

# Staging Tool

*Simplifies the Collection of Valid  
UICC-TNM Staging Data for the  
Princess Margaret Cancer Registry*

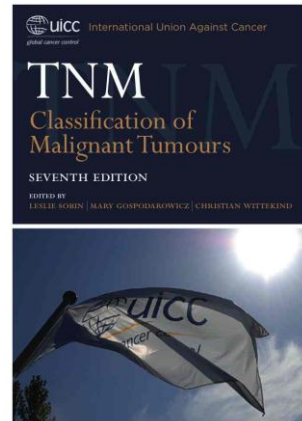


NAACCR 2014

Darlene Dale

Head, Princess Margaret Cancer Registry

June 24, 2014



# Outline

- Background of Princess Margaret Cancer Registry
- History of Staging at the Princess Margaret Cancer Registry
- Development of an Electronic Tool
- Demo of the Tool



# Princess Margaret Cancer Centre

- Opened in 1958 in Toronto
- Cancer centre providing all modalities of treatment for cancer patients
- Currently the only hospital based cancer registry in Ontario
- Part of the **University Health Network** along with 2 acute care facilities, 1 rehabilitation facility
- Over **15,000** new cases per year
- Staging has been an integral part of our Registry since the 1970's beginning with a few sites:
  - ❑ breast, ovary, head & neck
  - ❑ gradually extended to all stageable cancer sites



# Evolution of Staging at PM

*PAST*

*PRESENT*

*FUTURE*

Paper  
form

Online  
System

Data Integration

# Paper-based Staging

PAST

PRESENT

FUTURE

CHECKLIST Centimeter scale

## PHARYNX

Clinic No. \_\_\_\_\_

Name \_\_\_\_\_

Regions: GLOPHARYNX R L  NASOPHARYNX R L  HYPOPHARYNX R L

SITES	1. Posterior wall <input type="checkbox"/>	1. Posterior superior wall (extends from level of soft palate to base of skull) <input type="checkbox"/>	1. Perforator sinus <input type="checkbox"/>
	2. Lateral wall: Tonsil <input checked="" type="checkbox"/> Tonsillar pillars <input checked="" type="checkbox"/> Glossotonsillar groove <input checked="" type="checkbox"/>	2. Lateral wall <input type="checkbox"/>	2. Posterioroid <input type="checkbox"/>
	3. Anterior wall: Anterior 1/3 tongue <input checked="" type="checkbox"/> Free border of epiglottis <input checked="" type="checkbox"/> Vallecula <input checked="" type="checkbox"/>	3. Anterior wall <input type="checkbox"/>	3. Anterior pharyngeal wall <input type="checkbox"/>
	4. Superior wall: Uvula <input type="checkbox"/> Lower surface soft palate <input checked="" type="checkbox"/>	3. Anterior wall: Cheese <input type="checkbox"/> Upper surface soft palate <input type="checkbox"/>	

Clinical Extent Before First Treatment Anywhere: Primary case, examined at clinic  Previous, residual, or recurrent case, examined elsewhere  Extent before first treatment not recorded

PHARYNX BEFORE TREATMENT	GLOPHARYNX	NASOPHARYNX	HYPOPHARYNX	T	REGIONAL NODES	N
	Limited to one site <input type="checkbox"/>	Limited to one site <input type="checkbox"/>	Limited to one site <input type="checkbox"/>	None palpable <input type="checkbox"/>	None palpable <input type="checkbox"/>	N <sub>0</sub>
	Extends into two sites <input checked="" type="checkbox"/>	Extends into two sites <input type="checkbox"/>	Extends into two sites <input type="checkbox"/>	Site: Palpable <input type="checkbox"/> Movable <input type="checkbox"/> Fixed <input type="checkbox"/>	Site: Unilateral <input type="checkbox"/> Bilateral <input type="checkbox"/>	N <sub>1</sub>
	Beyond epiglottis <input type="checkbox"/>	Beyond nasopharynx, base not involved <input type="checkbox"/>	Beyond hypopharynx <input type="checkbox"/>	Fixed to surrounding tissues <input type="checkbox"/>	Fixed <input type="checkbox"/>	N <sub>2</sub>

Clinical Stage: T<sub>2</sub> N<sub>3</sub> M<sub>0</sub> Examiner: *[Signature]* Date: 5.1.71

