Bound Iodine	Rectal	infant to less than 5 yrs	1:5 dilution of Gastrografin in water, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					5 yrs to 17 yrs	90 mL Gastrografin in 500 mL water, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Colon Contrast Enema (Single Contrast)	Omnipaque 300	647 mg Iohexol/mL, 300 mg Iodine/mL	Rectal	three months to 3 yrs	Physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					4 yrs to 10 yrs	Physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					Greater than 10 yrs	Physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.

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RAD	Esophagram/Barium Swallow (Single Contrast)	E-Z-Paque	E-Z-Paque - 96% w/w, 115% w/v	Oral	newborn to 2 yrs	75 ml maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					2 yrs to 17 yrs	150 ml maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	GI Tube Injection	E-Z-Paque	E-Z-Paque - 96% w/w, 115% w/v	Catheter	all pediatric patients	10 mL contrast followed by 10 mL NS flush, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	GI Tube Injection	Cystografin	Diatrizoate Meglumine Injection USP 30%, 141 mg Iodine/mL	Catheter	all pediatric patients	10 mL contrast followed by 10 mL NS flush, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Myelogram, Lumbar, Thoracic or Cervical	Isovue-M 200	Iopamidol Injection 41% - 408 mg Iopamidol/mL, 200 mg Iodine/mL	Intrathecal	2 yrs to 7 yrs	9 ml
					8 yrs to 12 yrs	11 ml
					13 yrs to 17 yrs	12 ml
RAD	Myelogram, Lumbar, Thoracic or Cervical	Omnipaque 180	388 mg Iohexol/mL, 180 mg Iodine/mL	Intrathecal	0 up to 3 mos.	4 mL
					3 up to 36 mos.	8 mL
					3 up to 7 yrs	10 mL
					7 up to 13 yrs	12 mL
					13 to 17 yrs	15 mL
RAD	Pyelogram w/wo Tomogram (IVP)	Isovue 300	Iopamidol 61%, 300 mg Iodine/mL	IV	all pediatric patients	1.0 mL/kg
RAD	Retrograde Cystourethrography	Cystografin	Diatrizoate Meglumine Injection USP 30%, 141 mg Iodine/mL	Catheter	all pediatric patients	300 ml maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Retrograde Cystourethrography	Cystografin-Dilute	18%, 85 mg Iodine/ml	Catheter	all pediatric patients	300 ml maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.

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RAD	Retrograde Cystourethrography	Omnipaque 300	647 mg Iohexol/mL, 300 mg Iodine/mL	Catheter	all pediatric patients	1.5 mL/kg, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Small Bowel Series (SBFT)	E-Z-Paque	E-Z-Paque - 96% w/w, 115% w/v	Oral	newborn to less than 2 yrs	75ml, reconstituted concentration, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					age 2 yrs to less than 17 yrs	480 mL maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Small Bowel Series (SBFT)	Gastrografin	37% Organically Bound Iodine	Oral	newborn to less than 2 yrs	75 mL maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					age 2 yrs to less than 17 yrs	480 ml maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Small Bowel Series (SBFT)	Omnipaque 300	647 mg Iohexol/mL, 300 mg Iodine/mL	Oral	newborn to less than 2 yrs	75 mL maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					age 2 yrs to less than 17 yrs	480 mL maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Upper GI	E-Z-HD	E-Z-HD - 98% w/w, 238% w/v	Oral	12 to 17 yrs	135 mL, (Not intended for pediatric use from birth to 11 years of age), physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Upper GI	E-Z-Paque	E-Z-Paque - 96% w/w, 115% w/v	Oral	5 yrs to 10 yrs	75 mL maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					11 to 17 yrs	150 mL maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Upper GI	Gastrografin	37% Organically Bound Iodine	Oral	less than 5 yrs	15 mL Gastrografin with 15 mL water, carbonated beverage or milk
					5 to 10 yrs	30 mL Gastrografin with 30 mL water, carbonated beverage or milk
					11 to 17 yrs	45 mL Gastrografin with 45 mL water, carbonated beverage or milk

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RAD	Upper GI	Omnipaque 300	647 mg Iohexol/mL, 300 mg Iodine/mL	Oral	three months to 3 yrs	60 mL maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					4 yrs to 10 yrs	80 mL maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
					Greater than 10 yrs	100 mL maximum, physician will monitor administration and will ensure only the sufficient amount to visualize anatomy is used.
RAD	Voiding Cystourethrogram (VCUG) Pediatric	Cystografin-Dilute	Diatrizoate Meglumine Injection USP 18%, 85 mg Iodine/mL	Catheter	all pediatric patients	300 mL maximum, administer a volume sufficient to fully distend the urinary bladder", reconstituted concentration
RAD	Voiding Cystourethrogram (VCUG) Pediatric	Omnipaque 300	647 mg Iohexol/mL, 300 mg Iodine/mL	Catheter	all pediatric patients	1.5 mL/kg, administer a volume sufficient to fully distend the urinary bladder", reconstituted concentration