

2018 New Grade Coding Rules "It's a Good Thing!"

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Outline

- New Grade Data Items 2018+
- 2018 Grade Major Changes
- Grade Tables
- Coding Instructions
- 2018 Grade Manual
- Practice Quizzes
- Wrap Up

3



Grade 2018 - Major Changes

- Previous single Grade/differentiation data item and coding instructions discontinued for cases diagnosed 2018+
 - Retained for cases diagnosed prior to 1/1/2018
- Former SSFs which collected chapter specific grades (e.g., Breast, Prostate, Soft Tissue, etc.) <u>discontinued</u> for 2018+
 - Retained for cases 2004-2017



Grade 2018 – Major Changes

- Beginning with 2018+ cases
 - Grade definitions have expanded
 - Classification of grade now varies by tumor site and/or histology
 - Grading systems for a cancer type may use a two, three, or four grade system
 - No longer will all grades be converted to a four-grade system

5



Grade 2018 – Major Changes

3 New Grade Data Items

- Grade Clinical
 - Collects grade during clinical time frame usually from a biopsy or FNA
 - Before any treatment such as surgical resection or neoadjuvant therapy, etc.

Grade Pathological

 Collects grade from the primary tumor which has been <u>resected</u> (unless microscopic clinical grade is higher or surgical resection grade is unknown), and neoadjuvant therapy was NOT administered

Grade Post-therapy

 Collects grade from a tumor resection AFTER completion of neoadjuvant therapy



Grade 2018 – Major Changes

Grade captured at different points of patient care

- Similar to AJCC TNM "time frames"
 - Clinical Grade from diagnostic workup prior to treatment
 - Pathological Grade from surgical resection specimen of primary tumor or organ; OR grade from clinical workup if higher than surgical resection grade, since all information from DX workup through surgical resection is used for Pathological Grade
 - Post-therapy Grade from surgical resection of primary tumor or organ after neoadjuvant therapy. Note; clinical grade would never be used for post-therapy grade
- If AJCC TNM stage is being assigned, the "surgical resection" must meet AJCC criteria for cancer site, for:
 - Pathological Grade
 - Post-therapy Grade

Whichever is applicable for case

7



Grade 2018 - Major Changes

- AJCC Chapter specific grading systems incorporated into 2018 Grade
- Site specific grades harmonized with CAP cancer protocol checklists
- Based on site and/or chapter, the generic cancer registry grade categories or another definition of grade may be used
- Historical grade definitions still apply when specific grading systems not applicable for site, or preferred grade not available



Grade 2018 – Major Changes

- > Tables for Grade Restructured
- Combination of numeric & alphabetic codes within the same table
- Codes 1-5 reserved for 8th edition site-specific grade definitions
- May include additional applicable CAP surgical checklist grade definitions
- May include generic (historical) grade definitions

Template for a Cancer-Specific Grade Table				
Code	Grade Description			
1	Site-specific grade system category			
2	Site-specific grade system category			
3	Site-specific grade system category			
4	Site-specific grade system category			
5	Site-specific grade system category			
L	Low grade			
Н	High grade			
М	Site-specific grade system category			
S	Site-specific grade system category			
Α	Well differentiated			
В	Moderately differentiated			
С	Poorly differentiated			
D	Undifferentiated and anaplastic			
8	Not applicable (Hematopoietic neoplasms only)			
9	Grade cannot be assessed; Unknown			
Blank	Blank (Post-therapy only)			

9



Grade Tables

Overview



Grade Table - Ovary/Primary Peritoneal/Fallopian Tube

G	Grade Table in AJCC 8 th edition				
G	Grade Definition				
GX	Grade cannot be assessed				
GB	Borderline tumor				
G1	Well differentiated Moderately differentiate				
G2					
G3	Poorly differentiated or undifferentiated				

- Tables include recommended AJCC definitions combined with CAP and/or generic terms when needed
- Code 9 still used for unknown

	2018 Grade Table					
	Code Grade Description					
	1	G1: Well differentiated				
2 G2: Moderately differentiate						
	3	G3: Poorly differentiated or undifferentiated				
	В	GB: Borderline Tumor				
L Low Grade		Low Grade				
	Н	High Grade				
	9	Grade cannot be assessed (GX);Unknown				

- Grade based on histology
- Codes 1-3 priority if nuclear grade documented
- Code B avail If your Hosp or State collects borderline tumors
- Immature teratomas or serous carcinoma use codes L & H

11



Grade Table - Breast

Code	Grade Definition			
1	G1: Low combined histologic grade (favorable), SBR score of 3-5 points			
2	G2: Intermediate combined his	stologic grade (moderately favorable); SBR score of 6-7 points	codes	
3	G3: High combined histologic §	grade (unfavorable);SBR score of 8-9 points	invasive	
L	Nuclear Grade I (Low) (in situ only)			
М	Nuclear Grade II (interMedidate) (in situ only) Used when tumor is only in situ			
Н	Nuclear Grade III (High) (in situ only)			
Α	Well differentiated			
В	Moderately differentiated	Used when a more specific grade above was not		
С	Poorly differentiated	determined and path report used these terms for grade		
D	Undifferentiated, anaplastic			
9	Grade cannot be assessed (GX); Unknown			



