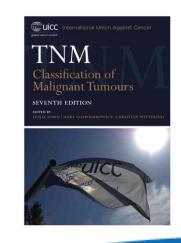
Staging Tool

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



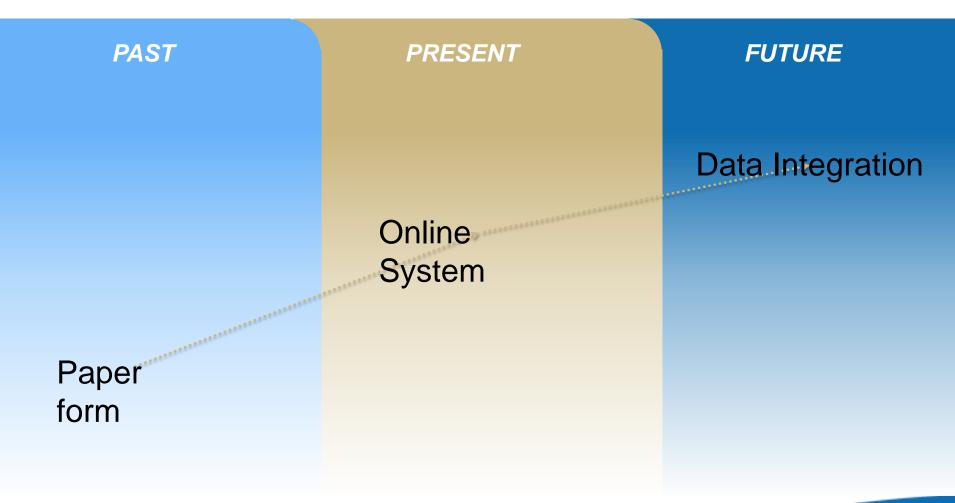


Princess Margaret Cancer Centre

- 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





Paper-based Staging

PAST

PRESENT

FUTURE

2. SHIPS I INTERNATION OF SHIPS OF SHIP	OROPHAN Posterior walk Lateral walk Total Total Total Total Total Antarior walk Potterior, It Free barder Velecula Lower surfac Lower surfac Extent Before Extent Before or the active the or the active the or the active the original to the original to the active the original to the active the original to the active the	ers Ear gro /3 ton- of epi se soft Flest irst tre	politic politi	rded [2. Leteral way 3. Anterior v Cheen Upper	superior wall rom level of soil base of skull) all vall:	loga bor			Clinic No. HYPOPHARYNX Periform sinus 1. Pertericoid	he TÑ	
SHEET	Posterior walk Leteral walk Tonail Tonailer pili Glesso-tranis Glesso-tranis Posterior, I, Free burder Vallecula Superior walk Lower surfac Lower surfac Extent Before OROPHARYN whited to o titles and into o titles	ars (lar gr (lar gr of spi re soft First rive tre	pore politic politic prestment and reco NASOPH Limited to one site		Pasterior (extends palete to palete to Leteral was Choose Upper Primary case.)	superior wall rom lavel of sol base of skull	loga bor			Periform sinus	he TÑ nt of th regio	
2. SHIPS I INTERNATION OF SHIPS OF SHIP	Lateral walt. Tonsillar pill, Tonsillar pill, Glosso-tonsil. Antanior walt. Potterior, I, Potterior, I, Free border Vallecula Superior walt. Uvida Lower surfac. Extent Before Estant before of OROPHARYN mitted to e little Lands into e oldes	(2) ton of api	palate Treatment An etment not reco NASOPH Limited to one site	MAN CONTRACTOR OF THE PROPERTY	2. Leteral was Choose Upper Primary case.	rom level of soil) all all surface soft pall examined at cli	bor			I. Poetericoid	he TK	
Cilnical Lin on Estatwing Beautiful State of the State of	Anterior wall: Posterior, I/ Free border Velecule Superior wall: Uvula Lower surfac Extent Before Extent before If OROPHARYN mitted to e site lands into o either extend	2 tore of spi	palate Treatment An etment not reco NASOPH Limited to one site		3. Anterior o Choose Upper	rall surface soft pale examined at cli			3	nedge medge	organi val	
