20.5.2003

Table 10-2

S, Absorbed Dose per Unit Cumulative Activity (rad/μCi·hr) for ^{99m}Tc†

Target Organs	Source Organs: *Adrenals*	*Bladder Contents*	*Intestinal Tract*: *Stomach Contents*	*SI Contents*	*ULI Contents*	*LLI Contents*	*Kidneys*	*Liver*	*Lungs*	*Other Tissue (Muscle)*
Adrenals	3.1E-03	1.5E-07	2.7E-06	1.0E-06	9.1E-07	3.6E-07	1.1E-05	4.5E-06	2.7E-06	1.4E-06
Bladder wall	1.3E-07	1.6E-04	2.7E-07	2.6E-06	2.2E-06	6.9E-06	2.8E-07	1.6E-07	3.6E-08	1.8E-06
Bone (total)	2.0E-06	9.2E-07	9.0E-07	1.3E-06	1.1E-06	1.6E-06	1.4E-06	1.1E-06	1.5E-06	9.8E-07
GI (stom. wall)	2.9E-06	2.7E-07	1.3E-04	3.7E-06	3.8E-06	1.8E-06	3.6E-06	1.9E-06	1.8E-06	1.3E-06
GI (SI)	8.3E-07	3.0E-06	2.7E-06	7.8E-05	1.7E-05	9.4E-06	2.9E-06	1.6E-06	1.9E-07	1.5E-06
GI (ULI wall)	9.3E-07	2.2E-06	3.5E-06	2.4E-05	1.3E-04	4.2E-06	2.9E-06	2.5E-06	2.2E-07	1.6E-06
GI (LLI wall)	2.2E-07	7.4E-06	1.2E-06	7.3E-06	3.2E-06	1.9E-04	7.2E-07	2.3E-07	7.1E-08	1.7E-06
Kidneys	1.1E-05	2.6E-07	3.5E-06	3.2E-06	2.8E-06	8.6E-07	1.9E-04	3.9E-06	8.4E-07	1.3E-06
Liver	4.9E-06	1.7E-07	2.0E-06	1.8E-06	2.6E-06	2.5E-07	3.9E-06	4.6E-05	2.5E-06	1.1E-06
Lungs	2.4E-06	2.4E-08	1.7E-06	2.2E-07	2.6E-07	7.9E-08	8.5E-07	2.5E-06	5.2E-05	1.3E-06
Marrow (red)	3.6E-06	2.2E-06	1.6E-06	4.3E-06	3.7E-06	5.1E-06	3.8E-06	1.6E-06	1.9E-06	2.0E-06
Other tissue (muscle)	1.4E-06	1.8E-06	1.4E-06	1.5E-06	1.5E-06	1.7E-06	1.3E-06	1.1E-06	1.3E-06	2.7E-06
Ovaries	6.1E-07	7.3E-06	5.0E-07	1.1E-05	1.2E-05	1.8E-05	1.1E-06	4.5E-07	9.4E-08	2.0E-06
Pancreas	9.0E-06	2.3E-07	1.8E-05	2.1E-06	2.3E-06	7.4E-07	6.6E-06	4.2E-06	2.6E-06	1.8E-06
Skin	5.1E-07	5.5E-07	4.4E-07	4.1E-07	4.1E-07	4.8E-07	5.3E-07	4.9E-07	5.3E-07	7.2E-07
Spleen	6.3E-06	6.6E-07	1.0E-05	1.5E-06	1.4E-06	8.0E-07	8.6E-06	9.2E-07	2.3E-06	1.4E-06
Testes	3.2E-08	4.7E-06	5.1E-08	3.1E-07	2.7E-07	1.8E-06	8.8E-08	6.2E-08	7.9E-09	1.1E-06
Thyroid	1.3E-07	2.1E-09	8.7E-08	1.5E-08	1.6E-08	5.4E-09	4.8E-08	1.5E-07	9.2E-07	1.3E-06
Uterus (nongravid)	1.1E-06	1.6E-05	7.7E-05	9.6E-06	5.4E-06	7.1E-06	9.4E-07	3.9E-07	8.2E-08	2.3E-06
Total body	2.2E-06	1.9E-06	1.9E-06	2.4E-06	2.2E-06	2.3E-06	2.2E-06	2.2E-06	2.0E-06	1.9E-06

