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Technical Information Bulletin: IMBA Organ and IREP Model Selection by ICD-9 Code	Controlled Copy No.: Page 1 of 24
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RECORD OF ISSUE/REVISIONS

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Draft	10/15/2003	00-A	ORAU technical information bulletin to clarify IMBA organ and IREP model selection. Initiated by Elizabeth Brackett.
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11/03/2003	11/03/2003	00	First approved issue. Initiated by Elizabeth Brackett.

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IMBA Organ and IREP Model Selection by ICD-9 Code

1.0 Purpose

This Technical Information Bulletin provides guidance on selecting appropriate ICRP modeled organs/tissues in the Integrated Modules for Bioassay Analysis (IMBA) software program to estimate the internal dose for specific ICD-9 codes and the appropriate model in the Interactive RadioEpidemiological Program (IREP).

2.0 Background

Under EEOICPA, the organs/tissues for which doses must be estimated are those delineated by the specified ICD-9 code received from the Department of Labor (DOL). While many ICD-9 codes are clear in their intended organ/tissue, additional guidance is necessary to identify the appropriate IMBA and IREP model to use for the organ/tissue. This TIB designates the appropriate organ/tissue selection within IMBA to use for the various ICD-9 coded cancers, and the appropriate IREP model to use as well.

3.0 Guidance

The following table correlates ICD-9 codes to the appropriate organ/tissue selection in IMBA and the appropriate IREP model. Organs/tissues labeled "Highest non-met organ/tissue" indicate that dose to the highest non-metabolic organ is to be used to represent the dose to the ICD-9 Code designated organ/tissue. A discussion of this term is included in section 4.0 of this bulletin. The remaining regions are described by the term used in IMBA.

Table 1

T GDIC 1			
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
140	MALIGANT NEOPLASM LIP		
140.0	MALIG NEO UPPER VERMILION	Highest non-met organ/tissue	Oral Cav and pharynx
140.1	MALIG NEO LOWER VERMILION	Highest non-met organ/tissue	Oral Cav and pharynx
140.3	MALIG NEO UPPER LIP, INNER	Highest non-met organ/tissue	Oral Cav and pharynx
140.4	MALIG NEO LOWER LIP, INNER	Highest non-met organ/tissue	Oral Cav and pharynx
140.5	MALIG NEO LIP, INNER NOS	Highest non-met organ/tissue	Oral Cav and pharynx
140.6	MALIG NEO LIP, COMMISSURE	Highest non-met organ/tissue	Oral Cav and pharynx
140.8	MALIG NEO LIP NEC	Highest non-met organ/tissue	Oral Cav and pharynx
140.9	MALIG NEO LIP/VERMIL NOS	Highest non-met organ/tissue	Oral Cav and pharynx
141	MALIG NEO TONGUE		
141.0	MALIG NEO TONGUE BASE	Highest non-met organ/tissue	Oral Cav and pharynx
141.1	MALIG NEO DORSAL TONGUE	Highest non-met organ/tissue	Oral Cav and pharynx
141.2	MALIG NEO TIP/LAT TONGUE	Highest non-met organ/tissue	Oral Cav and pharynx
141.3	MALIG NEO VENTRAL TONGUE	Highest non-met organ/tissue	Oral Cav and pharynx
141.4	MALIG NEO ANT 2/3 TONGUE	Highest non-met organ/tissue	Oral Cav and pharynx
141.5	MALIG NEO TONGUE JUNCTION	Highest non-met organ/tissue	Oral Cav and pharynx
141.6	MALIG NEO LINGUAL TONSIL	LNET	Oral Cav and pharynx
141.8	MALIG NEO TONGUE NEC	Highest non-met organ/tissue	Oral Cav and pharynx
141.9	MALIG NEO TONGUE NOS	Highest non-met organ/tissue	Oral Cav and pharynx

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I able 1	(cont)		
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
142	MALIG NEO MAJOR SALIVARY		
142.0	MALIG NEO PAROTID	Highest non-met organ/tissue	Oral Cav and pharynx
142.1	MALIG NEO SUBMANDIBULAR	Highest non-met organ/tissue	Oral Cav and pharynx
142.2	MALIG NEO SUBLINGUAL	Highest non-met organ/tissue	Oral Cav and pharynx
142.8	MALIG NEO MAJ SALIVARY NEC	Highest non-met organ/tissue	Oral Cav and pharynx
142.9	MALIG NEO SALIVARY NOS	Highest non-met organ/tissue	Oral Cav and pharynx
143	MALIGNANT NEOPLASM GUM		
143.0	MALIG NEO UPPER GUM	Highest non-met organ/tissue	Oral Cav and pharynx
143.1	MALIG NEO LOWER GUM	Highest non-met organ/tissue	Oral Cav and pharynx
143.8	MALIG NEO GUM NEC	Highest non-met organ/tissue	Oral Cav and pharynx
143.9	MALIG NEO GUM NOS	Highest non-met organ/tissue	Oral Cav and pharynx
144	MALIG NEO MOUTH FLOOR		
144.0	MALIG NEO ANT FLOOR MOUTH	Highest non-met organ/tissue	Oral Cav and pharynx
144.1	MALIG NEO LAT FLOOR MOUTH	Highest non-met organ/tissue	Oral Cav and pharynx
144.8	MALIG NEO MOUTH FLOOR NEC	Highest non-met organ/tissue	Oral Cav and pharynx
144.9	MALIG NEO MOUTH FLOOR NOS	Highest non-met organ/tissue	Oral Cav and pharynx
145	MALIG NEO MOUTH NEC/NOS	-	
145.0	MALIG NEO CHEEK MUCOSA	Highest non-met organ/tissue	Oral Cav and pharynx
145.1	MALIG NEO MOUTH VESTIBULE	Highest non-met organ/tissue	Oral Cav and pharynx
145.2	MALIG NEO HARD PALATE	Highest non-met organ/tissue	Oral Cav and pharynx
145.3	MALIG NEO SOFT PALATE	Highest non-met organ/tissue	Oral Cav and pharynx
145.4	MALIG NEO UVULA	Highest non-met organ/tissue	Oral Cav and pharynx
145.5	MALIG NEO PALATE NOS	Highest non-met organ/tissue	Oral Cav and pharynx
145.6	MALIG NEO RETROMOLAR	Highest non-met organ/tissue	Oral Cav and pharynx
145.8	MALIG NEO MOUTH NEC	Highest non-met organ/tissue	Oral Cav and pharynx
145.9	MALIG NEO MOUTH NOS	Highest non-met organ/tissue	Oral Cav and pharynx
146	MALIG NEO OROPHARYNX	-	
146.0	MALIG NEO TONSIL	LNET	Oral Cav and pharynx
146.1	MALIG NEO TONSILLAR FOSSA	LNET	Oral Cav and pharynx
146.2	MALIG NEO TONSIL PILLARS	LNET	Oral Cav and pharynx
146.3	MALIG NEO VALLECULA	ET2	Oral Cav and pharynx
146.4	MALIG NEO ANT EPIGLOTTIS	ET2	Oral Cav and pharynx
146.5	MALIG NEO EPIGLOTTIS JUNCT	ET2	Oral Cav and pharynx
146.6	MALIG NEO LAT OROPHARYNX	ET2	Oral Cav and pharynx
146.7	MALIG NEO POST OROPHARYNX	ET2	Oral Cav and pharynx
146.8	MALIG NEO OROPHARYNX NEC	ET2	Oral Cav and pharynx
146.9	MALIG NEO OROPHARYNX NOS	ET2	Oral Cav and pharynx
147	MALIG NEO NASOPHARYNX		
147.0	MALIG NEO SUPER NASOPHARYN	ET2	Oral Cav and pharynx
147.1	MALIG NEO POST NASOPHARYNX	ET2	Oral Cav and pharynx
147.2	MALIG NEO LAT NASOPHARYNX	ET2	Oral Cav and pharynx
147.3	MALIG NEO ANT NASOPHARYNX	ET2	Oral Cav and pharynx
147.8	MALIG NEO NASOPHARYNX NEC	ET2	Oral Cav and pharynx
147.9	MALIG NEO NASOPHARYNX NOS	ET2	Oral Cav and pharynx

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Table 1	(cont)		
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
148	MALIG NEO HYPOPHARYNX		
148.0	MALIG NEO POSTCRICOID	ET2	Oral Cav and pharynx
148.1	MALIG NEO PYRIFORM SINUS	ET2	Oral Cav and pharynx
148.2	MALIG NEO ARYEPIGLOTT FOLD	ET2	Oral Cav and pharynx
148.3	MALIG NEO POST HYPOPHARYNX	ET2	Oral Cav and pharynx
148.8	MALIG NEO HYPOPHARYNX NEC	ET2	Oral Cav and pharynx
148.9	MALIG NEO HYPOPHARYNX NOS	ET2	Oral Cav and pharynx
149	OTHER MALIG OROPHARYNX		
149.0	MALIG NEO PHARYNX NOS	ET2	Oral Cav and pharynx
149.1	MALIG NEO WALDEYER'S RING	LNET	Oral Cav and pharynx
149.8	MALIG NEO ORAL/PHARYNX NEC	ET2	Oral Cav and pharynx
149.9	MALIG NEO OROPHRYN ILL-DEF	ET2	Oral Cav and pharynx
150	MALIG NEO ESOPHAGUS		
150.0	MALIG NEO CERVICAL ESOPHAG	Esophagus	Esophagus
150.1	MALIG NEO THORACIC ESOPHAG	Esophagus	Esophagus
150.2	MALIG NEO ABDOMIN ESOPHAG	Esophagus	Esophagus
150.3	MALIG NEO UPPER 3RD ESOPH	Esophagus	Esophagus
150.4	MALIG NEO MIDDLE 3RD ESOPH	Esophagus	Esophagus
150.5	MALIG NEO LOWER 3RD ESOPH	Esophagus	Esophagus
150.8	MALIG NEO ESOPHAGUS NEC	Esophagus	Esophagus
150.9	MALIG NEO ESOPHAGUS NOS	Esophagus	Esophagus
151	MALIGNANT NEO STOMACH		
151.0	MALIG NEO STOMACH CARDIA	Stomach	Stomach
151.1	MALIG NEO PYLORUS	Stomach	Stomach
151.2	MALIG NEO PYLORIC ANTRUM	Stomach	Stomach
151.3	MALIG NEO STOMACH FUNDUS	Stomach	Stomach
151.4	MALIG NEO STOMACH BODY	Stomach	Stomach
151.5	MALIG NEO STOM LESSER CURV	Stomach	Stomach
151.6	MALIG NEO STOM GREAT CURV	Stomach	Stomach
151.8	MALIG NEO STOMACH NEC	Stomach	Stomach
151.9	MALIG NEO STOMACH NOS	Stomach	Stomach
152	MALIG NEO SMALL BOWEL	Ctomach	Otomaon
152.0	MALIG NEO DUODENUM	SI	All digestive
152.1	MALIG NEO JEJUNUM	SI	All digestive
152.2	MALIG NEO ILEUM	SI	All digestive
152.3	MALIG NEO MECKEL'S DIVERT	SI	All digestive
152.8	MALIG NEO SMALL BOWEL NEC	SI	All digestive
152.9	MALIG NEO SMALL BOWEL NOS	SI	All digestive
153	MALIGNANT NEOPLASM COLON	<u>.</u>	7 iii digootivo
153.0	MALIG NEO HEPATIC FLEXURE	ULI	Colon
153.1	MALIG NEO TRANSVERSE COLON	ULI	Colon
153.2	MALIG NEO DESCEND COLON	LLI	Colon
153.2	MALIG NEO SIGMOID COLON	LLI	Colon
153.4	MALIG NEO CECUM	ULI	Colon
153.4	MALIG NEO CECOM MALIG NEO APPENDIX	ULI	Colon
153.5	MALIG NEO AFFENDIA MALIG NEO ASCEND COLON	ULI	Colon
153.7	MALIG NEO ASCEND COLON MALIG NEO SPLENIC FLEXURE	LLI	Colon
153.7	MALIG NEO SPLENIC PLEXORE MALIG NEO COLON NEC	Colon	Colon
153.9	MALIG NEO COLON NOS	Colon	Colon