Cilnical Lin on Estatwing Beautiful State of the State of	Potterior, I/ Free border Vellecula Superior well: Uvula Lower surfac Extent Before Extent before I OROPHARYN mited to a site lands into o sites	e soft First int tre	palate Treatment An etment not reco NASOPH. Limited to one site		3. Anterior o Choose Upper	rall surface soft pale examined at cli		O O	3	nedge medge	organi vali	
Clinical End We have not a second and a second a second and a second and a second and a second and a second	Uvula Lower surfac Extent Before E Extent before f OROPHARYN mited to e site tends into o sites	First irst tre X	Treetment An etment not reco NASOPH. Limited to one site	rded [Chosne Upper Primary case.	surface soft pelo examined at cli		-	2	. Posterior pheryr	egeal wall	
SECORE TREATMENT	Extent before f OROPHARYN mited to e site tands into o sites vond	x	NASOPH. Limited to one site	rded []	1110111		revious, r				I
BEFORE TREATMENT	OROPHARYN mited to a site tends into a sites vand	×	NASOPH. Limited to one site		Н	rhon is not a			esidue	l, or recurrent case,	examined elsewher	.[
BEFORE TREATMENT	nited to e site tends into o sites		Limited to one site	- Corest				-	T	BEGION	AL NODES	T
BEFORE TREATMENT	e site tends into o sites	N	one site		Limited to	one site				REGION	AL HOUES	т
BEORE TREATMEN	o sites	N/			Not fixed	to surrounding t	intent		T.	None palpable		1,
METORE	yand opheryne		Extends into		Extends in	to two sites			T.	Site: Palapable,	Homoleteral [
95 HEA		-	Beyond nesopheryns, bone not involved		Beyond hypopharyns			movable	Contralateral Bilateral			
50					Piriform Invading:	Pastcricoid Invading:	Poet, Phar Invading:	Wall	1	Fixed	8	1
ž		30				Laryna 🗌	Neighbor organ	pring	1	DISTANT M	ETASTASES	+
FINDINGS					Thyroid cart.	DHIS.		П	T	None		1
K E		81	Sandri San		Soft tissue. Prevertebral Prevertebral muscle		-	Present (state si	te)			
	deine	11	Bone involved		direc	ashr	1 .		Ť-	dinast a	-	
Clinical	Stage:	12	. N 3	м	Examiner	4.50	· de	^		Date	5.1.71.	
	of Disease at a			(M)	h engl W(kg)	ordin ogler	biti	dal no	in bit his	Data	alo elu Uryles	
PREVIOUS TREATMEN	ent of Disease use ebsent of local lesion jonal nodes: Not ant metertases: und healing: Co	Resi involve Abse	dual Rec	ed		Ste:		d avec [Double (
HNDINGS AF	iction: A	Absort	Present Examine							Date		
darie Care	car Treatment and B	many	Foundation, 1964	71111	723 12	THE PLAN	11377	31.3 L		contro	23 (710)	c

