



**School of Medicine
and Public Health**

UNIVERSITY OF WISCONSIN-MADISON

Contrast Guidelines

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Manufacturer:
School of Medicine and Public Health
University of Wisconsin-Madison
610 Walnut Street
Madison, WI 53726

Manufactured in USA

Contrast Mixtures, Billing and ED Guidelines

General Guidance [\[edit\]](#)

Patient with moderate or severe allergy to iodine based contrast

- Give these patients Barium Readicat, or perform the scan without oral contrast. Consult the attending radiologist for guidance.
- If the patient is going to surgery post imaging, then give them Iohexol, surgery prefers this, please consult the attending radiologist for approval.

Outpatients: Oral Contrast: Dilute (1) 20 ml cup of Iohexol 300 mgI/mL in 800 ml clear liquid, flavoring may be added but no ice or carbonation.

Administer to Outpatients:

- Abd CT: 400 mL total. 200mL every 15 minutes over thirty minutes.
- Abd/Pel CT: 800 mL total. 200mL every 15 minutes over one hour.
- Billing = All oral contrast.

Inpatients: Oral Contrast: Dilute (1) 20 ml cup of Iohexol 300 mgI/mL in 800 ml clear liquid, flavoring may be added but no ice or carbonation. Administer to Inpatients:

- Abd CT: 400 mL total. 200mL every 30 minutes over one hour.
- Abd/Pel CT: 800 mL total. 200mL every 30 minutes over two hours.
- Billing = None (Patient is billed on the floor)

Bariatric Oral

- If the patient is a bariatric post-op patient they will not drink up on the floor. Rather, they will get one 2x concentrated dose on CT table: 8mL of Iohexol in 200 mL of clear liquid. If you have questions please ask the protocolling radiologist.
- Billing = 8 ml of Iohexol

ED oral contrast guidelines: Oral contrast should be given if any of the following are present:

1. BMI < 25
2. Recent abdominal or pelvic surgery (within 3 months)
3. Known cancer
4. Suspicion for fistula or abscess
5. If can't get IV contrast per protocol (unless mesenteric ischemia)
6. CT w/o oral contrast in the last 7 days

All ED Patients (unless they can not tolerate it) receive 1000 ml GoLyteLy contrast.

- Mix ½ jug of GoLyteLy powder
- ½ jug of water

- 1 big scoop of lemonade
- 20 ml of Iohexol
- Billing = None (Patient is billed in the ED)

Protocol Specific Guidelines [\[edit\]](#)

Rectal Contrast:

- 40 mL of Iohexol diluted in 1000 mL of warm water into enema bag.

Bladder Contrast:

- 20 mL Iohexol mixed into a 500 mL bag of sterile Sodium Chloride (saline)

Oral Barium Mixture:

- Readi-Cat 2 (EZ-EM) Barium Sulfate Suspension-Ready to use!
- Billing = 2 bottles (each bottle is 450 mL)

Pediatric Oral Contrast:

These are target volumes for oral contrast. If the child is vomiting or otherwise unable to tolerate the total amount, it can obviously be decreased. For optimal interpretation of these scans, encourage the above amounts.

Hydrate ER patient if time allows

Dilute (1) 20 ml cup of Iohexol 300 mg/ml in 800 ml clear liquid, flavoring may be added but no ice or carbonation. Use the chart below to administer suggested volume per patient weight.

Age	Weight (lbs)	Total Oral Contrast Quantity
0 - 1	10 - 25	100 mLs
1 - 3	20 - 40	200 mLs
3 - 5	30 - 60	400 mLs
5 - 10	40 - 90	600 mLs
11+	over 90	800 mLs +

These are target volumes for oral contrast. If the child is vomiting or otherwise unable to tolerate the total amount, it can obviously be decreased. For optimal interpretation of these scans, encourage the above amounts.

Hydro-dissection/Artificial Ascites/D5 kit (located above sink in scanner 1):

- Mix 1 liter bag of D5 saline with 20 mLs of Iohexol.
 - Other supplies needed:
 - spinal needle (18,20 or 22g)
 - continue flow regular drip IV tubing (cysto tubing)
 - 3-way stopcock
 - 2 extension sets
 - 60mL luer lock tip syringe

Weight-Based Contrast Instructions

To convert between pounds (lbs), kilograms (kg), and or stones (st) [see the weight conversion table](#).

All injections should be followed by a 50 mL saline flush. See the "IV Contrast Parameters" section of each protocol for more details.

Contrast volume for users without the Medrad P3T Option

This table uses an injection rate of 3 mL/sec

Patient Weight (lbs)	Contrast Volume (mL) (300 mg/mL concentration)	Contrast Volume (mL) (350 mg/mL concentration)	Saline Volume (mL)
130 and less	80 (minimum amount to load)	69 (minimum amount to load)	50
140	86	74	50
150	92	79	50
160	98	84	50
165	101	87	50
170	104	89	50
175	107	92	50
180	110	94	50
190	116	99	50
200	122	105	50
210	129	111	50
220	135	116	50
230	141	121	50
240	147	126	50
250 and larger	150 (max amount to load)	129 (max amount to load)	50

Contrast volume for users without the Medrad P3T PA Option [\[edit\]](#)

This table uses iodinated contrast at 370 mg/mL concentration and an injection rate of 5 mL/sec

Patient Weight (lbs)	Contrast Volume (mL)	Saline chaser Volume (mL)
150 and less	100	50
150-200	125	50
200 and higher	150	50

This table uses iodinated contrast at 350 mg/mL concentration and an injection rate of 5 mL/sec

Patient Weight (lbs)	Contrast Volume (mL)	Saline chaser Volume (mL)
150 and less	106	50
150-200	132	50
200 and higher	159	50