Target Organs	Source Organs: *Ovaries*	*Pancreas*	*Skeleton*: *Red Marrow*	*Cort. Bone*	*Trab. Bone*	*Skin*	*Spleen*	*Testes*	*Thyroid*	*Total Body*
Adrenals	3.3E-07	9.1E-06	2.3E-06	1.1E-06	1.1E-06	6.8E-07	6.3E-06	3.2E-08	1.3E-07	2.3E-06
Bladder wall	7.2E-06	1.4E-07	9.9E-07	5.1E-07	5.1E-07	4.9E-07	1.2E-07	4.8E-06	2.1E-09	2.3E-06
Bone (total)	1.5E-06	1.5E-06	4.0E-06	1.2E-05	1.0E-05	9.9E-07	1.1E-06	9.2E-07	1.0E-06	2.5E-06
GI (Stom. wall)	8.1E-07	1.8E-05	9.5E-07	5.5E-07	5.5E-07	5.4E-07	1.0E-05	3.2E-08	4.5E-08	2.2E-06
GI (SI)	1.2E-05	1.8E-06	2.6E-06	7.3E-07	7.3E-07	4.5E-07	1.4E-06	3.6E-07	9.3E-09	2.5E-06
GI (ULI wall)	1.1E-05	2.1E-06	2.1E-06	6.9E-07	6.9E-07	4.6E-07	1.4E-06	3.1E-07	1.1E-08	2.4E-06
GI (LLI wall)	1.5E-05	5.7E-07	2.9E-06	1.0E-06	1.0E-07	4.8E-07	6.1E-07	2.7E-06	4.3E-09	2.3E-06
Kidneys	9.2E-07	6.6E-06	2.2E-06	8.2E-07	8.2E-07	5.7E-07	9.1E-06	4.0E-08	3.4E-08	2.2E-06
Liver	5.4E-07	4.4E-06	9.2E-07	6.6E-07	6.6E-07	5.3E-07	9.8E-07	3.1E-08	9.3E-08	2.2E-06
Lungs	6.0E-08	2.5E-06	1.2E-06	9.4E-07	9.4E-07	5.8E-07	2.3E-06	6.6E-09	9.4E-07	2.0E-06
Marrow (red)	5.5E-06	2.8E-06	3.1E-05	4.1E-06	9.1E-06	9.5E-07	1.7E-06	7.3E-07	1.1E-06	2.9E-06
Other tissue (muscle)	2.0E-06	1.8E-06	1.2E-06	9.8E-07	9.8E-07	7.2E-07	1.4E-06	1.1E-06	1.3E-06	1.9E-06
Ovaries	4.2E-03	4.1E-07	3.2E-06	7.1E-07	7.1E-07	3.8E-07	4.0E-07	0.0	4.9E-09	2.4E-06
Pancreas	5.0E-07	5.8E-04	1.7E-06	8.5E-07	8.5E-07	4.4E-07	1.9E-05	5.5E-08	7.2E-08	2.4E-06
Skin	4.1E-07	4.0E-07	5.9E-07	6.5E-07	6.5E-07	1.6E-05	4.7E-07	1.4E-06	7.3E-07	1.3E-06
Spleen	4.9E-07	1.9E-05	9.2E-07	5.8E-07	5.8E-07	5.4E-07	3.3E-04	1.7E-08	1.1E-07	2.2E-06
Testes	0.0	5.5E-08	4.5E-07	6.4E-07	6.4E-07	9.1E-07	4.8E-08	1.4E-03	5.0E-10	1.7E-06
Thyroid	4.9E-09	1.2E-07	6.8E-07	7.9E-07	7.9E-07	6.9E-07	8.7E-08	5.0E-10	2.3E-03	1.5E-06
Uterus (nongravid)	2.1E-05	5.3E-07	2.2E-06	5.7E-07	5.7E-07	4.0E-07	4.0E-07	0.0	4.6E-09	2.6E-06
Total body	2.6E-06	2.6E-06	2.2E-06	2.0E-06	2.0E-06	1.3E-06	2.2E-06	1.9E-06	1.8E-06	2.0E-06

Adapted from ref. 2, with permission.

†The notation "E-03" means "$\times 10^{-3}$", etc.