Digestive System		pital Terreto Wastern Hespital Priva	etwork		
### This form on made evaluation on Collect # places though or section of part for cares Patient Medification:	Disease Repo	orting & Cancer Sta	ging Form 2.1		
Patient should be staged by worker PAR should be completed for each case of requises. Oncolonging by many parts about the completed for each case of requises. Oncolonging should complete the form as profitted data secures available.				Addr	essograph
Patient Mentification: More Management from each case of receivant Orcating its should complete by from an partiend and sections are instance. More	Managing Physician:			This form was made available on Date	
Patient Mentification: More Management from each case of receivant Orcating its should complete by from an partiend and sections are instance. More	Forefact should be about the	(lectrome)	(for same		pun/28/prys)
Patient Identification: Date of Britts Date of Brit				(last name)	(first name)
Date of Birth Date of Birt			case or neoplasm. Oncoop		oata decomes avariable.
2. Disease is: Imministrate Immi	Mamer			_	
3.					(mm/dd/yyyy)
4. Site of Malignand Disease (margurat disease conjuncted in): TMM. applicable					
TMM profigable TMM not applicable TMM not app				ection 7) (con	tinue to section 4 if box is not c
Breast Gentourinary Head and Neek Ophthalmologic Carcinoma of Congressive System Protective Chronic Sinus Carcinoma of Congressive System Protective Carcinoma of Congressive Carcinoma of Congressive Carcinoma of Eyeld Carcinoma of Carcinoma of Loudinal Carcinoma of Colored Carcinoma of Loudinal Carcinoma of Loudinal Carcinoma of Loudinal Carcinoma of Colored Carcinoma of Vis Carcinoma of Six Carcinoma of		Disease (malignant disease o	originated in):		THE
Digestive System		Genitourinary	Head and Neck	Ophthalmologic	
Digestive System Penis Glottis Cardinoma of Eyeld Cardinoma of Exeleptiona Cardinoma of Exeleptiona Cardinoma of Exeleptiona Cardinoma of Eyeld Eyeldonoma Cardinoma of Eyeld Eyeldonoma Cardinoma of Eyeld Eyeldonoma Cardinoma of Exeleptiona Cardinoma of Eyeld Eyeldonoma Cardinoma of Eyeldonoma Cardinoma of Exeleptiona Cardinoma of Eyeldonoma Cardinoma of Eyeldonoma Cardinoma of Eyeldonoma Cardinoma of Exeleptiona Cardinoma of Eyeldonoma Cardinoma of Eyeldonoma Cardinoma of Eyeldonoma Cardinoma of Exeleptiona Cardinoma of Exeleptiona Cardinoma of Eyeldonoma Cardinoma of Eyeldonoma Cardinoma of Exeleptiona Cardinoma of Exeleptiona Cardinoma of Eyeldonoma Cardinoma of Eyeldonoma Cardinoma of Eyeldonoma Cardinoma of Exeleptiona Cardinoma of Eyeldonoma Cardinoma of Eyel					ļ
Ampulla of Vater Prostate Propoplaryrix Cardinoma of Lacrimal Call Call Call Call Cardinoma of Lacrimal Call	Digestive System		Glottis		Leukemia
Anal Caral Tests Lymphomas Melanoma of Choroid Mall Melanoma of Choroid Mall Melanoma of Choroid Mall Melanoma of Choroid Mall Melanoma of Choroid Melanoma of Choroid Melanoma of Choroid Melanoma of Choroid Melanoma of Melanoma of Choroid Melanoma of Skin	li -	☐ Prostate		Carcinoma of Lacrimal	
Colon Ureter Maxillary Sirus Melanoma of Ciliary Body Melanoma of Liliary Body Melanoma of Ciliary Body Melanoma of Liliary Body Melanoma of Skin Mel	i = '	Renai Pelvis		Gland	□crr □cw
Urehra Urehra Masalar State Melanoma of Conjunctive Septiagus Urehra Melanoma of State M			☐ Major Salivary		CMD DHC
Esophagus Oreary Bladder Nasal Fossas Melanoma of Corginctiva Melanoma of Nasal Fossas Mel	Colon				☐ Myeloma ☐ MD
Exorine Panorass	Esophagus				(complete sections 6 & 7 c
Extrahepatic Bile Conct. Uterl Coptanyan; Sarcoma of Orbit Mon-Hodgkin Mon	□ Exorrine Panro				Lymphomas
Could County Co		Gynecologic			
Galikladder Corpus Usen Supraglotis Carecinoma of Skin Stage Grouping Stage Gro	Ducts Ducts	Cervix Uteri		_ ;	
Liver	1				
Rectum				(Excludes eyeld, vulva, penis)	Stage Grouping:
Redum Ouny Musculoskeletal Thorax Others Othe					(continue to section
Grand Intestine	Rectum	_		Thorax	Others
	☐ Small Intestine				Unknown Primary
Patient Registered with:	Stomach		Soft Tissue Sarcoma		
M0 (non-statistics) M1 (metastasis) MX (not M2 M3 M3 M4 M4 M4 M4 M4 M4				(continue to section 6)	(complete sections 6 & 7 o
Ge b zection 6 Ge b zection 7	Patient Registere	d with: Primary malig	nancy R		
6. TNM Classification: Clinical TNM: T N M Pathological TNM: T N M		(go to section 6)	(ao to	M0 (no metastasis) M1 (r	metastasis) MX (not kn
	6. TNM Classification				
G/ Grade (sone cancers & sarcomas): OR (for prostate): OR (for prostate): S/ Serum Markers (for tests cancer): (in a SX 81.43)	Clinical TNM: T	NM_		Pathological TNM: T	_NM
(4.g. CX, G1, G3) (Gleann score) (6.g. CX, S1, S3	G/ Grade (bone ca	ncers & sarcomas):	OR (for prostate):	S/ Serum Markers decled	s canceri'
		(e.g. QX, Q1, Q3)		om)	(e.g. SX, S1, S3)
Risk Factors (for gestational trophoblastic): unknown low high	Risk Factors (tor	gestational trophoblastic): Un	known low hi	gh	