Generic Grade

Applies when:

- No applicable AJCC Chapter for Site (e.g. trachea), OR
- No recommended grading system for site (e.g. melanoma of skin)
- Historical generic grade categories will still apply and be used for all three grade fields
 - However, "codes" have changed

13



Generic Grade Table

• Generic Grade Table Example

2018 Code Grade/Cell Type Descrip		Grade/Cell Type Description
A Well differentiated		Well differentiated
B Moderately differentiated		
C Poorly differentiated		Poorly differentiated
)	Undifferentiated, anaplastic
9)	Grade cannot be assessed; Unknown

Prior to 2018	Description			
1	Well differentiated	Historically	V	
2	Moderately differentiated codes w			
3	Poorly differentiated	1-4		
4 Undifferentiated, anaplastic				
9	Grade cannot be assessed; Unknown			

- Codes 1, 2, 3, 4 now reserved for the preferred AJCC grade
 - Code 9 retained for Unknown definitions
- A, B, C & D now used for standard historical grade
 - In all grade tables where applicable

.4



Generic Grade

Example:

- These Sites still use the generic historical definitions
- There is no AJCC preferred or recommended Grade for these sites

- **Cervical Lymph Nodes and Unknown Primary**
- **Major Salivary Glands**
- Nasopharynx
- Oropharynx HPV-Mediated (p16+)
- Mucosal Melanoma of Head & Neck
- **Merkel Cell Carcinoma**
- Melanoma of Skin
- Placenta
- Testis
- Melanoma Conjunctiva
- Thyroid
- Thyroid-Medullary
- **NET Adrenal Gland**

Code	Grade Description				
Α	A Well differentiated				
В	Moderately differentiated				
С	Poorly differentiated				
D	D Undifferentiated, anaplastic				
9 Grade cannot be assessed; Unknown					



Quick Quiz 1 - Breast

> Path Report: Bx L-breast, PD infiltrating Duct Ca, unable to classify further

Code	Grade Definition (Grade Table		
1	G1: Low combined histologic g	Codes 1-3	
2	G2: Intermediate combined his	Priority (AJCC Grades)	
3	G3: High combined histologic g	rade (unfavorable);SBR score of 8-9 points	If documented
L	Nuclear Grade I (Low) (in situ o		
М	Nuclear Grade II (interMedidat	e) (in situ only)	
Н	Nuclear Grade III (High) (in situ	only)	What is the
Α	Well differentiated		Clinical
В	Moderately differentiated	If the documented grade is not from the recommended AJCC grade system, record the	Grade?
С	Poorly differentiated	highest [specified/documented] grade	
D	Undifferentiated, anaplastic		
9	Grade cannot be assessed (GX)	; Unknown	



2018 Grade Table

Individual Grade Tables include:

- Schema ID & Name
- AJCC ID & Chapter Name
- Coding Notes
- Codes/Descriptions

	Grade ID 19-Post-Therapy Grade Instructions				
	Schema ID#	Schema ID Name	AJCC ID	AJCC Chapter	
_			61.1	Renal Pelvis and Ureter: Urothelial Carcinomas	
	00610	Kidney Renal Pelvis	61.2	Renal Pelvis and Ureter: Squamous Cell	
				Carcinoma and Adenocarcinoma	
		Bladder	62.1	Urinary Bladder: Urothelial Carcinomas	
	00620		62.2	Urinary Bladder: Squamous Cell Carcinoma and	
				Adenocarcinoma	
	00631	Urethra	63.1	Urothelial Male Penile Urethra and Female	
				Urethra	
			63.2	Squamous Male Penile Urethra and Female	
				Urethra	
			63.3	Prostatic Urethra: Urothelial Carcinomas	
	00633	Urethra-Prostatic	63.4	Prostatic Urethra: Squamous Cell Carcinoma and	
				Adenocarcinoma	

Note 1: Leave post-therapy grade blank when

- No neoadjuvant therapy
- Clinical or pathological case only
- There is only one grade available and it cannot be determined if it is clinical, pathological or post-therapy

Note 2: Assign the highest grade from the resected primary tumor assessed after the completion of neoadiuvant therapy.

Note 3: G3 includes undifferentiated and anaplastic.

Note 4: Code 9 when

- Surgical resection is done after neoadjuvant therapy and grade from the primary site is not documented.
- Grade checked "not applicable" on CAP Protocol (if available) and no other grade information is

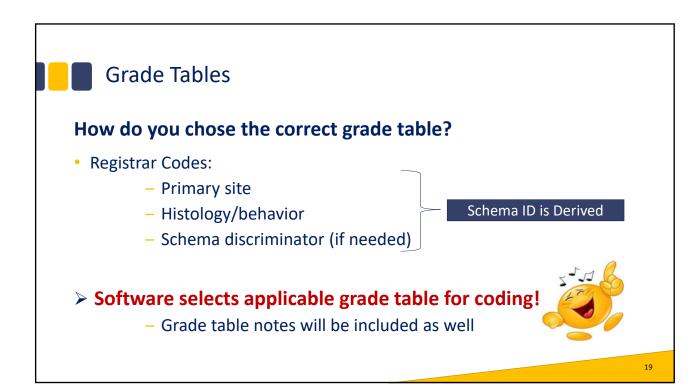
Code	Grade Description]	G1-G3 used for
1	G1: Well differentiated		Squamous Cell or
2	G2: Moderately differentiated		Adenocarcinoma
3	G3: Poorly differentiated	$oldsymbol{\sqcup}$	/ tachiocaremonia
L	LG: Low-grade		L & H used for
H	HG: High-grade		Hardballal Control
9	Grade cannot be assessed (GX); Unknown		Urothelial Carcinomas
Blank	See Note 1		