Table 10-3
S, Absorbed Dose per Unit Cumulative Activity (rad/μCi·hr) for ^{131}I†

Target Organs	Source Organs: *Adrenals*	*Bladder Contents*	*Intestinal Tract*: *Stomach Contents*	*SI Contents*	*ULI Contents*	*LLI Contents*	*Kidneys*	*Liver*	*Lungs*	*Other Tissue (Muscle)*
Adrenals	3.1E-02	6.1E-07	6.3E-06	3.9E-06	2.7E-06	1.4E-06	3.2E-05	1.4E-05	6.9E-06	4.2E-06
Bladder wall	3.3E-07	1.2E-03	1.0E-06	8.5E-06	5.6E-06	1.7E-05	1.0E-06	7.4E-07	1.8E-07	5.0E-06
Bone (total)	4.1E-06	1.8E-06	1.8E-06	2.5E-06	2.2E-06	3.2E-06	3.0E-06	2.3E-06	3.0E-06	3.0E-06
GI (Stom. wall)	8.2E-06	8.8E-07	9.7E-04	9.9E-06	1.0E-05	5.0E-06	9.4E-06	5.4E-06	5.2E-06	3.9E-06
GI (SI)	2.6E-06	7.6E-06	7.3E-06	6.0E-04	4.6E-05	2.6E-05	7.8E-06	4.6E-06	6.9E-07	4.4E-06
GI (ULI wall)	2.8E-06	6.6E-06	9.5E-06	6.5E-05	1.1E-03	1.2E-05	8.1E-06	7.0E-06	9.1E-07	4.6E-06
GI (LLI wall)	8.4E-07	2.0E-05	3.6E-06	1.9E-05	8.4E-06	1.7E-03	2.4E-06	8.1E-07	2.6E-07	4.8E-06
Kidneys	3.2E-05	9.6E-07	9.5E-06	8.7E-06	7.7E-06	2.5E-06	1.5E-03	1.1E-05	2.7E-06	4.0E-06
Liver	1.4E-05	7.2E-07	5.6E-06	5.1E-06	7.1E-06	9.0E-07	1.1E-05	3.0E-04	6.8E-06	3.1E-06
Lungs	6.7E-06	1.1E-07	5.0E-06	8.5E-07	8.9E-07	2.8E-07	2.5E-06	6.8E-06	4.5E-04	3.7E-06
Marrow (red)	7.5E-06	4.1E-06	3.2E-06	7.9E-06	6.9E-06	9.7E-06	7.6E-06	3.3E-06	3.8E-06	4.1E-06
Other tissue (muscle)	4.2E-06	5.0E-06	3.9E-06	4.4E-06	4.1E-06	4.8E-06	4.0E-06	3.1E-06	3.7E-06	1.9E-05
Ovaries	1.6E-06	1.9E-05	1.4E-06	2.7E-05	3.4E-05	5.0E-05	3.4E-06	9.6E-07	4.0E-07	5.6E-06
Pancreas	2.4E-05	7.9E-07	5.0E-05	5.8E-06	5.8E-06	2.0E-06	1.8E-05	1.2E-05	7.5E-06	5.0E-06
Skin	1.8E-06	1.7E-06	1.5E-06	1.4E-06	1.4E-06	1.6E-06	1.8E-06	1.6E-06	1.8E-06	2.4E-06
Spleen	1.8E-05	5.6E-07	2.7E-05	4.4E-06	3.7E-06	2.5E-06	2.4E-05	2.7E-06	6.2E-06	4.1E-06
Testes	1.7E-07	1.4E-05	1.3E-07	1.0E-06	1.2E-06	5.7E-06	3.9E-07	3.0E-07	5.7E-08	3.4E-06
Thyroid	5.2E-07	2.1E-08	3.9E-07	9.5E-08	1.0E-07	4.1E-08	2.4E-07	5.7E-07	3.0E-06	3.8E-06
Uterus (nongravid)	3.4E-06	4.3E-05	2.4E-06	2.5E-05	1.3E-05	1.7E-05	2.6E-06	1.2E-06	2.7E-07	5.9E-06
Total body	1.1E-05	5.9E-06	6.7E-06	1.0E-05	8.2E-06	8.8E-06	1.1E-05	1.1E-05	9.9E-06	9.8E-06