1964



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...



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 5th edition
- Designed to calculate the stage group based on the individual UICC-T, N and M values entered



PAST PRESENT FUTURE

Presently all new patients have:

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

downloaded into the staging tool



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



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



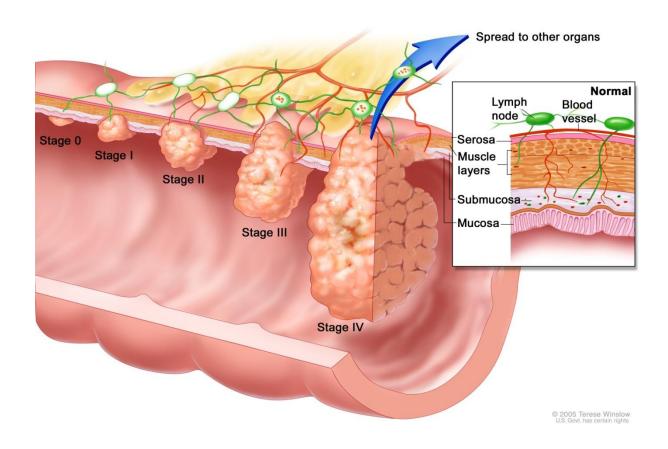
PAST PRESENT FUTURE

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

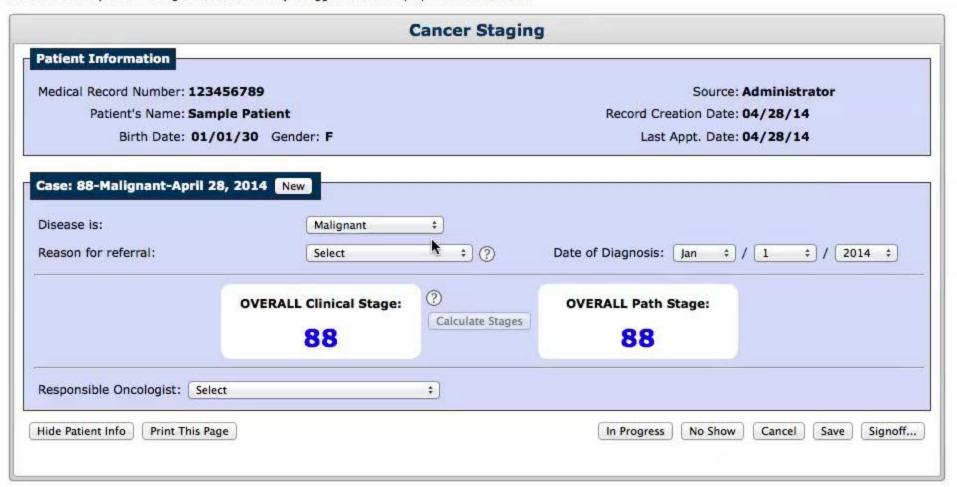


Colon Disease Site









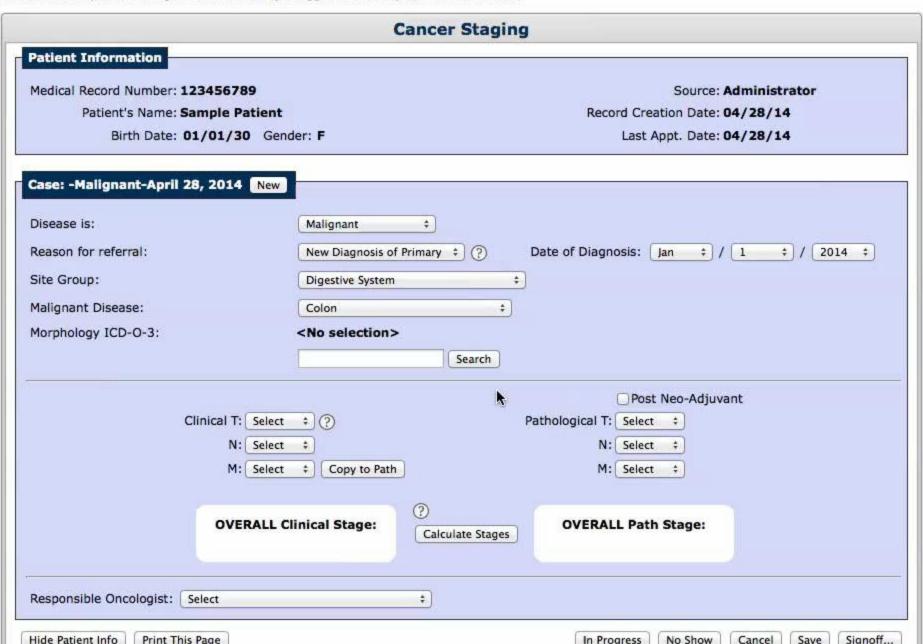


Patient Information					
Medical Record Number: 12345	5789	Source: Administrator			
Patient's Name: Sample	Patient	Record Creation Date: 04/28/14			
Birth Date: 01/01	/30 Gender: F	Last Appt. Date: 04/28/14			
ase: 88-Malignant-April 28,	2014 New				
Disease is:	Malignant ‡				
Reason for referral:	New Diagnosis of Primary ‡ ?	Date of Diagnosis: Jan + / 1 + / 2014 +			
Site Group:	Select	*			
Malignant Disease:	Select ‡				
	OVERALL Clinical Stage: ②	OVERALL Path Stage:			
	Calculate St	88			
	00				
Responsible Oncologist: Select	÷				



	Cancer 5	Staging
Patient Information Medical Record Number: 123 Patient's Name: San Birth Date: 01,		Source: Administrator Record Creation Date: 04/28/14 Last Appt. Date: 04/28/14
Case: 88-Malignant-April : Disease is: Reason for referral: Site Group: Malignant Disease:	Malignant +	Date of Diagnosis: Jan + / 1 + / 2014 +
	OVERALL Clinical Stage: Calculate Calculate	OVERALL Path Stage: e Stages 88
Responsible Oncologist: Sel		In Progress No Show Cancel Save Signoff

