

TNM “Grab Bag” of Staging Exercises

AJCC 7th Edition

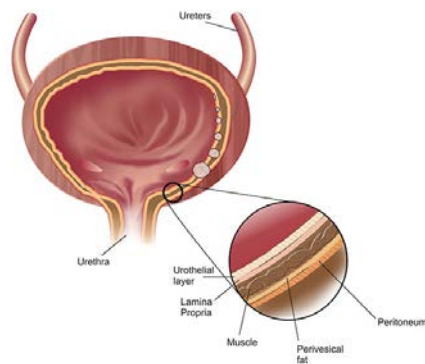
NORTHERN REGION-CCRA
STAGING SYMPOSIUM
SEPTEMBER 20, 2017

Outline

- Case Reviews
 - Answers and Rationale
 - Bladder
 - Prostate
 - Lung
 - Colorectum
 - Breast
 - Melanoma
 - Ovary
 - And a few tips along the way

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Case # 1 Bladder



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Case # 1 Bladder - Scenario Highlights

- PTA 1/10/16 TURBT positive for invasive urothelial ca invading the muscularis propria
- PTA 1/23/16 CT following TURBT revealed residual tumor; no mention of adenopathy; no further documentation of extension
- 1/30/16 to 4/22/16 - 4 cycles neoadjuvant therapy
- 5/13/16 Surgical consult - MD notes on "his read" of original CT PTA there is ~2cm external iliac LN identified
- 6/3/16 Staging CT post neoadjuvant therapy: Decrease in bladder wall thickening & size of LN met, and no bone mets
- 6/5/16 Operative findings radical cystoprostatectomy with extended bilat LN dissection: matted portion of nodes along common iliac vein and artery
- 6/5/16 Pathology: focal residual in situ ca only, no invasive ca, 03/11 LNs positive

Clinical T - Answer & Rationale

cT2

- PTA TURBT - large bladder c/w invasive carcinoma
- PTA Pathology - invasive urothelial ca to muscularis propria
- PTA CT scan following TURBT - residual bladder mass. No further documentation of extension
- **M.P. invasion greatest extent of disease documented prior to treatment**
- Subcategory of "a" or "b" cannot be determined on a TURBT
- T2a, T2b are only designated for pathologic stage

	T	N	M	Stage	Descriptor
Clinical	cT2				

Clinical N - Answer & Rationale

cN0

- No adenopathy was noted on PTA CT scan per consulting surgeon
 - "original read did not notice any adenopathy"
- Clinical stage based on evidence acquired before start of first course Rx
 - Consulting surgeon *retrospective* read of original CT *after* neoadjuvant therapy indicating a ~2cm enlarged LN must be *excluded*
 - Repeat CT performed after neoadjuvant chemo must be excluded
 - Clinical stage cannot be assigned in hindsight

	T	N	M	Stage	Descriptor
Clinical	cT2	cN0			

Clinical M - Answer & Rationale

cM0

- No mention of signs or symptoms of mets on exam
- PTA 1/23/16 CT made no mention of distant metastatic disease
- Assign cM0
 - Only physical exam required to assign cM0
 - If signs or symptoms then further study appropriate
 - Clinical stage composition can include cM0, cM1 or pM1

	T	N	M	Stage	Descriptor
Clinical	cT2	cN0	cM0		

Clinical Stage Group

Clinical Stage Group = II

- AJCC stage composition cT2 cN0 cM0 = Stage II
 - Stage Group II includes cT2 [nos] category
 - Valid Stage Group can be assigned
- Descriptor is 0
 - No clinical descriptor applies to this case
- Tip - Bladder stage table:
 - Stage Group II includes cT2 [NOS]Clinical
 - Stage Group III includes cT3 & cT4 [NOS]

	T	N	M	Stage	Descriptor
Clinical	cT2	cN0	cM0	2	0

pT - Answer & Rationale

ypTis

- Surgery performed s/p neoadjuvant treatment = ypTNM
- Cystectomy/bladder revealed only focal carcinoma in situ = ypTis
- ypTNM stage includes:
 - ycTNM
 - Surgical observations
 - Pathologic resected specimen
- **Note: Clinical information *always excluded* from ypT and ypN**

	T	N	M	Stage	Descriptor
Pathologic	pTis				4

pN - Answer & Rationale

ypN3

- 03/11 Lymph nodes positive for metastasis:
 - 1 positive left pelvic LN
 - 1 positive right obturator LN } =N2
 - however*
 - 1 positive **common iliac LN = N3**
- All involved lymph nodes in this case are regional for TNM
 - Nodal drainage location of positive regional lymph nodes i.e., *primary or secondary*, changes the N category

	T	N	M	Stage	Descriptor
Pathologic	pTis	pN3			4

Pathologic M - Answer & Rationale

cM0

- Patient was cM0 before neoadjuvant therapy
 - “M” s/p neoadjuvant treatment based on “M” status at diagnosis
 - whether cM0, cM1, or pM1
 - Assign cM0
 - “yp” does not apply to M
- Tip: If M1 before NeoRX, remains M1 for ypTNM *even if mets no longer detected*

	T	N	M	Stage	Descriptor
Pathologic	pTis	pN3	cM0		4

Pathologic Stage Group

Path Stage Group = **IV**

- AJCC stage composition (yp)Tis (yp)N3 cM0 = Stage IV
- Any involvement of lymph nodes w/wo distant mets is Stage IV in bladder
- Patient received neoadjuvant therapy prior to surgery
- Descriptor = 4
 - Indicates path stage is post neoadjuvant therapy
- Registry software does not have ability to record “yp” prefix

	T	N	M	Stage	Descriptor
Pathologic	pTis	pN3	cM0	4	4

Important to code Descriptor for ypTNM

Completed Staging

- TNM stage as recorded in registry database:

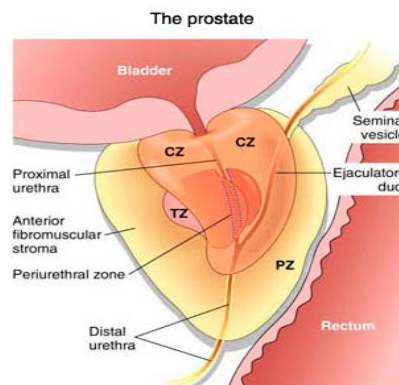
	T	N	M	Stage	Descriptor
Clinical	cT2	cN0	cM0	2	0
Pathologic	pTis	pN3	cM0	4	4
SS2000	Code 7- Distant (LNs)				

- SS2000:
 - Common iliac LNs are regional in TNM but distant in SS2000
 - SS2000 and TNM do not always match
 - Don't try to convert one to the other
 - Always refer to the Summary Stage online manual

Key Points or Tips

- Observe timeframe of information when assigning stage
 - Clinical or Pathologic
 - No Re-Do's - retrospective or hindsight
 - Once staging timeframe passed, cannot go back
- Subcategories "a" or "b" for T2/T3 only used for pathologic stage
 - Needs partial cystectomy at least
 - Can't be determined on TURBT
- Stage Group II includes T2 [nos]
- Clinical Stage information is excluded from ypTNM
- "M" s/p neoadjuvant treatment based on "M" status at diagnosis
 - cM0, cM1, or pM1

