


ICD-10-CM Introduction
Linda Mulvihill, RHIT, CTR
GATRA 2011




"ICD-10-CM Implementation Team for Cancer Registrars"
workgroup of the NAACCR Education Committee
Jennifer Ruhl (SEER), Chair

- › Amy Baldwin-Stephens (CT)
- › Tresa Denetclaw (NM)
- › Debra Douglas (TX)
- › Lynda Douglas (NPCR)
- › Mary Drago (CT)
- › Greer Gay (CoC)
- › Laurie Herbert (NCRA)
- › Karen Hussain (CA)
- › Lois Inferrera (CA)
- › Celia Lange (AHIMA)
- › Meryl Leventhal (CA)
- › Linda Mulvihill (NPCR)
- › Serban Negoita (Westat)
- › Jerri Linn Phillips (CoC)

ICD-10-CM Workgroup

- › Liz Ramirez (NM)
- › Wendy Scharber (Other)
- › Sarah Sherman-VanDeventer (MD)
- › Laine Suggs (NM)
- › Laurie Thor (PRECYSE)
- › Shannon Vann (NAACCR)



ICD-10-CM Workgroup Background

- ▶ Registrars
 - Hospital
 - Central
 - Independent contractors
- ▶ Health Information
 - Certified Coding Specialists (CCS)
 - RHITs
 - RHIA's
- ▶ Standard Setters
 - SEER
 - NPCR
 - ACoS/CoC
 - NAACCR
 - NCRA
 - AHIMA

Most members are CTRs

All members are volunteers



ICD-10-CM FACTS

- ▶ ICD = International Classification of Disease
 - World Health Organization Publication (WHO)
- ▶ US adaptation of ICD-10 = ICD-10-CM
 - "Clinical Modification"
 - US Only!
- ▶ Implementation date October 1, 2013
- ▶ Replaces ICD-9-CM

Some background on ICD-10


- › ICD-10 released by WHO in 1992
- › Worldwide (except for US) for diagnosis coding
- › United States for cause of death 1999

Why is ICD-10-CM necessary?

- › Continuous advances in modern medical science
- › Need for more accurate and specific details in coding
- › Many ICD-9 categories are filled
- › Yearly updates of ICD-9 cannot keep pace with new technologies
- › New understanding of disease and disease processes
- › ICD-9 is 30 years old

Organization of Code System


- › ICD-10-CM has 3-7 characters, and are not case sensitive
- › Character 1 is alpha (all letters are used, except U)
- › Character 2 is numeric
- › Characters 3-7 are alpha or numeric
 - I10 – Essential (primary) hypertension
 - A69.20 – Lyme disease, unspecified
 - O9A.311 – Physical abuse complicating pregnancy, first trimester
 - S42.001A – Fracture of unspecified part of right clavicle, initial encounter for closed fracture



- ▶ ICD-10-CM is still in DRAFT mode
- ▶ Will not be finalized until 2013


ICD-10 to ICDO-3

- ▶ ICD-9 - ICDO-1 → 1976 - 1991
- ▶ ICD-10 - ICDO-2 → 1992 - 2001
- ▶ ICD-10 - ICDO-3 → 2001 - current




Resources for Registrars

- ▶ 2012 ICD-9-CM case finding list
- ▶ ICD-10-CM equivalent codes/case finding
- ▶ 2012 ICD-10 (cause of death) casefinding list
- ▶ ICD-9-CM to ICD-10
- ▶ ICD-10 to ICD-9-CM




Under Review



Under Development

Resources for Registrars

- › ICD-10 to ICD-10-CM
- › ICD-10-CM to ICD-10
- › ICD-O-3 to ICD-10-CM
- › Top 100 list for co-morbidities and complications
- › List for procedures (ICD-10-PCS)



Planned


Other Thoughts

The GEM's

- › General Equivalency Mappings
 - The following mappings have already been done
 - ICD-9-CM to ICD-10-CM
 - ICD-10-CM to ICD-9-CM
 - ICD-9-CM procedures to ICD-10-PCS
 - ICD-10-PCS to ICD-9-CM procedures

The GEM's

- › Planned resources for cancer registries will be based on the GEMs
- › ICD-9-CM to ICD-10-CM *cannot be direct conversions*
- › *Like a compass, the GEMs are only a guide*



IMPORTANT NOTE!!



