

Massey Cancer Informatics Data Sources and Descriptions:

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	Datasets	Source	Description	Years/Timespan	Notes/Caveats
Internal (VCUHS and Massey) data	MCVP billing data	Decision Support	Invoices, diagnoses, billed procedures and demographics for all patient encounters with MCVP providers, both inpatient and outpatient, for any patient who ever met our "of interest" criteria *	1998-current (most recent week)	Includes MCVP billing data from Outreach and RadOnc sites such as Henrico Doctors and SRMC
	MCVH billing & administrative data	Decision Support	Charges, costs, denials, payments, modeled reimbursement, diagnoses, procedures, demographics, etc., for all patient encounters within MCVH, both inpatient and outpatient, for any patient who ever met our "of interest" criteria *	1995-current (most recent week)	Includes census information (attending and unit per day of hospitalization). Includes all supplies, drugs, labs, radiology.
	VCUHS IDX visits data	IDX	Scheduled appointments for clinics of interest and final status (arrived, canceled, rescheduled, no show)	2004-current	
	MCVH Cancer Registry	Cancer Registry	Stage, grade, size, pathology, histology, patient demographics, first course of treatment, death for all incident cases reportable from MCVH	1981-current	Missing 1996, and some recent years not complete
	BMT database	PATS	Clinical characteristics and treatment data for all transplant patients	1988-current	PATS is home-grown system for all forms of organ transplantation that does not meet the research or operational needs of the BMT program and is slated for replacement as soon as possible
	Clinical EMR systems	Cerner Path Shadow; ARIA	Lab and chemistry results; patient height, weight, BMI; orders and prescriptions; radiation doses and tissues treated	1999	Ad-hoc linkage performed as necessary, not replicated in MDAS
	Textual Clinical Data	Cerner	Clinical notes, discharge summaries, radiology dications, etc.	2010-current	
	Hospital Census Data	IDX		2009-current	
	Hospital Deaths	IDX		2010-current	
	Clinical Genomics	Developed Internally	Clinical gene panels	2014-current	
	Clinical Pathology	Cerner	Labs and Chemistry Results	2010-current	
Surgical Pathology Reports	Surg Path Shadow	Surgical Pathology Text Notes	1989-current		
Clinical Trials and Registration	OnCore	Clinical trials administrative and registration data	2011-current		
Palliative care consultations	PC team	MRN, date, source, and reasons for PC consultations	2006-current	PC consults not otherwise signaled by billing, ICD-9 code, etc.	
External data	VHHA (Virginia Hospital and Health Association)	VHHA website (database text files are released quarterly)	Inpatient admits for most of Virginia hospitals including some private practices and rehab institutions	2009-2013	Includes some outpatient data, but not a reliable source for OP stats.
	VBM (Virginia Board of Medicine)	database text files are updated quarterly	Database of physicians with active/inactive/expired licenses in Virginia. Organized by specialty, primary address of practice and secondary addresses. Additional info: on malpractice lawsuits, languages spoken, hours of service, education, certifications, insurance, honors, publications and paid claims	ongoing	Data are kept current only by physicians themselves, therefore can be outdated for many, who don't regularly review their profiles. No technical support is provided by the department for these data.
	HPD (Health Providers Database)	VCU internal network	Database of VA physicians maintained and used by VCU	ongoing	Some physician profiles are outdated; profile info includes physicians' certification, practice, primary practice address, percentage of time spent at that address. Updates must be requested.
	NCI_cnty_mortality03thru07	National Cancer Institute website (excel files)	cancer mortality rates and death counts for prostate, leukemia, breast, lung and bronchus, bladder, non-Hodgkins lymphoma, colon& rectum, and all cancer sites combined. Breakdown by race, sex, VA county	2003-2007	a lot of data for less common cancers and fo counties with small population are suppressed due to low numbers
	SEER Cancer Incidence Rates	SEERStat software	Age-adjusted cancer incidence rates based on SEER data from 2008-2012	2008-2013	Incidence rate is approximated for VA, based on 18 SEER selected regions around the country
	Reported Cancer incidence for Virginia	Virginia Cancer Registry (VCR)	Cancer incidence rates and counts for 25 cancer sites broken down by stage and gender. Data are available for county, health district, state.	2006-2010	New updates will have to be requested from VCR
	Virginia cancer mortality data	Virginia Department of Health	Cancer mortality rates and death counts for 9 major cancer sites broken down by gender. Data are available for county, health districts, planning districts, and state levels.	2005-2009 (aggregated)	New updates will have to be requested from VDH
	SSDI_Deaths	Social Security Administration, downloadable files	All deaths reported to Social Security Administration	1990-deaths reported May 2016	Access to files is provided via VCUHS Enterprise Analytics
	BRFSS (Behavioral Risk Factor Surveillance System)	BRFSS website (SAS files)	Largest telephone survey in U.S. that serves as health risk assessment tool. Data includes: cancer screening questions, diet, smoking habits, obesity, health insurance, exercise, etc.	2000 - 2010	Data can only be evaluated using a statistical software such as SAS or SPSS. Narrowing data region further than a health district is unreliable. When a health district is evaluated, at least 5 years worth of data is recommended to be combined for the topic of interest.
	US Census Population Data	U.S. Census website	Annual population estimates - 2000-2010 (based on U.S. Census 2000) broken down by age, race, gender, county/city for Virginia. Extensive summary data - median household income, poverty %, education levels, etc - for Census 2000 (SF3 files).	2000-2010	More recent data looked up as needed
*	"of interest" currently defined as any encounter that involved an oncologist (regardless of diagnosis), any encounter that included cancer or hematological diagnoses anywhere among all diagnoses (regardless of who provided the care), any admission involving the Palliative Care Unit, any admission ending in death, any patient who had a PC consultation, or any encounter that involved cytogenetics. This definition is flexible and can be modified as needed as new needs are identified. Once a given encounter is identified, all encounters for that person that ever occurred within VCUHS (from 1995 to current data) are also extracted.				