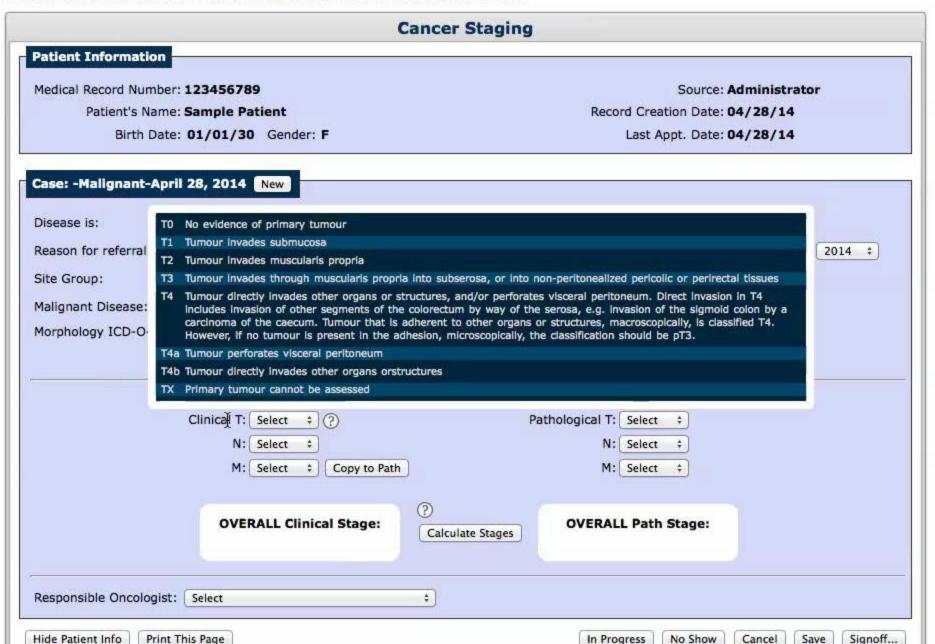




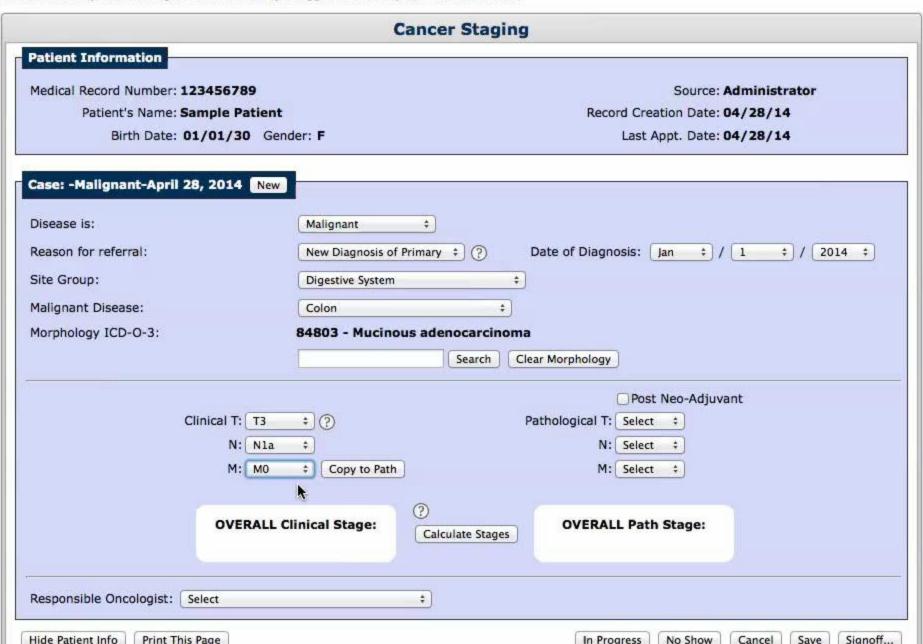




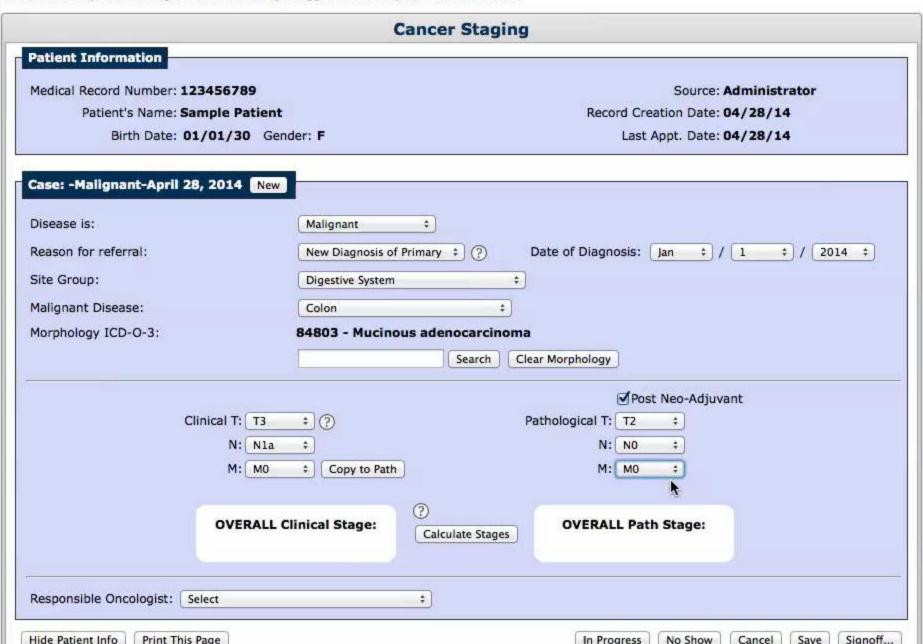












Cancer Staging Patient Information Medical Record Number: 123456789 Source: Administrator Record Creation Date: 04/28/14 Patient's Name: Sample Patient Birth Date: 01/01/30 Gender: F Edit Last Appt. Date: 04/28/14 Case: IIIB-Malignant-April 28, 2014 New Appt Date: Apr \$ / Disease is: Malignant 28 \$ / 2014 ‡ Date of Diagnosis: Jan Reason for referral: New Diagnosis of Primary ‡ 2014 ‡ Site Group: Digestive System Malignant Disease: Colon 84803 - Mucinous adenocarcinoma Morphology ICD-O-3: Search Clear Morphology Post Neo-Adjuvant Clinical T: T3 ÷ (?) Pathological T: T2 N: Nla N: NO M: M0 Copy to Path M: M0 **OVERALL Clinical Stage: OVERALL Path Stage:** Calculate Stages Responsible Oncologist: Staged By: Select Select \$ Print This Page Hide Patient Info Signoff... In Progress No Show Cancel Save