- ▶ This presentation is NOT intended to instruct you how to code primary site and/or histology
- ▶ This presentation is intended to help you recognize the different coding systems and how they relate to each other
- ▶ Rules for coding in the cancer registry are not the same for medical coding



ICD-10-CM Codes

- ▶ Are very specific
- ▶ Will require better clinical documentation
- ▶ Include laterality for bilateral organs
 - Breast
 - Lung
 - Kidney
 - Testes
 - Eye, etc.



A whirlwind tour of the "C" codes



- ▶▶ With comparisons to ICD-O-3, ICD-9-CM, ICD-10 and ICD-10-CM

Lip, Oral Cavity and Pharynx (C00-C14)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C00._Lip	140._	C00._	C00._
C01.9-Base of Tongue	141.0	C01	C01
C02._-Other and unspecified parts of tongue	141._	C02._	C02._
C03._-Gum	143._	C03._	C03._
C04._-Floor of Mouth	144._	C04._	C04._
C05._-Palate	145._	C05._	C05._
C06._-Other and unspecified parts of mouth	145._	C06._	C06._
C06.8-Overlapping lesion of other and unspecified parts of mouth	145.8	C06.8	C06.80 C06.89

Lip, Oral Cavity and Pharynx (C00-C14)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C07.9-Parotid gland	142.0	C07	C07
C08._-Other and unspecified major salivary glands	142._	C08._	C08._ (≠C08.8)
C09._-Tonsil	146._	C09._	C09._
C10._-Oropharynx	146._	C10._	C10._
C11._-Nasopharynx	147._	C11._	C11._
C12.9-Pyiform Sinus	148.1	C12	C12
C13._-Hypopharynx	148._	C13._	C13._
C14-Other and ill-defined sites in lip, oral cavity and pharynx	149._	C14._	C14._

Digestive Organs (C15)

- Esophagus (C15)
 - C15.0, C15.1 and C15.2 do not exist in ICD-10-CM

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C15.0	150.0	C15.0	C15.3
C15.1	150.1	C15.1	C15.4
C15.2	150.2	C15.2	C15.5
C15.3	150.3	C15.3	C15.3
C15.4	150.4	C15.4	C15.4
C15.5	150.5	C15.5	C15.5
C15.8	150.8	C15.8	C15.8
C15.9	150.9	C15.9	C15.9

Digestive Organs (C16–C26)

ICD-0-3	ICD-9-CM	ICD-10	ICD-10-CM
C16._-Stomach	151._	C16._	C16._
C17._-Small Intestine	152._	C17._	C17._
C18._-Colon	153._	C18._	C18._
C19.9-Rectosigmoid junction	154.0	C19	C19
C20.9-Rectum	154.1	C20	C20
C21._-Anus and anal canal	154._	C21._	C21._
C23.9-Gallbladder	156.0	C23	C23
C24._-Other and unspecified parts of biliary tract	156._	C24._	C24._
C25._-Pancreas	157._	C25._	C25._
C26._-Other and ill-defined digestive organs	159._	C26._	C26._ (+C26.8)

Digestive Organs (C22)

› Liver

ICD-0-3	ICD-10-CM
C22.0 + carcinoma histology	C22.0-Liver cell carcinoma
C22.1 + appropriate histology	C22.1-Intrahepatic bile duct carcinoma
C22.0 + histology 8970/3	C22.2-Hepatoblastoma
C22.0 + histology 9120/3	C22.3-Angiosarcoma of liver
C22.0 + sarcoma histology	C22.4-Other sarcomas of liver
C22.0 + histology (not listed above)	C22.7-Other specified carcinomas of liver
C22.0 + unknown histology	C22.9-Liver, unspecified

Spleen

Other and ill-defined digestive organs

- › ICD-10-CM (and ICD-10) C26.1
- › ICD-9-CM 159.1

Hematopoietic/Reticuloendothelial

- › ICD-0-3 C42.2

Neuroendocrine tumors (histologies 8153, 8240–8242, 8246, 8249)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C80.9 + histology- "Unspecified site"	209.20	C80.9	C7a.00
C17._-Small Intestine + histology	209.0_	C17._	C7a.01_
C18._-C20.9-Colon and Rectum + histology	209.1	C18._- C20.9	C7a.02_
Other primary site codes + histology "Other sites"	209.2_	Other primary site codes	C7a.09_

