

Paris Conference for an International Childhood Cancer Data Partnership Newcap Event Center (Paris, France), November 7-8, 2023





Interoperability

Session 3

Workshop #2 - Session 3





Workshop #2 Session 3

Facilitators

Eric DURBIN - Kentucky Cancer Registry

Johanna GODERRE - US National Cancer Institute

Subthemes

• Are there data exchange layouts applicable to this project (or use cases that could be successfully modeled)?





Discussants



Stephanie HILL

USA

North American Association of Central Cancer Registries (NAACCR) Associate Director



Paul SAULTIER France AP-HM, Inserm, LEA platform Associate professor

Cancer Registry Standardization in North America: Successes, Challenges, and Opportunities

ACCR Stephanie M. Hill, MPH, CTR Associate Director, NAACCR

Cancer Registry Landscape in the U.S.



Hospital Registries

- State public health authority
- American College of Surgeons Commission on Cancer

Central/PB Registries

- National Cancer Institute (NCI) Surveillance, Epidemiology & End Results (SEER) Program
- Centers for Disease Control and Prevention (CDC) National Program of Cancer Registries (NPCR)

NAACCR Standards





Standardizatio n Challenges



Keeping pace with medicine



Managing change



Balancing stakeholder needs



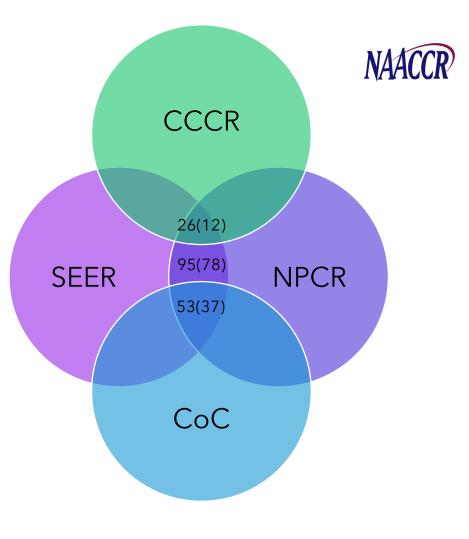
Interoperability with emerging data standards

Standardization and Variation



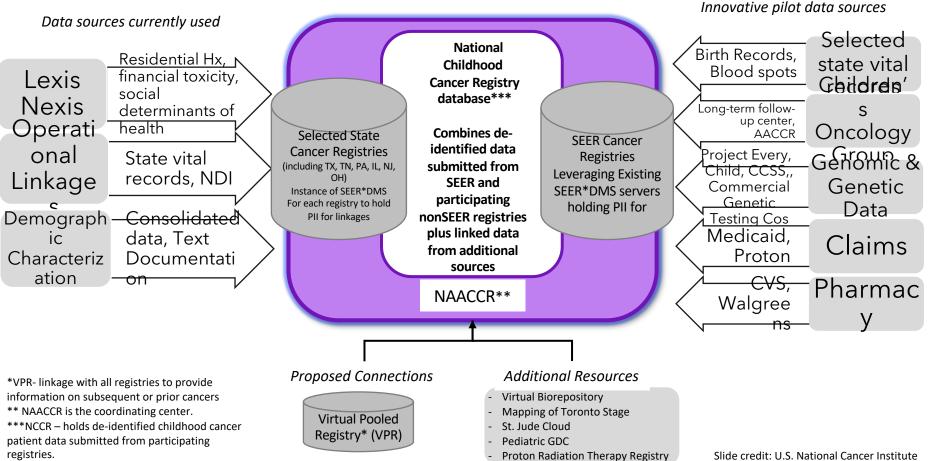
‡ Item #	+ Item Name	* NPCR Collect	* CoC Collect	SEER Collect	+ CCCR Collect	Source of Standard	* Notes	Retired
368	Census Block Grp 1970/80/90	•	•	S	•	Census		No
369	Census Tract Certainty 2020	D		D		NAACCR		No
380	Sequence NumberCentral	R		R	D	SEER		No
390	Date of Diagnosis	R	R	R	R	SEER/CoC		No
400	Primary Site	R	R	R	R	SEER/CoC		No
410	Laterality	R	R	R	R	SEER/CoC		No
420	Histology (92-00) ICD-O-2	RH	RH	RH	RH	SEER/CoC		No
430	Behavior (92-00) ICD-0-2	RH	RH	RH	RH	SEER/CoC		No
440	Grade	RH	RH	RH	RH	SEER/CoC		No
441	Grade Path Value	RH*	RH	RH		AJCC		No
442	Ambiguous Terminology DX		RH	RH		SEER		No
443	Date Conclusive DX		RH	RH		SEER		No
444	Mult Tum Rpt as One Prim		RH	RH		SEER		No

Commonality



Standardization and the U.S. National Childhood Cancer Registry





Slide credit: U.S. National Cancer Institute

NAACCR Thank you Stephanie M. Hill, MPH, CTR shill@naaccr.org https://www.naaccr.org/

https://apps.naaccr.org/data-dictionary/



ICCDP Paris Conference November 8, 2023



The LEA project



Paul Saultier, MD, PhD

APHM – Pediatric Hematology, Immunology, and Oncology Aix Marseille University – Inserm 1263 – C2VN