Extent of Disease at Operation \_\_\_\_\_ Date \_\_\_\_\_

Tissues Removed at Operation \_\_\_\_\_

Extent of Disease on Admission to Clinic (for previous, residual or recurrent cases only): Disease absent  Residual  Recurrent: Within treated area  Beyond treated area  Doubtful

Size of local lesion: Regional nodes Not involved  Involved  Doubtful  Site: Distant metastases: Absent  Present  Doubtful  Site: \_\_\_\_\_

Wound healing: Complete  Incomplete  Not applicable  Infection: Absent  Present

Examiner: \_\_\_\_\_ Date: \_\_\_\_\_

© 1964 Cancer Treatment and Research Foundation, Inc. C.T.R.F.

1964

Form completed

## University Health Network

Disease Reporting & Cancer Staging Form 2.1

Addressograph \_\_\_\_\_

Managing Physician: \_\_\_\_\_ This form was made available on Date: \_\_\_\_\_

If patient should be staged by another PH&O oncologist, indicate name of New Responsible Oncologist: \_\_\_\_\_

One UHN Cancer Staging Form should be completed for each case of registration. Oncologists should complete the form as pretreatment data becomes available.

1. Patient Identification: Name: \_\_\_\_\_ Date of Birth: \_\_\_\_\_ MR#: \_\_\_\_\_

2. Disease is:  Malignant (continue to section 3)  Benign (go to section 7)  Non-Neoplastic (go to section 7)

3.  Check the box if this is a follow-up or consultation visit only (go to section 7) (continue to section 4 if box is not checked)

4. Site of Malignant Disease (malignant disease originated in):

<b>TNM applicable</b>	<b>TNM not applicable</b>
<input type="checkbox"/> Breast <input type="checkbox"/> Digestive System <input type="checkbox"/> Ampulla of Vater <input type="checkbox"/> Anal Canal <input type="checkbox"/> Colon <input type="checkbox"/> Esophagus <input type="checkbox"/> Exocrine Pancreas <input type="checkbox"/> Extrahepatic Bile Ducts <input type="checkbox"/> Gallbladder <input type="checkbox"/> Liver <input type="checkbox"/> Rectum <input type="checkbox"/> Small Intestine <input type="checkbox"/> Stomach	<input type="checkbox"/> Brain & Spinal Cord <input type="checkbox"/> Leukemia <input type="checkbox"/> ALL <input type="checkbox"/> AML <input type="checkbox"/> CLL <input type="checkbox"/> CML <input type="checkbox"/> CMD <input type="checkbox"/> HCL <input type="checkbox"/> Myeloma <input type="checkbox"/> MDS <input type="checkbox"/> Lymphomas <input type="checkbox"/> Hodgkin <input type="checkbox"/> Non-Hodgkin <input type="checkbox"/> Stage Grouping <input type="checkbox"/> Unknown Primary <input type="checkbox"/> Non-Hodgkin

5. Patient Registered with:  Primary malignancy (go to section 6)  Recurrent malignancy (go to section 7)  M0 (no metastases)  M1 (metastases)  MX (not known)

6. TNM Classification: Clinical TNM: T \_\_\_\_\_ N \_\_\_\_\_ M \_\_\_\_\_ Pathological TNM: T \_\_\_\_\_ N \_\_\_\_\_ M \_\_\_\_\_

G/ Grade (bone cancers & sarcomas):  G1 (low)  G2 (intermediate)  G3 (high) S/ Serum Markers (for testis cancer):  S1 (low)  S2 (high)

7. Signature: \_\_\_\_\_ Date: \_\_\_\_\_

FORM 04-078 (01/2002) Help and information can be found on the UHN Internet at <http://uhn.ca>

2002

# Paper-based Staging

*PAST*

*PRESENT*

*FUTURE*

Manual form used was based on previous versions of UICC. TNM staging was recorded by physician

A better, more efficient way was needed to accurately capture cancer staging information on all patients...