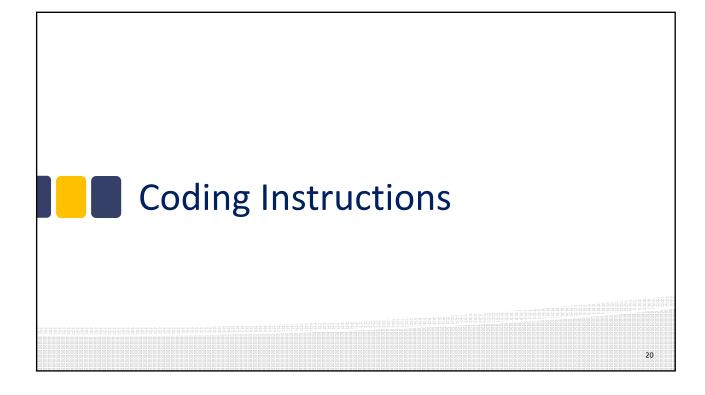
17



Grade Tables

- 29 Grade Tables
- ~118 primary site and/or histology combinations incorporated
 - 14 Grade tables represent a single site
 - 15 Grade tables incorporate multiple primary sites
 - Tables include appropriate grading system for site(s)
 - AJCC recommended
 - Generic
 - Other
 - · Or Combinations of







Grade – General Coding Instructions

What's the Same?	What's Different?					
> Basic core coding concepts unchanged:	> 2018 Grade items apply only when DX Date 2018+					
Code grade from the primary tumor- not metastatic site	Priority goes to the recommended AJCC grade listed in the applicable AJCC chapter					
If more than one grade available from same time period code the higher	If none of the specified grades documented are from the recommended AJCC grade system, record					
If grade given for an in situ tumor, code it	the highest [documented] grade					
Do NOT code grade for dysplasia or high grade dysplasia	If there is no recommended AJCC grade [for that site], code the highest [documented] grade					
If both in situ and invasive components, code grade of invasive component	Grade for hematopoietic and lymphoid neoplasms NO LONGER COLLECTED for DX Date 2018+ *					
* See complete coding instructions in the 2018 Grade manual						



Grade Clinical

CLINICAL GRADE Coding Guidelines

Note 1: Clinical grade is recorded for cases where a histological (microscopic) exam is done and tissue is available and grade is recorded. This includes FNA, biopsy, needle core biopsy, etc.

Note 2: Clinical grade must not be blank.

Note 3: Assign the highest grade from the primary tumor assessed during the clinical time frame.

Note 4: Code 9 (unknown) when

- Grade is not documented
- · Clinical staging is not applicable (for example, cancer is an incidental finding during surgery for another condition)
- Grade checked "not applicable" on CAP Protocol (if available) and no other grade information is available
- If there is only one grade available and it cannot be determined if it is clinical or pathological, assign it as a clinical grade and code unknown (9) for pathological grade, and blank for post-therapy grade.
- > See individual site-specific Grade tables for additional notes



Grade Pathological

PATHOLOGICAL Coding Guidelines

Note 1: Pathological grade is recorded for cases where a surgical resection has been done.

Note 2: Pathological grade must not be blank.

Note 3: Assign the highest grade from the primary tumor. If the clinical grade is the highest grade identified, use the grade that was identified during the clinical time frame for both the clinical grade and pathological grade.

Note 4: Code 9 (unknown) when

- · Grade not documented
- No resection of the primary site
- Neoadjuvant therapy followed by a resection (see post-therapy grade)
- Clinical case only (see clinical grade)
- · There is only one grade available and it cannot be determined if it is clinical or pathological
- · Grade checked "not applicable" on CAP Protocol (if available) and no other grade information is available
- > See individual site-specific Grade tables for additional notes

23



Grade Post-therapy

POST-THERAPY Coding Guidelines

Note 1: Leave post-therapy grade blank when:

- No neoadjuvant therapy
- Clinical or pathological case only
- There is only one grade available and it cannot be determined if it is clinical, pathological or posttherapy

Note 2: Assign the highest grade from the resected primary tumor assessed after the completion of neoadjuvant therapy.

