

Update on National Childhood Cancer Registry (NCCR)

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Objectives

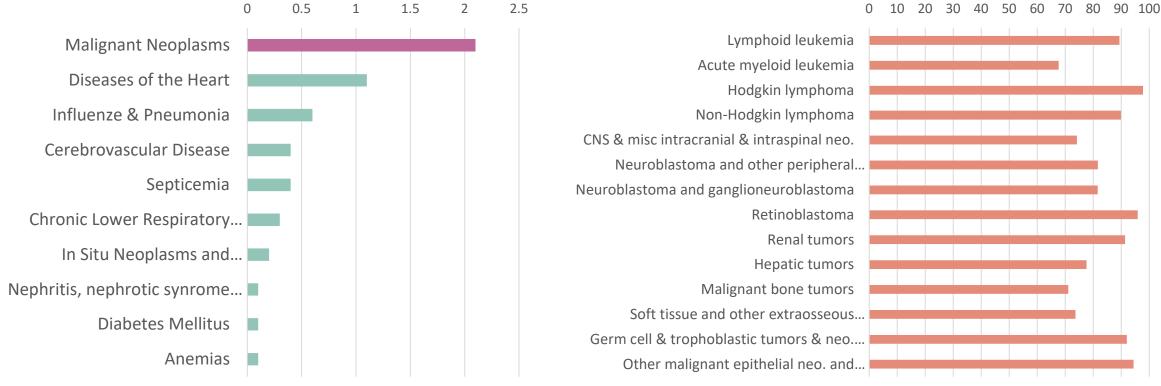
- Discuss the justification for forming a national registry of childhood cancers
- Detail the NCCR infrastructure
- Provide an update on the current status of the NCCR
- Showcase future plans for the NCCR





Why NCCR?

Top 10 Causes of Death from Disease, Age 0-19 deaths per 100,000



CDC WONDER Online Database, released in 2020. http://wonder.cdc.gov/ucd-icd10.html

SEER Cancer Statistics Review, 1975-2018

5-Year Relative Survival (%), 2011-2017 Ages 0-19

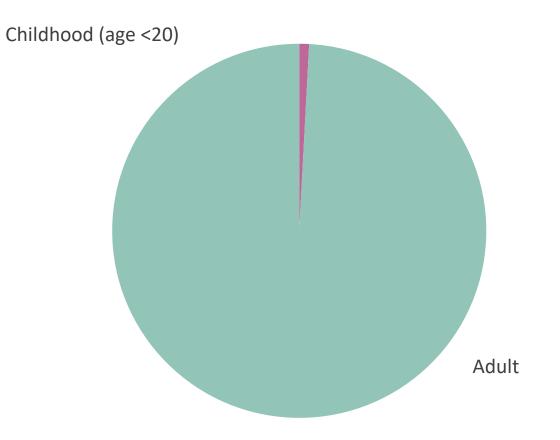


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New Cancer Diagnoses, 2017

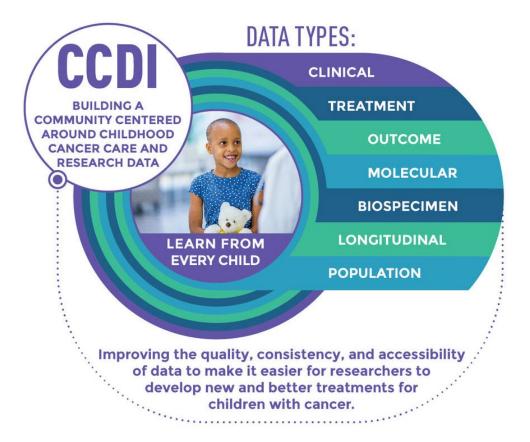




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What is the NCCR?

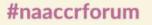


"The idea is to learn from every child with cancer in the United States."