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Table 1	(cont)		
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
154	MALIG NEO RECTUM/ANUS		
154.0	MALIG NEO RECTOSIGMOID JCT	LLI	Rectum
154.1	MALIG NEO RECTUM	LLI	Rectum
154.2	MALIG NEO ANAL CANAL	LLI	Rectum
154.3	MALIG NEO ANUS NOS	LLI	Rectum
154.8	MALIG NEO RECTUM/ANUS NEC	LLI	Rectum
155	MALIGNANT NEOPLASM LIVER		
155.0	MALIG NEO LIVER, PRIMARY	Liver	Liver
155.1	MALIG NEO INTRAHEPAT DUCTS	Gallbladder	Gallbladder
155.2	MALIG NEO LIVER NOS	Liver	Liver
156	MALIG NEO GB/EXTRAHEPATIC		
156.0	MALIG NEO GALLBLADDER	Gallbladder	Gallbladder
156.1	MALIG NEO EXTRAHEPAT DUCTS	Gallbladder	Gallbladder
156.2	MALIG NEO AMPULLA VATER	Gallbladder	Gallbladder
156.8	MALIG NEO BILIARY NEC	Gallbladder	Gallbladder
156.9	MALIG NEO BILIARY NOS	Gallbladder	Gallbladder
157	MALIGNANT NEO PANCREAS		
157.0	MALIG NEO PANCREAS HEAD	Pancreas	Pancreas
157.1	MALIG NEO PANCREAS BODY	Pancreas	Pancreas
157.2	MALIG NEO PANCREAS TAIL	Pancreas	Pancreas
157.3	MALIG NEO PANCREATIC DUCT	Pancreas	Pancreas
157.4	MALIG NEO ISLET LANGERHANS	Pancreas	Pancreas
157.8	MALIG NEO PANCREAS NEC	Pancreas	Pancreas
157.9	MALIG NEO PANCREAS NOS	Pancreas	Pancreas
158	MALIG NEO PERITONEUM		
158.0	MALIG NEO RETROPERITONEUM	Highest non-met organ/tissue	All digestive
158.8	MALIG NEO PERITONEUM NEC	Highest non-met organ/tissue	All digestive
158.9	MALIG NEO PERITONEUM NOS	Highest non-met organ/tissue	All digestive
159	OTHER MALIG NEO GI/PERITON		
159.0	MALIG NEO INTESTINE NOS	Colon	All digestive
159.1	MALIG NEO SPLEEN NEC	Spleen	All digestive
159.8	MALIG NEO GI/INTRA-ABD NEC	Highest non-met organ/tissue	All digestive
159.9	MALIG NEO GI TRACT ILL-DEF	Highest non-met organ/tissue	All digestive
160	MALIG NEO NASAL CAV/SINUS		
160.0	MALIG NEO NASAL CAVITIES	ET1	Other respiratory
160.1	MALIG NEO MIDDLE EAR	Highest non-met organ/tissue	Other respiratory
160.2	MALIG NEO MAXILLARY SINUS	Highest non-met organ/tissue	Other respiratory
160.3	MALIG NEO ETHMOIDAL SINUS	Highest non-met organ/tissue	Other respiratory
160.4	MALIG NEO FRONTAL SINUS	Highest non-met organ/tissue	Other respiratory
160.5	MALIG NEO SPHENOID SINUS	Highest non-met organ/tissue	Other respiratory
160.8	MALIG NEO ACCESS SINUS NEC	Highest non-met organ/tissue	Other respiratory
160.9	MALIG NEO ACCESS SINUS NOS	Highest non-met organ/tissue	Other respiratory
161	MALIGNANT NEO LARYNX		
161.0	MALIG NEO GLOTTIS	ET2	Other respiratory
161.1	MALIG NEO SUPRAGLOTTIS	ET2	Other respiratory
161.2	MALIG NEO SUBGLOTTIS	ET2	Other respiratory
161.3	MALIG NEO CARTILAGE LARYNX	ET2	Other respiratory
161.8	MALIG NEO LARYNX NEC	ET2	Other respiratory
161.9	MALIG NEO LARYNX NOS	ET2	Other respiratory

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	i (cont)		
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
162	MALIG NEO TRACHEA/LUNG		
162.0	MALIG NEO TRACHEA	Lung	Lung
162.2	MALIG NEO MAIN BRONCHUS	Lung	Lung
162.3	MALIG NEO UPPER LOBE LUNG	Lung	Lung
162.4	MALIG NEO MIDDLE LOBE LUNG	Lung	Lung
162.5	MALIG NEO LOWER LOBE LUNG	Lung	Lung
162.8	MALIG NEO BRONCH/LUNG NEC	Lung	Lung
162.9	MALIG NEO BRONCH/LUNG NOS	Lung	Lung
163	MALIGNANT NEOPL PLEURA		
163.0	MALIG NEO PARIETAL PLEURA	Highest non-met organ/tissue	Other respiratory
163.1	MALIG NEO VISCERAL PLEURA	Highest non-met organ/tissue	Other respiratory
163.8	MALIG NEO PLEURA NEC	Highest non-met organ/tissue	Other respiratory
163.9	MALIG NEO PLEURA NOS	Highest non-met organ/tissue	Other respiratory
164	MALIG NEO THYMUS/MEDIASTIN		1 ,
164.0	MALIG NEO THYMUS	Thymus	Other respiratory
164.1	MALIG NEO HEART	Heart Wall	Other respiratory
164.2	MALIG NEO ANT MEDIASTINUM	Highest non-met organ/tissue	Other respiratory
164.3	MALIG NEO POST MEDIASTINUM	Highest non-met organ/tissue	Other respiratory
164.8	MALIG NEO MEDIASTINUM NEC	Highest non-met organ/tissue	Other respiratory
164.9	MALIG NEO MEDIASTINUM NOS	Highest non-met organ/tissue	Other respiratory
165	OTH/ILL-DEF MAL NEO RESP		
165.0	MALIG NEO UPPER RESP NOS	Lung	Other respiratory
165.8	MALIG NEO THORAX/RESP NEC	Lung	Other respiratory
165.9	MALIG NEO RESP SYSTEM NOS	Lung	Other respiratory
170	MALIG NEO BONE/ARTIC CART		
170.0	MALIG NEO SKULL/FACE BONE	Bone surface	Bone
170.1	MALIG NEO MANDIBLE	Bone surface	Bone
170.2	MALIG NEO VERTEBRAE	Bone surface	Bone
170.3	MALIG NEO RIBS/STERN/CLAV	Medical review	Bone
170.4	MALIG NEO LONG BONES ARM	Bone surface	Bone
170.5	MALIG NEO BONES WRIST/HAND	Bone surface	Bone
170.6	MALIG NEO PELVIC GIRDLE	Medical review	Bone
170.7	MALIG NEO LONG BONES LEG	Medical review	Bone
170.8	MALIG NEO BONES ANKLE/FOOT	Bone surface	Bone
170.9	MALIG NEO BONE NOS	Medical review	Bone
171	MALIG NEO SOFT TISSUE		
171.0	MALIG NEO SOFT TISSUE HEAD	Highest non-met organ/tissue	Connective Tissue
171.2	MALIG NEO SOFT TISSUE ARM	Highest non-met organ/tissue	Connective Tissue
171.3	MALIG NEO SOFT TISSUE LEG	Highest non-met organ/tissue	Connective Tissue
171.4	MALIG NEO SOFT TIS THORAX	Highest non-met organ/tissue	Connective Tissue
171.5	MALIG NEO SOFT TIS ABDOMEN	Highest non-met organ/tissue	Connective Tissue
171.6	MALIG NEO SOFT TIS PELVIS	Highest non-met organ/tissue	Connective Tissue
171.7	MALIG NEO TRUNK NOS	Highest non-met organ/tissue	Connective Tissue
171.8	MALIG NEO SOFT TISSUE NEC	Highest non-met organ/tissue	Connective Tissue
171.9	MALIG NEO SOFT TISSUE NOS	Highest non-met organ/tissue	Connective Tissue
17 1.0	IVII LIG INLO GOI I HOOGE NOO	i nghoot hon mot organ/tissue	CONTROLLED FIGURE

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I ICD 0	
ICD-9 IMBA applicable	
Code Cancer code explanation organ/tissue IREP mo	odel
172 MALIGNANT MELANOMA SKIN	
172.0 MALIG MELANOMA LIP Skin Malignant melanoma	a
172.1 MALIG MELANOMA EYELID Skin Malignant melanoma	a .
172.2 MALIG MELANOMA EAR Skin Malignant melanoma	
172.3 MALIG MELANOMA FACE NEC/NOS Skin Malignant melanoma	
172.4 MALIG MELANOMA SCALP/NECK Skin Malignant melanoma	
172.5 MALIG MELANOMA TRUNK Skin Malignant melanoma	
172.6 MALIG MELANOMA ARM Skin Malignant melanoma	
172.7 MALIG MELANOMA LEG Skin Malignant melanoma	
172.8 MALIG MELANOMA SKIN NEC Skin Malignant melanoma	
172.9 MALIG MELANOMA SKIN NOS Skin Malignant melanoma	1
173 OTHER MALIG NEOPL SKIN	D 1 11 0 D
Non-melanoma skin-	
173.0 MALIG NEO SKIN LIP Skin Non-melanoma skin-	
Non-melanoma skin-	
173.1 MALIG NEO SKIN EYELID Skin Non-melanoma skin-	
Non-melanoma skin-	
173.2 MALIG NEO SKIN EAR Skin Non-melanoma skin-	
Non-melanoma skin-	-Basal cell OR
173.3 MALIG NEO SKIN FACE NEC Skin Non-melanoma skin-	-Squamous cell
Non-melanoma skin-	-Basal cell OR
173.4 MALIG NEO SCALP/SKIN NECK Skin Non-melanoma skin-	-Squamous cell
Non-melanoma skin-	-Basal cell OR
173.5 MALIG NEO SKIN TRUNK Skin Non-melanoma skin-	-Squamous cell
Non-melanoma skin-	
173.6 MALIG NEO SKIN ARM Skin Non-melanoma skin-	-Squamous cell
Non-melanoma skin-	
173.7 MALIG NEO SKIN LEG Skin Non-melanoma skin-	
Non-melanoma skin-	
173.8 MALIG NEO SKIN NEC Skin Non-melanoma skin-	
Non-melanoma skin-	
173.9 MALIG NEO SKIN NOS Skin Non-melanoma skin-	
174 MALIG NEO FEMALE BREAST	Oqualification
174.0 MALIG NEO NIPPLE Breast Breast	
174.0 MALIG NEO BREAST-CENTRAL Breast Breast	
174.3 MALIG NEO BREAST LOW-INNER Breast Breast	
174.4 MALIG NEO BREAST UP-OUTER Breast Breast	
174.5 MALIG NEO BREAST LOW-OUTER Breast Breast	
174.6 MALIG NEO BREAST-AXILLARY Breast Breast	
174.8 MALIG NEO BREAST NEC Breast Breast	
174.9 MALIG NEO BREAST NOS Breast Breast	
175 MALIG NEO MALE BREAST	
175.0 MALIG NEO MALE NIPPLE Breast Breast	
175.9 MALIG NEO MALE BREAST NEC Breast Breast	

	i (cont)		
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
176	KAPOSI'S SARCOMA		
			Connective tissue AND
176.0	SKIN-KAPOSI'S SARCOMA	Skin	Non-melanoma skin-Squamous cell
		Highest non-met	Connective tissue AND
176.1	SOFT TISSUE-KAPOSI'S SARCOMA	organ/tissue	Non-melanoma skin-Squamous cell
		Highest non-met	Connective tissue AND
176.2	PALATE-KAPOSI'S SARCOMA	organ/tissue	Non-melanoma skin-Squamous cell
			Connective tissue AND
176.3	GI SITES-KAPOSI'S SARCOMA	Colon	Non-melanoma skin-Squamous cell
			Connective tissue AND
176.4	LUNG-KAPOSI'S SARCOMA	Lung	Non-melanoma skin-Squamous cell
		Highest non-met	Connective tissue AND
176.5	LYMPH NODES-KAPOSI'S SARCOMA	organ/tissue	Non-melanoma skin-Squamous cell
170.0		Highest non-met	Connective tissue AND
176.8	SPF STS-KAPOSI'S SARCOMA	organ/tissue	Non-melanoma skin-Squamous cell
170.0	OF TOTOTION OF OUR OWN	Highest non-met	Connective tissue AND
176.9	KAPOSI'S SARCOMA NOS	organ/tissue	Non-melanoma skin-Squamous cell
170.9	MALIG NEO UTERUS NOS	Uterus	Female genitalia less ovary
180	MALIG NEO CERVIX UTERI	Oterus	Female genitalia less ovary
		Literus	Famala garitalia laga ayanı
180.0	MALIG NEO ENDOCERVIX	Uterus	Female genitalia less ovary
180.1	MALIG NEO EXOCERVIX	Uterus	Female genitalia less ovary
180.8	MALIG NEO CERVIX NEC	Uterus	Female genitalia less ovary
180.9	MALIG NEO CERVIX UTERI NOS	Uterus	Female genitalia less ovary
181	MALIG NEO PLACENTA	Uterus	Female genitalia less ovary
182	MALIG NEO UTERUS BODY		
182.0	MALIG NEO CORPUS UTERI	Uterus	Female genitalia less ovary
182.1	MALIG NEO UTERINE ISTHMUS	Uterus	Female genitalia less ovary
182.8	MALIG NEO BODY UTERUS NEC	Uterus	Female genitalia less ovary
183	MALIG NEO UTERINE ADNEXA		
183.0	MALIG NEO OVARY	Ovaries	Ovary
183.2	MALIG NEO FALLOPIAN TUBE	Ovaries	Ovary
183.3	MALIG NEO BROAD LIGAMENT	Ovaries	Ovary
183.4	MALIG NEO PARAMETRIUM	Uterus	Ovary
183.5	MALIG NEO ROUND LIGAMENT	Uterus	Ovary
183.8	MALIG NEO ADNEXA NEC	Ovaries	Ovary
183.9	MALIG NEO ADNEXA NOS	Ovaries	Ovary
184	MALIG NEO FEM GEN NEC/NOS		/
184.0	MALIG NEO VAGINA	Muscle	Female genitalia less ovary
184.1	MALIG NEO LABIA MAJORA	Skin	Female genitalia less ovary
184.2	MALIG NEO LABIA MINORA	Skin	Female genitalia less ovary
184.3	MALIG NEO CLITORIS	Skin	Female genitalia less ovary
184.4	MALIG NEO VULVA NOS	Skin	
			Female genitalia less ovary
184.8	MALIG NEO FEMALE GENIT NEC	Uterus	Female genitalia less ovary
184.9	MALIG NEO FEMALE GENIT NOS	Uterus	Female genitalia less ovary
405	MALIO NEO PROGESTATE	Highest non-met	All souls as all a
185	MALIG NEO PROSTATE	organ/tissue	All male genitalia