Case # 2 Prostate



Case #2 Prostate - Scenario Highlights

- 1/28/16 Newly dx'd T2b Prostate ca
 - 1/10/16 PTA TRUS Prostate Bx: Adenoca, Gleason 4+5; PTA PSA 9.1 in November
 - 1/23/16 PTA CT and bone scans negative for LAD or distant mets
- 1/28/16 (repeat)Rectal: prostate with induration throughout right lobe; no inguinal LAD; IMP: T2b prostate adenocarcinoma
- 2/7/16 MRI Pelvis: Focal abnormality within right base and mid gland; extension to right seminal vesicles. No enlarged LNs seen
- 2/19/16 Prostatectomy with extended pelvic LN dissection. No obvious tumor extension to pelvic LNs. Potential extraprostatic disease extension in region of right base
- 2/19/16 Prostatectomy Path: Adenoca, Gleason 4+3, Score 7, with greater than focal extraprostatic extension. Seminal vesicles neg. 0/28 LNs positive

Clinical T - Answer & Rationale

cT2b

- cT2b per PTA MD exam & again per consulting MD on repeat DRE
 - Induration throughout right lobe –tumor is apparent
 - Involves more than one one-half of lobe, but not both lobes
- Why not cT3b - MRI showed extension to right seminal vesicles?
 - No MD documentation supporting imaging findings
 - MD stage was cT2b - his stage does not corroborate imaging
- Use of *imaging* has not been *proven* to be *consistently* helpful for “cT”

	T	N	M	Stage	Descriptor
Clinical	cT2b				

Clinical N - Answer & Rationale

cN0

- PE 1/23/16 revealed no palpable inguinal adenopathy
- PTA 1/23/16 CT scan showed no evidence of lymphadenopathy
- Assign cN0
 - Imaging is not required to assign cN0
 - cN0 category may be based on physician judgement and nomograms
 - Although Imaging not reliably helpful for cT - can be used in eval of cN/cM

	T	N	M	Stage	Descriptor
Clinical	cT2b	cN0			

Clinical N - Answer & Rationale

cN0 continued

➤ **Tips:**

- Prostate cancer nomograms are prediction tools
 - MDs use nomograms which indicate probability of nodal involvement
 - Takes into account T category/DRE, PSA, Gleason
 - MD would likely document concern for cN1 or order further studies
 - Imaging most often used in T3, T4, or case with potential/probability of N1
- Any nodal involvement in Prostate = Stage 4 disease

	T	N	M	Stage	Descriptor
Clinical	cT2b	cN0			

Clinical M - Answer & Rationale

cM0

- No mention signs or symptoms of mets on exam
- PTA 1/23/16 CT and bone scans showed no evidence of mets
- The 2/7/16 MRI showed no metastasis
- Assign cM0
 - Only physical exam required to assign cM0
 - If signs or symptoms then further study would likely be done
 - Clinical stage composition can include cM0, cM1 or pM1

	T	N	M	Stage	Descriptor
Clinical	cT2b	cN0	cM0		

Clinical Stage Group

Clinical Stage Group = IIB

- AJCC stage composition cT2b cN0 cM0 = Stage IIB
 - with PSA of 9.1
 - with Gleason score 9
- Stage IIB includes:
 - Any T1-T2 (including T2a, T2b, T2c)
 - Gleason score 8 or greater
- Descriptor is 0
 - No clinical descriptor applies to this case

	T	N	M	Stage	Descriptor
Clinical	cT2b	cN0	cM0	2B	0

pT - Answer & Rationale

pT3a

- Adenocarcinoma Gleason 4+3=7 with extraprostatic tumor extension
 - Extraprostatic extension greater than focal
 - Prostate capsular circumference penetrated by carcinoma measured 1cm
 - pT3 disease subcategorized
 - pT3a – extraprostatic extension
 - pT3b – seminal vesicles
- No pathologic seminal vesicle invasion was identified
 - **MRI findings were disproved!**

	T	N	M	Stage	Descriptor
Pathologic	pT3a				

pN & pM - Answer & Rationale

pN0

- 28 regional lymph nodes dissected
 - 0/8 external iliac
 - 0/6 obturator
 - 0/3 hypogastric
 - 0/7 common iliac
 - 0/4 presacral
- All lymph nodes pathologically negative = pN0

cM0

- No clinical evidence of distant mets
- CT, Bone Scan, MRI all negative for distant mets
- In absence of path proven mets, Clinical M used in pathologic stage
- Assign cM0

	T	N	M	Stage	Descriptor
Pathologic	pT3a	pN0	cM0		

Pathologic Stage Group

Path Stage Group = III

- AJCC stage composition **pT3a pN0 cM0 = Stage III**
- Descriptor is 0
 - No pathologic stage descriptor applies to this case

	T	N	M	Stage	Descriptor
Pathologic	pT3a	pN0	cM0	3	0

Completed Staging

- TNM stage as recorded in registry database:

	T	N	M	Stage	Descriptor
Clinical	cT2b	cN0	cM0	2B	0
Pathologic	pT3a	pN0	cM0	3	0
SS2000	Code 2 –Regional by Direct Extension				

- SS2000:
 - Code 2 includes extraprostatic extension and extracapsular extension whether unilateral, bilateral or not stated

Key Points or Tips

- Use caution with imaging reports in prostate cancer for cT disease extension
 - Look for MD documentation and interpretation of imaging report
 - Need supporting documentation by MD confirming he/she concurred
 - Use only if MD used in staging
- Gleason score may be different for clinical or pathologic stage
 - Observe timeframes used for staging
 - Clinical: use biopsy or TURP, only information known at that time
 - Pathologic: all information used, highest of Bx/TURP/Prostatectomy

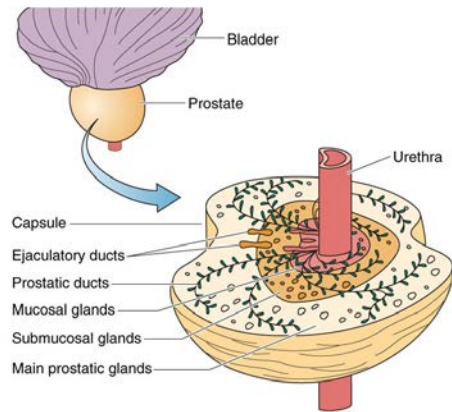
Pop Quiz

- What would the path stage be if no lymph nodes removed on prostatectomy?

	T	N	M	Stage	Descriptor
Clinical	cT2b	cN0	cM0	2B	0
Pathologic	pT3a	pNX	cM0	99	0

- pN requires microscopic exam of at least one LN
- Must assign pNx if no LNs removed
- For prostate if not T4 or M1 with NX, Stage group cannot be assigned

Case # 3 Prostate



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Case #3 Prostate - Scenario Highlights

- PTA 3/14/16 TRUS bx pos(+) for Adenoca; Gleason 4+5; PSA 23.2. MD stage of cT2b
- 3/24/16 Patient began Lupron and Bicalutamid
- 4/12/16 DRE at this facility after bx; 30 gram prostate with nodularity and induration extending throughout left lobe. IMP: T2b prostate ca
- 5/2/16 MRI: left prostate mass with extracapsular extension. No LAD by size criteria. No clear seminal vesicle invasion. No osseous lesions
- 5/20/16 Radical prostatectomy w/LN dissection: No obvious LN mets observed surgically and no obvious extraprosatatic disease
- 5/20/16 Prostatectomy Path: Adenoca with positive bilateral invasion seminal vesicles No Gleason grade assigned. Per path report no significant treatment effect from hormone therapy. Negative margins