Respiratory System and Intrathoracic Organs (C30–C39)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C30._-Nasal cavity & Middle Ear	160._	C30._	C30._
C31._-Accessory Sinuses	160._	C31._	C31._
C32._-Larynx	161.0	C32._	C32._
C33.9-Trachea	162	C33	C33
C37.9-Thymus	164.0	C37	C37
C38._-Heart, Mediastinum	164._	C38._	C38._
C39._-Other and ill defined sites within respiratory system and intrathoracic organs	165._	C39._	C39._

Respiratory System and Intrathoracic Organs–Lung

New ICD-10-CM codes document laterality

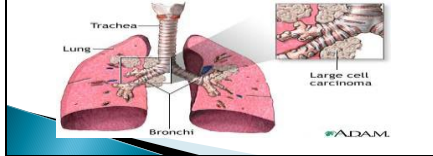
C34.0 – C34.9

▶ Laterality codes

- Unspecified side (last digit 0)
- Right side (last digit 1)
- Left side (last digit 2)

Respiratory System and Intrathoracic Organs–Lung

- ICD-10-CM right upper lobe
C34.11
- ICD-O-3 right upper lobe
C34.1 + laterality code 1



Respiratory System and Intrathoracic Organs–Lung

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C34.0–Main bronchus	162.2	C34.0	C34.00, C34.01, C34.02
C34.1–Upper lobe, lung	162.3	C34.1	C34.10, C34.11, C34.12
C34.2–Middle lobe, lung	162.4	C34.2	C34.2 (right lung only)
C34.3–Lower lobe, lung	162.5	C34.3	C34.30, C34.31, C34.32
C34.8–Overlapping lesion of lung	162.8	C34.8	C34.80, C34.81, C34.82
C34.9–Lung, NOS	162.9	C34.9	C34.90, C34.91, C34.92

Respiratory System and Intrathoracic Organs–Pleura

Mesothelioma

- ICD-10-CM (and ICD-10)
 - C45.0–Mesothelioma of Pleura
- ICD-9-CM code 163._
 - 163–Malignant neoplasm of pleura
- ICD-O-3 code is C38.4 + histology

Mesothelioma

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
Mesothelioma of pleura (C38.4 + 905_ histology)	163.9	C45.0	C45.0
Mesothelioma of peritoneum (C48._ + 905_ histology)	158.8	C45.1	C45.1
Mesothelioma of pericardium (C38.0 + 905_ histology)	164.1	C45.2	C45.2
Mesothelioma of other sites (primary site + 905_ histology)	195.8	C45.7	C45.7
Mesothelioma of unspecified site (C38.4 + 905_ histology)	199.1	C45.9	C45.9

Bones, Joints and Articular Cartilage (C40-C41)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C40._-Bones, joints and articular cartilage of limb	170._	C40._	C40._
Laterality codes applicable for all subsites in C40._ 0-unspecified side 1-right side 2-left side			
C41._-Bones, joints and articular cartilage of other and unspecified sites	170._	C41._	C41._

Hematopoietic and Reticuloendothelial Systems (C42)

› C42 only occurs in ICD-O-3

› Leukemias, Immunoproliferative diseases and MDS are collected:

- Primary site code: C42.1
- Specific histology (9731-9992)

› Note: Due to complexity of these diseases, the complete mapping of the hematopoietic codes will be done in a separate presentation

Hematopoietic and Reticuloendothelial Systems (C42)

Disease	ICD-9-CM	ICD-10-CM
Immunoproliferative diseases	203.8_	C88_
Multiple myeloma/Plasma Cell Leukemia	203._	C90_
Lymphoid leukemia	204._	C91_
Myeloid leukemia	205._	C92_
Monocytic leukemia	206._	C93_
Other leukemias	207._	C94_
Unspecified leukemias	208._	C95_
Other Hematopoietic diseases	202._	C96_
Myelodysplastic syndromes	238.7_	D47_