Note 3: Code 9 when

- Surgical resection is done after neoadjuvant therapy and grade from the primary site is not documented
- Grade checked "not applicable" on CAP Protocol (if available) and no other grade information is available
- > See individual site-specific Grade tables for additional notes



Coding Instructions

Example Grade ID 01 (3 grade system)

- 23 sites use these grade tables
- See actual grade table for complete list of coding instructions

Clinical			Pathological	Post-therapy	
Code	Grade Description	Code	Code Grade Description		Grade Description
1	G1: Well differentiated	1	G1: Well differentiated	1	G1: Well differentiated
2	2 G2: Moderately differentiated		G2: Moderately differentiated	2	G2: Moderately differentiated
3	G3: Poorly differentiated	3	G3: Poorly differentiated	3	G3: Poorly differentiated
9	Grade cannot be assessed (GX); Unknown	9	Grade cannot be assessed (GX); Unknown	9	Grade cannot be assessed (GX); Unknown
Clinical grade cannot be blank		Pathological grade <i>cannot be blank</i>		Blank	See Note 1
Code 9 when: No grade documented Cancer incidental finding during surgery		• Code	9 when: No resection of primary tumor Neoadjuvant therapy given prior to surgical resection (see post-therapy grade)	when: • No	: Leave post-therapy grade blank neoadjuvant therapy nical or Pathological case only

25



Coding Instructions

- 3 Grade Data Items
- TWO (2) GRADES usually defined per case, sometimes 1, never 3
 - Clinical Grade (most of the time unless no Dx until surgery)
 - Pathological Grade or
 - Post-therapy Grade
- If Pathological grade recorded, Posttherapy grade will always be BLANK
- If Post-therapy grade is recorded,
 Pathological grade will always be code 9



Quick Quiz 2 - Colon

- Colonoscopy revealed a right colon lesion. Biopsy taken. Final DX: Moderately
 differentiated adenocarcinoma. Patient underwent hemicolectomy: Final pathologic
 diagnosis: PD adenocarcinoma with invasion through serosa. Pt is a candidate for
 adjuvant chemotherapy
- · Code the 3 grade data items:

Code	Grade Description
1	G1: Well differentiated
2	G2: Moderately differentiated
3	G3: Poorly differentiated
4	G4: Undifferentiated
9	Grade cannot be assessed (GX);Unknown
Blank	No neoadjuvant therapy

Clinical or Pathological case only

Grade Clinical	2
Grade Pathological	3
Grade Post-therapy	blank

27



Coding Instructions - Grade Required for TNM stage

- Some AJCC Chapters require Grade to assign TNM Stage Group
 - Chapter 16: Esophagus and Esophagogastric Junction
 - Chapter 19: Appendix
 - Chapter 38: Bone
 - Chapter 41: Soft Tissue Sarcoma of the Trunk and Extremities
 - Chapter 44: Soft Tissue Sarcoma of the Retroperitoneum
 - Chapter 43: Gastrointestinal Stromal Tumor
 - Chapter 48: Breast
 - Chapter 58: Prostate
- If AJCC priority grade not stated, code applicable generic grade or other grade indicated
- If AJCC grade not available, it may not be possible to assign TNM stage group



Coding Instructions

Grade required for TNM

General notes

Directions if specific term

Directions if grade required

Plus additional grade

Notes Include:

3 Grade System

definition

Grade ID 08-Pathological Grade Instructions AJCC ID AJCC Chapter 38.1 Bone: Appendicular Skeleton, Trunk, Skull and Schema ID# Schema ID Name Bone Appendicular Facial Bones 00382 38.2 Bone Spine Bone: Spine

Note 1: Pathological grade must not be blank

Note 2: Assign the highest grade from the primary tumor. If the clinical grade is higher than the grade determined during the pathological time frame, use the grade that was identified during the clinical time frame for both the clinical grade and the pathological grade

Note 3: Code 1 for stated as "low grade" only.

Note 4: Codes 1-3 take priority over H.

Grade from primary site is not documented

Note 5: G3 includes undifferentiated and anaplastic.

- No resection of the primary site
- Neo-adjuvant therapy is followed by a resection (see post-therapy grade)
- Clinical case only (see clinical grade)
- There is only one grade available and it cannot be determined if it is clinical, pathological, or
- Grade checked "not applicable" on CAP Protocol (if available) and no other grade information is available

for stage Note 7: If you are assigning an AJCC 8th edition stage group

- Grade is required to assign stage group
- Code H is treated as a G3 when assigning AJCC stage group
 An unknown grade may result in an unknown stage group

Code	Grad	e Description		
1	G1: \	Vell differentiated, low grade		
2	G2: N	Noderately differentiated, high grade		
3	G3: F	oorly differentiated, high grade		
Н	State	d as "high grade" only		
9	Grad	e cannot be assessed (GX); Unknown		



Coding instructions Hematopoietic & Lymphoid Neoplasms

- Cell lineage indicator/grade for hematopoietic and lymphoid neoplasms NO LONGER COLLECTED for DX Date 2018+
 - Histology range 9590-9992
 - Historically cell lineage indicator (B-cell, T-cell, Null cell, NK-cell collected)
- **Exception:** Ocular Adnexa Lymphoma AJCC 8th Ed Chapter 71
 - AJCC has a defined grading system for the follicular histologies
 - Applicable primary sites: C441, C690, C695, C696
 - Applicable histologies 9690/3, 9691/3, 9698/3
 - Grade for all other histologies collected in AJCC Chapter 71 coded as 9



Coding Instructions

Example:

- Hematopoietic
 & Lymphoid
 Neoplasms
- Clinical Grade 8
- Pathological Grade 8
- Post-therapy Grade (blank)