Case # 3 Prostate

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Clinical T - Answer & Rationale

cT2b

- PTA dx T2b prostate ca. Repeat DRE per consulting MD confirmed cT2b.
 - Nodularity/Induration throughout left lobe
 - Tumor involves more than one one-half of lobe, but not both lobes
- Preop MRI w/extracapsular extension but no seminal vesicle invasion
 - Imaging findings **not** used to assign clinical T category for this case
 - No supporting documentation by MD confirming he concurred with findings
 - MD stage of cT2b takes priority
- DRE is the critical component for cT staging
 - Physical exam and DRE; what was palpable

	T	N	M	Stage	Descriptor
Clinical	cT2b				

Case # 3 Prostate

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Clinical N - Answer & Rationale

cN0

- No documentation regional lymph nodes were clinically suspected
- Preop MRI was done after start of first course treatment with hormone ablation, however, it does confirm lack of suspicious nodes
- Assign cN0
 - Imaging is not required to assign cN0
 - cN category based on physician judgement and nomograms
 - Registrar can assign cN0 if no mention of concern for LN mets
 - MD would likely document if concern for cN1 disease

	T	N	M	Stage	Descriptor
Clinical	cT2b	cN0			

Clinical M - Answer & Rationale

cM0

- H&P were performed with no mention of signs or symptoms of distant mets.
- Assign cM0
 - Only physical exam required to assign cM0
 - If signs or symptoms of mets then further study would likely have been done
 - Clinical stage composition can include cM0, cM1 or pM1

	T	N	M	Stage	Descriptor
Clinical	cT3b	cN0	cM0		

Clinical Stage Group

Clinical Stage Group = **IIB**

- AJCC stage composition cT2b cN0 cM0 = Stage IIB
 - with PSA of 23.2ng/ml (>20)
 - with Gleason score of 9
- Stage IIB includes any T1-T2 (including T2a, T2b etc.)
- Descriptor is 0
 - No clinical descriptor applies to this case

	T	N	M	Stage	Descriptor
Clinical	cT2b	cN0	cM0	2B	0

pT - Answer & Rationale

pT3b

- Adenoca of prostate with invasion of seminal vesicles bilaterally
 - Gleason grade was not determined
 - Pathologist noted patient received neoadjuvant therapy with no treatment effect
 - Pathologist staged this as pT3b.
- NOTE: Per NCCN Guidelines hormone therapy prior to surgery for prostate cancer is NOT considered neoadjuvant therapy.
- Only neoadjuvant therapy delivered as part of a clinical trial can be designated as neoadjuvant for prostate

	T	N	M	Stage	Descriptor
Pathologic	pT3b				

pN - Answer & Rationale

pN1

- 26 regional lymph nodes resected
 - 0/3 external iliac
 - 2/13 obturator
 - 1/4 hypogastric
 - 0/6 presacral
- 4 distant lymph nodes resected
 - 0/4 common iliac- negative
- 3 lymph nodes were pathologically positive = pN1
 - Pathologist staged this a pN1

	T	N	M	Stage	Descriptor
Pathologic	pT3b	pN1			

Pathologic M - Answer & Rationale

cM0

- No clinical evidence of distant mets
- In absence of path proven mets, Clinical M status is used in path stage composition
 - Pathologic stage composition can include cM0, cM1, pM1
- cM0 only requires history & physical exam
 - No symptoms or signs of metastasis is cM0
 - Imaging is not required

	T	N	M	Stage	Descriptor
Pathologic	pT3b	pN1	cM0		

Pathologic Stage Group

Path Stage Group = **IV**

- AJCC stage composition **pT3a pN1 cM0 = Stage IV**

Descriptor = 0

- Androgen Deprivation Therapy (ADT) with Lupron prior to surgery does not qualify as neoadjuvant therapy per NCCN Guidelines
- Neoadjuvant descriptor of 4 should not be coded in this case

➤ Tip: Any lymph node involvement in prostate equals Stage IV

	T	N	M	Stage	Descriptor
Pathologic	pT3b	pN1	cM0	4	0

Completed Staging

- TNM stage as recorded in registry database:

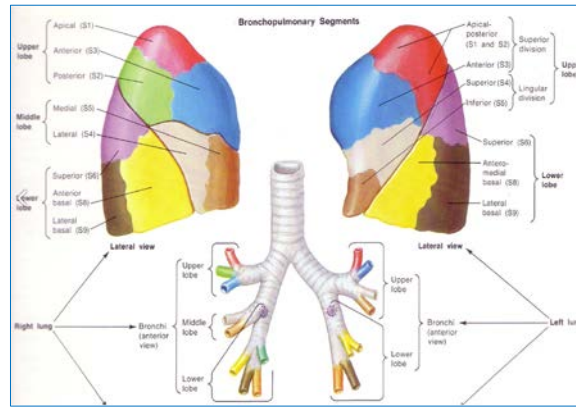
	T	N	M	Stage	Descriptor
Clinical	cT2b	cN0	cM0	2B	0
Pathologic	pT3b	pN1	cM0	4	0
SS2000	Code 4 –Regional, Direct Extension & Regional LNs				

- SS2000:
 - Extraprostatic extension and bilateral seminal vesicle invasion, plus
 - Involvement of regional lymph nodes

Key Points or Tips

- There is no neoadjuvant therapy for prostate cancer outside of clinical trials
- Lupron prior to prostate surgery is not considered neoadjuvant treatment
- Pathology report stated neoadjuvant therapy
 - Clinical info in path report can be helpful to fill in missing info sometimes, however pathologist usually does not have complete clinical info
 - **Therefore, Must analyze information in context with other/complete case information**
 - In this case info was misleading if taken out of context

Case # 4 Lung



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Case #4 Lung - Scenario Highlights

- 2/4/16 PE with bilateral supraclavicular LAD and left neck mass concerning for malignancy. FNA Left supraclavicular mass PD non small cell carcinoma
- 2/4/16 CT Neck: bilateral supraclavicular LAD; two small rt apical lung nodules
- 2/13/16 Tumor Board: Extensive LAD w/unidentifiable primary lung cancer
- 2/13/16 CT Chest: indeterminate right apical pulmonary nodules and diffuse mediastinal, axillary, paratracheal, lower cervical LAD, and multiple foci bone mets
- 2/20/15 PET: Diffuse LAD in mediastinum, let axilla, lower cervical regions c/w malignancy, most likely lymphoma. Multiple foci within bones c/w mets
- 2/22/16 Left level V neck nodes excisional bx: PD adenocarcinoma, c/w lung primary
- Patient treated with chemo and radiation

Case # 4 Lung

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Clinical T - Answer & Rationale

cT0

- Patient presented with extensive LAD w/unidentifiable primary lung carcinoma.
- Small apical pulmonary nodules were never stated to be malignant or suspicious
- This is not TX "cannot be assessed". No primary lung tumor was able to be identified.
- When adequate workup fails to identify primary tumor, assign cT0 - No evidence of primary tumor

	T	N	M	Stage	Descriptor
Clinical	cT0				

Case # 4 Lung

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Clinical N - Answer & Rationale

cN3

- FNA of **supraclavicular** LN was positive for malignancy, and
 - Excision/dissection of LNs from deep supraclavicular area was positive for PD adenocarcinoma c/w lung primary
 - N3 = metastasis in contralateral mediastinal, contralateral hilar, ipsilateral or contralateral scalene, or **supraclavicular** lymph nodes
- TIP: FNA or Exc Bx with microscopic exam during diagnostic workup always = cN

	T	N	M	Stage	Descriptor
Clinical	cT0	cN3			

Clinical M - Answer & Rationale

cM1b

- Imaging confirms metastatic disease
 - Left axillary nodes involved
 - Skeletal bone mets
- cM1b = Distant mets *in Extrathoracic organ(s)*
 - Did you update your manual with errata?

