

**GUNDERSEN HEALTH NUCLEAR MEDICINE
DEPARTMENT PROTOCOL MANUAL**

PROCEDURE: CYSTOGRAM

SECTION: GENITOURINARY 5.7

ORIGINAL DATE: 9 - 21 - 99

DATE REVISED: 9 - 22 - 16

REVIEWED: ANNUAL

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| Indications | Evaluation of vesicoureteral reflux |
| Contraindications | None |
| Exam time length | 45 minutes – 1 hour (It helps to have a video playing when you bring child in.) May call a child-life specialist to help as well. Jenny Noel, pg 1341, ext. 55936. |
| Patient Preparation | Patient comes to department with a Foley catheter in place. Oral versed may be given to patients greater than 2 years old. This will be determined by the ordering physician. Place a spot marker on the Rt shoulder during the beginning of the cine acquisition then remove for remainder of exam. Drain residual urine from catheter before starting. Mark Rt shoulder on post void image. |
| Radiopharmaceutical & Dose | Radiopharmaceutical: Na ^{99m} TcO ₄ -- Adult Dose : 1 mCi Pediatric: 0.5 mCi |

STATIC ACQUISITION PARAMETERS

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| Time interval between tracer injection & imaging | None |
| Collimator | LEHR |
| Patient position | Upright sitting on bedpan with back to camera. Infants lying on bed with posterior camera. Image from base of bladder and up towards head. |
| Energy | 140 keV |
| Matrix | 128 x 128 for dynamic 256 x 256 for static |
| Time /View | Posterior dynamic of filling/voiding at 15 seconds/frame for 1800 seconds or until fill/void complete. NOTE computer time for end filling & beginning of voiding. Record filling volume. Post-void static for 180 seconds |
| Images taken | Posterior dynamic of filling and voiding in one continuous acquisition. Post-void posterior image |
| Screen caps to make | Image dynamic 6 x 5, on low intensity, using as many pages as needed to capture the whole dynamic and text on 10 sec/frame. Image post-void on a 1 on 1 & text on markers on Rt Shoulder. Text filling volume of saline. |
| Send to FUJI | Screen caps |