Code Cancer code explanation organ/tissue IREP model 186 MALIG NEO TESTIS Testes All male genitalia 186.0 MALIG NEO UNDESCEND TESTIS Testes All male genitalia 187 MALIG NEO MALE GENITAL NEC Hall GIO PERPUCE Skin All male genitalia 187.1 MALIG NEO PREPUCE Skin All male genitalia 187.2 MALIG NEO PENIS BODY Testes All male genitalia 187.3 MALIG NEO PENIS BODY Testes All male genitalia 187.4 MALIG NEO PENIS NOS Testes All male genitalia 187.5 MALIG NEO PENIS NOS Testes All male genitalia 187.5 MALIG NEO SCROTUM Testes All male genitalia 187.6 MALIG NEO SCROTUM Testes All male genitalia 187.7 MALIG NEO SCROTUM Testes All male genitalia 187.9 MALIG NEO BLADDER Testes All male genitalia 187.7 MALIG NEO BLADDER NEO Testes All male genitalia 187.8 MALIG NEO MALE GENITAL		(COIII)	T	1
186. MALIG NEO TESTIS	ICD-9		IMBA applicable	
MALIG NEO UNDESCEND TESTIS Testes			organ/tissue	IREP model
MALIG NEO TESTIS NEC				
MALIG NEO MALE GENITAL NEC Skin				
187.1 MALIG NEO PREPUCE			Testes	All male genitalia
187.2 MALIG NEO GLANS PENIS Skin All male genitalia				
187.3				
187.4 MALIG NEO PENIS NOS Testes All male genitalia				
187.5 MALIG NEO EPIDIDYMIS Testes All male genitalia 187.6 MALIG NEO SPERMATIC CORD Testes All male genitalia 187.7 MALIG NEO SCROTUM Testes All male genitalia 187.8 MALIG NEO MALE GENITAL NEC Testes All male genitalia 187.9 MALIG NEO MALE GENITAL NOS Testes All male genitalia 187.9 MALIG NEO MALE GENITAL NOS Testes All male genitalia 188.0 MALIG NEO BLADDER 188.0 MALIG NEO BLADDER Bladder Bladder 188.1 MALIG NEO BLADDER-DOME Bladder Bladder 188.2 MALIG NEO BLADDER-DOME Bladder Bladder 188.3 MALIG NEO BLADDER-ANTERIOR Bladder Bladder 188.4 MALIG NEO BLADDER-ANTERIOR Bladder Bladder 188.5 MALIG NEO BLADDER NECK Bladder Bladder 188.6 MALIG NEO BLADDER NECK Bladder Bladder 188.7 MALIG NEO BLADDER NECK Bladder Bladder 188.8 MALIG NEO URACHUS Bladder Bladder 188.9 MALIG NEO URACHUS Bladder Bladder 188.9 MALIG NEO BLADDER NEC Bladder Bladder 189.0 MALIG NEO BLADDER NEC Bladder Bladder 189.1 MALIG NEO BLADDER NEC Bladder Bladder 189.2 MALIG NEO BLADDER NEC Bladder Bladder 189.3 MALIG NEO BLADDER NEC Bladder Bladder 189.4 MALIG NEO BLADDER NEC Bladder Bladder 189.3 MALIG NEO WINNARY NEC/NOS 189.4 MALIG NEO WRETERE Kidney Urinary organs less bladder 189.3 MALIG NEO WRETER Kidney Urinary organs less bladder 189.3 MALIG NEO WRETER Kidney Urinary organs less bladder 189.4 MALIG NEO WRETHRA Bladder Urinary organs less bladder 189.9 MALIG NEO URETHRA Bladder Urinary organs less bladder 189.9 MALIG NEO URETHRA Bladder Urinary organs less bladder 189.9 MALIG NEO URINARY NEC Bladder Urinary organs less bladder 189.9 MALIG NEO URINARY NEC Bladder Urinary organs less bladder 189.9 MALIG NEO URINARY NEC Bladder Urinary organs less bladder 189.9 MALIG NEO URINARY NEC Bladder Urinary organs less bladder 189.0 MALIG NEO URINARY NEC Bladder Urinary organs less bladder 189.0 MALIG NEO URINARY NEC Bladder Urinary organs less bladder 189.0 MALIG NEO URINARY NEC Bladder Urinary organs less bladder 189.0 MALIG NEO URINARY NEC Bladder Urinary organs less bladder 189.0 MALIG NEO URINARY NEC Bladder Urinary organs less bladder				
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189.3MALIG NEO URETHRABladderUrinary organs less bladder189.4MALIG NEO PARAURETHRALBladderUrinary organs less bladder189.8MALIG NEO URINARY NECBladderUrinary organs less bladder189.9MALIG NEO URINARY NOSMedical reviewUrinary organs less bladder190MALIG NEO URINARY NOSMedical reviewUrinary organs less bladder190.0MALIG NEO EYEBALLBrainEye190.1MALIG NEO EYEBALLBrainEye190.2MALIG NEO UACRIMAL GLANDSkinEye190.3MALIG NEO CONJUNCTIVASkinEye190.4MALIG NEO CORNEASkinEye190.5MALIG NEO RETINABrainEye190.6MALIG NEO CHOROIDBrainEye190.7MALIG NEO LACRIMAL DUCTSkinEye190.8MALIG NEO EYE NECSkinEye	189.1	MALIG NEO RENAL PELVIS	Kidney	Urinary organs less bladder
189.4MALIG NEO PARAURETHRALBladderUrinary organs less bladder189.8MALIG NEO URINARY NECBladderUrinary organs less bladder189.9MALIG NEO URINARY NOSMedical reviewUrinary organs less bladder190MALIGANT NEOPLASM EYEUrinary organs less bladder190.0MALIG NEO EYEBALLBrainEye190.1MALIG NEO ORBITBrainEye190.2MALIG NEO LACRIMAL GLANDSkinEye190.3MALIG NEO CONJUNCTIVASkinEye190.4MALIG NEO CORNEASkinEye190.5MALIG NEO CRETINABrainEye190.6MALIG NEO CHOROIDBrainEye190.7MALIG NEO LACRIMAL DUCTSkinEye190.8MALIG NEO EYE NECSkinEye	189.2	MALIG NEO URETER	Kidney	Urinary organs less bladder
189.8MALIG NEO URINARY NECBladderUrinary organs less bladder189.9MALIG NEO URINARY NOSMedical reviewUrinary organs less bladder190MALIGANT NEOPLASM EYEEye190.0MALIG NEO EYEBALLBrainEye190.1MALIG NEO ORBITBrainEye190.2MALIG NEO LACRIMAL GLANDSkinEye190.3MALIG NEO CONJUNCTIVASkinEye190.4MALIG NEO CORNEASkinEye190.5MALIG NEO RETINABrainEye190.6MALIG NEO CHOROIDBrainEye190.7MALIG NEO LACRIMAL DUCTSkinEye190.8MALIG NEO EYE NECSkinEye	189.3	MALIG NEO URETHRA	Bladder	Urinary organs less bladder
189.9MALIG NEO URINARY NOSMedical reviewUrinary organs less bladder190MALIGANT NEOPLASM EYEFrainEye190.0MALIG NEO EYEBALLBrainEye190.1MALIG NEO ORBITBrainEye190.2MALIG NEO LACRIMAL GLANDSkinEye190.3MALIG NEO CONJUNCTIVASkinEye190.4MALIG NEO CORNEASkinEye190.5MALIG NEO RETINABrainEye190.6MALIG NEO CHOROIDBrainEye190.7MALIG NEO LACRIMAL DUCTSkinEye190.8MALIG NEO EYE NECSkinEye	189.4	MALIG NEO PARAURETHRAL	Bladder	Urinary organs less bladder
190 MALIGANT NEOPLASM EYE 190.0 MALIG NEO EYEBALL Brain Eye 190.1 MALIG NEO ORBIT Brain Eye 190.2 MALIG NEO LACRIMAL GLAND Skin Eye 190.3 MALIG NEO CONJUNCTIVA Skin Eye 190.4 MALIG NEO CORNEA Skin Eye 190.5 MALIG NEO RETINA Brain Eye 190.6 MALIG NEO CHOROID Brain Eye 190.7 MALIG NEO LACRIMAL DUCT Skin Eye 190.8 MALIG NEO EYE NEC Skin Eye	189.8	MALIG NEO URINARY NEC	Bladder	Urinary organs less bladder
190.0 MALIG NEO EYEBALL Brain Eye 190.1 MALIG NEO ORBIT Brain Eye 190.2 MALIG NEO LACRIMAL GLAND Skin Eye 190.3 MALIG NEO CONJUNCTIVA Skin Eye 190.4 MALIG NEO CORNEA Skin Eye 190.5 MALIG NEO RETINA Brain Eye 190.6 MALIG NEO CHOROID Brain Eye 190.7 MALIG NEO LACRIMAL DUCT Skin Eye 190.8 MALIG NEO EYE NEC Skin Eye	189.9	MALIG NEO URINARY NOS	Medical review	Urinary organs less bladder
190.1 MALIG NEO ORBIT Brain Eye 190.2 MALIG NEO LACRIMAL GLAND Skin Eye 190.3 MALIG NEO CONJUNCTIVA Skin Eye 190.4 MALIG NEO CORNEA Skin Eye 190.5 MALIG NEO RETINA Brain Eye 190.6 MALIG NEO CHOROID Brain Eye 190.7 MALIG NEO LACRIMAL DUCT Skin Eye 190.8 MALIG NEO EYE NEC Skin Eye		MALIGANT NEOPLASM EYE		
190.1 MALIG NEO ORBIT Brain Eye 190.2 MALIG NEO LACRIMAL GLAND Skin Eye 190.3 MALIG NEO CONJUNCTIVA Skin Eye 190.4 MALIG NEO CORNEA Skin Eye 190.5 MALIG NEO RETINA Brain Eye 190.6 MALIG NEO CHOROID Brain Eye 190.7 MALIG NEO LACRIMAL DUCT Skin Eye 190.8 MALIG NEO EYE NEC Skin Eye	190.0	MALIG NEO EYEBALL	Brain	Eye
190.2 MALIG NEO LACRIMAL GLAND Skin Eye 190.3 MALIG NEO CONJUNCTIVA Skin Eye 190.4 MALIG NEO CORNEA Skin Eye 190.5 MALIG NEO RETINA Brain Eye 190.6 MALIG NEO CHOROID Brain Eye 190.7 MALIG NEO LACRIMAL DUCT Skin Eye 190.8 MALIG NEO EYE NEC Skin Eye				
190.3 MALIG NEO CONJUNCTIVA Skin Eye 190.4 MALIG NEO CORNEA Skin Eye 190.5 MALIG NEO RETINA Brain Eye 190.6 MALIG NEO CHOROID Brain Eye 190.7 MALIG NEO LACRIMAL DUCT Skin Eye 190.8 MALIG NEO EYE NEC Skin Eye	190.2	MALIG NEO LACRIMAL GLAND	Skin	
190.5 MALIG NEO RETINA Brain Eye 190.6 MALIG NEO CHOROID Brain Eye 190.7 MALIG NEO LACRIMAL DUCT Skin Eye 190.8 MALIG NEO EYE NEC Skin Eye	190.3	MALIG NEO CONJUNCTIVA	Skin	
190.5 MALIG NEO RETINA Brain Eye 190.6 MALIG NEO CHOROID Brain Eye 190.7 MALIG NEO LACRIMAL DUCT Skin Eye 190.8 MALIG NEO EYE NEC Skin Eye	190.4	MALIG NEO CORNEA	Skin	Eye
190.6MALIG NEO CHOROIDBrainEye190.7MALIG NEO LACRIMAL DUCTSkinEye190.8MALIG NEO EYE NECSkinEye	190.5	MALIG NEO RETINA	Brain	•
190.7MALIG NEO LACRIMAL DUCTSkinEye190.8MALIG NEO EYE NECSkinEye		MALIG NEO CHOROID		
190.8 MALIG NEO EYE NEC Skin Eye		MALIG NEO LACRIMAL DUCT	Skin	
	190.8	MALIG NEO EYE NEC	Skin	•
190.9 MALIG NEO EYE NOS Skin Eye	190.9	MALIG NEO EYE NOS	Skin	Eye