Grade ID 88-Clinical Grade Instructions				
Schema ID# Schema ID Name A		AJCC ID	AJCC Chapter	
		79.0-	Hodgkin and Non-Hodgkin Lymphoma	
00790	Lymphoma	79.4,		
		79.6		
00795	Lymphoma-CLL/SLL	79.5	Hodgkin and Non-Hodgkin Lymphoma	
00811	M	81.1	Primary Cutaneous Lymphoma: Mycosis	
00811	Mycosis Fungoides		Fungoides and Sezary Syndrome	
00812	Primary Cutaneous Lymphomas	81.2	Primary Cutaneous Lymphoma: B-Cell/T-cell	
00812	(excluding Mycosis Fungoides)		Lymphoma (non-MF/SS) Lymphoma	
00821	Plasma Cell Myeloma	82	Plasma Cell Myeloma and Plasma Cell Disorders	
00822	Plasma Cell Disorders	82	Plasma Cell Myeloma and Plasma Cell Disorders	
00830	HemeRetic	83.0-	Leukemia	
00830	nemereuc	83.4		

Hematopoietic and Lymphoid Neoplasms: No grade fields included in the following schemas since grade is no longer applicable:

Note: Grade (cell indicator) is no longer applicable for this hematopoietic neoplasm.

Code	Grade Description		
8	Not applicable		

31



Coding Instructions

Example:

- No AJCC Chapter
- No preferred grade
- Grade is still coded
 - Generic Grade used
 - Code for each grade data item

Grade ID 99-Clinical Grade Instructions				
Schema ID#	Schema ID Name	AJCC ID	AJCC Chapter	
00118	Pharynx Other	XX	No AJCC Chapter	
00119	Middle Ear	XX	No AJCC Chapter	
00128	Sinus Other	XX	No AJCC Chapter	
00278	Biliary Other	XX	No AJCC Chapter	
00288	Digestive Other	XX	No AJCC Chapter	
00358	Trachea	XX	No AJCC Chapter	
00378	Respiratory Other	XX	No AJCC Chapter	
00478	Skin Other	XX	No AJCC Chapter	
00558	Adnexa Uterine Other	XX	No AJCC Chapter	
00559	Genital Female Other	XX	No AJCC Chapter	
00598	Genital Male Other	XX	No AJCC Chapter	
00638	Urinary Other	XX	No AJCC Chapter	
00698	Lacrimal Sac	XX	No AJCC Chapter	
00718	Eye Other	XX	No AJCC Chapter	
00778	Endocrine Other	XX	No AJCC Chapter	
99999	Ill-defined Other	xx	No AICC Chapter	

Note 1: Clinical grade must not be blank.

Note 2: Assign the highest grade from the primary tumor assessed during the clinical time frame.

Note 3: Code 9 when

- Grade from primary site is not documented
- Clinical workup is not done (for example, cancer is an incidental finding during surgery for another condition)

Note 4: If there is only one grade available and it cannot be determined if it is clinical, pathological, or after neo-adjuvant therapy, assign as a clinical grade and code unknown (9) for pathological grade, and blank for post-therapy grade.

Code	Grade Description
Α	Well differentiated
В	Moderately differentiated
С	Poorly differentiated
D	Undifferentiated, anaplastic
9	Grade cannot be assessed; Unknown



Coding instructions

- If documented grade terminology does not fit grade table definitions, or grade is unknown
 - Assign code 9
- Exception:
 - If site uses a 4-grade system with generic grade codes A-D included in table
 - An applicable Mapping Term for grade may apply

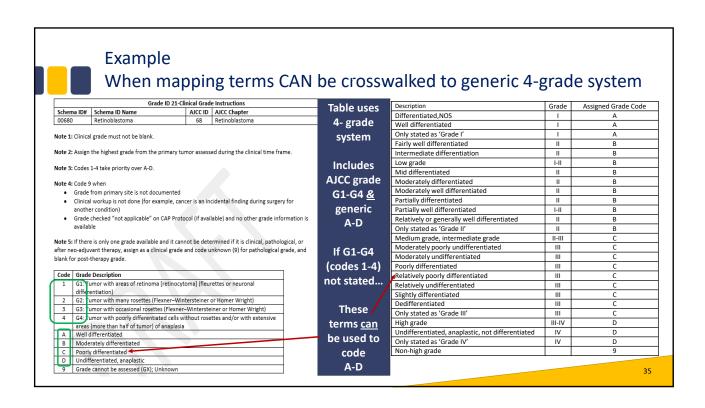
33

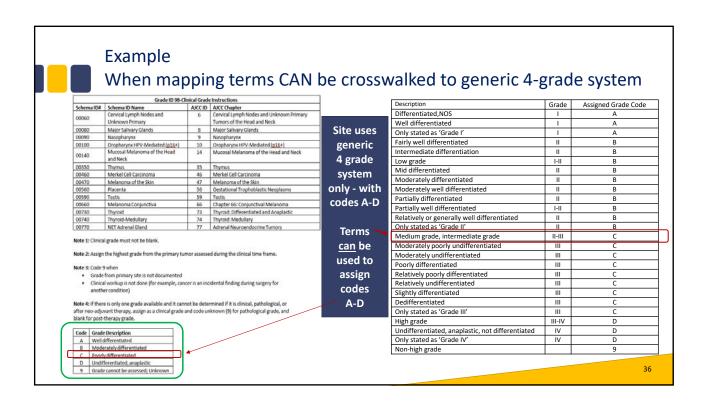


Mapping/Crosswalk terms for generic grade in a 4-grade system

- Terms which can be "mapped" to describe one of the generic grade categories for 2018
- Applies ONLY to cancers using 4-grade system
- Only use when code table includes generic categories with alphabetic codes A-D
- Do not use for 4-grade generic table where code options are designated 1-4
 - Never use to code terms for 2 or 3 grade system
- ~Pages 32-33 in Grade Manual