# Online Cancer Staging System

*PAST*

*PRESENT*

*FUTURE*

- With expansion of the Electronic Patient Record, an in-house system was developed in 2002 to electronically capture stage
- With the permission of UICC an application developed in-house using the UICC TNM 5<sup>th</sup> edition
- Designed to calculate the stage group based on the individual UICC-T, N and M values entered

# Online Cancer Staging System

PAST

**PRESENT**

FUTURE

Presently all new patients have:

- Medical Record Number (MRN)
- Demographics
- Appointment date
- Responsible oncologist

downloaded into the staging tool



# Online Cancer Staging System Data

*PAST*

***PRESENT***

*FUTURE*

## Also Capture:

- Date of diagnosis
- Reason for referral, disease site group, primary site, morphology and UICC TNM clinical and pathologic elements and stage group
- Laterality appears when appropriate
- Responsible oncologist and staged by

# Online Cancer Staging System Data

PAST

**PRESENT**

FUTURE

Site specific data elements for primary sites that require special factors to calculate stage:

- Thyroid; an age calculator designed to take into account the different staging schemas for patients
  - *based on whether they are under 45 years of age, or older*
- Grade required for bone and soft tissue sarcoma

# Online Cancer Staging System Data

*PAST*

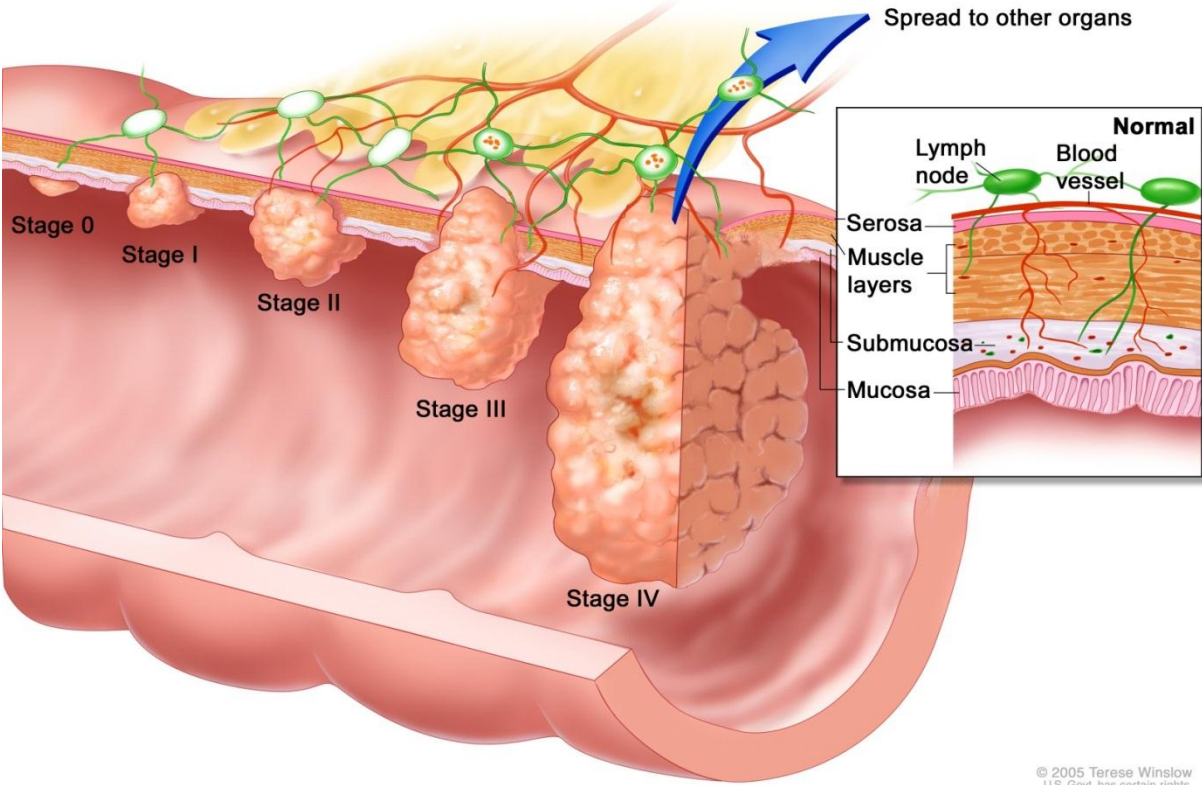
***PRESENT***

*FUTURE*

Additional site specific factors to calculate stage:

- Serum markers for testis cases
- Mitotic rate for Gastrointestinal Stromal Tumours
- Low, high and unknown risk categories for Gestational Trophoblastic Tumours
- Prostate prognostic stage grouping is calculated with Gleason and PSA

# Colon Disease Site



Aaron Di Nardo (Princess Margaret Cancer Centre) is logged in since: April, 28 2014 10:44AM

## Cancer Staging

### Patient Information

Medical Record Number: **123456789**

Patient's Name: **Sample Patient**

Birth Date: **01/01/30** Gender: **F**

Source: **Administrator**

Record Creation Date: **04/28/14**

Last Appt. Date: **04/28/14**

### Case: **88-Malignant-April 28, 2014** New

Disease is:

Reason for referral:  ?

