

# 5.9/8.4 Knowledge Transfer - Transmission to Cancer Registries

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**Note:** Please be advised this information is consistent with the 5.9 BETA application version. Additional changes may occur prior to the final application release.

# Cancer Type/Staging/Details shall be encounter specific

- cancer\_staging, cancer\_staging\_detail & cancer\_type popups were replaced by cancer\_type\_mrp

**Cancer Details**

**Cancer Type**

Primary  Secondary

Dx date:  /  /     Cancer Type/Site:     Status:     Histology:

Laterality:     Cancer Registry Body Site:

**Cancer Staging** ⓘ

Date:     Time:

Staging pending     Insufficient data     No staging system

Clinical stage of disease:     Pathologic stage of disease:     Diagnostic confirmation:

Tumor (T):     Node (N):     Metastasis (M):     Tumor (T):     Node (N):     Metastasis (M):     Prognostic risk score: ⓘ

Clinical:     Pathologic:

Clinical Staged by:     Pathologic Staged By:

Peripheral blood involvement (B):     Histologic grade (G):     Residual tumor (R):     Lymph-vascular invasion (LVI):

Metastasis site 1:     Metastasis site 2:     Metastasis site 3:     Metastasis site 4:

**Staging Detail**

**Breast Cancer** ⓘ Exclusions

ER:  Neg  Pos    PR:  Neg  Pos

% of cells:     % of cells:

HER-2:     SPhase:

FISH:     Tmax (mm):

Ploidy status:  Not tested  Diploid  Aneuploid

**Lymphoma**

Type:

5-year survival:

International Prognostic Index:

Adverse features:  Performance status 2-4  
 Extranodal involvement > 1 site  
 Age > 60  
 Stage III or IV  
 LDH elevated

Clinical stage descriptor:

Pathologic stage descriptor:

**Prostate Cancer** ⓘ Exclusions

Gleason score:  +  =

Positive cores:  out of  Add'l Cores

Rising PSA:  No  Yes

DRE:  No  Yes

PSA Density:  ng/mL/cm<sup>3</sup>

Has patient had bone scan since date of diagnosis?  
 No  Yes

Risk group:

**Testicular Cancer**

Serum tumor markers:

Tumor status:

**Comments:**

Characters left: 1000

**Small Cell Lung Cancer**

Type of small cell:  
 Limited-stage     Extensive-stage

**Chronic Myelogenous Leukemia**

Stage of disease:  
 Stable     Accelerated     Blast crisis

Save & Close    Cancel

## Cancer Type/Staging/Details shall be encounter specific - cont.

- Added 3 new buttons and a label with the following functionality
  - Save as New Record
    - When highlighting a record from a previous encounter you are able to edit/update the record and save it as a new grid row/record
  - Locked Encounter label
    - Displays when the selected grid row is from a locked encounter
  - Save & Close
    - Saves record to the grid and closes the popup
  - Cancel
    - Closes the popup without saving

Staging Detail

Comments:

Characters left: 1000

Save as New Record    Locked Encounter Save & Close    Cancel

## Cancer Type/Staging/Details shall be encounter specific - cont.

- Added the Encounter Date to the Cancer Staging grids
  - Updates to the Cancer Staging grids are consistent throughout the entire KBM

The screenshot displays a software interface titled "Staging" with three main sections, each containing a data grid and control buttons.

**Cancer Type**

Encounter Date	Dx Date	Cancer Type/Site	Laterality	Prim/Sec	Status	Histology	Date	Time	Comments

Buttons: Add, Edit, Remove

**Staging**

Encounter Date	Cancer Type/Site	Clinical T	N	M	Pathologic T	N	M	Prog Risk	B	G	R	LVI	Met 1	Met 2	Met 3	Met 4	Clinical Staged By	Pathologic Staged By

Buttons: Add, Edit, Remove

**Staging Detail**

Encounter Date	Breast CA ER	% Cells PR	HER-2	Gleason Score	Tumor Marker	Tumor Status	Lymphoma Type	Clinical Stage Descriptor	Pathologic Stage Descriptor	Risk Group