Description	Grade	Assigned Grade Code
Differentiated,NOS	1	A
Well differentiated	- 1	A
Only stated as 'Grade I'	- 1	A
Fairly well differentiated	П	В
Intermediate differentiation	Ш	В
Low grade	I-II	В
Mid differentiated	II	В
Moderately differentiated	II	В
Moderately well differentiated	II	В
Partially differentiated	II	В
Partially well differentiated	I-II	В
Relatively or generally well differentiated	П	В
Only stated as 'Grade II'	II	В
Medium grade, intermediate grade	II-III	С
Moderately poorly undifferentiated	III	C
Moderately undifferentiated	III	C
Poorly differentiated	III	С
Relatively poorly differentiated	III	С
Relatively undifferentiated	III	С
Slightly differentiated	III	С
Dedifferentiated	III	С
Only stated as 'Grade III'	III	C
High grade	III-IV	D
Undifferentiated, anaplastic, not differentiated	IV	D
Only stated as 'Grade IV'	IV	D
Non-high grade		9





Example When mapping terms CANNOT be crosswalked to generic 4-grade system Description Grade Assigned Grade Code Schema ID# Schema ID Name Site uses Differentiated.NOS Oropharynx (p16-) Hypopharynx Cutaneous Squamous Cell Carcinoma of Head and Neck Small Intestine 11.2 Hypopharynx 15 Cutaneous Squamous Cell Carcinoma of the Head and Neck 4-grade Well differentiated Only stated as 'Grade I generic Fairly well differentiated Ш 18 Small Intestine 20 Colon and Rectum 22 Liver categories Intermediate differentiation Ш В Colon and Rectum I-II Low grade 36 Lung 37 Malignant Pleural Mesothelioma 64 Eyelid Carcinoma 65 Conjunctival Carcinoma 00360 Lung Mid differentiated Ш Moderately differentiated Ш However, Moderately well differentiated codes Partially differentiated Ш Partially well differentiated I-II are Relatively or generally well differentiated Ш **Numeric** Only stated as 'Grade II' Ш Note 3: G4 includes anaplastic Medium grade, intermediate grade II-III Moderately poorly undifferentiated Ш Grade from primary site is not documented Clinical workup is not done (for example, cancer is an incidental fipding during surgery for And Moderately undifferentiated III Poorly differentiated III table does another condition) Ш Relatively poorly differentiated Grade checked "not applicable" on CAP Protocol (if available) and no other grade information is not Relatively undifferentiated Ш Slightly differentiated Ш include Note 5: If there is only one grade available and it cannot be determined if it is clinical, pathological, or Dedifferentiated after neo-adjuvant therapy, assign as a clinical grade and code unknown (9) for pathological grade, and blank for post-therapy grade. Only stated as 'Grade III' III generic High grade III-IV Code Grade Description 1 G1: Well differentiated 2 G2: Moderately differentiated 3 G3: Poorly differentiated codes Undifferentiated, anaplastic, not differentiated IV IV A-D Only stated as 'Grade IV' Non-high grade 4 G4: Undifferentiated



Quick Quiz 3 - Kidney

➤ Path Report: Right kidney nephrectomy; renal parenchyma tumor c/w low grade renal cell carcinoma, papillary type

Code	Grade Description (Grade table 18)
1	G1: Nuceloli absent or inconspicuous and basophilic at 400x magnification
2	G2: Nucleoli conspicuous and eosinophilic at 400x magnification, visible but not prominent at 100x magnification
3	G3: Nucleoli conspicuous and eosinophilic at 100x magnification
4	G4: Marked nuclear pleomorphism and/or multinucleate giant cells and/or rhabdoid and/or sarcomatoid differentiation
Α	Well differentiated
В	Moderately differentiated
С	Poorly differentiated
D	Undifferentiated, anaplastic
9	Grade cannot be assessed (GX); Unknown

What is the Pathological Grade?

