

Iothalamate, Glomerular Filtration Rate, Plasma and Urine

Test ID: NSRC

Explanation:

Due to a nation-wide iothalamate shortage, NSRC will become non-orderable effective immediately. An alternative test, HSRC, is available using iohexol as the contrast reagent.

Another update will be provided once testing resumes.

Recommended Alternative Test:

Iohexol, Glomerular Filtration Rate, Plasma and Urine

Test ID: HSRC

Methodology:

Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS)

Reference Values:

Note: Iohexol clearance results are, on average, approximately 9% lower than iothalamate clearance results. GFR values decrease by 4.95 mL/min/decade.

Age (years)	Reference Value (mL/min/BSA)	Age (years)	Reference Value (mL/min/BSA)	Age (years)	Reference Value (mL/min/BSA)
<=19	Not established	37	78-133	55	70-124
20	87-141	38	78-132	56	69-123
21	86-140	39	77-132	57	69-123
22	86-140	40	77-131	58	68-122
23	85-139	41	76-131	59	68-122
24	85-139	42	76-130	60	67-121
25	84-138	43	75-130	61	67-121
26	84-138	44	75-129	62	66-120
27	83-137	45	74-129	63	66-120
28	83-137	46	74-128	64	65-119
29	82-136	47	73-128	65	65-119
30	81-136	48	73-127	66	65-119
31	81-136	49	72-127	67	64-118
32	81-135	50	72-126	68	64-118
33	80-135	51	72-126	69	63-117
34	80-134	52	71-125	70-150	62-116
35	79-134	53	71-125		
36	79-133	54	70-124		

Specimen Requirements:

This test requires 2 timed plasma specimens and 3 timed urine specimens.

Patient Preparation:

1. Patient must fast for at least 4 hours (diabetic patients for at least 2 hours)
2. Patient must drink four 8-oz. glasses of water within the hour preceding the test.

Supplies:

Iohexol – Short Renal Clearance Test Kit (T955)

Urine Containers (3): 10 mL urine vial

Urine Volume: 5 mL

Urine Minimum Volume: 0.5 mL

Plasma Containers (2): 5 mL plastic vial

Plasma Volume: 1 mL

Plasma Minimum Volume: 0.5 mL

Collection Instructions: Prepare and transport specimens according to the HSRC/Iohexol Glomerular Filtration Rate: Detailed Collection Instructions included in the Iohexol – Short Renal Clearance Test Kit (T955).

Specimen Stability Information:

Specimen Type	Temperature	Time
Varies	Refrigerated (preferred)	7 days
	Ambient	8 hours
	Frozen	60 days

CPT Code:

82542 x2

Day(s) Performed: Monday through Friday

Report Available: 1 to 4 days

Questions

Contact Nancy Benson Laboratory Resource Coordinator at 800-533-1710.