Prostate Disease Site





Medical Record Number: 987654321 Patient's Name: Sample Patient Birth Date: 01/01/14 Gender: M Cases: -Malignant-April 07, 2014 Malignant Appt Date: Apr Appt Date: Appt A		Cancer S	taging		
Patient's Name: Sample Patient Birth Date: 01/01/14 Gender: M Last Appt. Date: 04/07/14 Appt Date: 04/07/14 Last Appt. Date: 04/07/14 Last Appt. Date: 04/07/14 Last Appt. Date: 04/07/14 Appt Date: 04/07/14 Appt Date: 04/07/14 Last Appt. Date: 04/07/14 Appt Date: 04/07/14 Appt Date: 04/07/14 Appt Date: 04/07/14 Last Appt. Date: 04/07/14 Appt Date	Patient Information				
Patient's Name: Sample Patient Birth Date: 01/01/14 Gender: M Last Appt. Date: 04/07/14 Last Appt. D	Medical Record Number: 9876543	21	Source: CS		
Disease is: Malignant New Diagnosis of Primary Date of Diagnosis: Malignant New Diagnosis of Primary Date of Diagnosis: Date of Diagnosis: Malignant Disease: New Diagnosis of Primary Date of Diagnosis: Malignant Disease: Prostate Morphology ICD-0-3: No selection> Post Neo-Adjuvant Pathological T: Select N: Select N: Select N: Select PSA: Select Gleason: Select Prognostic Grouping: OVERALL Clinical Stage: OVERALL Path Stage:					
Disease is: Malignant	Birth Date: 01/01/	14 Gender: M	Last Appt. Date: 04/07/14		
Disease is: Malignant					
Reason for referral: New Diagnosis of Primary ‡ ② Date of Diagnosis: Jan ‡ / 1 ‡ / 2014 ‡ Site Group: Genitourinary ‡ Malignant Disease: Morphology ICD-0-3: No selection> Search Post Neo-Adjuvant Clinical T: Select ‡ ② Pathological T: Select ‡ N: Select ‡ M: Select ‡ Gleason: Select ‡ ② Prognostic Grouping: OVERALL Clinical Stage: OVERALL Path Stage:	ases: -Malignant-April 07, 2014	\$ Select New			
Genitourinary Alalignant Disease: Prostate Alorphology ICD-O-3: No selection> Post Neo-Adjuvant Clinical T: Select ‡ ? N: Select ‡ N: Select ‡ M: Select ‡ Copy to Path PSA: Select ‡ Gleason: Select ‡ ? Prognostic Grouping: OVERALL Clinical Stage: OVERALL Path Stage:	Disease is:	Malignant ‡	Appt Date: Apr + / 7 + / 2014 +		
Adalignant Disease: Anorphology ICD-O-3: Ano selection> Post Neo-Adjuvant Pathological T: Select + N: Select + N: Select + M: Select + Copy to Path PSA: Select + Gleason: Select + Prostate Post Neo-Adjuvant Pathological T: Select + N: Select + N: Select + OVERALL Clinical Stage: OVERALL Clinical Stage: OVERALL Path Stage:	teason for referral:	New Diagnosis of Primary ‡	② Date of Diagnosis: Jan + / 1 + / 2014 +		
Adalignant Disease: Anorphology ICD-O-3: Ano selection> Post Neo-Adjuvant Pathological T: Select + N: Select + N: Select + M: Select + Copy to Path PSA: Select + Gleason: Select + Prostate Post Neo-Adjuvant Pathological T: Select + N: Select + N: Select + OVERALL Clinical Stage: OVERALL Clinical Stage: OVERALL Path Stage:	lite Group:	Genitourinary	*		
Post Neo-Adjuvant			•		
Post Neo-Adjuvant Clinical T: Select	er Theore several services		A		
Post Neo-Adjuvant Clinical T: Select ‡ Pathological T: Select ‡ N: Select ‡ M: Select ‡ Copy to Path PSA: Select ‡ Gleason: Select ‡ Prognostic Grouping: OVERALL Clinical Stage: OVERALL Path Stage:			arch		
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: OVERALL Path Stage:					
N: Select M: Select Copy to Path PSA: Select Gleason: Select PSA: Select OVERALL Clinical Stage: OVERALL Path Stage:	Agente Lo				
M: Select PSA: Select Gleason: Select Prognostic Grouping: OVERALL Clinical Stage: OVERALL Path Stage:					
PSA: Select					
OVERALL Clinical Stage: Calculate Stages OVERALL Path Stage:	· M	: Select \$ Copy to Path	M: Select +		
OVERALL Clinical Stage: Calculate Stages OVERALL Path Stage:		PSA: Select + Gleason: Sele	ect Prognostic Grouping:		
OVERALL Clinical Stage: Calculate Stages OVERALL Path Stage:					
Calculate Stages	ov	FRALL Clinical Stage:	OVERALL Path Stage:		
Responsible Oncologist: Select		Calculate	Stages		
Responsible Oncologist: Select +					
	Responsible Oncologist: Select	\$)			
lide Patient Info Print This Page Save Sign			In Progress No Show Cancel Save Signoff		