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	(cont)		1
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
191	MALIG NEOASM BRAIN		
191.0	MALIG NEO CEREBRUM	Brain	Nervous system
191.1	MALIG NEO FRONTAL LOBE	Brain	Nervous system
191.2	MALIG NEO TEMPORAL LOBE	Brain	Nervous system
191.3	MALIG NEO PARIETAL LOBE	Brain	Nervous system
191.4	MALIG NEO OCCIPITAL LOBE	Brain	Nervous system
191.5	MALIG NEO CEREB VENTRICLE	Brain	Nervous system
191.6	MALIG NEO CEREBELLUM NOS	Brain	Nervous system
191.7	MALIG NEO BRAIN STEM	Brain	Nervous system
191.8	MALIG NEO BRAIN NEC	Brain	Nervous system
191.9	MALIG NEO BRAIN NOS	Brain	Nervous system
192	MALIG NEO NERVE NEC/NOS	Diani.	Troivede eyete
192.0	MALIG NEO CRANIAL NERVES	Brain	Nervous system
192.1	MALIG NEO CEREBRAL MENING	Brain	Nervous system
192.2	MALIG NEO SPINAL CORD	Brain	Nervous system
192.3	MALIG NEO SPINAL MENINGES	Brain	Nervous system
192.8	MALIG NEO SERVOUS SYST NEC	Brain	Nervous system
192.8	MALIG NEO NERVOUS SYST NOS	Brain	Nervous system
192.9	MALIG NEO THYROID		·
		Thyroid	Thyroid
194	MALIG NEO OTHER ENDOCRINE	Medical review	Other endocrine glands
194.0	MALIG NEO ADRENAL	Adrenals	Other endocrine glands
194.1	MALIG NEO PARATHYROID	Thyroid	Other endocrine glands
194.3	MALIG NEO PITUITARY	Brain	Other endocrine glands
194.4	MALIG NEO PINEAL GLAND	Brain	Other endocrine glands
194.5	MALIG NEO CAROTID BODY	Brain	Other endocrine glands
194.6	MALIG NEO PARAGANGLIA NEC	Brain	Other endocrine glands
194.8	MALIG NEO ENDOCRINE NEC	Medical review	Other endocrine glands
194.9	MALIG NEO ENDOCRINE NOS	Medical review	Other endocrine glands
195	MALIG NEO OTH/ILL-DEF SITE		
195.0	MALIG NEO HEAD/FACE/NECK	Highest non-met organ/tissue	Other and ill-defined sites
195.1	MALIG NEO THORAX	Highest non-met organ/tissue	Other and ill-defined sites
195.2	MALIG NEO ABDOMEN	Highest non-met organ/tissue	Other and ill-defined sites
195.3	MALIG NEO PELVIS	Highest non-met organ/tissue	Other and ill-defined sites
195.4	MALIG NEO ARM	Highest non-met organ/tissue	Other and ill-defined sites
195.5	MALIG NEO LEG	Highest non-met organ/tissue	Other and ill-defined sites
195.8	MALIG NEO SITE NEC	Highest non-met organ/tissue	Other and ill-defined sites
196	MALIG NEO LYMPH NODES		
196.0	MALIG NEO LYMPH-HEAD/NECK	Do not do - secondary	NA
196.1	MALIG NEO LYMPH-INTRATHOR	Do not do - secondary	NA
196.2	MALIG NEO LYMPH-INTRA-ABD	Do not do - secondary	NA
196.3	MALIG NEO LYMPH-AXILLA/ARM	Do not do - secondary	NA
196.5	MALIG NEO LYMPH-INGUIN/LEG	Do not do - secondary	NA
196.6	MALIG NEO LYMPH-INTRAPELV	Do not do - secondary	NA
196.8	MALIG NEO LYMPH-MULT	Do not do - secondary	NA
196.9	MALIG NEO LYMPH NOS	Do not do - secondary	NA

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Table 1	(cont)		
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
197	SEC MALIG NEO GI/RESP		
197.0	SEC MALIG NEO LUNG	Do not do - secondary	NA
197.1	SEC MALIG NEO MEDIASTINUM	Do not do - secondary	NA
197.2	SEC MALIG NEO PLEURA	Do not do - secondary	NA
197.3	SEC MALIG NEO RESP NEC	Do not do - secondary	NA
197.4	SEC MALIG NEO SM BOWEL	Do not do - secondary	NA
197.5	SEC MALIG NEO LG BOWEL	Do not do - secondary	NA
197.6	SEC MALIG NEO PERITONEUM	Do not do - secondary	NA
197.7	SEC MALIG NEO LIVER	Do not do - secondary	NA
197.8	SEC MALIG NEO GI NEC	Do not do - secondary	NA
198	SEC MALIG NEO OTHER SITES		
198.0	SEC MALIG NEO KIDNEY	Do not do - secondary	NA
198.1	SEC MALIG NEO URIN NEC	Do not do - secondary	NA
198.2	SEC MALIG NEO SKIN	Do not do - secondary	NA
198.3	SEC MALIG NEO BRAIN/SPINE	Do not do - secondary	NA
198.4	SEC MALIG NEO NERVE NEC	Do not do - secondary	NA
198.5	SEC MALIG NEO BONE	Do not do - secondary	NA
198.6	SEC MALIG NEO OVARY	Do not do - secondary	NA
198.7	SEC MALIG NEO ADRENAL	Do not do - secondary	NA
198.8	OTHER SECONDARY MALIG NEO		
198.81	SEC MALIG NEO BREAST	Do not do - secondary	NA
198.82	SEC MALIG NEO GENITAL	Do not do - secondary	NA
198.89	SEC MALIG NEO NEC	Do not do - secondary	NA
199	MALIG NEOPLASM NOS	,	
		Highest non-met	
199.0	MALIG NEO DISSEMINATED	organ/tissue	Other and ill-defined sites
		Highest non-met	
199.1	MALIG NEO NOS	organ/tissue	Other and ill-defined sites
200	LYMPHOSARC/RETICULOSARC		
200.0	RETICULOSARCOMA	Medical review	Lymphoma and multiple myeloma
200.00	RETCLSRC UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
200.01	RETICULOSARCOMA HEAD	Medical review	Lymphoma and multiple myeloma
200.02	RETICULOSARCOMA THORAX	Medical review	Lymphoma and multiple myeloma
200.03	RETICULOSARCOMA ABDOM	Medical review	Lymphoma and multiple myeloma
200.04	RETICULOSARCOMA AXILLA	Medical review	Lymphoma and multiple myeloma
200.05	RETICULOSARCOMA INGUIN	Medical review	Lymphoma and multiple myeloma
200.06	RETICULOSARCOMA PELVIC	Medical review	Lymphoma and multiple myeloma
200.07	RETICULOSARCOMA SPLEEN	Medical review	Lymphoma and multiple myeloma
200.08	RETICULOSARCOMA MULT	Medical review	Lymphoma and multiple myeloma
200.1	LYMPHOSARCOMA	Medical review	Lymphoma and multiple myeloma
200.10	LYMPHSRC UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
200.11	LYMPHOSARCOMA HEAD	Medical review	Lymphoma and multiple myeloma
200.12	LYMPHOSARCOMA THORAX	Medical review	Lymphoma and multiple myeloma
200.13	LYMPHOSARCOMA ABDOM	Medical review	Lymphoma and multiple myeloma
200.14	LYMPHOSARCOMA AXILLA	Medical review	Lymphoma and multiple myeloma
200.15	LYMPHOSARCOMA INGUIN	Medical review	Lymphoma and multiple myeloma
200.16	LYMPHOSARCOMA PELVIC	Medical review	Lymphoma and multiple myeloma
200.17	LYMPHOSARCOMA SPLEEN	Medical review	Lymphoma and multiple myeloma
		1 111001001 1011011	
200.18	LYMPHOSARCOMA MULT	Medical review	Lymphoma and multiple myeloma

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Table 1	(cont)	T	1
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
200.2	BURKITT'S TUMOR/LYMPHOMA	Medical review	Lymphoma and multiple myeloma
	BURKITT'S TUMOR UNSPEC EXT		
200.20	ORG	Medical review	Lymphoma and multiple myeloma
200.21	BURKITT'S TUMOR HEAD	Medical review	Lymphoma and multiple myeloma
200.22	BURKITT'S TUMOR THORAX	Medical review	Lymphoma and multiple myeloma
200.23	BURKITT'S TUMOR ABDOM	Medical review	Lymphoma and multiple myeloma
200.24	BURKITT'S TUMOR AXILLA	Medical review	Lymphoma and multiple myeloma
200.25	BURKITT'S TUMOR INGUIN	Medical review	Lymphoma and multiple myeloma
200.26	BURKITT'S TUMOR PELVIC	Medical review	Lymphoma and multiple myeloma
200.27	BURKITT'S TUMOR SPLEEN	Medical review	Lymphoma and multiple myeloma
200.28	BURKITT'S TUMOR MULT	Medical review	Lymphoma and multiple myeloma
200.8	MIXED LYMPHOSARCOMA	Medical review	Lymphoma and multiple myeloma
200.80	OTHER VARN UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
200.81	MIXED LYMPHOSARC HEAD	Medical review	Lymphoma and multiple myeloma
200.82	MIXED LYMPHOSARC THORAX	Medical review	Lymphoma and multiple myeloma
200.83	MIXED LYMPHOSARC ABDOM	Medical review	Lymphoma and multiple myeloma
200.84	MIXED LYMPHOSARC AXILLA	Medical review	Lymphoma and multiple myeloma
200.85	MIXED LYMPHOSARC INGUIN	Medical review	Lymphoma and multiple myeloma
200.86	MIXED LYMPHOSARC PELVIC	Medical review	Lymphoma and multiple myeloma
200.87	MIXED LYMPHOSARC SPLEEN	Medical review	Lymphoma and multiple myeloma
200.88	MIXED LYMPHOSARC MULT	Medical review	Lymphoma and multiple myeloma
201	HODGKIN'S DISEASE		
201.0	HODGKIN'S PARAGRANULOMA	Medical review	Lymphoma and multiple myeloma
20110	HODGKINS PARAGRANULOMA	Wiedlear Teview	zympnoma ana malapio myoloma
201.00	UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
201.01	HODGKINS PARAGRAN HEAD	Medical review	Lymphoma and multiple myeloma
201.02	HODGKINS PARAGRAN THORAX	Medical review	Lymphoma and multiple myeloma
201.03	HODGKINS PARAGRAN ABDOM		
		l Medical review	
201.04		Medical review Medical review	Lymphoma and multiple myeloma
201.04	HODGKINS PARAGRAN AXILLA	Medical review	Lymphoma and multiple myeloma Lymphoma and multiple myeloma
201.05	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN	Medical review Medical review	Lymphoma and multiple myeloma Lymphoma and multiple myeloma Lymphoma and multiple myeloma
201.05 201.06	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC	Medical review Medical review Medical review	Lymphoma and multiple myeloma Lymphoma and multiple myeloma Lymphoma and multiple myeloma Lymphoma and multiple myeloma
201.05 201.06 201.07	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN	Medical review Medical review Medical review Medical review	Lymphoma and multiple myeloma
201.05 201.06 201.07 201.08	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN HODGKINS PARAGRAN MULT	Medical review Medical review Medical review Medical review Medical review	Lymphoma and multiple myeloma
201.05 201.06 201.07	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN HODGKINS PARAGRAN MULT HODGKIN'S GRANULOMA	Medical review Medical review Medical review Medical review	Lymphoma and multiple myeloma
201.05 201.06 201.07 201.08 201.1	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN HODGKINS PARAGRAN MULT HODGKIN'S GRANULOMA HODGKINS GRANULOM UNSPEC	Medical review Medical review Medical review Medical review Medical review Medical review	Lymphoma and multiple myeloma
201.05 201.06 201.07 201.08 201.1	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN HODGKINS PARAGRAN MULT HODGKIN'S GRANULOMA HODGKINS GRANULOM UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
201.05 201.06 201.07 201.08 201.1 201.10 201.11	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN HODGKINS PARAGRAN MULT HODGKIN'S GRANULOMA HODGKINS GRANULOM UNSPEC EXT ORG HODGKINS GRANULOM HEAD	Medical review	Lymphoma and multiple myeloma
201.05 201.06 201.07 201.08 201.1 201.10 201.11 201.12	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN HODGKINS PARAGRAN MULT HODGKIN'S GRANULOMA HODGKINS GRANULOM UNSPEC EXT ORG HODGKINS GRANULOM HEAD HODGKINS GRANULOM THORAX	Medical review	Lymphoma and multiple myeloma
201.05 201.06 201.07 201.08 201.1 201.10 201.11 201.12 201.13	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN HODGKINS PARAGRAN MULT HODGKIN'S GRANULOMA HODGKINS GRANULOM UNSPEC EXT ORG HODGKINS GRANULOM HEAD HODGKINS GRANULOM THORAX HODGKINS GRANULOM ABDOM	Medical review	Lymphoma and multiple myeloma
201.05 201.06 201.07 201.08 201.1 201.10 201.11 201.12 201.13 201.14	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN HODGKINS PARAGRAN MULT HODGKINS GRANULOMA HODGKINS GRANULOM UNSPEC EXT ORG HODGKINS GRANULOM HEAD HODGKINS GRANULOM THORAX HODGKINS GRANULOM ABDOM HODGKINS GRANULOM AXILLA	Medical review	Lymphoma and multiple myeloma
201.05 201.06 201.07 201.08 201.1 201.10 201.11 201.12 201.13 201.14 201.15	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN HODGKINS PARAGRAN MULT HODGKINS GRANULOMA HODGKINS GRANULOM UNSPEC EXT ORG HODGKINS GRANULOM HEAD HODGKINS GRANULOM THORAX HODGKINS GRANULOM ABDOM HODGKINS GRANULOM AXILLA HODGKINS GRANULOM INGUIN	Medical review	Lymphoma and multiple myeloma
201.05 201.06 201.07 201.08 201.1 201.10 201.11 201.12 201.13 201.14 201.15 201.16	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN HODGKINS PARAGRAN MULT HODGKINS GRANULOMA HODGKINS GRANULOM UNSPEC EXT ORG HODGKINS GRANULOM HEAD HODGKINS GRANULOM THORAX HODGKINS GRANULOM ABDOM HODGKINS GRANULOM AXILLA HODGKINS GRANULOM INGUIN HODGKINS GRANULOM PELVIC	Medical review	Lymphoma and multiple myeloma
201.05 201.06 201.07 201.08 201.1 201.10 201.11 201.12 201.13 201.14 201.15	HODGKINS PARAGRAN AXILLA HODGKINS PARAGRAN INGUIN HODGKINS PARAGRAN PELVIC HODGKINS PARAGRAN SPLEEN HODGKINS PARAGRAN MULT HODGKINS GRANULOMA HODGKINS GRANULOM UNSPEC EXT ORG HODGKINS GRANULOM HEAD HODGKINS GRANULOM THORAX HODGKINS GRANULOM ABDOM HODGKINS GRANULOM AXILLA HODGKINS GRANULOM INGUIN	Medical review	Lymphoma and multiple myeloma