Date of Diagnosis:  /  /

**OVERALL Clinical Stage:** ?

**88**

**OVERALL Path Stage:**

**88**

Responsible Oncologist:

Aaron Di Nardo (Princess Margaret Cancer Centre) is logged in since: April, 28 2014 10:44AM

## Cancer Staging

### Patient Information

Medical Record Number: **123456789**

Patient's Name: **Sample Patient**

Birth Date: **01/01/30** Gender: **F**

Source: **Administrator**

Record Creation Date: **04/28/14**

Last Appt. Date: **04/28/14**

### Case: **88-Malignant-April 28, 2014** New

Disease is:

Reason for referral:  ?

Date of Diagnosis:  /  /

Site Group:

Malignant Disease:

**OVERALL Clinical Stage:** ?

**88**

**OVERALL Path Stage:**

**88**

Responsible Oncologist:

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## Cancer Staging

### Patient Information

Medical Record Number: **123456789**

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Birth Date: **01/01/30** Gender: **F**

Source: **Administrator**

Record Creation Date: **04/28/14**

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Disease is:

Reason for referral:  ?

Date of Diagnosis:  /  /

Site Group:

Malignant Disease:

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Birth Date: **01/01/30** Gender: **F**

Source: **Administrator**

Record Creation Date: **04/28/14**

Last Appt. Date: **04/28/14**

### Case: -Malignant-April 28, 2014 New

Disease is:

Reason for referral:  ?

Date of Diagnosis:  /  /

Site Group:

Malignant Disease:

Morphology ICD-O-3: **<No selection>**

Post Neo-Adjuvant

Clinical T:  ?

Pathological T:

N:

N:

M:

M:

**OVERALL Clinical Stage:**

?

**OVERALL Path Stage:**

Responsible Oncologist:



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## Cancer Staging

### Patient Information

Medical Record Number: **123456789**

Patient's Name: **Sample Patient**

Birth Date: **01/01/30** Gender: **F**

Source: **Administrator**

Record Creation Date: **04/28/14**

Last Appt. Date: **04/28/14**

### Case: -Malignant-April 28, 2014 New

Disease is:

Reason for referral:   Date of Diagnosis:  /  /

Site Group:

Malignant Disease:

Morphology ICD-O-3: **84803 - Mucinous adenocarcinoma**

Post Neo-Adjuvant

Clinical T:

N:

M:

Pathological T:

N:

M:

**OVERALL Clinical Stage:**

**OVERALL Path Stage:**

Responsible Oncologist:

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## Cancer Staging

### Patient Information

Medical Record Number: **123456789**

Patient's Name: **Sample Patient**

Birth Date: **01/01/30** Gender: **F**

Source: **Administrator**

Record Creation Date: **04/28/14**

Last Appt. Date: **04/28/14**

### Case: -Malignant-April 28, 2014 New

Disease is:

Reason for referral:

Site Group:

Malignant Disease:

Morphology ICD-O:

- T0 No evidence of primary tumour
- T1 Tumour Invades submucosa
- T2 Tumour Invades muscularis propria
- T3 Tumour invades through muscularis propria into subserosa, or into non-peritonealized pericolic or perirectal tissues
- T4 Tumour directly invades other organs or structures, and/or perforates visceral peritoneum. Direct invasion in T4 includes invasion of other segments of the colorectum by way of the serosa, e.g. invasion of the sigmoid colon by a carcinoma of the caecum. Tumour that is adherent to other organs or structures, macroscopically, is classified T4. However, if no tumour is present in the adhesion, microscopically, the classification should be pT3.
- T4a Tumour perforates visceral peritoneum
- T4b Tumour directly invades other organs or structures
- TX Primary tumour cannot be assessed

2014 ▾

Clinical T:  ?