Skin (Melanoma, Merkel Cell, and all other histologies) (C44)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
Melanoma (primary site + histology)	172._	C43._	C43_... (Laterality codes apply for some subsites)
Merkel cell (primary site + histology)	209.3_	C44._	C44a_... (Laterality codes apply for some subsites)
Other histologies (C44._ + histology)	173._	C44._	C44_... (Laterality codes apply for some subsites)
Kaposi sarcoma of skin (C44._ site + 9140/3)	176.0	C46.0	C46.0

Kaposi Sarcoma (all other sites)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
KS of soft tissue (C49._ + 9140/3)	176.1	C46.1	C46.1
KS of palate (C05._ + 9140/3)	176.2	C46.2	C46.2
KS of lymph nodes (C77._ + 9140/3)	176.5	C46.3	C46.3
KS of GI sites (primary site + 9140/3)	176.4	C46.7	C46.4
KS of Lung (C34._ + 9140/3)	176.8	C46.7	C46.5_ (Laterality codes apply)
KS of multiple organs	176.8	C46.8	C46.9
KS of unspecified site (C44.9 + 9140/3)	176.9	C46.9	C46.9

Major change for 2012!

ICD-9-CM code 173 Skin (except Merkel cell and melanoma)

Fifth digit added to 173,___:

- 0-Unspecified malignant neoplasm of skin
- 1-Basal cell carcinoma of skin
- 2-Squamous cell carcinoma of skin
- 9-Other specified malignant neoplasm of skin

► ICD-10-CM code equivalents have not been released yet

Peripheral Nerves, Retroperitoneum, Peritoneum and Soft Tissue (C47-C49)

ICD-9-CM	ICD-9-CM	ICD-10	ICD-10-CM
C47.-Peripheral nerves and Autonomic nervous system	171..	C47..	C47... (Laterality codes apply to C47.1 and C47.2)
C48.-Retroperitoneum and Peritoneum	158..	C48..	C48..
C49.-Connective, subcutaneous and other soft tissues	171..	C49..	C49... (Laterality codes apply to C49.1 and C49.2)

Breast (C50)

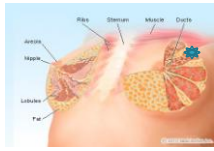
- There are 54 ICD-10-CM codes for Breast!
- All ICD-10-CM Breast cancer codes are 6 characters long
 - C-1st character
 - Category code (50)-2nd and 3rd character
 - Subcategory code (1-9)-4th character
 - Female or Male (1 or 2)-5th character
 - Laterality code (1, 2, 9)-6th character

Breast (C50)

Breast cancer UOQ, left breast, female

ICD-10-CM
C50.412

ICDO-3
C50.4



Breast

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
Female, Right, Nipple of Breast (C50.0, Sex 2, Laterality 1)	174.0	C50.0	C50.011
Male, Right, Nipple of Breast (C50.0, Sex 1, Laterality 1)	175.0	C50.0	C50.021
Female, Left, UOQ, Breast (C50.4, Sex 2, Laterality 2)	174.4	C50.4	C50.412
Male, Left, UOQ, Breast (C50.4, Sex 1, Laterality 2)	175.9	C50.4	C50.422
Female, unspecified breast (C50.9, Sex 2, Laterality 9)	174.9	C50.9	C50.919
Male, unspecified breast (C50.9, Sex 1, Laterality 9)	175.9	C50.9	C50.929

Female Genital Organs (C51-C58)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C51.-Vulva	184._	C51._	C51._
C52.9-Vagina	184.0	C52	C52
C53.-Cervix Uteri	180._	C53._	C53._
C54.-Corpus Uteri	182._	C54._	C54._
C55.9-Uterus, NOS	179	C55	C55
C56.-Ovary	183.0	C56	C56.0, C56.1, C56.9
C57.-Other and unspecified female genital organs	183._	C57._	C57._ (Laterality codes apply to C57.0-C57.2)
C58.0-Placenta	181	C58	C58

