NCI SEER Transition Tools – Moving to More Modern Technologies

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Transition from Collaborative Stage to TNM – how can an API help us?



Polling question, please...



Subject Matter Expert Data Entry Tool (Helios – released April 1, 2015)

Adds, modifies, deletes data via the S&PP API

get

requires internet access



Staging and Prognostic and Predictive Factors REST API (S&PP API)

- "Get" both TNM and CS
- "Put" TNM and CS (editable versions)
- Calculate TNM Stage, Summary Stage 2000
- Calculate Combined Stage
- Calculate CS 02.05.50 stage

Public facing S&PP website

requires internet access

Vendors directly using the S&PP API for TNM/CS data collection

(public facing version) TNM 1.1 <future date> CS 02.05.50 CS 02.05.90

(public facing version) TNM 1.0 (Jan. 2016) CS 02.05.50 CS 02.05.90

(public facing version) CS 02.05.50 (April 10, 2015)

S&PP Database

Dev version (Not yet public)

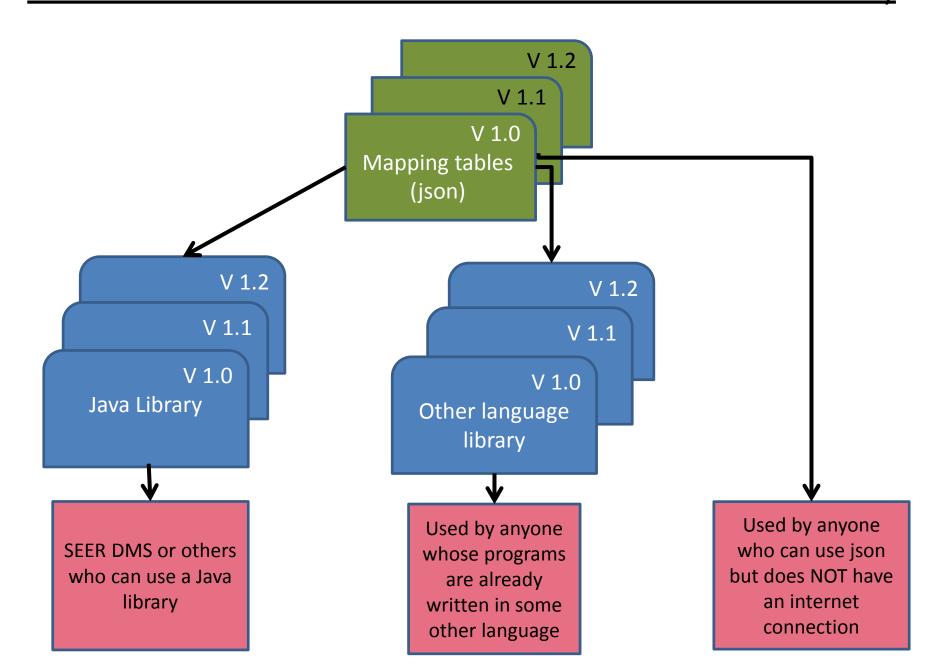
TNM Data (v1.0)

Talks to

- Clinical and Path T, N M with coding instructions for cancer coders
- Data items required for staging
- P&P data item definition and which are required by agency
- Staging algorithms

CS Data version 02.05.50 – static CS Data version 02.05.90 – new histologies and removal of obsolete converted codes

No Internet Connection or do not wish to use the S&PP API directly



SEER Primary Tumor – table Adrenal Gland – schema

General

Table

Footnotes

Schemas 1

5 Rows & 4 Columns

+) Co	ode Summary Stage Manual	Registrar Notes	C→ Summary Stage 2000 T
000	In situ		VALUE IS
	: Noninvasive; intraepithelial		
100	Localized only	Localized (delete)kkkk	VALUE L
	Invasive carcinoma confined to gland of origin		
	Localized, NOS	Invasive carcinoma confined to adrenal gland (delete)	
		Stated as T1 with no other information on extension	
		Stated as T2 with no other information on extension	
		Localized, NOS	
200	Regional by direct extension only	Regional - Direct Extension	VALUE RE
	Extension to:		
	Adjacent tissue(s), NOS	Adjacent connective tissue	
	Connective tissue	(See definition in General Rules, Part I):	
	See definition of connective tissue on page 14	. Gerota's fascia	
	Adjacent organs/structures		
_	Thymus and aortic body:	Stated as T3 with no other information on extension	
	Organs/structures in mediastinum		
	Adrenal (suprarenal):	Adjacent organs/structures:	
	Kidney	Kidney, ipsilateral or NOS	
	Retroperitoneal structures	Retroperitoneal structures including:	
	Parathyroid:	Great vessels:	
	Thuroid	Aorto	

Build intelligent data entry screens (Example 1)

- Registrar enters 2016, 8010, C749
- Vendor asks API which schema is this?
- API answers "Adrenal Gland"
- Vendor asks API for Adrenal Gland, what staging data items should I display to the registrar?
- API answers "Clinical T, N and M, Path T, N and M, RX Summ Surgery/Radiation Sequence, RX Summ Systemic/Surgery Sequence"
- Vendor displays those data items with their pick lists

Build intelligent data entry screens (Example 2)

- Registrar enters 2016, 9136, C749
- Vendor asks API which schema is this?
- API answers "Adrenal Gland"
- Vendor asks API for Adrenal Gland, what staging data items should I display to the registrar?
- API answers "SEER Primary Tumor, SEER Regional Nodes, SEER Mets" (this histology does not TNM 7 stage)"
- Vendor displays those data items with their pick lists

Build intelligent data entry screens (Example 3)

- Registrar enters 2015, 9136, C749
- Vendor asks API which schema is this?
- API answers "Adrenal Gland"
- Vendor asks API for Adrenal Gland, what staging data items should I display to the registrar?
- API answers "CS Extension, CS Lymph Nodes, CS Mets at DX, CS Lymph Nodes Eval, CS Mets Eval, CS Tumor Size, CS Tumor Size/Ext Eval"
- Vendor displays those data items with their pick lists

Benefits of using this infrastructure with an API

For registrars:

 They can be presented with intelligent data entry screens for the transition and beyond

For vendors:

- One mechanism for "getting" data about TNM and CS
 - with various versions of each

For the NCI SEER program

High quality surveillance data from the registries

Other projects that use the SEER API

- Hematopoietic and Lymphoid Neoplasm data
- SEER Rx data
- Solid Tumor data
- Glossary for Registrars

Polling question, please...