	(cont)		
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
201.2	HODGKIN'S SARCOMA	Medical review	Lymphoma and multiple myeloma
201.20	HODGKINS SRC UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
201.21	HODGKINS SARCOMA HEAD	Medical review	Lymphoma and multiple myeloma
201.22	HODGKINS SARCOMA THORAX	Medical review	Lymphoma and multiple myeloma
201.23	HODGKINS SARCOMA ABDOM	Medical review	Lymphoma and multiple myeloma
201.24	HODGKINS SARCOMA AXILLA	Medical review	Lymphoma and multiple myeloma
201.25	HODGKINS SARCOMA INGUIN	Medical review	Lymphoma and multiple myeloma
201.26	HODGKINS SARCOMA PELVIC	Medical review	Lymphoma and multiple myeloma
201.27	HODGKINS SARCOMA SPLEEN	Medical review	Lymphoma and multiple myeloma
201.28	HODGKINS SARCOMA MULT	Medical review	Lymphoma and multiple myeloma
201.4	HODGKINS LYMPH-HISTIOCYT	Medical review	Lymphoma and multiple myeloma
201.40	LYM-HST UNSPEC EXT ORGN	Medical review	Lymphoma and multiple myeloma
201.41	HODGKINS LYMPH-HISTIO HEAD	Medical review	Lymphoma and multiple myeloma
201.42	HODGKINS LYMPH-HISTIO THORAX	Medical review	Lymphoma and multiple myeloma
201.43	HODGKINS LYMPH-HISTIO ABDOM	Medical review	Lymphoma and multiple myeloma
201.44	HODGKINS LYMPH-HISTIO AXILLA	Medical review	Lymphoma and multiple myeloma
201.45	HODGKINS LYMPH-HISTIO INGUIN	Medical review	Lymphoma and multiple myeloma
201.46	HODGKINS LYMPH-HISTIO PELVIC	Medical review	Lymphoma and multiple myeloma
201.47	HODGKINS LYMPH-HISTIO SPLEEN	Medical review	Lymphoma and multiple myeloma
201.48	HODGKINS LYMPH-HISTIO MULT	Medical review	Lymphoma and multiple myeloma
201.5	HODGKINS NODULAR SCLEROS	Medical review	Lymphoma and multiple myeloma
	NODULAR SCLEROS UNSPEC EXT		
201.50	ORG	Medical review	Lymphoma and multiple myeloma
201.51	HODGKINS NODUL SCLERO HEAD	Medical review	Lymphoma and multiple myeloma
201.52	HODGKINS NODUL SCLERO THORAX	Medical review	Lymphoma and multiple myeloma
201.53	HODGKINS NODUL SCLERO ABDOM	Medical review	Lymphoma and multiple myeloma
201.54	HODGKINS NODUL SCLERO AXILLA	Medical review	Lymphoma and multiple myeloma
201.55	HODGKINS NODUL SCLERO INGUIN	Medical review	Lymphoma and multiple myeloma
201.56	HODGKINS NODUL SCLERO PELVIC	Medical review	Lymphoma and multiple myeloma
201.57	HODGKINS NODUL SCLERO SPLEEN	Medical review	Lymphoma and multiple myeloma
201.58	HODGKINS NODUL SCLERO MULT	Medical review	Lymphoma and multiple myeloma
201.6	HODGKINS MIX CELLULARITY	Medical review	Lymphoma and multiple myeloma
201.60	MXD CELR UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
201.61	HODGKINS MIX CELL HEAD	Medical review	Lymphoma and multiple myeloma
201.62	HODGKINS MIX CELL THORAX	Medical review	Lymphoma and multiple myeloma
201.63	HODGKINS MIX CELL ABDOM	Medical review	Lymphoma and multiple myeloma
201.64	HODGKINS MIX CELL AXILLA	Medical review	Lymphoma and multiple myeloma
201.65	HODGKINS MIX CELL INGUIN	Medical review	Lymphoma and multiple myeloma
201.66	HODGKINS MIX CELL PELVIC	Medical review	Lymphoma and multiple myeloma
201.67	HODGKINS MIX CELL SPLEEN	Medical review	Lymphoma and multiple myeloma
201.68	HODGKINS MIX CELL MULT	Medical review	Lymphoma and multiple myeloma

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	(cont)	T	
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
201.7	HODG LYMPHOCYTIC DEPLET	Medical review	Lymphoma and multiple myeloma
201.70	LYM DPLT UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
201.71	HODGKINS LYMPH DEPLET HEAD	Medical review	Lymphoma and multiple myeloma
201.72	HODGKINS LYMPH DEPLET THORAX	Medical review	Lymphoma and multiple myeloma
201.73	HODGKINS LYMPH DEPLET ABDOM	Medical review	Lymphoma and multiple myeloma
201.74	HODGKINS LYMPH DEPLET AXILLA	Medical review	Lymphoma and multiple myeloma
201.75	HODGKINS LYMPH DEPLET INGUIN	Medical review	Lymphoma and multiple myeloma
201.76	HODGKINS LYMPH DEPLET PELVIC	Medical review	Lymphoma and multiple myeloma
201.77	HODGKINS LYMPH DEPLET SPLEEN	Medical review	Lymphoma and multiple myeloma
201.78	HODGKINS LYMPH DEPLET MULT	Medical review	Lymphoma and multiple myeloma
201.9	HODGKINS DISEASE NOS	Medical review	Lymphoma and multiple myeloma
201.90	HDGK DISEASE UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
201.91	HODGKINS DISEASE NOS HEAD	Medical review	Lymphoma and multiple myeloma
201.92	HODGKINS DISEASE NOS THORAX	Medical review	Lymphoma and multiple myeloma
201.93	HODGKINS DISEASE NOS ABDOM	Medical review	Lymphoma and multiple myeloma
201.94	HODGKINS DISEASE NOS AXILLA	Medical review	Lymphoma and multiple myeloma
201.95	HODGKINS DISEASE NOS INGUIN	Medical review	Lymphoma and multiple myeloma
201.96	HODGKINS DISEASE NOS PELVIC	Medical review	Lymphoma and multiple myeloma
201.97	HODGKINS DISEASE NOS SPLEEN	Medical review	Lymphoma and multiple myeloma
201.98	HODGKINS DISEASE NOS MULT	Medical review	Lymphoma and multiple myeloma
202	OTHER MALIG NEO LYMPH/HISTIO		
202.0	NODULAR LYMPHOMA	Medical review	Lymphoma and multiple myeloma
202.00	NDLR LYM UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
202.01	NODULAR LYMPHOMA HEAD	Medical review	Lymphoma and multiple myeloma
202.02	NODULAR LYMPHOMA THORAX	Medical review	Lymphoma and multiple myeloma
202.03	NODULAR LYMPHOMA ABDOM	Medical review	Lymphoma and multiple myeloma
202.04	NODULAR LYMPHOMA AXILLA	Medical review	Lymphoma and multiple myeloma
202.05	NODULAR LYMPHOMA INGUIN	Medical review	Lymphoma and multiple myeloma
202.06	NODULAR LYMPHOMA PELVIC	Medical review	Lymphoma and multiple myeloma
202.07	NODULAR LYMPHOMA SPLEEN	Medical review	Lymphoma and multiple myeloma
202.08	NODULAR LYMPHOMA MULT	Medical review	Lymphoma and multiple myeloma
202.1	MYCOSIS FUNGOIDES	Medical review	Lymphoma and multiple myeloma
202.10	MYCS FNG UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
202.11	MYCOSIS FUNGOIDES HEAD	Medical review	Lymphoma and multiple myeloma
202.12	MYCOSIS FUNGOIDES THORAX	Medical review	Lymphoma and multiple myeloma
202.13	MYCOSIS FUNGOIDES ABDOM	Medical review	Lymphoma and multiple myeloma
202.14	MYCOSIS FUNGOIDES AXILLA	Medical review	Lymphoma and multiple myeloma
202.15	MYCOSIS FUNGOIDES INGUIN	Medical review	Lymphoma and multiple myeloma
202.16	MYCOSIS FUNGOIDES PELVIC	Medical review	Lymphoma and multiple myeloma
202.17	MYCOSIS FUNGOIDES SPLEEN	Medical review	Lymphoma and multiple myeloma
202.18	MYCOSIS FUNGOIDES MULT	Medical review	Lymphoma and multiple myeloma

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Table 1	(COIII)	T	
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
202.2	SEZARY'S DISEASE	Medical review	Lymphoma and multiple myeloma
202.20	SZRY DISEASE UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
202.21	SEZARY'S DISEASE HEAD	Medical review	Lymphoma and multiple myeloma
202.22	SEZARY'S DISEASE THORAX	Medical review	Lymphoma and multiple myeloma
202.23	SEZARY'S DISEASE ABDOM	Medical review	Lymphoma and multiple myeloma
202.24	SEZARY'S DISEASE AXILLA	Medical review	Lymphoma and multiple myeloma
202.25	SEZARY'S DISEASE INGUIN	Medical review	Lymphoma and multiple myeloma
202.26	SEZARY'S DISEASE PELVIC	Medical review	Lymphoma and multiple myeloma
202.27	SEZARY'S DISEASE SPLEEN	Medical review	Lymphoma and multiple myeloma
202.28	SEZARY'S DISEASE MULT	Medical review	Lymphoma and multiple myeloma
202.3	MALIG HISTIOCYTOSIS	Medical review	Lymphoma and multiple myeloma
202.30	MLG HIST UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
202.31	MALIG HISTIOCYTOSIS HEAD	Medical review	Lymphoma and multiple myeloma
202.32	MALIG HISTIOCYTOSIS THORAX	Medical review	Lymphoma and multiple myeloma
202.33	MALIG HISTIOCYTOSIS ABDOM	Medical review	Lymphoma and multiple myeloma
202.34	MALIG HISTIOCYTOSIS AXILLA	Medical review	Lymphoma and multiple myeloma
202.35	MALIG HISTIOCYTOSIS INGUIN	Medical review	Lymphoma and multiple myeloma
202.36	MALIG HISTIOCYTOSIS PELVIC	Medical review	Lymphoma and multiple myeloma
202.37	MALIG HISTIOCYTOSIS SPLEEN	Medical review	Lymphoma and multiple myeloma
202.38	MALIG HISTIOCYTOSIS MULT	Medical review	Lymphoma and multiple myeloma
202.4	LEUKEM RETICULOENDOTHEL	Medical review	Lymphoma and multiple myeloma
202.40	LK RTCTL UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
202.41	HAIRY-CELL LEUKEM HEAD	Medical review	Lymphoma and multiple myeloma
202.42	HAIRY-CELL LEUKEM THORAX	Medical review	Lymphoma and multiple myeloma
202.43	HAIRY-CELL LEUKEM ABDOM	Medical review	Lymphoma and multiple myeloma
202.44	HAIRY-CELL LEUKEM AXILLA	Medical review	Lymphoma and multiple myeloma
202.45	HAIRY-CELL LEUKEM INGUIN	Medical review	Lymphoma and multiple myeloma
202.46	HAIRY-CELL LEUKEM PELVIC	Medical review	Lymphoma and multiple myeloma
202.47	HAIRY-CELL LEUKEM SPLEEN	Medical review	Lymphoma and multiple myeloma
202.48	HAIRY-CELL LEUKEM MULT	Medical review	Lymphoma and multiple myeloma
202.5	LETTERER-SIWE DISEASE	Medical review	Lymphoma and multiple myeloma
202.50	LTR-SIWE UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
202.51	LETTERER-SIWE DISEASE HEAD	Medical review	Lymphoma and multiple myeloma
202.52	LETTERER-SIWE DISEASE THORAX	Medical review	Lymphoma and multiple myeloma
202.53	LETTERER-SIWE DISEASE ABDOM	Medical review	Lymphoma and multiple myeloma
202.54	LETTERER-SIWE DISEASE AXILLA	Medical review	Lymphoma and multiple myeloma
202.55	LETTERER-SIWE DISEASE INGUIN	Medical review	Lymphoma and multiple myeloma
202.56	LETTERER-SIWE DISEASE PELVIC	Medical review	Lymphoma and multiple myeloma
202.57	LETTERER-SIWE DISEASE SPLEEN	Medical review	Lymphoma and multiple myeloma
202.58	LETTERER-SIWE DISEASE MULT	Medical review	Lymphoma and multiple myeloma
202.6	MALIG MAST CELL TUMORS	Medical review	Lymphoma and multiple myeloma
202.60	MALIG MAST UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
202.61	MALIG MASTOCYTOSIS HEAD	Medical review	Lymphoma and multiple myeloma
202.62	MALIG MASTOCYTOSIS THORAX	Medical review	Lymphoma and multiple myeloma
202.63	MALIG MASTOCYTOSIS HICKAX MALIG MASTOCYTOSIS ABDOM	Medical review	Lymphoma and multiple myeloma
202.64	MALIG MASTOCTTOSIS ABDOM MALIG MASTOCYTOSIS AXILLA	Medical review	Lymphoma and multiple myeloma
202.65	MALIG MASTOCTTOSIS AXILLA MALIG MASTOCYTOSIS INGUIN	Medical review	Lymphoma and multiple myeloma
202.66	MALIG MASTOCYTOSIS INGOIN MALIG MASTOCYTOSIS PELVIC	Medical review	Lymphoma and multiple myeloma
202.67	MALIG MASTOCYTOSIS PELVIC MALIG MASTOCYTOSIS SPLEEN	Medical review	Lymphoma and multiple myeloma
202.67	MALIG MASTOCYTOSIS SPLEEN MALIG MASTOCYTOSIS MULT	Medical review	Lymphoma and multiple myeloma
202.00	IVIALIG IVIASTOCTTOSIS IVIULT	ivieuicai review	