В

"low grade" coded to B in generic A-D options per mapping terms list



2018 Grade Manual

Organization

Demo

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2018 Grade Manual

- Primary resource for documentation and coding instructions
- Important to review introductory information:
 - Organization & Suggestions on how to use
 - General Instructions
 - General Rules
 - Background and additional information
- Carefully review pages ~18-34
- Reflects info NOT in software notes

- Grade Tables
 - Each Grade table set includes a clinical, pathological and post-therapy table along with their respective coding "notes"
 - Coding "notes" will differ for each grade data item



2018 Grade Manual

• Grade Schema ID [Master] Table includes:

Schema ID	Schema ID Name (EOD Schema Name)	AJCC Chap.	AJCC Chapter Name	SS Chapter	Grade Table
00542	Corpus Adenosarcoma	54	Corpus Uteri-Sarcoma	Corpus Sarcoma (including Adenosarcoma)	Grade 14
00551	Ovary	55	Ovary, Fallopian Tube, and Primary Peritoneal Carcinoma	Ovary and Primary Peritoneal Carcinoma	Grade 15

- Grade tables available in both:
 - Schema ID Order (pgs. 8-12)
 - Alphabetical Order (pgs. 13-17)
- Navigation hyperlinks

Grade 02



Return to Grade Tables (in Schema ID order)

41



2018 Grade Manual

DEMO

Navigation of 2018 Grade Manual

- https://www.naaccr.org/SSDI/Grade-Manual.pdf



Let's Practice Coding Grade

42



Quick Quiz 4 - Lung

Use Grade table set 02 to code each data item:

• CT Chest 4cm mass right upper lobe of the lung with extensive hilar & mediastinal LAD. Lung mass Bx confirms anaplastic small cell carcinoma. Patient not a surgical candidate. RX plan Chemo/Radiation.

Code	Grade Description
1	G1: Well differentiated
2	G2: Moderately differentiated
3	G3: Poorly differentiated
4	G4: Undifferentiated
9	Grade cannot be assessed (GX); Unknown

Grade Clinical	4
Grade Pathological	9
Grade Post-Therapy	blank

- Per Clinical Grade Note 3: G4 includes Anaplastic
- Pathological Grade: No surgical resection
- Post-Therapy Grade: No Neoadjuvant Tx Clinical case only



Quick Quiz 5 – Prostate

Use Grade table set 17 to code each data item:

Patient with history of elevated PSA presents for a biopsy of the prostate.
 Final pathologic diagnosis: Prostatic Adenocarcinoma, Gleason Score 3+3=6.
 Treatment was discussed and patient elects active surveillance

Code	Grade Description
1	Grade Group 1: Gleason score less than or equal to 6
2	Grade Group 2: Gleason score 7
	Gleason pattern 3+4
3	Grade Group 3: Gleason score 7
	Gleason pattern 4+3
4	Grade Group 4: Gleason score 8
5	Grade Group 5: Gleason score 9 or 10
Α	Well differentiated
В	Moderately differentiated
С	Poorly differentiated
D	Undifferentiated, anaplastic
Е	Stated as "Gleason score 7" with no patterns documented or
	Any Gleason patterns combination equal to 7 not specified in 2 or 3
9	Grade cannot be assessed; Unknown

Grade Clinical	1
Grade Pathological	9
Grade Post-Therapy	blank

• Clinical Grade: Gleason Score of 6 = Grade Group 1, Grade code 1

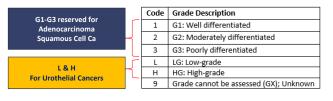
45



Quick Quiz 6 - Bladder

Use Grade table set 19 to code each data item:

Hx hematuria. Cystoscopy revealed tumor in bladder trigone. Bx confirms high
grade papillary urothelial ca with focus of muscle invasion. Pt received neoadjuvant
chemo followed by radical cystectomy. Final pathological dx: High grade papillary
urothelial ca.



Grade Clinical	Н
Grade Pathological	9
Grade Post-Therapy	Н

- Clinical grade is "high grade"; Code H; (HG: High-grade)
- Pathological grade is 9; criteria not met- see post-therapy grade
- Post-therapy grade = "high grade" per surgical resection following Neoadjuvant Tx



Quick Quiz 7 – Prostate

Use Grade table set 17 to code each data item:

• Patient with biopsy proven prostatic adenocarcinoma Gleason score 7 (3+4) presented for a robotic assisted prostatectomy. Final Dx from prostatectomy: Moderately differentiated adenocarcinoma, Gleason 6 (3+3)

Code	Grade Description
1	Grade Group 1: Gleason score less than or equal to 6
2	Grade Group 2: Gleason score 7 Gleason pattern 3+4
3	Grade Group 3: Gleason score 7 Gleason pattern 4+3
4	Grade Group 4: Gleason score 8
5	Grade Group 5: Gleason score 9 or 10
Α	Well differentiated
В	Moderately differentiated
С	Poorly differentiated
D	Undifferentiated, anaplastic
Ε	Stated as "Gleason score 7" with no patterns documented or Any Gleason patterns combination equal to 7 not specified in 2 or 3
9	Grade cannot be assessed; Unknown

Grade Clinical	2
Grade Pathological	2
Grade Post-Therapy	blank

 Pathological Grade Note 2: If clinical grade higher than path grade, use clinical grade for both



Quick Quiz 8 – Ovary

Use Grade table set 15 table to code each data item:

 Patient with abdominal distension and pain. CT reveals liver mass with abdominal and pelvic ascites. Liver biopsy positive for high grade serous carcinoma c/w ovarian origin.

