Erratum to: ASNC imaging guidelines for SPECT nuclear cardiology procedures: Stress, protocols, and tracers

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Please note the correction in Table 5 of the published article. Under the heading “Second Injection” and subhead “Activity (MBq),” the third row of numbers, which currently reads “888-1332,” should read “296-444”. The correct Table 5 is given here.

The online version of the original article can be found under doi:[10.1007/s12350-015-0387-x](https://doi.org/10.1007/s12350-015-0387-x).

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Table 5. Current SPECT myocardial perfusion imaging protocols: recommended radiopharmaceutical activities and their corresponding radiation effective doses

	First injection				Second injection			Total dose if Stress only (mSv)		
	Given at	Activity (mCi)	Activity (MBq)	Dose (mSv)	Given at	Activity (mCi)	Activity (MBq)			
Tc-99m protocols										
Tc-99m one-day stress-first/stress-only	Stress	8-12	296-444	2.0-3.0	(Rest)	24-36	888-1332	7.0-10.5	9.0-13.5	2.0-3.0
Tc-99m one-day rest/stress	Rest	8-12	296-444	2.3-3.5	Stress	24-36	888-1332	6.1-9.1	8.4-12.6	n/a
Tc-99m two-day stress/rest	Stress	8-12	296-444	2.0-3.0	(Rest)	8-12	296-444	2.3-3.5	4.3-6.5	2.0-3.0
Tc-99m two-day stress/rest—large patient	Stress	18-30	666-1110	4.5-7.6	(Rest)	18-30	666-1110	5.2-8.7	9.8-16.3	4.5-7.6
Tc-99m two-day rest/stress	Rest	8-12	296-444	2.3-3.5	Stress	8-12	296-444	2.0-3.0	4.3-6.5	n/a
Tc-99m two-day rest/stress large patient	Rest	18-30	666-1110	5.2-8.7	Stress	18-30	666-1110	4.5-7.6	9.8-16.3	n/a
Tl-201 protocols										
Tl-201 stress/redistribution rest	Stress	2.5-3.5	92.5-129.5	10.9-15.3	n/a	n/a	n/a	n/a	10.9-15.3	10.9-15.3
Tl-201 stress/redistribution rest/reinjection	Stress	2.5-3.5	92.5-129.5	10.9-15.3	Rest	1-2	37-74	4.4-8.8	15.3-24.1	n/a
Tl-201 rest/redistribution	Rest	2.5-3.5	92.5-129.5	10.9-15.3	n/a	n/a	n/a	n/a	10.9-15.3	n/a
Dual-isotope Tl-201 rest/Tc-99m stress	Rest	2.5-3.5	92.5-129.5	10.9-15.3	Stress	8-12	296-444	2.0-3.0	13.0-18.3	n/a
Dual-isotope Tl-201 rest/Tc-99m stress—large patient	Rest	3.0-3.5	111-129.5	13.1-15.3	Stress	18-30	666-1110	4.5-7.6	17.7-22.9	n/a
I-123 protocol										
MIBG	Rest	10	370	4.6	n/a	n/a	n/a	n/a	4.6	n/a
Newer technology reduced-dose protocols										
Tc-99m one-day stress-first/stress-only	Stress	4-6	148-222	1.0-1.5	(Rest)	12-18	444-666	3.5-5.2	4.5-6.7	1.0-1.5
Tc-99m one-day rest/stress	Rest	4-6	148-222	1.2-1.7	Stress	12-18	444-666	3.0-4.5	4.2-6.3	n/a
Tc-99m two-day stress/rest	Stress	4-6	148-222	1.0-1.5	(Rest)	4-6	148-222	1.2-1.7	2.2-3.3	1.0-1.5
Tc-99m two-day stress/rest—large patient	Stress	9-15	333-555	2.3-3.8	(Rest)	9-15	333-555	2.6-4.4	4.9-8.1	2.3-3.8
Tc-99m two-day rest/stress	Rest	4-6	148-222	1.2-1.7	Stress	4-6	148-222	1.0-1.5	2.2-3.3	n/a
Tc-99m two-day rest/stress—large patient	Rest	9-15	333-555	2.6-4.4	Stress	9-15	333-555	2.3-3.8	4.9-8.1	n/a
Tl-201 stress/redistribution rest	Stress	1.3-1.8	48.1-66.6	5.7-7.9	n/a	n/a	n/a	n/a	5.7-7.9	5.7-7.9

Table 5 continued

	First injection				Second injection				Total dose if Stress only (mSv)
	Given at	Activity (mCi)	Activity (MBq)	Dose (mSv)	Given at	Activity (mCi)	Activity (MBq)	Dose (mSv)	
Dual-isotope Tl-201 rest/Tc-99m stress	Rest	1.3-1.8	48.1-66.6	5.7-7.9	Stress	4-6	148-222	1.0-1.5	6.7-9.4
Dual-isotope Tl-201 stress/Tc-99m rest	Stress	1.3-1.8	48.1-66.6	5.7-7.9	(Rest)	4-6	148-222	1.2-1.7	6.9-9.6
									5.7-7.9

Note that 1 mCi = 37 MBq, e.g., activity of 8 to 12 mCi = 8×37 to 12×37 MBq = 296 to 444 MBq. Note >3:1 ratio of activity of the second injection to that of the first injection. For example, the range for dose #1 is 8-12 mCi, and the range for dose #2 is 24-36 mCi. (Rest) denotes optional rest injection; it is recommended that stress images be reviewed by a nuclear cardiology physician prior to rest injection, and the rest injection only performed where clinically warranted.* Newer technology reduced-dose protocols have been studied for high-efficiency cameras,** and for image reconstruction with iterative reconstruction, depth-dependent resolution recovery, and noise modeling. Radiation effective dose values listed here are dose to a reference individual. Doses were determined using the most recent published International Commission on Radiological Protection (ICRP) organ dose coefficients, and ICRP Publication 103 tissue weighting factors. Tc-99m doses represent an average for sestamibi and tetrofosmin

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