Target Organs	Source Organs: *Ovaries*	*Pancreas*	*Skeleton*: *Red Marrow*	*Cort. Bone*	*Trab. Bone*	*Skin*	*Spleen*	*Testes*	*Thyroid*	*Total Body*
Adrenals	1.4E-06	2.3E-05	6.1E-06	4.3E-06	4.3E-06	2.1E-06	1.8E-05	1.7E-07	5.2E-07	1.2E-05
Bladder wall	1.9E-05	5.0E-07	2.1E-06	1.6E-06	1.6E-06	1.7E-06	4.5E-07	1.4E-05	2.1E-08	1.1E-05
Bone (total)	2.9E-06	2.8E-06	2.5E-05	9.2E-05	6.5E-05	2.4E-06	2.3E-06	2.0E-06	2.2E-06	1.0E-05
GI (Stom. wall)	2.3E-06	5.0E-05	2.9E-06	1.6E-06	1.6E-06	1.7E-06	2.7E-05	2.5E-07	2.6E-07	1.1E-05
GI (SI)	3.3E-05	5.1E-06	7.4E-06	2.2E-06	2.2E-06	1.5E-06	3.9E-06	1.4E-06	3.4E-08	1.1E-05
GI (ULI wall)	3.1E-05	6.1E-06	5.8E-06	2.0E-06	2.0E-06	1.5E-06	3.7E-06	9.7E-07	3.5E-08	1.1E-05
GI (LLI wall)	4.0E-05	1.5E-06	8.4E-06	2.8E-06	2.8E-06	1.6E-06	1.9E-06	7.8E-06	3.4E-08	1.1E-05
Kidneys	3.0E-06	1.8E-05	6.5E-06	2.6E-06	2.6E-06	2.0E-06	2.4E-05	2.4E-07	1.4E-07	1.1E-05
Liver	1.7E-06	1.2E-05	2.8E-06	1.9E-06	1.9E-06	1.8E-06	3.0E-06	1.4E-07	4.0E-07	1.1E-05
Lungs	2.7E-07	6.8E-06	3.4E-06	2.8E-06	2.8E-06	1.9E-06	6.2E-06	4.0E-08	2.9E-06	1.0E-05
Marrow (red)	9.8E-06	5.4E-06	2.3E-04	1.0E-05	1.0E-04	2.3E-06	3.5E-06	1.6E-06	2.4E-06	1.1E-05
Other tissue (muscle)	5.6E-06	5.0E-06	3.6E-06	3.0E-06	3.0E-06	2.4E-06	4.1E-06	3.4E-06	3.8E-06	9.8E-06
Ovaries	3.9E-02	1.1E-06	8.4E-06	2.6E-06	2.6E-06	1.1E-06	2.4E-06	0.0	4.1E-08	1.1E-05
Pancreas	1.5E-06	4.7E-03	4.6E-06	2.8E-06	2.8E-06	1.6E-06	5.4E-05	1.6E-07	2.4E-07	1.1E-05
Skin	1.4E-06	1.4E-06	2.0E-06	2.3E-06	2.3E-06	1.6E-04	1.6E-06	4.3E-06	2.4E-06	8.3E-06
Spleen	1.8E-06	5.4E-05	2.4E-06	2.2E-06	2.2E-06	1.8E-06	2.6E-03	2.3E-07	3.6E-07	1.1E-05
Testes	0.0	2.0E-07	1.1E-06	1.7E-06	1.7E-06	2.6E-06	2.4E-07	1.3E-02	7.2E-09	1.0E-05
Thyroid	4.1E-08	4.7E-07	2.3E-06	2.8E-06	2.8E-06	2.3E-06	3.8E-07	7.2E-09	2.2E-02	9.7E-06
Uterus (nongravid)	5.4E-05	1.8E-06	5.8E-06	1.7E-06	1.7E-06	1.4E-06	1.2E-06	0.0	3.8E-08	1.1E-05
Total body	1.2E-05	1.1E-05	1.0E-05	9.9E-06	9.9E-06	8.3E-06	1.1E-05	9.8E-06	9.5E-06	9.9E-06

Adapted from ref. 2, with permission.
†The notation "E-03" means "$\times 10^{-3}$", etc.