	T	N	M	Stage	Descriptor
Clinical	cT0	cN3	cM1b		

Clinical Stage Group

Clinical Stage Group = IV

- AJCC stage composition **cT0 cN3 cM1b = Stage IV**
 - Any T with Any N and M1b = Stage IV
 - **Any T includes T0**
- Descriptor is 0
 - No clinical descriptor applies to this case

	T	N	M	Stage	Descriptor
Clinical	cT0	cN3	cM1b	4	0

pT, pN, pM & Stage Group - Answer & Rationale

- Patient did not have resection of the primary tumor
- Rules for pathologic stage classification were not met
- cM1b cannot be used in path stage since rules for path stage not met
- All categories, T, N, M blank
- Stage group cannot be blank in registry software. Code to 99
- Descriptor is 0

	T	N	M	Stage	Descriptor
Pathologic	blank	blank	blank	99	0

Completed Staging

- TNM stage as recorded in registry database:

	T	N	M	Stage	Descriptor
Clinical	cT0	cN3	cM1B	4	0
Pathologic				99	0
SS2000	Code 7 – Distant				

- pT, pN, pM are left blank, only stage group completed
- SS2000:
 - Bone mets and distant axillary lymph node mets coded as distant disease
 - Regardless of whether primary tumor was identified or whether regional LNs were involved

Key Points or Tips

Bonus content

- When adequate workup fails to identify a primary tumor, assign cT0
- Lung nodules (NOS) cannot be assumed to malignant. There must be documentation indicating they are felt to be tumor nodules or represent involvement
- Post treatment CT scan several months later showed no change in these apical nodules supporting these are not malignant
- **TIP: cTx has 2 meanings:**
 - 1.) Lung tumor is apparent but TS or features describing lung mass extension is non-specific, and unable to define a T category = cannot be assessed/cTX
 - 2.) Occult tumor. Only evidence is positive sputum or brushings (one enough-both not required) AND there are no LN mets and no distant mets= cTx cN0 cM0 Stage OC

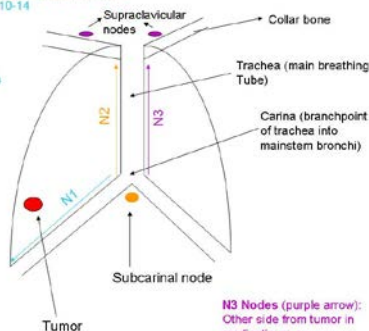
N1-3 Breakpoints that change stage

N1 Nodes (blue arrow) Nodes distal to the carina

- *"Double digit nodes" = #s 10-14
- *10 = Hilar nodes
- *11 = Interlobar nodes
- *12 = Lobar nodes
- *13 = Segmental nodes
- *14 = Subsegmental nodes

N2 Nodes (orange arrow) Same side in

- mediastinum plus aortic nodes (not shown) and subcarinal nodes
- *Same side "Single digit nodes" = # 2-6
- *2= Upper paratracheal nodes
- *3= prevascular nodes and retrotracheal nodes
- *4=Lower paratracheal nodes
- *5=Subaortic (not shown)
- *6=Pra-aortic
- *7=Subcarinal
- *8 = paraesophageal
- *9=pulmonary ligament



N3 Nodes (purple arrow):
Other side from tumor in
mediastinum +
supraclavicular nodes

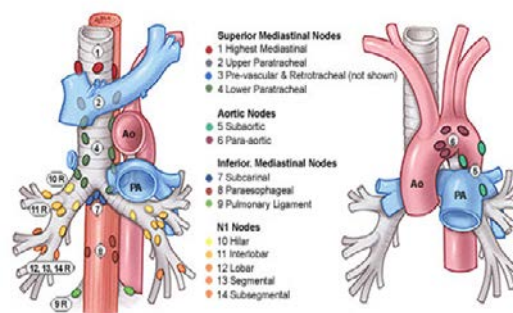
- Simplified LN diagram

- "An introduction to Lung Cancer
Dr. Weiss @
<http://cancergrace.org>

Case # 4 Lung

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Case # 5 Lung



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Case #5 Lung - Scenario Highlights

- 6/7/16 PTA CT: RUL mass completely obstructs RUL - extends along upper lobe bronchi to mediastinum and through hilum c/w malignancy. Enlarged mediastinal LNs c/w local tumor spread
- 6/12/16 Bronchoscopy: Near obstructing mass occluding take off to RUL. No endobronchial lesion in RML, RLL; Normal LLL and LUL; all brushing/washings negative
- 6/12/16 Lung Bx: positive for small cell carcinoma; IHC most c/w SCLC. Bronchial washing negative for malignancy
- 6/14/15 Brain MRI negative for mets
- 6/14/16 CT Abd/pel negative for mets
- Discharge Summary: Limited stage small cell carcinoma
- Treatment is radiation

Case # 5 Lung

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Clinical T - Answer & Rationale

cT4

- 9.1cm obstructing RUL mass extending along upper lobe bronchi to the mediastinum = T4
- Histology small cell carcinoma
- **Small cell lung cancer is also staged with AJCC TNM**
 - Histologies
 - **Non-Small Cell**
 - Adenocarcinoma
 - Bronchioalveolar (BAC)
 - Squamous Cell carcinoma
 - Large cell carcinoma
 - **Small Cell Carcinoma**
 - **Carcinoid**

	T	N	M	Stage	Descriptor
Clinical	cT4				

Clinical N - Answer & Rationale

cN2

- Physical exam negative for adenopathy in any palpable areas
- Enlarged mediastinal lymph nodes were clinically involved by imaging c/w local tumor spread
- No other suspicious adenopathy identified on imaging
- Historically “limited stage” includes lung tumors with regional node mets

	T	N	M	Stage	Descriptor
Clinical	cT4	cN2			

Clinical M - Answer & Rationale

cM0

- H&P negative for signs or symptoms of metastatic disease
- Brain MRI, CT Ab/pel both negative for distant mets.
- Note, historically “limited stage” meant there was no *distant* mets.
- Assign cM0
 - Only physical exam required to assign cM0
 - If signs or symptoms then further study appropriate
 - Clinical stage composition can include cM0, cM1 or pM1

	T	N	M	Stage	Descriptor
Clinical	cT4	cN2	cM0		

Clinical Stage Group

Clinical Stage Group = **IIIB**

- AJCC staging composition **cT3 cN2 cM0 = Stage IIIB**
- Descriptor is 0
 - No clinical descriptor applies to this case

	T	N	M	Stage	Descriptor
Clinical	cT4	cN2	cM0	3B	0

SCLC “Limited” or “Extensive” stage

- Many MDs still use – 2 stage system for treatment “triage”

Limited Disease Stage

- Cancer encompassed within single radiation field
- Tumor & LNs same lung, same side
- Treatable with goal of therapy cure
- RX: Chemotherapy & Radiation

Extensive Disease Stage

- Cancer cannot be encompassed within a single radiation field
- Tumor throughout lung or on both sides
- Not typically curable but treatable
- RX: Chemotherapy alone

- Cannot use to assign TNM
 - Variable levels of involvement with LD or ED
 - But, information may provide clues to support TNM assignment
 - Extension or Treatment plan

pT, pN, pM & Stage Group - Answer & Rationale

- Patient did not have surgical resection of the primary site
- Rules for classification for pathologic stage were not met
- All categories, T, N, M and Stage group would be blank
- Stage group cannot be blank in registry software. Code to 99
- Descriptor is 0