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Table 1	(cont)		,
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
202.8	LYMPHOMAS NEC	Medical review	Lymphoma and multiple myeloma
202.80	OTHER LYMP UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
202.81	LYMPHOMAS NEC HEAD	Medical review	Lymphoma and multiple myeloma
202.82	LYMPHOMAS NEC THORAX	Medical review	Lymphoma and multiple myeloma
202.83	LYMPHOMAS NEC ABDOM	Medical review	Lymphoma and multiple myeloma
202.84	LYMPHOMAS NEC AXILLA	Medical review	Lymphoma and multiple myeloma
202.85	LYMPHOMAS NEC INGUIN	Medical review	Lymphoma and multiple myeloma
202.86	LYMPHOMAS NEC PELVIC	Medical review	Lymphoma and multiple myeloma
202.87	LYMPHOMAS NEC SPLEEN	Medical review	Lymphoma and multiple myeloma
202.88	LYMPHOMAS NEC MULT	Medical review	Lymphoma and multiple myeloma
202.9	MALIG NEO LYM/HIST TIS NEC	Medical review	Lymphoma and multiple myeloma
202.90	UNSPEC LYM UNSPEC EXT ORG	Medical review	Lymphoma and multiple myeloma
202.91	LYMPHOID MALIG NEC HEAD	Medical review	Lymphoma and multiple myeloma
202.92	LYMPHOID MALIG NEC THORAX	Medical review	Lymphoma and multiple myeloma
202.93	LYMPHOID MALIG NEC ABDOM	Medical review	Lymphoma and multiple myeloma
202.94	LYMPHOID MALIG NEC AXILLA	Medical review	Lymphoma and multiple myeloma
202.94	LYMPHOID MALIG NEC INGUIN	Medical review	Lymphoma and multiple myeloma
202.95	LYMPHOID MALIG NEC INGOIN LYMPHOID MALIG NEC PELVIC		
		Medical review	Lymphoma and multiple myeloma
202.97	LYMPHOID MALIG NEC SPLEEN	Medical review	Lymphoma and multiple myeloma
202.98	LYMPHOID MALIG NEC MULT	Medical review	Lymphoma and multiple myeloma
203	MULTIPLE MYELOMA ET AL	D - D	
	1411 TIBLE 10/EL 0144	Red Bone	
203.0	MULTIPLE MYELOMA	Marrow	Lymphoma and multiple myeloma
	=	Red Bone	
203.00	MULT MYELM W/O REMISSION	Marrow	Lymphoma and multiple myeloma
		Red Bone	
203.01	MULT MYELM W/REMISSION	Marrow	Lymphoma and multiple myeloma
		Red Bone	
203.1	PLASMA CELL LEUKEMIA	Marrow	Lymphoma and multiple myeloma
		Red Bone	
203.10	PLSM CELL LEUK W/O REMISSON	Marrow	Lymphoma and multiple myeloma
		Red Bone	
203.11	PLSM CELL LEUK W/REMISS	Marrow	Lymphoma and multiple myeloma
203.8	IMMUNOPROLIFERAT NEOPLASM NEC	Medical review	Lymphoma and multiple myeloma
203.80	OTHER IMNPRFL NPL W/O REMISS	Medical review	Lymphoma and multiple myeloma
203.81	OTHER IMNPRFL NPL W/REMISS	Medical review	Lymphoma and multiple myeloma
204	LYMPHOID LEUKEMIA		
204.0	ACUTE LYMPHOID LEUKEMIA	Medical review	Acute lymphoid leukemia
204.00	ACT LYM LEUK W/O REMISS	Medical review	Acute lymphoid leukemia
204.01	ACT LYM LEUK W/REMISS	Medical review	Acute lymphoid leukemia
			42 CFR 81.30 states this cancer is
			non-radiogenic for the purposes of
			EEOICPA and assigns zero
204.1	CHRONIC LYMPHOID LEUKEMIA	NA	probability of causation.
			42 CFR 81.30 states this cancer is
			non-radiogenic for the purposes of
	CHRONIC LYM LEUK W/O		EEOICPA and assigns zero
204.10	REMISSION	NA	probability of causation.
	30.01.	-	42 CFR 81.30 states this cancer is
			non-radiogenic for the purposes of
			EEOICPA and assigns zero
204.11	CHRONIC LYM LEUK W/REMISSION	NA	probability of causation.
	555 2 220K W/WEIMIGOIOIT	•	

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i abie 1	(cont)		
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
204.2	SUBACUTE LYMPHOID LEUKEMIA	Medical review	Leukemia, less CLL
204.20	SBAC LYM LEUK W/O REMISS	Medical review	Leukemia, less CLL
204.21	SBAC LYM LEUK W/REMISS	Medical review	Leukemia, less CLL
204.8	LYMPHOID LEUKEMIA NEC	Medical review	Leukemia, less CLL
204.80	OTHER LYM LEUK W/O REMISS	Medical review	Leukemia, less CLL
204.81	OTHER LYM LEUK W/REMISS	Medical review	Leukemia, less CLL
204.9	LYMPHOID LEUKEMIA NOS	Medical review	Acute lymphoid leukemia
204.90	UNS LYM LEUK W/O REMISS	Medical review	Acute lymphoid leukemia
204.91	UNS LYM LEUK W/REMISS	Medical review	Acute lymphoid leukemia
205	MYELOID LEUKEMIA		
			Leukemia, less CLL AND
205.0	ACUTE MYELOID LEUKEMIA	Red Bone Marrow	Acute myeloid leukemia
			Leukemia, less CLL AND
205.00	ACT MYL LEUK W/O REMISS	Red Bone Marrow	Acute myeloid leukemia
			Leukemia, less CLL AND
205.01	ACT MYL LEUK W/REMISS	Red Bone Marrow	Acute myeloid leukemia
			Leukemia, less CLL AND
205.1	CHRONIC MYELOID LEUKEMIA	Red Bone Marrow	Chronic myeloid leukemia
			Leukemia, less CLL AND
205.10	CHRONIC MYL LEUK W/O REMISS	Red Bone Marrow	Chronic myeloid leukemia
			Leukemia, less CLL AND
205.11	CHRONIC MYL LEUK W/REMISS	Red Bone Marrow	Chronic myeloid leukemia
205.2	SUBACUT MYELOID LEUKEMIA	Red Bone Marrow	Leukemia, less CLL
205.20	SBAC MYL LEUK W/O REMISS	Red Bone Marrow	Leukemia, less CLL
205.21	SBAC MYL LEUK W/REMISS	Red Bone Marrow	Leukemia, less CLL
205.3	MYELOID SARCOMA	Red Bone Marrow	Leukemia, less CLL
205.30	MYL SRCOMA W/O REMISS	Red Bone Marrow	Leukemia, less CLL
205.31	MYL SRCOMA W/REMISS	Red Bone Marrow	Leukemia, less CLL
205.8	MYELOID LEUKEMIA NEC	Red Bone Marrow	Leukemia, less CLL
205.80	OTHER MYL LEUK W/O REMISS	Red Bone Marrow	Leukemia, less CLL
205.81	OTHER MYL LEUK W/REMISS	Red Bone Marrow	Leukemia, less CLL
			Leukemia, less CLL AND
205.9	MYELOID LEUKEMIA NOS	Red Bone Marrow	Acute myeloid leukemia
			Leukemia, less CLL AND
205.90	UNS MYL LEUK W/O REMISS	Red Bone Marrow	Acute myeloid leukemia
			Leukemia, less CLL AND
205.91	UNS MYL LEUK W/REMISS	Red Bone Marrow	Acute myeloid leukemia