> – Ned Sharpless, MD Director, NCI



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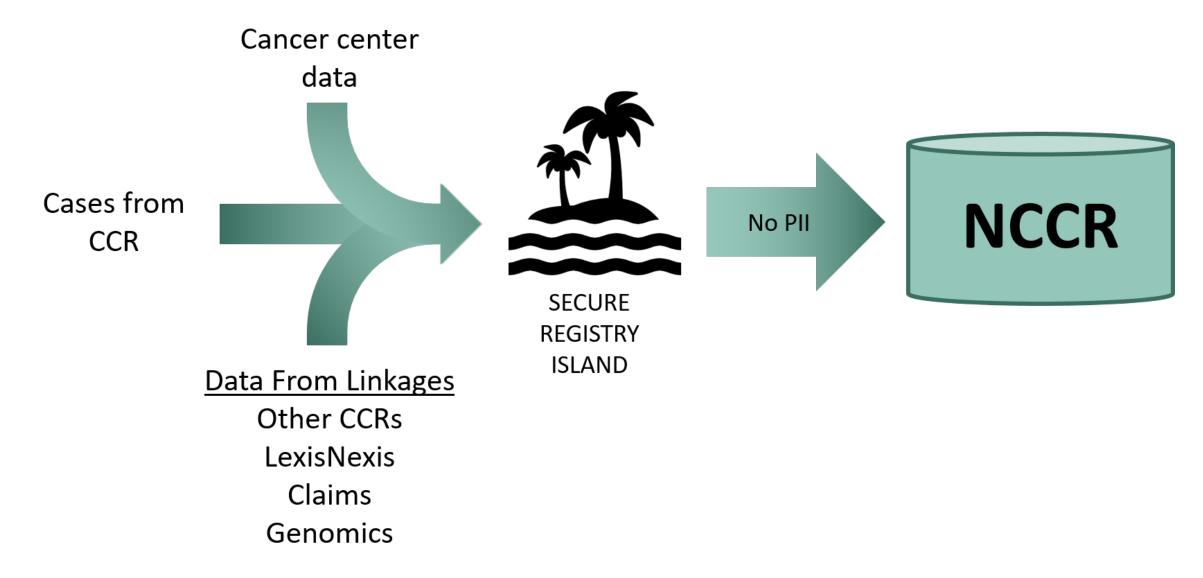


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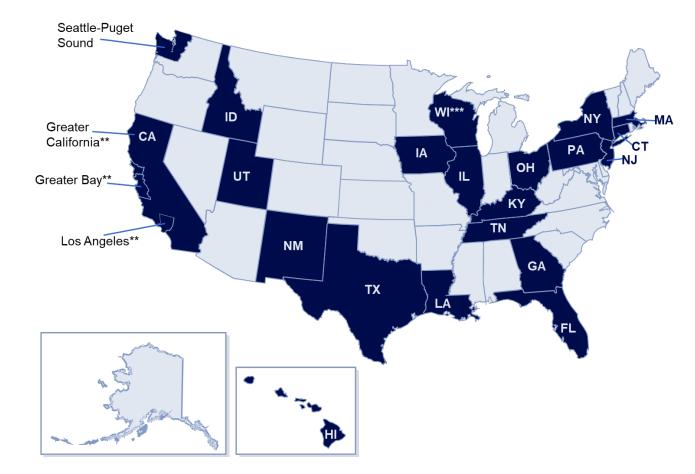
Where are we now?



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NCCR Coverage



23 Participating SEER & NPCR registries represent ~77% of all pediatric cancer cases diagnosed between age 0 and 19 from 1995 to 2017 in the United States



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Residential History Linkage

• Linked SEER registry data with LexisNexis database for residential history to improve future linkages



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Inter-Registry Linkage – Phase I

• Linkage between all SEER registries

- 143,194 total patients in NCCR cohort
- 874 matched pairs

		Manual Review					
		Same Primary	Different Primary	Total			
SAS Algorithm	Same primary	356	<mark>15 (4%)</mark>	371			
	Different primary	<mark>24 (13%)</mark>	157	181			
	Total	380	172	552			



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COG Coverage – Preliminary Analysis (SEER 1995-2017), age <20

Record Source	Registry Record from Confirmed COG facility				
	No	Yes	Lower bound***	Upper bound***	Total
Total Cases	31,265	56,952			88,217
Records only In State facilities* (81%)	20,647	51,071	58.0%		71,718
	No/Unknown	Yes			
In registry state plus other states (11%)	4,530	5,566			10,096
Record only from out of state facility** (7%)	6,088	315	65%	77%	6,403