	T	N	M	Stage	Descriptor
Pathologic	blank	blank	blank	99	0

Completed Staging

- TNM stage as recorded in registry database:

	T	N	M	Stage	Descriptor
Clinical	cT4	cN2	cM0	3B	0
Pathologic				99	0
SS2000	Code 4 – Regional Direct Extension & Regional LNs				

- SS2000:
 - Clinically tumor extended to mediastinum
 - Regional lymph node metastases
 - No distant mets
 - Note: “Limited Stage” does not equal localized disease

Pop Quiz

- Scenario
 - DX bx lung mass squamous cell ca
 - FNA hilar lymph node during clinical workup positive for mets =cN1
 - Lobectomy with LN dissection - All LNs resected were negative for pN0
- What is the pathologic N? **pN1**
- pN criteria met
 - Surgical resection of tumor - pT
 - Microscopic exam of at least one - pN
- Remember to include positive biopsies of nodes from clinical workup
 - Add biopsied nodes to nodes resected cN1 + pN0 = pN1
 - An FNA counts- No reason to doubt FNA diagnosis
 - Does not have to be complete excision of LN

Pop Quiz – Alternate Reality

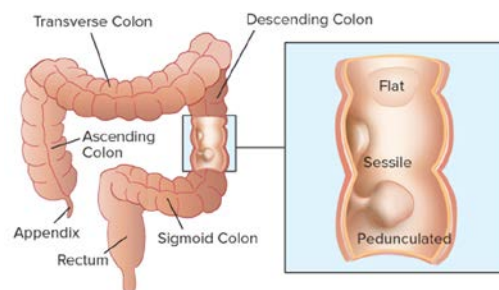
bonus slide

- Scenario
 - Clin: Bx peripheral lung mass (squamous cell ca); FNA hilar lymph node neg =cN0
 - Path: Wedge resection RUL – No further LNs resected
- What is the pathologic N? **pN0**
- pN criteria met
 - Surgical resection of tumor - pT
 - Microscopic exam of at least one - pN
- Remember to include positive biopsies of nodes from clinical workup
 - Add biopsied nodes to nodes resected. pT + **Microscopically proven cN0** = pN0
 - An FNA counts- No reason to doubt FNA diagnosis
 - Does not have to be complete excision of LN

Key Points or Tips

- Small Cell Lung Cancers staged with AJCC TNM lung chapter same as other histologies
- Some MDs still use 2-stage system LD & ED for SCLC treatment planning
 - Does not play a role in TNM stage
- If microscopic exam of LNs during clinical workup – remember to use in path stage when applicable
 - Add biopsied nodes to nodes resected
 - Does not have to be complete excision of LN
 - Microscopic exam can be cytologic or tissue
 - Equally valid for staging

Case # 6 Colon



Case #6 Colon - Scenario Highlights

- 3/19/16 Patient symptomatic with stomach cramps, diarrhea and blood per rectum
- 3/19/16 Colonoscopy revealed 4 polyps removed with snare cautery; one polyp in sigmoid positive for adenoca invading submucosa with positive margins
- 5/16/16 Endoscopic US: residual polyp/mass; no internal iliac or peri-rectal adenopathy
- 5/24/16 Sigmoid colectomy; no residual carcinoma; 0/29 regional LNs positive

Clinical T - Answer & Rationale

cT1

- Symptoms lead to colonoscopy which identified colon polyps
- Pathology revealed adenocarcinoma arising in a polyp involving the submucosa with positive margins
- Invasion of submucosa is cT1
- Clinically patient was felt to have residual disease after the colonoscopy by endoscopic ultrasound

	T	N	M	Stage	Descriptor
Clinical	cT1				

cN & cM - Answer & Rationale

cN0

- Diagnostic workup with endoscopic ultrasound No internal iliac or perirectal adenopathy.
- Assign cN0

cM0

- 5/7/16 physical exam note documented the physician's assessment there was no evidence of metastases.
- Assign cM0

	T	N	M	Stage	Descriptor
Clinical	cT1	cN0	cM0		

Clinical Stage Group

Clinical Stage Group = I

- AJCC stage composition cT1 cN0 cM0 = Stage I
- Descriptor is 0
 - No clinical descriptor applies to this case

	T	N	M	Stage	Descriptor
Clinical	cT1	cN0	M0	1	0

pT - Answer & Rationale

pT1

- No residual carcinoma was identified on the colectomy specimen
- Pathologic stage includes information from dx workup, plus operative observation/findings, plus surgical path resected specimen
- cT1 invasion of submucosa plus no residual adenocarcinoma at colectomy are combined = **pT1**

	T	N	M	Stage	Descriptor
Pathologic	pT1				

pN & pM - Answer & Rationale

pN0

- 29 regional lymph nodes were resected and proven negative on microscopic review
- Assign pN0

cM0

- Physical exam negative for signs or symptoms of mets
- Assign cM0
- In absence of pathologic proven mets, clinical M status is used
 - Pathologic stage "M" can include cM0, cM1, pM1

	T	N	M	Stage	Descriptor
Pathologic	pT1	cN0	cM0		

Pathologic Stage Group

Path Stage Group = **1**

- AJCC stage composition **pT1 pN0 cM0 = Stage I**
- Descriptor is 0
 - No pathologic stage descriptor applies to this case

	T	N	M	Stage	Descriptor
Pathologic	pT1	pN0	cM0	1	0

Completed Staging

- TNM stage as recorded in registry database:

	T	N	M	Stage	Descriptor
Clinical	cT1	cN0	cM0	1	0
Pathologic	pT1	pN0	cM0	1	0
SS2000	Code 1- Localized Disease				

- SS2000:
 - Invasion of submucosa = localized disease

cN Colon Tip

cN

- Must have number estimate for nodal involvement to assign
- If cannot establish =cNX
- Look for imaging clues to number(s)
- MD estimate of number
- May not “downstage” unknown number to lowest N category

pN Colon Tip

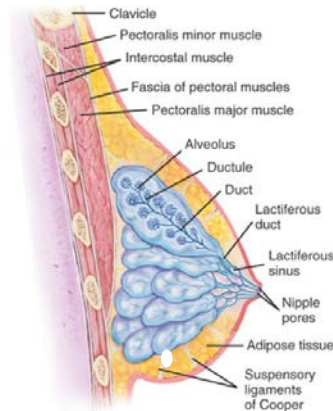
Regional LNs for colon

- Sometimes path report does not state specific name/location
 - Pericolic
 - ileocolic
 - Cecal
 - anterior, inferior, right, left, middle, etc
- Path report only describes “**Mesenteric**” lymph nodes NOS
- **Any mesenteric lymph nodes in resected specimen are regional nodes**

Key Points or Tips

- Pathologic stage includes:
 - Information from dx workup, plus operative findings, plus surgical path resected specimen
- When there is no residual tumor on surgical specimen, pT can be assigned based on clinical tumor size or extension*
 - cT1 +
 - No pertinent operative findings +
 - No residual tumor on surgical specimen = **pT1**
 - *Provided patient did not receive neoadjuvant therapy
- cN: Number of involved nodes needed to assign- otherwise = cNX
- pN: Any mesenteric node in resection specimen is a “regional” node

Case # 7 Breast



Case #7 Breast - Scenario Highlights

- Patient presented with left pelvic pain
- 6/19/16 CT revealed hypodensity pancreatic head with periaortic & retroperitoneal LAD
- 6/27/16 BX of peripancreatic LN histologically c/w lobular breast adenocarcinoma
- 7/15/16 PE: Nodular breasts bilaterally, but no palpable masses. No submandibular, cervical, supraclavicular, infraclavicular or axillary LAD 7/15/16: Patient was started on Femara
- 7/19/16 MRI Breasts; suspicious masses at 6:00 (10x6x6mm) & 7:00 (7x6x9mm) in right breast. Suspicious level 1 axillary LAD, and 2 right internal mammary LN's seen
- 7/19/16 CT Ch/Ab/Pel: Diffuse skeletal sclerosis concerning for bone mets
- 7/26/16 Rt Breast US & Core bx: 17mm mass at 7 o'clock biopsied; 19mm second mass at 6 o'clock (not biopsied); abnormal axillary LN also biopsied
- 8/15/16 MD note confirms mets to bone and LNs (axillary, mesenteric, retroperitoneal LNs)

Hormone started during clinical workup

- Can we use the diagnostic findings that were determined after the patient started Femara?