Buttons: Add, Edit, Remove

## Cancer Type/Staging/Details shall be encounter specific - cont.

- Added 3 new buttons and a label with the following functionality
  - Save as New Record
    - When highlighting a record from a previous encounter you are able to edit/update the record and save it as a new grid row/record
  - Locked Encounter label
    - Displays when the selected grid row is from a locked encounter
  - Save & Close
    - Saves record to the grid and closes the popup
  - Cancel
    - Closes the popup without saving

Staging Detail

Comments:

Characters left: 1000

Locked Encounter

Save as New Record Save & Close Cancel

## Cancer Type/Staging/Details shall be encounter specific - cont.

- Added 4 new coded values to the existing Histologic Grade picklist

M): Tumor (T): Node (N): Metastasis (M): Prognostic risk score: ⓘ

Pathologic:  **Histologic Grade**

Histologic grade (G):

Metastasis site 2:

**Histologic Grade**

- B-cell
- G1
- G2
- G3
- G4
- GX
- NK (natural killer) cell
- Null cell
- T-cell

Refresh

## The system shall support Pathologic TNM fields

### What does TNM stand for?

- **T** – Stands for the size of the tumor. Tumor size is usually given in centimeters (cm). To understand this in inches, 5 cm is about the same as 2 inches.
- **N** – N stands for [lymph nodes](#) and tells whether the tumor has spread to lymph nodes, and if so, how far away from the tumor they are.
- **M** – M stands for [metastasis](#), that is, the spread of the tumor to other parts of the body.

# The system shall support Pathologic TNM fields

- Created Pathologic TNM fields

- The previous TNM fields supported both Clinical & Pathologic TNM values.
- Separating the values into two sets of fields allows the user to send Clinical & Pathologic values in one record.

The screenshot shows a 'Cancer Staging' form with the following fields and options:

- Date: 04/12/2017, Time: 8:17 AM
- Staging pending  Insufficient data  No staging system
- Clinical stage of disease: [ ] Pathologic stage of disease: [ ] Diagnostic confirmation: [ ]
- Tumor (T): [ ] Node (N): [ ] Metastasis (M): [ ] Prognostic risk score: [ ]
- Clinical: [ ] Pathologic: [ ]
- Clinical Staged by: [ ] Pathologic Staged By: [ ]

Two dropdown menus are open, both titled 'Ngkbn Get Dbpicklist Items V2':

- The left dropdown shows a list of clinical TNM stages: T0 - No evidence of primary tumor, T1 - Clinically inapparent tumor neither palpable nor visible by imaging, T1a - Tumor incidental histologic finding in <= 5% of tissue resected, T1b - Tumor incidental histologic finding in > 5% of tissue resected, T1c - Tumor identified by needle biopsy (e.g. because of elevated PSA), T2 - Tumor confined within prostate, T2a - Tumor involves <= one-half of one lobe, T2b - Tumor involves > one-half of one lobe but not both lobes, T2c - Tumor involves both lobes, T3 - Tumor extends through the prostate capsule, T3a - Extracapsular extension (unilateral or bilateral), T3b - Tumor invades seminal vesicle(s), T4 - Tumor is fixed or invades adjacent structures other than seminal vesicles: bladder neck, exte, TX - Primary tumor cannot be assessed.
- The right dropdown shows a list of pathologic TNM stages: pT2 - Organ confined, pT2a - Unilateral, <= one-half of one lobe, pT2b - Unilateral, involving > one-half of lobe but not both lobes, pT2c - Bilateral disease, pT3 - Extraprostatic extension, pT3a - Extraprostatic extension or microscopic invasion of bladder neck, pT3b - Seminal vesicle invasion, pT4 - Invasion of rectum, levator muscles and/or pelvic wall.



# The system shall support Pathologic TNM fields

- Other Pathologic fields added to cancer\_type\_mrp
  - Pathologic stage of disease
  - Pathologic staged by
  - Pathologic stage descriptor
  - Separating the values into two sets of fields allows the user to send Clinical & Pathologic values in one record.