ICD-9 Code	i abie 1	(cont)		
206.0 MONOCYTIC LEUKEMIA Red Bone Marrow Leukemia, less CLL 206.00 ACUTE MONOCYTIC LEUKEMISS Red Bone Marrow Leukemia, less CLL 206.01 ACT MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.11 CHRONIC MONOCYTIC LEUKEMIA Red Bone Marrow Leukemia, less CLL 206.10 CHRONIC MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.11 CHRONIC MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.12 SUBAC MONOCYTIC LEUKEMIA Red Bone Marrow Leukemia, less CLL 206.20 SUBAC MONOCYTIC LEUKEMIA Red Bone Marrow Leukemia, less CLL 206.21 SBACUTE MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.20 SBACUTE MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.21 SBACUTE MONO LEUK W/REMISS Red Bone Marrow Leukemia, less CLL 206.80 OTHER MONO LEUK W/REMISS Red Bone Marrow Leukemia, less CLL 206.81 OTHER MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.81 OTHER MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.90 MONOCYTIC LEUKEMIA NOS Red Bone Marrow Leukemia, less CLL 206.91 UNS MONO LEUK W/O REMISS RED MARROW LEUKEMIA, less CLL 206.90 UNS MONO LEUK W/O REMISS RED MARROW LEUKEMIA, less CLL 206.91 UNS MONO LEUK W/O REMISS RED MARROW LEUKEMIA, less CLL 206.90 UNS MONO LEUK W/O REMISS RED MARROW LEUKEMIA, less CLL 207.01 ACUTE ERYTHREMIA RED MARROW LEUKEMIA, less CLL 207.01 ACUTE ERYTHREMIA RED MARROW LEUKEMIA, less CLL 207.01 ACUTE ERYTHREMIA RED MARROW LEUKEMIA, less CLL 207.10 CHRONIC ERYTHREMIA RED MARROW LEUKEMIA, less CLL 207.11 CHRONIC ERYTHREMIA RED MARROW LEUKEMIA, less CLL 207.12 MEGAKARYOCYTIC LEUKEMIA RED MARROW LEUKEMIA, less CLL 207.21 MEGAKARYOCYTIC LEUKEMIA RED MARROW LEUKEMIA, less CLL 207.22 MEGAKARYOCYTIC LEUKEMIA RED MARROW LEUKEMIA, less CLL 207.23 MEGRICARYOCYTIC LEUKEMIA RED RED MARROW LEUKEMIA, less CLL 207.24 MEGRICARYOCYTIC LEUKEMIA RED RED MARROW LEUKEMIA, less CLL 207.25 MEGRICARYOCYT	ICD-9		IMBA applicable	
206.0 ACUTE MONOCYTIC LEUKEMIA Red Bone Marrow Leukemia, less CLL 206.00 ACT MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.01 ACT MONO LEUK W/REMISS Red Bone Marrow Leukemia, less CLL 206.10 CHRONIC MONOCYTIC LEUKEMIA Red Bone Marrow Leukemia, less CLL 206.10 CHRONIC MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.11 CHRONIC MONO LEUK W/REMISS Red Bone Marrow Leukemia, less CLL 206.20 SUBAC MONOCYTIC LEUKEMIA Red Bone Marrow Leukemia, less CLL 206.20 SBACUTE MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.21 SBACUTE MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.80 MONOCYTIC LEUKEMIA NEC Red Bone Marrow Leukemia, less CLL 206.80 OTHER MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.81 OTHER MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.80 OTHER MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.90 MONOCYTIC LEUKEMIA NOS Red Bone Marrow Leukemia, less CLL 206.91 UNS MONO LEUK W/O REMISS RED BONE MARROW LEUKEMIA, less CLL 206.90 UNS MONO LEUK W/O REMISS RED BONE MARROW LEUKEMIA, less CLL 207.01 ACUTE ERYTHREMIA RED BONE MARROW LEUKEMIA, less CLL 207.00 ACUTE ERYTHREMIA RED BONE MARROW LEUKEMIA, less CLL 207.01 ACUTE ERYTHREMIA RED BONE MARROW LEUKEMIA, less CLL 207.01 CHRONIC ERYTHREMIA RED BONE MARROW LEUKEMIA, less CLL 207.11 CHRONIC ERYTHREMIA RED BONE MARROW LEUKEMIA, less CLL 207.11 CHRONIC ERYTHREMIA RED BONE MARROW LEUKEMIA, less CLL 207.11 CHRONIC ERYTHREMIA RED BONE MARROW LEUKEMIA, less CLL 207.11 CHRONIC ERYTHREMIA RED BONE MARROW LEUKEMIA, less CLL 207.11 CHRONIC ERYTHREMIA RED BONE MARROW LEUKEMIA, less CLL 207.11 CHRONIC ERYTHREMIA RED BONE MARROW LEUKEMIA, less CLL 207.12 MEGAKARYOCYTIC LEUKEMIA RED BONE MARROW LEUKEMIA, less CLL 207.22 MEGAKARYOCYTIC LEUKEMISS RED BONE MARROW LEUKEMIA, less CLL 207.23 MEGRAKARYOCYTIC LEUKEMIA RED BONE MARROW LEUKEMIA, less CLL 207.24 MEGRAKARYOCYTIC LEUKEMIA RED BONE MARROW LEUKEMIA, less CLL 207.25 MEGRAKARYOCYTIC LEUKEMIA RED BONE MARROW LEUKEMIA, less CLL 207.80 OTHER SPF LEUK			organ/tissue	IREP model
206.00 ACT MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.01 ACT MONO LEUK W/REMISS Red Bone Marrow Leukemia, less CLL 206.10 CHRONIC MONOCYTIC LEUKEMIA Red Bone Marrow Leukemia, less CLL 206.10 CHRONIC MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.11 CHRONIC MONO LEUK W/REMISS Red Bone Marrow Leukemia, less CLL 206.22 SUBAC MONOCYTIC LEUKEMIA Red Bone Marrow Leukemia, less CLL 206.20 SBACUTE MONO LEUK W/REMISS Red Bone Marrow Leukemia, less CLL 206.21 SBACUTE MONO LEUK W/REMISS Red Bone Marrow Leukemia, less CLL 206.81 MONOCYTIC LEUKEMIA NEC Red Bone Marrow Leukemia, less CLL 206.80 OTHER MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.81 OTHER MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.91 UNS MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.90 UNS MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 206.91 UNS MONO LEUK W/O REMISS Red Bone Marrow Leukemia, less CLL 207.01 ACT ERTH/ERYLK W/O REMISS Red Bone Marrow Leukemia, less CLL 207.01 ACT ERTH/ERYLK W/O REMISS RED MARROW LEUKEMIA, less CLL 207.01 ACT ERTH/ERYLK W/REMISS RED MORROW LEUKEMIA, less CLL 207.10 CHRONIC ERYTHREMIA RED MORROW LEUKEMIA, less CLL 207.11 CHRONIC ERYTHREMIA RED MORROW LEUKEMIA, less CLL 207.22 MEGAKARYOCYTIC LEUKEMIA RED MORROW LEUKEMIA, less CLL 207.21 MEGRAKARYOCYTIC LEUKEMIA RED MORROW LEUKEMIA, less CLL 207.22 MEGAKARYOCYTIC LEUKEMIA RED MORROW LEUKEMIA, less CLL 207.23 MEGRAKARYOCYTIC LEUKEMIA RED MORROW LEUKEMIA, less CLL 207.24 MEGRAKARYOCYTIC LEUKEMIA RED MORROW LEUKEMIA, less CLL 207.25 MEGRAKARYOCYTIC LEUKEMIA RED MORROW LEUKEMIA, less CLL 207.20 OTHER SPF LEUK W/O REMI				
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207.1CHRONIC ERYTHREMIARed Bone MarrowLeukemia, less CLL207.10CHRONIC ERYTHRM W/O REMISIONRed Bone MarrowLeukemia, less CLL207.11CHRONIC ERYTHRM W/REMISIONRed Bone MarrowLeukemia, less CLL207.2MEGAKARYOCYTIC LEUKEMIARed Bone MarrowLeukemia, less CLL207.20MGKRYCYT LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL207.21MGKRYCYT LEUK W/REMISSRed Bone MarrowLeukemia, less CLL207.8SPECIFIED LEUKEMIA NECRed Bone MarrowLeukemia, less CLL207.80OTHER SPF LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL	207.00	ACT ERTH/ERYLK W/O REMISS	Red Bone Marrow	Leukemia, less CLL
207.10CHRONIC ERYTHRM W/O REMISIONRed Bone MarrowLeukemia, less CLL207.11CHRONIC ERYTHRM W/REMISIONRed Bone MarrowLeukemia, less CLL207.2MEGAKARYOCYTIC LEUKEMIARed Bone MarrowLeukemia, less CLL207.20MGKRYCYT LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL207.21MGKRYCYT LEUK W/REMISSRed Bone MarrowLeukemia, less CLL207.8SPECIFIED LEUKEMIA NECRed Bone MarrowLeukemia, less CLL207.80OTHER SPF LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL	207.01	ACT ERTH/ERYLK W/REMISS	Red Bone Marrow	Leukemia, less CLL
207.11CHRONIC ERYTHRM W/REMISIONRed Bone MarrowLeukemia, less CLL207.2MEGAKARYOCYTIC LEUKEMIARed Bone MarrowLeukemia, less CLL207.20MGKRYCYT LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL207.21MGKRYCYT LEUK W/REMISSRed Bone MarrowLeukemia, less CLL207.8SPECIFIED LEUKEMIA NECRed Bone MarrowLeukemia, less CLL207.80OTHER SPF LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL	207.1	CHRONIC ERYTHREMIA	Red Bone Marrow	Leukemia, less CLL
207.2MEGAKARYOCYTIC LEUKEMIARed Bone MarrowLeukemia, less CLL207.20MGKRYCYT LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL207.21MGKRYCYT LEUK W/REMISSRed Bone MarrowLeukemia, less CLL207.8SPECIFIED LEUKEMIA NECRed Bone MarrowLeukemia, less CLL207.80OTHER SPF LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL	207.10	CHRONIC ERYTHRM W/O REMISION	Red Bone Marrow	Leukemia, less CLL
207.20MGKRYCYT LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL207.21MGKRYCYT LEUK W/REMISSRed Bone MarrowLeukemia, less CLL207.8SPECIFIED LEUKEMIA NECRed Bone MarrowLeukemia, less CLL207.80OTHER SPF LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL	207.11	CHRONIC ERYTHRM W/REMISION	Red Bone Marrow	Leukemia, less CLL
207.21MGKRYCYT LEUK W/REMISSRed Bone MarrowLeukemia, less CLL207.8SPECIFIED LEUKEMIA NECRed Bone MarrowLeukemia, less CLL207.80OTHER SPF LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL	207.2	MEGAKARYOCYTIC LEUKEMIA	Red Bone Marrow	Leukemia, less CLL
207.8SPECIFIED LEUKEMIA NECRed Bone MarrowLeukemia, less CLL207.80OTHER SPF LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL	207.20	MGKRYCYT LEUK W/O REMISS	Red Bone Marrow	Leukemia, less CLL
207.8SPECIFIED LEUKEMIA NECRed Bone MarrowLeukemia, less CLL207.80OTHER SPF LEUK W/O REMISSRed Bone MarrowLeukemia, less CLL	207.21	MGKRYCYT LEUK W/REMISS	Red Bone Marrow	Leukemia, less CLL
· · · · · · · · · · · · · · · · · · ·	207.8	SPECIFIED LEUKEMIA NEC	Red Bone Marrow	
207.81 OTHER SPF LEUK W/REMSION Red Bone Marrow Leukemia, less CLL	207.80	OTHER SPF LEUK W/O REMISS	Red Bone Marrow	Leukemia, less CLL
	207.81	OTHER SPF LEUK W/REMSION	Red Bone Marrow	Leukemia, less CLL

Table 1	(cont)		
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
208	LEUKEMIA-UNSPECIF CELL		
			Leukemia, less CLL AND
			Acute lymphoid leukemia AND
208.0	ACT LEUK UNS CL W/O REMISS	Red Bone Marrow	Acute myeloid leukemia
	THE TENTH OF THE T	1100 20110 111011011	Leukemia, less CLL AND
			Acute lymphoid leukemia AND
208.00	ACT LEUK UNS CL W/O REMISS	Red Bone Marrow	Acute myeloid leukemia
200.00	ACT LEGIT ONS CE W/O ITEMIOS	Ned Done Marrow	Leukemia, less CLL AND
			Acute lymphoid leukemia AND
208.01	ACT LEUK LING CL W/DEMICS	Red Bone Marrow	
206.01	ACT LEUK UNS CL W/REMISS	Red bolle Mallow	Acute myeloid leukemia
000.4	CUIDONIIC I ELIZEMIA NOC	Dad Dana Mamarr	Leukemia, less CLL AND
208.1	CHRONIC LEUKEMIA NOS	Red Bone Marrow	Chronic myeloid leukemia
			Leukemia, less CLL AND
208.10	CHRONIC LEUK UNS CL W/O REMISS	Red Bone Marrow	Chronic myeloid leukemia
			Leukemia, less CLL AND
208.11	CHRONIC LEUK UNS CL W/REMISS	Red Bone Marrow	Chronic myeloid leukemia
208.2	SUBACUTE LEUKEMIA NOS	Red Bone Marrow	Leukemia, less CLL
	SUBACUTE LEUKEMIA UNS CL		
208.21	W/REMISSION	Red Bone Marrow	Leukemia, less CLL
208.8	LEUKEMIA-UNSPEC CELL NEC	Red Bone Marrow	Leukemia, less CLL
208.80	OTHER LEUK UNS CL W/O REMISSION	Red Bone Marrow	Leukemia, less CLL
208.81	OTHER LEUK UNS CL W/REMISSION	Red Bone Marrow	Leukemia, less CLL
200.01		rtou Bono manon	Leukemia, less CLL AND
			Acute lymphoid leukemia AND
			Acute myeloid leukemia AND
208.9	LEUKEMIA-UNSPEC CELL NOS	Red Bone Marrow	Chronic myeloid leukemia
200.9	LEUNEIMIA-UNGFEC CELL NOS	Neu bone manow	Leukemia, less CLL AND
			Acute lymphoid leukemia AND
000.00	OTHER LEHICAGO W/O DEMICOION	D. I D M	Acute myeloid leukemia AND
208.90	OTHER LEUK NOS W/O REMISSION	Red Bone Marrow	Chronic myeloid leukemia
			Leukemia, less CLL AND
			Acute lymphoid leukemia AND
			Acute myeloid leukemia AND
208.91	OTHER LEUK NOS W/REMISSION	Red Bone Marrow	Chronic myeloid leukemia
230	CA IN SITU DIGESTIVE ORG		
		Highest non-met	
230.0	CA IN SITU ORAL CAV/PHAR	organ/tissue	Oral cav. and pharynx
230.1	CA IN SITU ESOPHAGUS	Esophagus	Esophagus
230.2	CA IN SITU STOMACH	Stomach	Stomach
230.3	CA IN SITU COLON	Colon	Colon
230.4	CA IN SITU RECTUM	LLI	Rectum
230.5	CA IN SITU ANAL CANAL	LLI	Rectum
230.6	CA IN SITU ANUS NOS	LLI	Rectum
230.7	CA IN SITU BOWEL NEC/NOS	Colon	All digestive
	CA IN SITU BOWEL NEC/NOS CA IN SITU LIVER/BILIARY	Liver	
230.8	CA IN SITU LIVER/DILIARY		Liver
000.0	CA IN CITU OI NEC/NCC	Highest non-met	All discosting
230.9	CA IN SITU GI NEC/NOS	organ/tissue	All digestive