N:

M:

Pathological T:

N:

M:

**OVERALL Clinical Stage:**



**OVERALL Path Stage:**

Responsible Oncologist:

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Source: **Administrator**

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Disease is:

Reason for referral:   Date of Diagnosis:  /  /

Site Group:

Malignant Disease:

Morphology ICD-O-3: **84803 - Mucinous adenocarcinoma**

Post Neo-Adjuvant

Clinical T:

N:

M:

Pathological T:

N:

M:

**OVERALL Clinical Stage:**



**OVERALL Path Stage:**

Responsible Oncologist:

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Disease is:

Reason for referral:   Date of Diagnosis:  /  /

Site Group:

Malignant Disease:

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Post Neo-Adjuvant

Clinical T:

N:

M:

Pathological T:

N:

M:

**OVERALL Clinical Stage:**

**OVERALL Path Stage:**

Responsible Oncologist:

# Cancer Staging

## Patient Information

Medical Record Number: **123456789**

Patient's Name: **Sample Patient**

Birth Date: **01/01/30** Gender: **F**

Source: **Administrator**

Record Creation Date: **04/28/14**

Last Appt. Date: **04/28/14**

## Case: **IIIB-Malignant-April 28, 2014**

Disease is:

Appt Date:  /  /

Reason for referral:

Date of Diagnosis:  /  /

Site Group:

Malignant Disease:

Morphology ICD-O-3: **84803 - Mucinous adenocarcinoma**

Post Neo-Adjuvant

Clinical T:

Pathological T:

N:

N:

M:

M:

**OVERALL Clinical Stage:**

**IIIB**

**OVERALL Path Stage:**

**yI**

Responsible Oncologist:

Staged By:

# Prostate Disease Site



# Cancer Staging

## Patient Information

Medical Record Number: **987654321**

Patient's Name: **Sample Patient**

Birth Date: **01/01/14** Gender: **M**

Source: **CS**

Record Creation Date: **04/07/14**

Last Appt. Date: **04/07/14**

## Cases: -Malignant-April 07, 2014

Disease is:

Appt Date:  /  /

Reason for referral:

Date of Diagnosis:  /  /

Site Group:

Malignant Disease:

Morphology ICD-O-3: **<No selection>**

Post Neo-Adjuvant

Clinical T:

Pathological T:

N:

N:

M:

M:

PSA:

Gleason:

Prognostic Grouping:

**OVERALL Clinical Stage:**

**OVERALL Path Stage:**

Responsible Oncologist:

# Cancer Staging

## Patient Information

Medical Record Number: **987654321**

Source: **CS**

Patient's Name: **Sample Patient**

Record Creation Date: **04/07/14**

Birth Date: **01/01/14** Gender: **M**

Last Appt. Date: **04/07/14**

## Cases: -Malignant-April 07, 2014 Select New

Disease is: Malignant

Appt Date: Apr / 7 / 2014

Reason for referral: New Diagnosis of Primary ?

Date of Diagnosis: Jan / 1 / 2014

Site Group: Genitourinary

Malignant Disease: Prostate

Morphology ICD-O-3: **81403 - Adenocarcinoma, NOS**

Search Clear Morphology

Post Neo-Adjuvant

Clinical T: Select ?

Pathological T: Select

N: Select

N: Select

M: Select Copy to Path

M: Select

PSA: Select

Gleason: Select

? Prognostic Grouping:

**OVERALL Clinical Stage:**

?  
Calculate Stages

**OVERALL Path Stage:**

Responsible Oncologist: Select

Hide Patient Info

Print This Page

In Progress

No Show

Cancel

Save

Signoff...



# Cancer Staging

## Patient Information

Medical Record Number: **987654321**

Source: **CS**

Patient's Name: **Sample Patient**

Record Creation Date: **04/07/14**

Birth Date: **01/01/14** Gender: **M**

Last Appt. Date: **04/07/14**

## Cases: -Malignant-April 07, 2014

Disease is:  Appt Date:  /  /

Reason for referral:   Date of Diagnosis:  /  /

Site Group:

Malignant Disease:

Morphology ICD-O-3: **81403 - Adenocarcinoma, NOS**

Post Neo-Adjuvant

Clinical T:   Pathological T:

N:  N:

M:   M:

PSA:  Gleason:   Prognostic Grouping:

Responsible Oncologist:

# Cancer Staging

## Patient Information

Medical Record Number: **987654321**

Source: **CS**

Patient's Name: **Sample Patient**

Record Creation Date: **04/07/14**

Birth Date: **01/01/14** Gender: **M**

Last Appt. Date: **04/07/14**

## Cases: -Malignant-April 07, 2014 ▾

Disease is:  ▾

Appt Date:  ▾ /  ▾ /  ▾

Reason for referral:  ▾

Date of Diagnosis:  ▾ /  ▾ /  ▾

Site Group:  ▾

Malignant Disease:  ▾

Morphology ICD-O-3: **81403 - Adenocarcinoma, NOS**

Post Neo-Adjuvant

Clinical T:  ▾

Pathological T:  ▾

N:  ▾

N:  ▾

M:  ▾

M:  ▾

PSA:  ▾

Gleason:  ▾

Prognosis:  ▾

**OVERALL Clinical Stage:**

**OVERALL Path Stage:**

Responsible Oncologist:  ▾

# Cancer Staging

## Patient Information

Medical Record Number: **987654321**

Source: **CS**

Patient's Name: **Sample Patient**

Record Creation Date: **04/07/14**

Birth Date: **01/01/14** Gender: **M**

Last Appt. Date: **04/07/14**

## Cases: -Malignant-April 07, 2014

Select

New

Disease is:

Malignant

Appt Date: Apr / 7 / 2014

Reason for referral:

New Diagnosis of Primary

Date of Diagnosis: Jan / 1 / 2014

Site Group:

Genitourinary

Malignant Disease:

Prostate

Morphology ICD-O-3:

**81403 - Adenocarcinoma, NOS**

Search

Clear Morphology

Post Neo-Adjuvant

Clinical T: T1c

Pathological T: T3a

N: N0

N: N0

M: M0

Copy to Path

M: M0

PSA: 10

Gleason: 7

Prognostic Grouping:

**OVERALL Clinical Stage:**

?

Calculate Stages

**OVERALL Path Stage:**

Responsible Oncologist: Select

Hide Patient Info

Print This Page

In Progress

No Show

Cancel

Save

Signoff...

# Cancer Staging Tool Administrative System



## Cancer Staging - Code Administration

### Notes

[Administration Notes](#)

### Miscellaneous

[Special Cancer Staging Report](#)  
[Edit Morphology Codes](#) [Import Morphology Codes](#)  
[Clinics to Import](#)

### All Sites

[Disease Sites](#)  
[Disease Site Groups](#)

### General Information

[Preferences](#)  
[Versions](#)

### Common Site Lists

[Benign Diseases](#)  
[Disease Types](#)  
[Laterality](#)  
[Non-Neoplastic Diseases](#)  
[Metastasis'](#)  
[Metastatic Sites](#)  
[Overall Stages](#)  
[Referral Reasons](#)  
[T Codes](#) [N Codes](#) [M Codes](#)

### Specific Site Lists

[Leukemia - Intent of Treatment](#)  
[Leukemia - Intent of Treatment for acute/MDS](#)  
[Leukemia - Non-Intensive therapy](#)  
[Leukemia - Performance Status at Diagnosis\(ECOG\)](#)  
[ORSOS - Physician Not Wanted List](#)

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Aaron Di Nardo (Princess Margaret Cancer Centre) is logged in since: April, 7 2014 11:32AM


## Cancer Staging - Site Administration - Breast

### Site Information

Site Group: Breast 

Code: C50.9

Name: Breast

Version: 5th & 6th & 7th 

### Site Options

This site requires the following information in order for a case to be signed off:

TNM  Metastasis  Grade  Serum  Age  Risk  Laterality  Stageable Uncertain Behaviour  Mitotic Rate

#### For In-Situ Cases:

Only show 'Tis' for Clinical/Path 'T'  Include 'Ta' for Clinical/Path 'T'

### Site Lists

# Online Cancer Staging System Data

PAST

**PRESENT**

FUTURE

- With an audit function we can run a monthly report of cases to be completed and the staff use that report to select the cases they need to be completed
- With the advanced search function we can identify cases using all the various data elements collected. For example you can easily call up all breast cases that are Stage II



# Summary

- The staging data collected in the tool along with the additional information in the Cancer Registry is used extensively for research, clinical and administrative purposes
- Tool was built so that Registry staff can make updates, such as UICC 6<sup>th</sup> edition to UICC 7<sup>th</sup> edition
- Audit process to ensure completeness of all cases
- Tool was designed to allow for enhancements and additional data elements to be added as required:
  - ❑ Date of Diagnosis
  - ❑ Morphology
  - ❑ Clinical Decision Making Variables
    - ER/PR Her2Neu