**Cancer Details**

**Cancer Type**

Primary  Secondary

Dx date:  /  /  Cancer Type/Site:  Prostate Status:  Histology:

Laterality:  Cancer Registry Body Site:

**Cancer Staging**

Date:  04/12/2017 Time:  8:17 AM

Staging pending  Insufficient data  No staging system

Clinical stage of disease:  Pathologic stage of disease:  Diagnostic confirmation:

Clinical:			Pathologic:			Prognostic risk score:
Tumor (T):	Node (N):	Metastasis (M):	Tumor (T):	Node (N):	Metastasis (M):	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Clinical Staged by:  Pathologic Staged By:

Peripheral blood involvement (B):  Histologic grade (G):  Residual tumor (R):  Lymph-vascular invasion (LVI):

## Lymphoma

Type:

5-year survival:

International Prognostic Index:

- Adverse features:
- Performance status 2-4
  - Extranodal involvement > I site
  - Age > 60
  - Stage III or IV
  - LDH elevated

Clinical stage descriptor:

Pathologic stage descriptor:

## The system shall support Pathologic TNM fields - cont.

- Updated the columns on the Cancer Staging grids
  - Updates to the Cancer Staging grids are consistent throughout the entire KBM

The screenshot displays a software interface titled "Staging" with three main data grids. Each grid includes a header row, a scrollable data area, and a set of "Add", "Edit", and "Remove" buttons.

**Cancer Type Grid:**

Encounter Date	Dx Date	Cancer Type/Site	Laterality	Prim/Sec	Status	Histology	Date	Time	Comments
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**Staging Grid:**

Encounter Date	Cancer Type/Site	Clinical T	N	M	Pathologic T	N	M	Prog Risk	B	G	R	LVI	Met 1	Met 2	Met 3	Met 4	Clinical Staged By	Pathologic Staged By
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**Staging Detail Grid:**

Encounter Date	Breast CA ER	% Cells PR	HER-2	Gleason Score	Tumor Marker	Tumor Status	Lymphoma Type	Clinical Stage Descriptor	Pathologic Stage Descriptor	Risk Group
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## The system shall support Pathologic TNM fields - cont.

- Updated the URO HPI templates that had existing TNM fields
  - Removed all Cancer Staging fields and replaced them with the Cancer Staging grid and an Add/Update button that launches the new cancer type mrp popup

**Testicular Cancer (URO) - HPI**

Information on this HPI that has been pre-populated from another HPI must be changed on the original HPI to prevent conflicting documentation.

**Concern:**       Here today for:  Initial visit      Status:  Stable     Improved  
 Follow up studies       Relapsed     Worsened  
 Procedure visit       Without evidence of disease  
 Scheduled follow up

Date of diagnosis:       Month:  Year:   
 Date of initial visit:

**Cancer Staging:**

Encounter Date	Cancer Type/Site	Clinical T	N	M	Pathologic T	N	M	Prog Risk	B	G	R	LVI	Met 1	Met 2	Met 3	Met 4	Clinical Staged By

**Pertinent History:**  None     Family Hx of Testicular Cancer     HIV     Klinefelter's Syndrome     Undescended Testicle  
 Caucasian     Genetic Abnormality in Chromosome 12     History of Testicular Cancer     Multiple Atypical Nevi    Other:

**Prior Treatments:**  
 Chemotherapy             RPLND          
 EBRT             Observation only          
 Radical orchiectomy       

**Associated Symptoms/Pertinent Negatives:**  
 No associated symptoms     No pertinent negatives     All others negative

Neg Pos <input type="radio"/> Abdominal pain <input type="radio"/> Bleeding <input type="radio"/> Bone pain <input type="radio"/> Bruising <input type="radio"/> Chest pain	Neg Pos <input type="radio"/> Cough <input type="radio"/> Dizziness <input type="radio"/> Dyspnea <input type="radio"/> Fatigue <input type="radio"/> Fertility concerns	Neg Pos <input type="radio"/> Fever <input type="radio"/> Gynecomastia <input type="radio"/> Headache <input type="radio"/> Hemoptysis <input type="radio"/> Lower abdominal pain	Neg Pos <input type="radio"/> Low back pain <input type="radio"/> Nausea <input type="radio"/> Pain in scrotum <input type="radio"/> Testicular mass <input type="radio"/> Scrotal swelling	Neg Pos <input type="radio"/> Vomiting <input type="radio"/> Weight gain <input type="radio"/> Weight loss	Other associated symptoms: <input type="text"/>
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Other pertinent negatives:

**Prior Diagnostics/Screening:**  
 No     Yes    Screening Date Findings:  Office Labs/Proc     Diagnostics     Order module

No	Yes	Screening Date	Findings:	Date	Test	Findings
<input type="radio"/>	<input type="radio"/>	<input type="text" value="//"/>	<input type="text" value="//"/>			
<input type="radio"/>	<input type="radio"/>	<input type="text" value="//"/>	<input type="text" value="//"/>			
<input type="radio"/>	<input type="radio"/>	<input type="text" value="//"/>	<input type="text" value="//"/>			
<input type="radio"/>	<input type="radio"/>	<input type="text" value="//"/>	<input type="text" value="//"/>			

Comments:

(Include test in HPI by selecting row and clicking Add to HPI. Reset by clicking Clear.)

# The system shall support the SNOMED CT Morphologic Abnormalities of Neoplasm value set

- Removed Behavior field and Histology picklist
  - The Histology field now launches the SNOMED search tool
  - This allows the provider to search by description or SNOMED code
  - The behavior is part of the SNOMED description/code

The screenshot shows a 'Cancer Details' form with the following fields: Dx date: 1/1, Cancer Type/Site: Prostate, Status: (empty), Histology: (empty), Laterality: (empty), and Cancer Registry Body Site: (empty). A red arrow points to the 'Histology' field. An 'Ngkbn Snomed Search' dialog box is overlaid on top, featuring an 'Enter Search Item:' text box, a 'Search' button, and a large empty area labeled 'Description and SNOMED code'. The dialog box has 'Save & Close' and 'Cancel' buttons at the bottom. The background form also has a 'Cancel' button on the right side.

# The Onc Treatment Summary template shall be updated to capture Cancer Registry data elements

- Added a new Notes field and grid to allow all notes to be saved in the grid and removed all previous note fields from the panel
  - Type field lets you select the type of note you would like to add
  - Still have My Phrase functionality with additional Phrase types

**Notes** ▲

Type:

Sort By:  Summary  Phrase [My Phrases](#) | [Manage My Phrases](#)

Date	Time	Note Type	Note

## The Onc Treatment Summary template shall be updated to capture Cancer Registry data elements - cont.

- Added 5 new fields to the Oncology Medication History panel and grid
  - Time
  - Route
  - Lot #
  - Expiration date
  - Reaction

**Oncology Medication History**

Exclusions

Start: // Stop: // Medication name: Sig:

**Administration**

Date: 04/12/2017 Time: 9:19 AM Dose given: Units given: Route: Rate: Site:

Lot #: Expiration date: // Reaction:

Add Update Clear

Start Date	Stop Date	Medication Name	Sig	Date	Time	Dose given	Units given	Route
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Remove

## This system shall support updated Laterality picklist values

- Updated the existing Laterality picklist with new SNOMED codified values

The screenshot shows a 'Cancer Details' form with several sections. The 'Cancer Type' section includes radio buttons for 'Primary' and 'Secondary', a 'Dx date' field, and a 'Cancer Type/Site' dropdown menu currently set to 'Prostate'. Below this is a 'Laterality' field. The 'Cancer Staging' section includes a 'Date' field (04/12/2017), a 'Time' field (8:17 AM), and a 'Staging pending' radio button. A red arrow points from the 'Laterality' field to a modal window titled 'Ngkbn Get Dbp Items Sortby'. This modal window displays a list of items: 'Left (qualifier value)', 'Midline (qualifier value)', 'Not applicable (qualifier value)', 'Right (qualifier value)', 'Right and left (qualifier value)', 'Unilateral (qualifier value)', and 'Unknown (qualifier value)'. The modal window has 'Refresh', 'OK', and 'Cancel' buttons. The background form also has 'Save & Close' and 'Cancel' buttons at the bottom right.

# Thank You