Male Genital Organs (C60–C63)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C60._ -Penis	187._	C60._	C60._
C61._ -Prostate	185	C61	C61
C62._ -Testis	186._	C62._	C62._ (Laterality codes apply)
C63._ -Other and unspecified male genital organs	187._	C63._	C63._ (Laterality codes apply to C63.0 and C63.1)

Urinary tract (C64–C68)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C64.9-Kidney	189.0	C64.9	C64.0, C64.1, C64.9
C65.9-Renal Pelvis	189.1	C65.9	C65.0, C65.1, C65.9
C66.9-Ureter	189.2	C66.9	C66.0, C66.1, C66.9
C67._ -Bladder	188._	C67._	C67._
C68._ -Other and unspecified urinary organs	189._	C68._	C68._

Eye, Brain and Other Parts of Central Nervous System(C69–C72)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C69._ -Eye and Adnexa	190._	C69._	C69._ (Laterality codes apply)
C70._ -Meninges	192._	C70._	C70._
C71._ -Brain	191._	C71._	C71._
C72._ -Spinal cord, cranial nerves, and other parts of central nervous system	192._	C72._	C72._ (Laterality codes apply to C72.2-C72.5) = C72.8

Thyroid and Other Endocrine Glands, Ill Defined Sites (C73–C76)

ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
C73.9–Thyroid gland	193	C73	C73
C74.–Adrenal gland	194.0	C74.	C74.____ (Laterality codes apply)
C75.–Other endocrine glands and related structures	194.	C75.	C75.____
C76.–Other and ill-defined sites	195.	C76.	C76.____ (Laterality codes apply to C76.4 and C76.5)

Lymph Nodes (C77)

Secondary and unspecified malignant neoplasm of lymph nodes

ICD-10-CM and ICD-10
ICD-9-CM

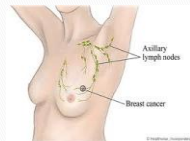
(Usually) Primary Lymphoma

ICDO-3

Breast Cancer, node positive

- ▶ ICD-10-CM
 - C50.412
 - C77.3

- ▶ ICD-9-CM
 - 174.4
 - 196.3



Breast, UOQ, female, left

Secondary, malignant neoplasm axilla and upper limb lymph nodes

Lymphomas in ICD-9-CM and ICD-10-CM

Disease	ICD-9-CM	ICD-10-CM
Hodgkin's disease	201...	C81...
Other malignant neoplasms of lymphoid and histiocytic tissue	202...	C82...
Non follicular lymphoma	200...	C83...
Mature T/NK-cell lymphoma	202...	C84...
Other and unspecified types of non Hodgkin's lymphoma	200..., 202...	C85...
Other specified types of T/NK-cell lymphoma	200..., 202...	C86...

Unknown primary site (C809)

› Different definitions of unknown primary site

Definition	ICD-O-3	ICD-9-CM	ICD-10	ICD-10-CM
Disseminated, malignant neoplasm (carcinomatosis)	C80.9, unless primary site can be determined	199.0	C80	C80.0
Malignant (primary) neoplasm, unspecified	C80.9, unless primary site can be determined	199.1	C80	C80.1
Malignant neoplasm associated with transplanted organ	C80.9, unless primary site can be determined	199.2	C80	C80.2

Secondary cancers

Coded as extension or mets in the cancer registry

Definition	ICD-9-CM	ICD-10	ICD-10-CM
Sec. malign neoplasm of respiratory/digestive	197...	C78...	C78...
Sec. malign neoplasm of other sites	198...	C79...	C79...
Sec. malign neoplasm of carcinoids	209.7...	C79...	C7b...

Summary

- ICD-10-CM for medical coding and ICDO-3 for registry are based on ICD-10
- ICD-10-CM codes are more detailed than ICD-9-CM

Medical record documentation should be more precise and detailed than ever before

Resources

- Link to Classifications of Diseases, Functioning and Disability (ICD coding systems)
- <http://www.cdc.gov/nchs/icd.htm>

Contact

Linda Mulvihill, RHIT, CTR
770-488-3246
lmulvihill@cdc.gov

Linda Mulvihill is a Public Health Advisor for the Centers for Disease Control and Prevention. The findings and conclusions in this presentation are those of the author(s) and do not necessarily represent the official position of the Centers for Disease Control and Prevention.