Code	Grade Description
1	G1: Well differentiated
2	G2: Moderately differentiated
3	G3: Poorly differentiated, undifferentiated
В	GB: Borderline Tumor
L	Low grade
Н	High grade
9	Grade cannot be assessed (GX); Unknown

Grade Clinical	9
Grade Pathological	9
Grade Post-Therapy	blank

• 1st basic coding rule- Code grade from the primary site, not a metastatic site



Quick Quiz 9 - Colon

Use Grade table set 02 to code each data item:

 Patient had routine colonoscopy revealing a mass in ascending colon. Bx positive for invasive Mod-diff Adenocarcinoma. Subsequent hemicolectomy final pathologic diagnosis: High grade adenocarcinoma.

Code	Grade Description
1	G1: Well differentiated
2	G2: Moderately differentiated
3	G3: Poorly differentiated
4	G4: Undifferentiated
9	Grade cannot be assessed (GX); Unknown

Grade Clinical	2
Grade Pathological	9
Grade Post-Therapy	blank

- Pathological Grade: High grade not a code option & coding notes provide no special direction in this case; Code grade as 9
- Can't use mapping terms Generic categories designated with numeric 1-4 codes
 & no A-D code options

49



Quick Quiz 10A - Breast

Use Grade table set 12 to code each data item:

 Patient with left UOQ breast mass 1.0cm; Breast bx positive for invasive Ductal ca Nottingham Grade 1:3-5 points (Tubule formation 2, Nuclear pleomorphism 2, mitotic activity 1). Patient underwent lumpectomy. Final Pathology: Residual DCIS 0.3 cm, intermediate grade. No remaining invasive tumor. 0/1 sentinel LN pos(+). Margins clear.

Grade Clinical	1
Grade Pathological	1
Grade Post-Therapy	blank

- · Clinical: Invasive Ductal ca, Grade 1
- General rules direct to code grade from invasive component of tumor
- Pathological Note 2: If clinical grade higher, code clinical Grade for both clinical & path₅₀



Quick Quiz 10B – Breast

Use Grade table set 12 to code each data item:

Mammogram: UOQ breast mass 1.3cm. Breast bx: DCIS, high grade. Patient underwent definitive lumpectomy. Final Pathology: Invasive ductal carcinoma 0.8cm, Nottingham Grade 1:3-5 points; residual DCIS 0.2cm high grade. 0/1 sentinel LN pos(+). Margins clear.

Grade Clinical	Н
Grade Pathological	1
Grade Post-Therapy	blank

- Clinical: Only DCIS high grade noted on diagnostic workup & microscopic exam
- Pathological: **Invasive** Ductal Ca identified on surgical specimen, Grade 1; Per *General Rules*: Code grade for invasive component when both in situ/invasive

51





Grade 2018

- Grade assigned for every reportable case
 - Even if grade is unknown
- Registrar codes recommended AJCC Grade if used, even when case not eligible for TNM Staging
- If recommended grading system not used, generic grade categories may apply
- If Primary site is unknown, code grade to 9

53



Grade 2018

- Grade codes and/or coding instructions vary for each grade data item:
 - Clinical
 - Pathological
 - Post-therapy
- Based on type of cancer
- Always read the grade table "notes"
 - Included in software
- > Also read background and additional instructions in Grade manual
 - These will *not* be in your software notes



Grade 2018 = Harmonization

Breast Grade Table- AJCC 8th edition

G	G Definition
GX	Grade cannot be assessed
G1	Low combined histologic grade (favorable), SBR score of 3-5 points
G2	Intermediate combined histologic grade (moderately favorable); SBR score of 6-7 points
G3	High combined histologic grade (unfavorable); BSR score of 8-9 points

Breast Grade- CAP Protocol Checklist

2018 Breast Grade Table- excerpt of first 3 codes

Code	Grade Definition
1	G1: Low combined histologic grade (favorable), SBR score of 3-5 points
2	G2: Intermediate combined histologic grade (moderately favorable); SBR score of 6-7 points
3	G3: High combined histologic grade (unfavorable);SBR score of 8-9 points

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Grade 2018

- AJCC recommended Grade categories
- CAP protocol checklist Grade categories
- Generic Grade definition categories
- 2018 Grade Coding Tables

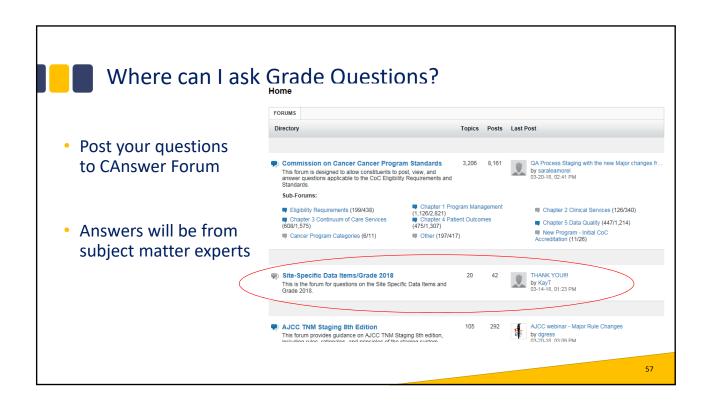
Harmonized (whenever possible)

Goals: Improve ease of collecting grade and coding accuracy overall

It's a Good Thing!



- -







Thank You

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