# Adding Site Specific Factors

[Patients](#) [Audits](#) [Daily Imports](#) [Co-Path Imports](#)

User: Calven Eggert (Princess Margaret Cancer Centre)

## Cancer Staging

### Patient Information

Medical Record Number: **1234567**

Patient's Name: **lastname, firstname**

Birth Date: **05/22/77** Gender: **M** [Edit](#)

Source: **Administrator**

Record Creation Date: **05/22/14**

Last Appt. Date: **05/22/14**

### Case: **TV-Malignant-May 22, 2014** [New](#)

Disease is:

Appt Date:  /  /

Reason for referral:

Date of Diagnosis:  /  /

Site Group:

Malignant Disease:

Laterality:

Morphology ICD-O-3: **<No selection>**

[Search](#)

Post Neo-Adjuvant

Clinical T:

Pathological T:

ER:

N:

N:

PR:

M:  [Copy to Path](#)

M:

HER2:

OVERALL Clinical Stage:

**IV**

[Calculate Stages](#)

OVERALL Path Stage:

**yIV**

Responsible Oncologist:

Staged By:

[Hide Patient Info](#)

[Print This Page](#)

[Record History](#)

[Delete Case](#)

[Delete Patient](#)

[In Progress](#)

[No Show](#)

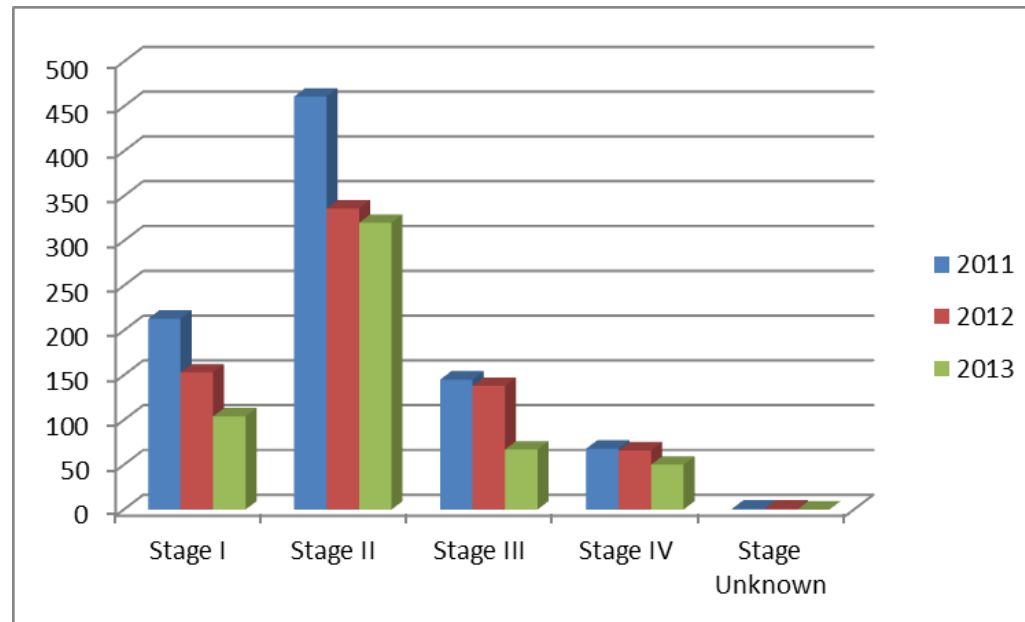
[Cancel](#)

[Save](#)

[Signoff...](#)

# Results of Using Out Staging Tool

## Prostate 2011-2013



Visit Year	Stage I	Stage II	Stage III	Stage IV	Stage Unknown	Total Analytic Cases
<b>2011</b>	213	461	145	68	1	888
<b>2012</b>	153	336	138	66	1	694
<b>2013</b>	104	320	67	50	0	541

# Acknowledgements

- Dr. James Brierley, Medical Director, Cancer Registry
- Aaron Di Nardo, Technical Specialist
- Calven Eggert, Senior Technical Specialist
- Michelle Jiang, Information Analyst
- Gregory Zufelt, CTR
- The Cancer Registry Staff