Per clarification from CAnswer Forum.....

- Although Femara was started during clinical workup, subsequent imaging and biopsy are still considered part of clinical staging and should be used to assign cT and cN
- A few days of hormone therapy would not effect the clinical stage of this tumor
- MD notes indicate the plan was to start hormone therapy while work-up was ongoing due to obvious metastatic disease

Clinical T - Answer & Rationale

cT1c

- **Two tumors** in right breast identified on imaging-both suspicious
 - 1 at 6:00, 10 x 6 x 6 mm by MRI, 19 mm by US (not biopsied)
 - 1 at 7:00, 7 x 6 x 9 mm by MRI, 17 mm by US biopsied
- Only one mass biopsied - not necessary to biopsy each
 - In light of obvious mets, only one tumor biopsied to provide histologic confirmation
- All tumors were confined to breast - Use largest tumor size documented
 - Regardless of difference in tumor size among imaging reports
 - Unless physician specifies imaging that is most accurate

	T	N	M	Stage	Descriptor
Clinical	cT1c				3

Clinical N - Answer & Rationale

cN1

- 7/19/16 MRI showed suspicious level 1 axillary LN
- 7/26/16 US/BX of axillary LN positive for metastatic carcinoma
- Assign cN1
- Note: Internal mammary LNs also *seen* on MRI, however, these were not stated to be suspicious or involved

	T	N	M	Stage	Descriptor
Clinical	cT1c	cN1			

Clinical M - Answer & Rationale

pM1

- Clinical M category can include cM0 cM1 or pM1
- Peripancreatic LN biopsy confirmed distant mets = pM1
- MD confirmed bone mets in his exam note of 8/15/16 = cM1
- M is always assigned based on the highest assessment method
 - (biopsy vs clinical)
- pM1 takes priority over cM1

	T	N	M	Stage	Descriptor
Clinical	cT1c	cN1	pM1		

Clinical Stage Group

Clinical Stage Group = IV

- AJCC stage composition cT1c(m) cN1 pM1 = Stage IV
- Descriptor is **3**
 - There are two distinct breast masses one at 7:00 and another at 6:00
 - Although both tumors were not biopsied, multiple tumors were identified on imaging.
 - Biopsy of all tumors identified not required to code this as multiple tumors (m)

	T	N	M	Stage	Descriptor
Clinical	cT1c	cN1	pM1	4	3

Pathologic T - Answer & Rationale

pT blank

- pT cannot be assigned in the absence of a surgical resection
- The treatment plan did not include resection of the primary site

	T	N	M	Stage	Descriptor
Pathologic	blank				

Pathologic Stage N - Answer & Rationale

pN blank

- pN cannot be assigned in the absence of resection of the primary tumor
- While patient had a core biopsy of a single regional lymph node during clinical workup, in the absence of primary tumor resection, this remains a clinical procedure and is not eligible for pN

	T	N	M	Stage	Descriptor
Pathologic	blank	blank			

Pathologic M - Answer & Rationale

pM1

- Patient has pathologic proven distant mets
- Patient underwent a peripancreatic lymph node FNA during clinical workup
- An FNA of visceral lesion is adequate for pathologic evaluation of distant mets.

	T	N	M	Stage	Descriptor
Pathologic	blank	blank	pM1		

Pathologic Stage Group

Pathologic Stage Group = 4

- pM1 disease qualifies case for pathologic stage w/o tumor resection
- Descriptor is 0
 - No descriptor applies to the path stage

	T	N	M	Stage	Descriptor
Pathologic	Blank	Blank	pM1	4	0

Completed Staging

- TNM stage as recorded in registry database:

	T	N	M	Stage	Descriptor
Clinical	cT1c	cN1	pM1	4	3
Pathologic			pM1	4	0
SS2000	Code 7-Distant				

- SS2000:
 - Patient has distant metastases to mesenteric and retroperitoneal lymph nodes and bone mets.
 - The presence of distant mets is always coded as distant stage regardless of primary tumor involvement or whether regional lymph nodes were involved

Pop Quiz

- Wouldn't the correct AJCC path stage be cT1c cN1 pM1 Stage 4, without blanks? **YES!**
- When you have pM1 w/o primary site resection, clinical T & N appropriate

	T	N	M	Stage	Descriptor
Clinical	cT1c	cN1	pM1	4	3
Pathologic	cT1c	cN1	pM1	4	0

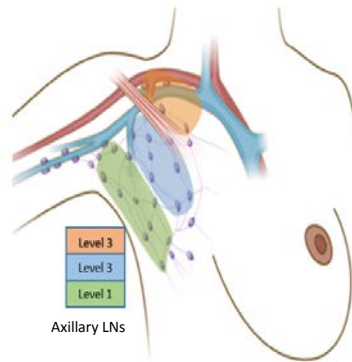
See Chapter 1, table 1.7, page 11

- Blanks are a registry software compromise in this situation
- Valid AJCC cT or cN categories appropriate for inclusion in pathologic stage composition not yet in the registry allowable values list
- Will be for 8th edition

Key Points or Tips

- If multiple tumors present- biopsy of all tumors not required to assign stage
 - "T" category based on documented size of largest tumor
 - Use "m" descriptor for multiple primary tumors in a single site
- A few days of hormonal therapy not likely to effect clinical stage of tumor
 - Not considered neoadjuvant treatment
- M always assigned based on highest assessment method
 - pM1 takes priority over cM1
- In absence of primary tumor resection, evidence of path proven mets - pM1- qualifies case for pathologic stage

Case # 8 Breast



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Case #8 Breast - Scenario Highlights

- 5/10/16 Palpable 4cm firm moveable mass in right axilla. Bilateral breasts exam neg for any palpable abnormality
- 5/12/16 Biopsy of right axillary lymph node positive for ductal carcinoma
- 5/16/16 Bilateral MRI negative for any parenchymal breast masses but confirmed suspicious axillary mass
- 6/16/16 PET confirms suspicious enlarged R axillary LN 3.8cm; no evidence of any breast mass bilaterally; No evidence malignancy in abdomen, pelvis or thorax.
- 6/25/16 Treatment plan: neoadjuvant ACT followed by XRT to right axilla, then Arimidex
- 10/14/16 Right axillary lymph node dissection revealed 2/8 lymph nodes positive for metastatic ductal carcinoma with treatment effect

Case 8 Breast

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Clinical T - Answer & Rationale

cT0

- Physical exam and further diagnostic workup with imaging did not reveal evidence of a primary breast mass
- MD comments this is an occult breast cancer
- Assign cT0 – No evidence of primary tumor