*COG status of all in state records were validated

**Patient state resident but all records from out of state; cannot verify COG status

***Percent cases definitely seen in at least one COG facility





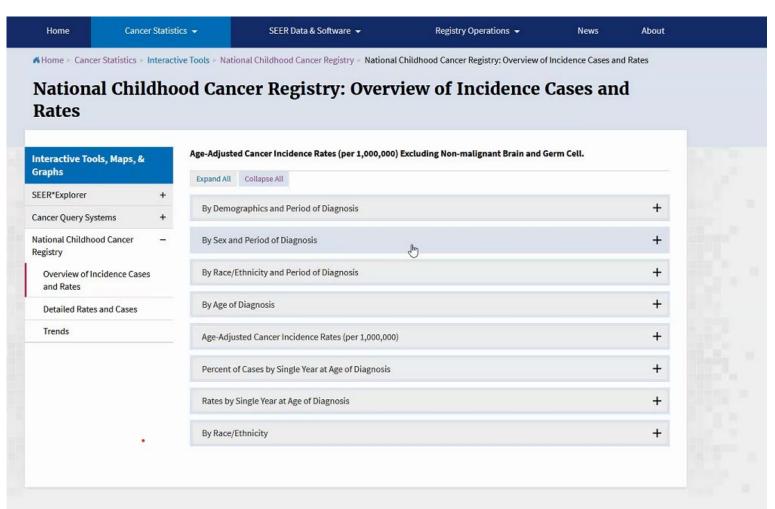
Next Steps

- Inter-Registry Linkage Phase II & III
 - Phase II Repeat linkage with additional NCCR-participating registries
 - Phase III Link with full Virtual Pooled Registry
- COG coverage analysis
 - Analysis by age groups, race & ethnicity
 - Link NCCR to COG CCRN and Project EveryChild
- Data Products





Short Term Data Products Plan



SEER is supported by the Surveillance Research Program (SRP) in NCI's Division of Cancer Control and Population Sciences (DCCPS). SRP provides national leadership in the science of cancer surveillance as well as analytical tools and methodological expertise in collecting, analyzing, interpreting, and disseminating reliable population-based statistics.



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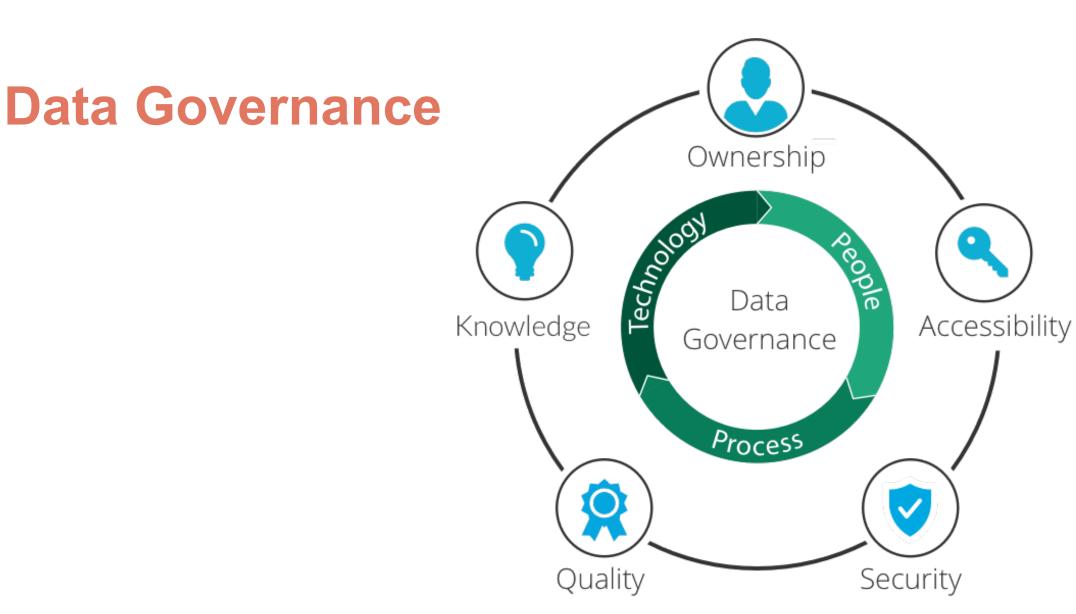


Peds* Explorer

- All pre-calculated statistics
- No geographic identifiers to minimize risk of reidentification of small numbers
- Over time will add new variables not collected by registries, e.g., Cancer Center Supplement projects















"It's harder than you might imagine – balancing issues of research and patient privacy are very challenging – but I think we can do it."

- Ned Sharpless, MD

Director, NCI



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Acknowledgements

- NCI SEER
- IMS
- NCCR Working Groups
- NAACCR staff
- Central cancer registries









Questions?