	Cancer Sta	ging
Patient Information Medical Record Number: 987654321 Patient's Name: Sample Pat		Source: CS 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: Reason for referral: Site Group: Malignant Disease: Morphology ICD-O-3:	Malignant New Diagnosis of Primary Genitourinary Prostate 81403 - Adenocarcinoma, NO	
M: S	elect ‡	Post Neo-Adjuvant Pathological T: Select N: Select M: Select Prognostic Grouping: OVERALL Path Stage:
Responsible Oncologist: Select	‡)	
Hide Patient Info Print This Page		In Progress No Show Cancel Save Signoff

-

W ...

Cancer Staging

edical Record Number: 987654321		Source: CS			
Patient's Name: Sample Pati	ent	Record Creation Date: 04/07/14 Last Appt. Date: 04/07/14			
Birth Date: 01/01/14	Gender: M				
	Corres Crima				
ses: -Malignant-April 07, 2014 ‡	Select New				
sease is:	Malignant ‡	Appt Date: Apr + / 7 + / 2014 +			
ason for referral:	New Diagnosis of Primary 💠 🕐	Date of Diagnosis: Jan + / 1 + / 2014 +			
te Group:	Genitourinary	÷)			
alignant Disease:	Prostate	*			
orphology ICD-O-3:	81403 - Adenocarcinoma, NOS				
	Search	Clear Morphology			
Clinical T: T	1c + ?	Post Neo-Adjuvant Pathological T: Select \$			
N: N		N: Select ‡			
M: N		M: Select ‡			
	<u> </u>				
PS	A: Select + Gleason: Select	Prognostic Grouping:			
	②				
OVERA	LL Clinical Stage: Calculate Stages	OVERALL Path Stage:			
No. 10 (10 (10 (10 (10 (10 (10 (10 (10 (10	Curtainte Stages				

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 Gen	der: M	Last Appt. Date: 04/07/14
Cases: -Malignant-April 07, 2014 \$ Sele	ect 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
	Copy to Path Select Gleason: Select Clinical Stage: Calculate Stage:	Post Neo-Adjuvant Pathological T: T3a N: N0 M Select M0 M1 M1a M1b M1c OVERALL Path Stage:
Responsible Oncologist: Select	‡]	
Hide Patient Info Print This Page		In Progress No Show Cancel Save Signoff

Cancer Staging

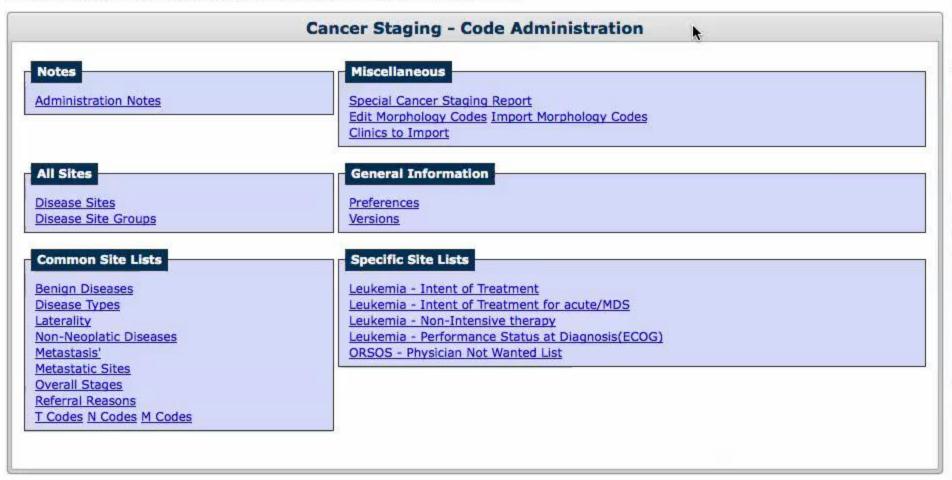
Patient Information		
Medical Record Number: 987654321		Source: CS
Patient's Name: Sample Patient		Record Creation Date: 04/07/14
Birth Date: 01/01/14 Ge		Last Appt. Date: 04/07/14
S. C. 102, 02, 27, 27		EDS. Appl. 50tc. 51/ 51/ 21
Cases: -Malignant-April 07, 2014 \$ Se	lect New	
CasesManghant-Apin 07, 2014 7	nect 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
Se-		
201107-7		Post Neo-Adjuvant
Clinical T: T1c	<u>+</u> ?	Pathological T: T3a ‡
N: No	<u></u>	N: NO ‡
M: Mo	Copy to Path	M: M0
PSA:	10 ‡ Gleason: 7	Prognactic Coupling:
PSA:	10 \$ Gleason: 7	Prognostic Grouping:
	(2)	 _
OVERALL	Clinical Stage: Calculate Stages	OVERALL Path Stage:
se		
Responsible Oncologist: Select	‡	
Hide Patient Info Print This Page		In Progress No Show Cancel Save Signoff