	T	N	M	Stage	Descriptor
Clinical	cT0				

Case # 8 Breast

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Clinical N - Answer & Rationale

cN1

- Palpable suspicious axillary mass
- Imaging confirmed suspicious axillary mass
- Right axillary lymph node biopsy positive for metastatic ductal ca
- Assign cN1

	T	N	M	Stage	Descriptor
Clinical	cT0	cN1			

Clinical M - Answer & Rationale

cM0

- Physical exam was negative for signs or symptoms of mets
- Assign cM0
- PET scan confirmed no evidence of distant mets
- In absence of pathologic proven mets, cM0
 - Clinical stage "M" can include cM0, cM1, pM1

	T	N	M	Stage	Descriptor
Clinical	cT0	cN1	cM0		

Clinical Stage Group

Clinical Stage Group = IIA

- AJCC stage composition cT0 cN1 cM0 = Stage IIA
- Descriptor is 0
 - No clinical descriptor applies to this case

	T	N	M	Stage	Descriptor
Clinical	cT0	cN1	cM0	2A	0

Pathologic T - Answer & Rationale

pT blank

- No primary tumor was ever identified
- No resection of the primary site could be done to meet the rules for a “yp” pathologic stage

	T	N	M	Stage	Descriptor
Pathologic	blank				

Pathologic N - Answer & Rationale

pN blank

- Axillary lymph node dissection performed s/p neoadjuvant therapy
- 2 of 8 LNs positive for metastatic ductal ca - equivalent to a ypN1a
- However, no primary tumor ever identified - Occult breast cancer
- No resection of the primary site meeting rules for pathologic stage
- Without a ypT (or a pM1) no path stage - no home - for our ypN1a



	T	N	M	Stage	Descriptor
Pathologic	Blank	Blank			



Pathologic N - Orphan



Pathologic M - Answer & Rationale

M blank

- The rules for pathologic stage classification for this case were not met
- No resection of the primary site could be done

	T	N	M	Stage	Descriptor
Pathologic	blank	blank	blank		

Pathologic Stage Group

Pathologic Stage Group = **None**

- No pathologic stage group exists for this case
- However, registry database requires non blank stage group value
- Assign code 99
- Descriptor is 0
 - No pathologic descriptor applies

	T	N	M	Stage	Descriptor
Pathologic	Blank	Blank	Blank	99	0

Completed Staging

- TNM stage as recorded in registry database:

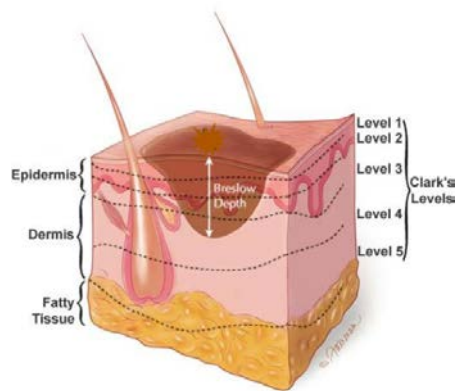
	T	N	M	Stage	Descriptor
Clinical	cT0	cN1	M0	2A	0
Pathologic				99	
SS2000	Code 3 Regional Lymph nodes only				

- SS2000:
 - No primary tumor identified.
 - Evidence of axillary regional lymph node mets
 - No distant mets

Key Points or Tips

- LN dissection alone without resection of primary tumor not eligible for pathologic stage
- ypN1a information can be used by the MD
 - Assess response to treatment
 - Plan further treatment
 - Patient Prognosis
- If no pT or ypT, the pN or ypN info can't be used – no pathologic stage
- Exception: when there is also pM1 disease

Case # 9 Melanoma



Case #9 Melanoma - Scenario Highlights

- PTA Bx positive malignant melanoma right arm deltoid area – Path report not available
- 5/5/16 Surg Cons PE: 3x2cm dark pigmented lesion Rt deltoid; soft tissue mass 4cm medially from biopsy site; no palpable axillary, epitrochelar, cervical, or supraclav LAD
- PTA PET/CT 4/29/16 info per MD note: soft tissue mass right upper arm etiology uncertain with no evidence lymphadenopathy or distant mets
- 5/15/16 Wide Excision right arm melanoma lesion. Excision of soft tissue mass. Attempted sentinel lymph node procedure but no nodes identified
- 5/15/16 Pathology: Malignant melanoma Breslow 1.9mm, Clark's level IV. No surface ulceration, mitotic index 4/mm², no LVI, no satellites; Soft tissue mass (+) in-transit mets or node completely replaced by metastatic melanoma; Final margins negative

Clinical T - Answer & Rationale

cT blank

- No initial biopsy information is available
- No information on tumor thickness, ulceration or mitoses
- Referring physician would have info but records did not include
- Can't use X - that would indicate MD did not examine patient, or did a biopsy but there were no findings from the specimen
- Registrar had no access to information = cT blank

	T	N	M	Stage	Descriptor
Clinical	blank				

Clinical N - Answer & Rationale

cN2c

- Patient had no palpable lymphadenopathy
 - Presence of a nearby soft tissue mass 4cm from primary melanoma lesion is potential in-transit mets
 - Apparent lesions or mass near primary melanoma site may indicate melanoma satellites or in-transit mets
 - In-transit mets without nodal mets = cN2c
- Tip: Distance from primary lesion defines terminology
- Within 2 cm from primary lesion = tumor satellite
 - Greater than 2 cm from primary lesion = in transit mets

	T	N	M	Stage	Descriptor
Clinical	Blank	cN2c			

Clinical M - Answer & Rationale

cM0

- MD exam does not mention any signs or symptoms of mets
- Assign cM0
- PET/CT also negative for evidence of distant mets

	T	N	M	Stage	Descriptor
Clinical	blank	cN2c	cM0		

Clinical Stage Group

Clinical Stage Group = III

- AJCC stage composition **Any T with \geq N1 cM0 = Stage III**
 - Any T in this case includes cT blank
 - Case is able to be stage grouped due to cN2c disease
- Descriptor is 0
 - No clinical descriptor applies to this case

➤ Caution:

- cT *blank* in other stage compositions may not equal a valid stage group
- May equal unknown stage/99

	T	N	M	Stage	Descriptor
Clinical	blank	cN2c	cM0	3	0

Pathologic T - Answer & Rationale

pT2a

- 1.9mm Breslow tumor thickness = pT2
- No surface ulceration = subcategory "a"
- Mitoses in this case plays no role (only a factor with T1)
- Clarks level plays no role TNM Stage

	T	N	M	Stage	Descriptor
Pathologic	pT2a				

Pathologic N - Answer & Rationale

pN2c

- Confirmed in-transit metastasis in soft tissue mass
- Dye injection did not identify sentinel nodes
- pN2c = evidence of in transit mets but negative regional LNs

	T	N	M	Stage	Descriptor
Pathologic	pT2a	pN2c			

Pathologic M - Answer & Rationale

cM0

- In absence of pathologic proven mets, clinical M status is used in pathologic stage composition
- PE and PET/CT negative for signs or symptoms of mets
- Assign cM0

	T	N	M	Stage	Descriptor
Pathologic	pT2a	pN2c	cM0		

Pathologic Stage Group

Pathologic Stage Group = IIIB

- AJCC stage composition pT2a pN2c cM0 = Stage IIIB
- Descriptor is 0
 - No descriptor applies to this case

	T	N	M	Stage	Descriptor
Pathologic	pT2a	pN2c	cM0	3B	0

Completed Staging

- TNM stage as recorded in registry database:

	T	N	M	Stage	Descriptor
Clinical	Blank	cN2c	cM0	3	0
Pathologic	pT2a	pN2c	cM0	3B	0
SS2000	Code 3- Regional lymph node mets				

- SS2000:
 - Code 3 Regional lymph nodes
 - Includes In-transit metastasis (satellite nodules > 2cm from primary tumor)

Key Points or Tips

Melanoma does not always conform to AJCC staging rules

- Many times partial and/or missing info
 - No info on Breslow, mitotic rate, ulceration
 - Pathology reports are often incomplete
 - Best reports from dermatopathologists
- Can't always assign AJCC staging
 - Collect info that is available
 - May be missing biopsy information
 - Don't use surgical resection for clinical staging
- Refer to Melanoma Critical Clarifications on AJCC Web site

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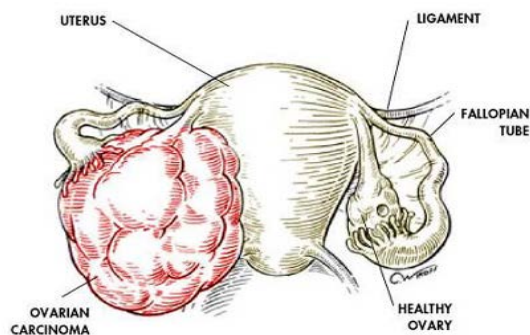
Blank vs X

- When case meets rules for stage classification use X appropriately
- Clinical staging - story of patient diagnosis and workup
 - cTX = Physician did not examine patient, inadequate biopsy
 - cT blank = registrar had no access to information
 - cT blank = No diagnosis or workup – stage classification rules not met
- Pathologic staging – pt's story through surgical treatment
 - pTX = someone lost specimen between OR and path dept
 - pT blank = pt didn't have surgical treatment
 - pT blank = registrar had no access to information
- X is not appropriate when information is missing or unknown

Case # 9 Melanoma

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Case # 10 Ovary



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Case #10 Ovary - Scenario Highlights

- Patient presents with lower abdominal & pelvic pain. Palpable right pelvic mass on exam; H&P otherwise neg. CA-125 negative
- US: large complex mass right adnexa originating from right ovary suspicious for ovarian neoplasm; No LAD noted.
- TAH/BSO/total omentectomy/tumor debulking: Operative findings of omental implants 4-5 cm and peritoneal implants 1-2 cm. Regional LNs on inspection did not look involved. All visible implants debulked.
- Surgical path: PD Serous cystadenocarcinoma right ovary. Omental implant biopsies positive for metastatic serous cystadenocarcinoma. Multiple foci of metastatic serous adenoca in peritoneum. Peritoneal wash negative for malignant cells.

Clinical T, N & M - Answer & Rationale

cTX

- Exam/US show left adnexal/ovarian mass; ovarian cancer suspected
- Findings insufficient to assess/define the "T" category

cN0

- There are no suspicious LNs on ultrasound

cM0

- H&P otherwise negative with no signs or symptoms of distant mets

	T	N	M	Stage	Descriptor
Clinical	cTX	cN0	cM0		

Clinical Stage Group

Clinical Stage Group = Unknown

- AJCC stage composition cTX cN0 cM0 cannot be stage grouped
- Stage is unknown
- Stage group cannot be blank in registry software. Code to 99
- Descriptor is 0
 - No clinical descriptor applies to this case

	T	N	M	Stage	Descriptor
Clinical	cTX	cN0	cM0	99	0

Pop Quiz

- Q: I often see on operative reports “pre-op stage likely 3C ovarian cancer”.
- Can I use this to include in the clinical staging? **YES**
- Per CAnswer Forum:
 “if the physician provides the clinical stage it can be documented in the cancer registry database. There should be microscopic confirmation [at some point], but in these cases you don’t want to lose that physician documentation”
- <http://cancerbulletin.facs.org/forums/forum/ajcc-tnm-staging/education-developed-by-partner-organizations/naaccr-webinars/63400-clinical-classification-for-ovary>**
- Caution: Stage IIIC = cT3c cN0 cM0 If you don’t know which - best option is:
 Any cT cN1 cM0 cT__cN__ cM__ Stage 3C

Pathologic T - Answer & Rationale

pT3c

- There were macroscopic omental implants 3-4 cm intraoperatively
- pT3c = peritoneal mets **beyond pelvis more than 2cm** and/or regional lymph node mets
- Omental implants = peritoneal implants outside pelvis
 - **The omentum is in the abdomen not the pelvis**
- Bx of omental implants positive for metastatic serous cystadenoca

	T	N	M	Stage	Descriptor
Pathologic	pT3c				

Pathologic N & M - Answer & Rationale

pNX

- Intraoperatively lymph nodes did not appear involved
- No lymph nodes were resected
- pN requires microscopic exam of at least one lymph node

cM0

- No signs of distant mets
- In absence of path proven mets, Clinical M used in pathologic stage

	T	N	M	Stage	Descriptor
Pathologic	pT3C	pNX	cM0		

Pathologic Stage Group

Pathologic Stage Group = IIIC

- AJCC stage composition pT3c pNX cM0 = Stage IIIC
- TIP: Per CANswer Forum: Any pT3c combined with NX/N0/N1 would equal Stage IIIC
 - Add pNX to your AJCC manual
 - Only applies to pT3c tumors
- Descriptor is 0
 - No descriptor applies to this case

	T	N	M	Stage	Descriptor
Pathologic	pT3c	pNX	cM0	3C	0

Completed Staging

- TNM stage as recorded in registry database:

	T	N	M	Stage	Descriptor
Clinical	cTX	cN0	cM0	99	0
Pathologic	pT3c	pNX	cM0	3C	0
SS2000	Code 7 – Distant mets				

- SS2000:
 - Extension/mets (contiguous or discontinuous) to omentum is code 7 - Distant
 - Note: TNM and Summary Stage do not match

Ovary Tip

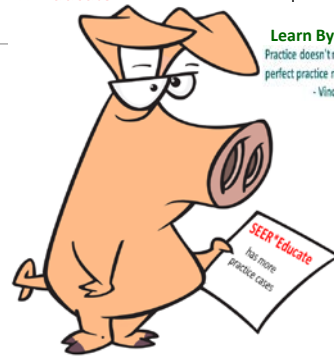
- Intraperitoneal organs and tumor implants
 - Intraperitoneal organ(s) completely covered and supported by peritoneum
 - Tumor seeding on peritoneal surface of intraperitoneal organ(s) reflected in “T” category, not “M”
 - Example:
 - Liver is outside the pelvis and intraperitoneal; entirely covered with peritoneum
 - Tumor implants on peritoneal liver surface =T3a/T3b/T3c
 - Mets in liver parenchyma (inside) the organ = M1

Resource:

<https://goldilocksthe.doc.com/2012/09/10/intraperitoneal-organs-and-retroperitoneal-organs/>

- Clinical stage for ovarian ca not often assigned with values other than X
 - <http://cancerbulletin.facs.org/forums/forum/ajcc-tnm-staging/education-developed-by-partner-organizations/seer-educate-webinars/56678-education-needed-for-ovarian-clinical-t>
 - See also NCRA Cancer Case Studies #18 Ovary
- If MD provided clinical preop stage - Record It
- pT3c with NX can be stage grouped to 3C
 - Clarified in CAnswer Forum by Donna Gress, RHIT, CTR
 - Add note to your staging manual
- Caution- disease spread- is it T or M?

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Learn By Doing
Practice doesn't make perfect,
perfect practice makes perfect!
- Vince Lombardi



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