	i (cont)		
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
231	CA IN SITU RESPIRATORY		
231.0	CA IN SITU LARYNX	ET2	Other respiratory
231.1	CA IN SITU TRACHEA	BB	Lung
231.2	CA IN SITU BRONCHUS/LUNG	Lung	Lung
231.8	CA IN SITU RESP SYS NEC	Lung	Other respiratory
231.9	CA IN SITU RESP SYS NOS	Lung	Other respiratory
232	CARCINOMA IN SITU SKIN		- Carrot respiratory
202	CHICATONIA II COLO CIAIN		Malignant melanoma AND
232.0	CA IN SITU SKIN LIP	Skin	Non-melanoma skin-Squamous cell
202.0	OA III OH O OKIII EII	ORIT	Malignant melanoma AND
232.1	CA IN SITU EYELID	Skin	Non-melanoma skin-Squamous cell
232.1	CA IN SITUETELID	SKIII	Malignant melanoma AND
222.2	CA IN CITH CKIN FAD	Clain	
232.2	CA IN SITU SKIN EAR	Skin	Non-melanoma skin-Squamous cell
000.0	OA IN OUT I OKIN FACE NEO	01.5	Malignant melanoma AND
232.3	CA IN SITU SKIN FACE NEC	Skin	Non-melanoma skin-Squamous cell
		.	Malignant melanoma AND
232.4	CA IN SITU SCALP	Skin	Non-melanoma skin-Squamous cell
			Malignant melanoma AND
232.5	CA IN SITU SKIN TRUNK	Skin	Non-melanoma skin-Squamous cell
			Malignant melanoma AND
232.6	CA IN SITU SKIN ARM	Skin	Non-melanoma skin-Squamous cell
			Malignant melanoma AND
232.7	CA IN SITU SKIN LEG	Skin	Non-melanoma skin-Squamous cell
			Malignant melanoma AND
232.8	CA IN SITU SKIN NEC	Skin	Non-melanoma skin-Squamous cell
			Malignant melanoma AND
232.9	CA IN SITU SKIN NOS	Skin	Non-melanoma skin-Squamous cell
233	CA IN SITU BREAST/GU		
233.0	CA IN SITU BREAST	Breast	Breast
233.1	CA IN SITU CERVIX UTERI	Uterus	Female genitalia less ovary
233.2	CA IN SITU UTERUS NEC	Uterus	Female genitalia less ovary
200.2	0,1,11,0,11,0,0,1,12,0	Otor do	Female genitalia less ovary AND
233.3	CA IN SITU FEM GEN NEC	Uterus	Ovary
200.0	CALITY OFF OFF EINFOLD TALE	Highest non-met	Svary
233.4	CA IN SITU PROSTATE	organ/tissue	All male genitalia
233.5	CA IN SITU PENIS	Testes	All male genitalia All male genitalia
	CA IN SITU PENIS CA IN SITU MALE GEN NEC		
233.6		Testes	All male genitalia
233.7	CA IN SITU BLADDER	Bladder	Bladder
233.9	CA IN SITU URINARY NEC	Medical review	Urinary organs less bladder
234	CA IN SITU NEC/NOS	- 	<u> </u>
234.0	CA IN SITU EYE	Brain	Eye
1		Highest non-met	
234.8	CA IN SITU NEC	organ/tissue	Other and ill-defined sites
1		Highest non-met	
234.9	CA IN SITU NOS	organ/tissue	Other and ill-defined sites

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Table 1	(cont)		1
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
235	UNCERT BEHAV NEOPLASM GI/RESP		
		Highest non-met	
235.0	UNCERT BEHAV NEOPLASM SALIVARY	organ/tissue	Oral cav. and pharynx
		Highest non-met	
235.1	UNCERT BEHAV NEOPLASM ORAL/PHAR	organ/tissue	Oral cav. and pharynx
	UNCERT BEHAV NEOPLASM INTESTINE		
235.2	(stomach)	Stomach	Stomach
	UNCERT BEHAV NEOPLASM INTESTINE		
235.2	(colon)	Colon	Colon
	UNCERT BEHAV NEOPLASM INTESTINE		
235.2	(rectum)	LLI	Rectum
235.3	UNCÉRT BEHAV NEOPLASM LIVER	Liver	Liver
		Highest non-met	
235.4	UNCERT BEHAV NEOPLASM PERITONEUM	organ/tissue	All digestive
235.5	UNCERT BEHAV NEOPLASM GI NEC	Colon	All digestive
235.6	UNCERT BEHAV NEOPLASM LARYNX	ET2	Other respiratory
235.7	UNCERT BEHAV NEOPLASM LUNG	Lung	Lung
235.8	UNCERT BEHAV NEOPLASM PLEURA	Lung	Other respiratory
235.9	UNCERT BEHAV NEOPLASM RESP NEC	Lung	Other respiratory
236	UNCERT BEHAV NEOPLASM GU	9	Care respirately
236.0	UNCERT BEHAV NEOPLASM UTERUS	Uterus	Female genitalia, less ovary
236.1	UNCERT BEHAV NEOPLASM PLACENTA	Uterus	Female genitalia, less ovary
236.2	UNCERT BEHAV NEOPLASM OVARY	Ovaries	Ovary
236.3	UNCERT BEHAV NEOPLASM FEMALE NEC	Medical review	Female genitalia, less ovary
236.4	UNCERT BEHAV NEOPLASM TESTIS	Testes	All male genitalia
200.1	CHOCKI BELLIKY NEGI EKOM TEGILO	Highest non-met	7 til Tildio goriitalia
236.5	UNCERT BEHAV NEOPLASM PROSTATE	organ/tissue	All male genitalia
236.6	UNCERT BEHAV NEOPLASM MALE NEC	Testes	All male genitalia
236.7	UNCERT BEHAV NEOPLASM BLADDER	Bladder	Bladder
236.9	UNCERT BEHAV NEOPLASM OTHER URINAR	Medical review	Urinary organs less bladder
236.90	UNCERT BEHAV NEOPLASM URINAR NOS	Medical review	Urinary organs less bladder
236.91	UNCERT BEHAV NEOPLASM KIDNEY	Medical review	Urinary organs less bladder
236.99	UNCERT BEHAV NEOPLASM URINAR NEC	Medical review	Urinary organs less bladder
237	UNCER NEOPLASM ENDOCRINE/NERV	Medical Teview	Officially organis less bladder
237.0	UNCERT BEHAV NEOPLASM PITUITARY	Brain	Thyroid
237.0	UNCERT BEHAV NEOPLASM PHOHARY UNCERT BEHAV NEOPLASM PINEAL	Brain	Thyroid
	UNCERT BEHAV NEOPLASM ADRENAL		Urinary organs less bladder
237.2 237.3	UNCERT BEHAV NEOPLASM ADRENAL UNCERT BEHAV NEOPLASM PARAGANG	Adrenal	Nervous system
		Brain Modical review	-
237.4	UNCER NEOPLASM ENDOCRINE NEC UNCERT BEH NEOPLASM BRAIN/SPINAL	Medical review	Thyroid Nervous system
237.5		Brain	*
237.6	UNCERT BEHAV NEOPLASM MENINGES	Brain	Nervous system
237.7	NEUROFIBROMATOSIS	Medical review	Nervous system
237.70	NEUROFIBROMATOSIS NOS	Medical review	Nervous system
237.71	NEUROFIBROMATOSIS TYPE I	Medical review	Nervous system
237.72	NEUROFIBROMATOSIS TYP II	Medical review	Nervous system
237.9	UNCERT BEH NEOPLASM NERV SYS NEC	Medical review	Nervous system

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	(cont)		
ICD-9		IMBA applicable	
Code	Cancer code explanation	organ/tissue	IREP model
238	UNCERT BEHAV NEOPLASM NEC/NOS		
238.0	UNCERT BEHAV NEOPLASM BONE	Medical review	Bone
	UNCERT BEHAV NEOPLASM SOFT		
238.1	TISSU	Medical review	Connective Tissue
			Malignant melanoma AND
238.2	UNCERT BEHAV NEOPLASM SKIN	Medical review	non-melanoma skin-Basal cell
238.3	UNCERT BEHAV NEOPLASM BREAST	Medical review	Breast
		Red Bone	
238.4	POLYCYTHEMIA	Marrow	Bone
		Red Bone	
238.5	MASTOCYTOMA NOS	Marrow	Lymphoma and multiple myeloma
		Red Bone	
238.6	PLASMACYTOMA NOS	Marrow	Lymphoma and multiple myeloma
		Red Bone	
238.7	LYMPHOPROLIFERAT DISEASE NOS	Marrow	Lymphoma and multiple myeloma
238.8	UNCERT BEHAVIOR NEOPLASM NEC	Medical review	Other and ill-defined sites
238.9	UNCERT BEHAVIOR NEOPLASM NOS	Medical review	Other and ill-defined sites
239	UNSPECIFIED NEOPLASM		
239.0	DIGESTIVE NEOPLASM NOS	Medical review	All digestive
			Lung AND
239.1	RESPIRATORY NEOPLASM NOS	Medical review	Other respiratory
239.2	BONE/SKIN NEOPLASM NOS (Bone)	Medical review	Bone
239.2	BONE/SKIN NEOPLASM NOS (Skin)	Medical review	Non-melanoma skin-Basal cell
239.3	BREAST NEOPLASM NOS	Breast	Breast
239.4	BLADDER NEOPLASM NOS	Bladder	Bladder
			Female genitalia less ovary AND
			Ovary AND
239.5	OTHER GU NEOPLASM NOS (Female)	Medical review	All urinary organs
			All male genitalia AND
239.5	OTHER GU NEOPLASM NOS (Male)	Medical review	All urinary organs
239.6	BRAIN NEOPLASM NOS	Brain	Nervous system
239.7	BRAIN/NERV NEOPLASM NOS	Medical review	Nervous system
			Thyroid AND
239.7	ENDOCRINE NOS	Medical review	Other endocrine glands
239.8	NEOPLASM NOS, SITE NEC	Medical review	Other and ill-defined sites
239.9	NEOPLASM NOS	Medical review	Other and ill-defined sites
289	OTHER SPECIFIED BLOOD DISORDER		
_	OTHER SPECIFIED DISEASES OF BLOOD	Red Bone	
289.8	AND BLOOD-FORMING ORGANS	Marrow	Bone

4.0 <u>Discussion</u>

4.1 <u>Highest Non-metabolic organ</u>

The dose estimate for a number of tissues is based on the highest non-metabolic organ dose, designated as "Highest non-met organ/tissue" in the table. Metabolic organs are those that are specifically modeled by the ICRP for a particular element. The biokinetic models are based on the behavior of the particular element in the body, so the metabolic organs vary with the element of interest. The metabolic organs also include the gastrointestinal tract (ICRP 30) and, in the case of

inhalation, the respiratory tract (ICRP 66).

For radionuclides that primarily emit alpha or beta radiation, the soft tissue compartment becomes the primary recipient of dose. This compartment contains all the organs not specifically accounted for in the metabolic model. This compartment accounts for the dose delivered by material actually deposited in that tissue. An additional source of exposure to the tissue is known as photon cross-irradiation. This cross-irradiation is the exposure to a tissue from photons originating in other tissues.

When the energy emitted by a radionuclide is primarily alpha or beta radiation, the soft tissue compartment becomes the primary source of dose. Under this scenario most of the non-metabolic organs receive the same dose. For radionuclides where photon emissions are a major source of energy emitted, the non-metabolic organ doses can vary due to their relative proximity to the metabolic organs in which the radionuclides concentrate. IMBA calculates the dose from both means of irradiation and sums them. For many radionuclides (predominately alpha and beta emitters) this will cause only minor differences in doses to non-metabolic organs, so choosing the highest is a realistic assumption with only minor (if any) overestimation.

It is conceivable that a situation could arise where a photon emitting radionuclide causes a large difference in doses delivered to non-metabolic organs. In accordance with the Internal Dose Reconstruction Implementation Guideline, it is acceptable in these situations to base the dose on an organ that is not the highest non-metabolic organ. The choice in these cases should be based on the proximity of the model organ to the actual organ of interest.

4.2 Medical review

Due to the complexity of determining the appropriate organ/tissue for some ICD-9 code cancers, a medical review by an ORAU team physician is required to determine the organ/tissue to use in IMBA for those cancers. These cancers have been designated in the table as "Medical review." The ORAU team physician will recommend to the dose reconstructor the appropriate organ/tissue for dose estimation purposes.

4.3 <u>Bladder</u>

When the term "Bladder" is used in the table with no modifier, this represents the urinary bladder. When the organ of interest is the gallbladder, "Gallbladder" is specified clearly in the table above.

5.0 References

- 1. 42 CFR § 81, Guidelines for Determining the Probability of Causation Under the Energy Employees Occupational Illness Compensation Program Act of 2000; Final Rule, Federal Register/Vol.67, No. 85/Thursday, May 2, 2002, p 22296
- NIOSH, (2002) Internal Dose Reconstruction Implementation Guideline, Rev 0, OCAS-IG-002, National Institute for Occupational Safety and Health, Office of Compensation Analysis and Support, Cincinnati, Ohio, August 2002
- ACJ & Associates and the UK National Radiological Protection Board, Integrated Modules for Bioassay Analysis, (IMBA), Software produced for NIOSH-OCAS as part of the EEOICPA Program, UK, July 2003

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4. NIOSH, NIOSH-Interactive RadioEpidemiological Program (NIOSH-IREP), Technical Documentation, Office of Compensation Analysis and Support, Cincinnati, Ohio, June 2002