Cancer Staging Tool Administrative System

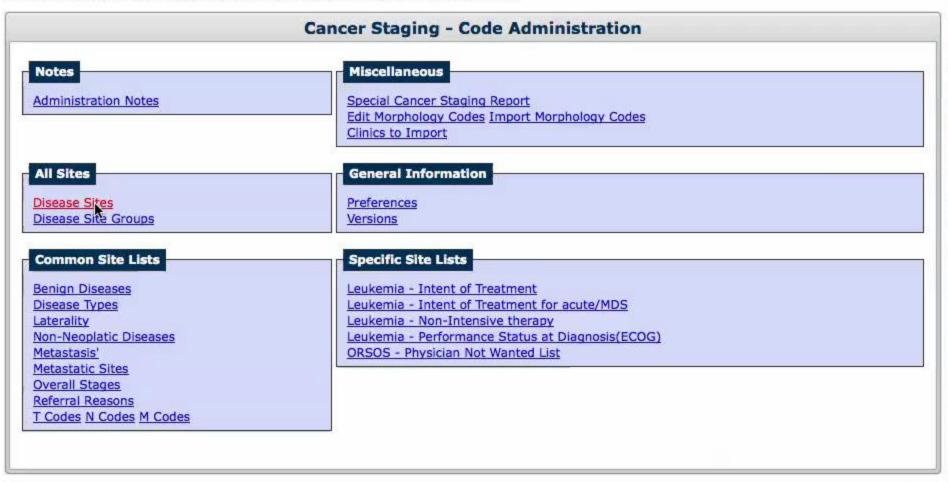














	Cancer Staging - Site Administration - Breast						
Site Inform	ation						
Site Group:	Breast						
Code:	C50.9						
Name:	Breast						
Version:	5th & 6th & 7th - ‡						
Site Options							
This site rec	uires the following information in order for a case to be signed off:						
STNM SM	etastasis 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'						
Save Return	to Sites of Disease						
Site Lists							
Stage Groupi	ngs						
Overall Clinic							
	logical Stage Pathological Stage T Pathological Stage N Pathological Stage M						

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

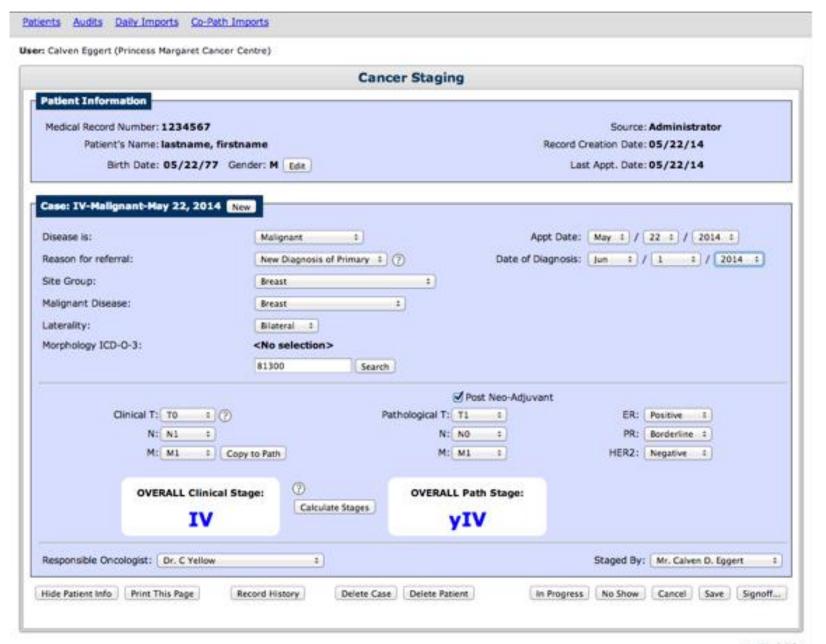


Summary

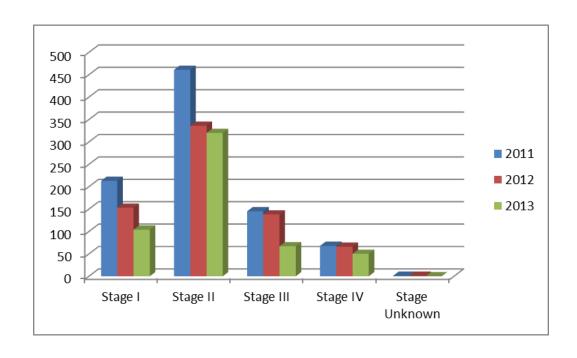
- The staging data collected in the tool along with the additional information in the Cancer Registry is used extensively for research, clinical and administrative purposes
- Tool was built so that Registry staff can make updates, such as UICC 6th edition to UICC 7th edition
- Audit process to ensure 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



Results of Using Out Staging Tool Prostate 2011-2013



Visit Year	Stage I	Stage II	Stage III	Stage IV	Stage Unknown	Total Analytic Cases
2011	213	461	145	68	1	888
2012	153	336	138	66	1	694
2013	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