LEA project Promoting and studying long-term health in survivors of childhood leukemia



Hémopathies malignes de l'enfant et de l'adolescent

The program started in 2004



18 French Pediatric Oncology Departments



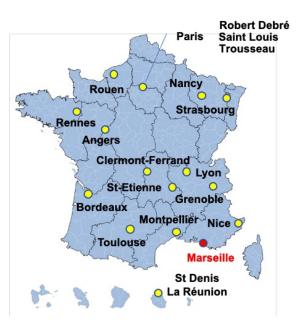
16,000+ dedicated follow-up visits



6,500+ included patients treated from 1980

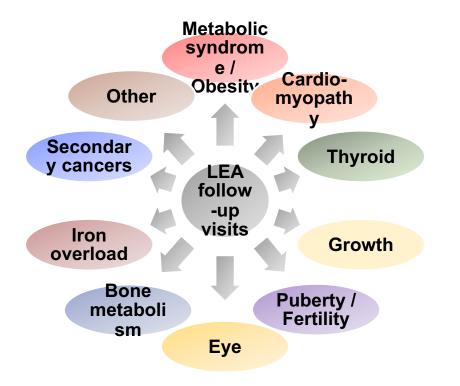


Program started in 2004 500 k\$ / year (grants, charity) 40+ international publications





LEA Follow-Up Visits



Program of dedicated follow-up visits

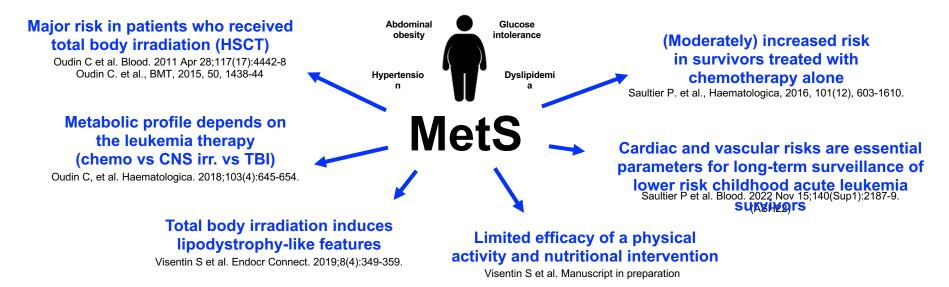
Start 1 year after leukemia therapy and repeat /2-4 years thereafter

Prospective collection of data:

- Clinical examination
- Labs and imaging

Questionnaires (quality of life, socioeconomic factors)

Metabolic syndrome in survivors of childhood leukemia



Future directions:

Innovative therapeutic approaches to mitigates cardiovascular risk Better risk stratification: genetic predisposition



LEA biobank

Genetic predisposition to long-term complications



2000+ samples Constitutional DNA (from PBMC or fibroblasts if HSCT), plasma Dedicated research consortium Genotyping + Exome sequencing



LEA governance regarding data sharing

Governance plan

Access to data is possible for researchers outside of the LEA consortium

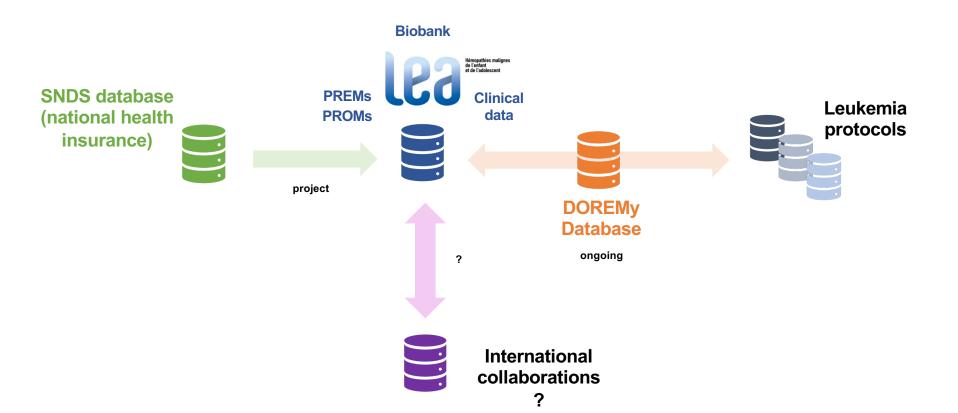
Rules to access to the data according to:

- Investigators from the LEA consortium versus outside the consortium
- Aggregated data versus individual data

Scientific council: evaluation of submitted requests

Intellectual property to be formalized

Interoperability in LEA project







Definition of common governance rules for valorization of data

Authorization of health data hosting (GDPR) Regulatory agreements for sharing research data

Centralization of data (EUR site if non-anonymized data)

Data portal access

Cost

Data heterogeneity (e.g. self-administred questionnaires vs. outpatient clinic with medical evaluation)





LEA Scientific coordinators: Gérard Michel and Pascal Auquier

LEA investigators: 100+ investigators / 18 centers

Funders: INCa, DGOS, LNCC, Laurette Fugain and other associations

Patients and families