

Endocrine Late Effects after Cancer Therapy: ELECT Program

A Department of Pediatrics Chair's Initiative

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Project Goal

ELECT Mission

To provide **timely, evidence-based, proactive,** and **patient-centered care** for children, adolescents, and young adults at high risk for endocrine complications due to cancer therapy.

ELECT Program Goals

- ❖ Standardize clinical & EHR processes
- ❖ High risk population identification
- ❖ Program growth
- ❖ Data monitoring

Clinical processes & outcomes
Quality improvement
Research



Prior to ELECT: **81%** of **high-risk** patients were not referred to Endocrinology.

Accomplishments

Standardized Processes

- ❖ Epic documentation
- ❖ Referrals
- ❖ Order sets & pathways
- ❖ Interdisciplinary communication
- ❖ Care coordination



Stakeholder Dialogues

- ❖ Neuro-Oncology
- ❖ Stem Cell Transplant
- ❖ Solid
- ❖ Liquid
- ❖ Bone Marrow Failure



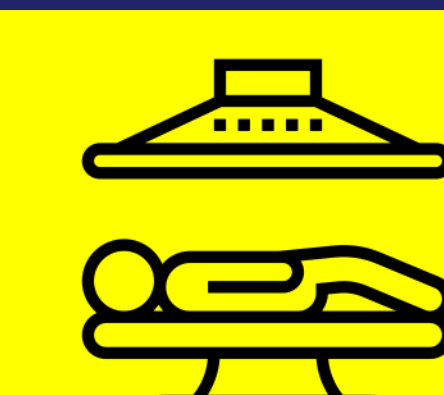
Population Identification

- ❖ Cancer diagnosis
- ❖ Treatment exposure
- ❖ Bone marrow transplantation
- ❖ Proactive review of high-risk patient list



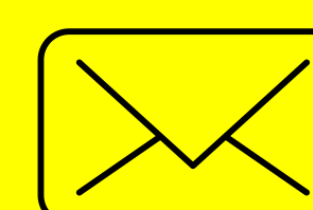
Radiation Exposure

- ❖ Weekly data import from Penn
- ❖ Identify patients at risk
- ❖ Data accessible to Oncology
- ❖ Access to exposures of known patients



Proactive Outreach Process

- ❖ Notification of oncology providers
- ❖ Letter to identified patients
- ❖ Scheduling coordination



Data Infrastructure

- ❖ Identify patients at risk
- ❖ Track and optimize quality metrics
- ❖ Standardized care

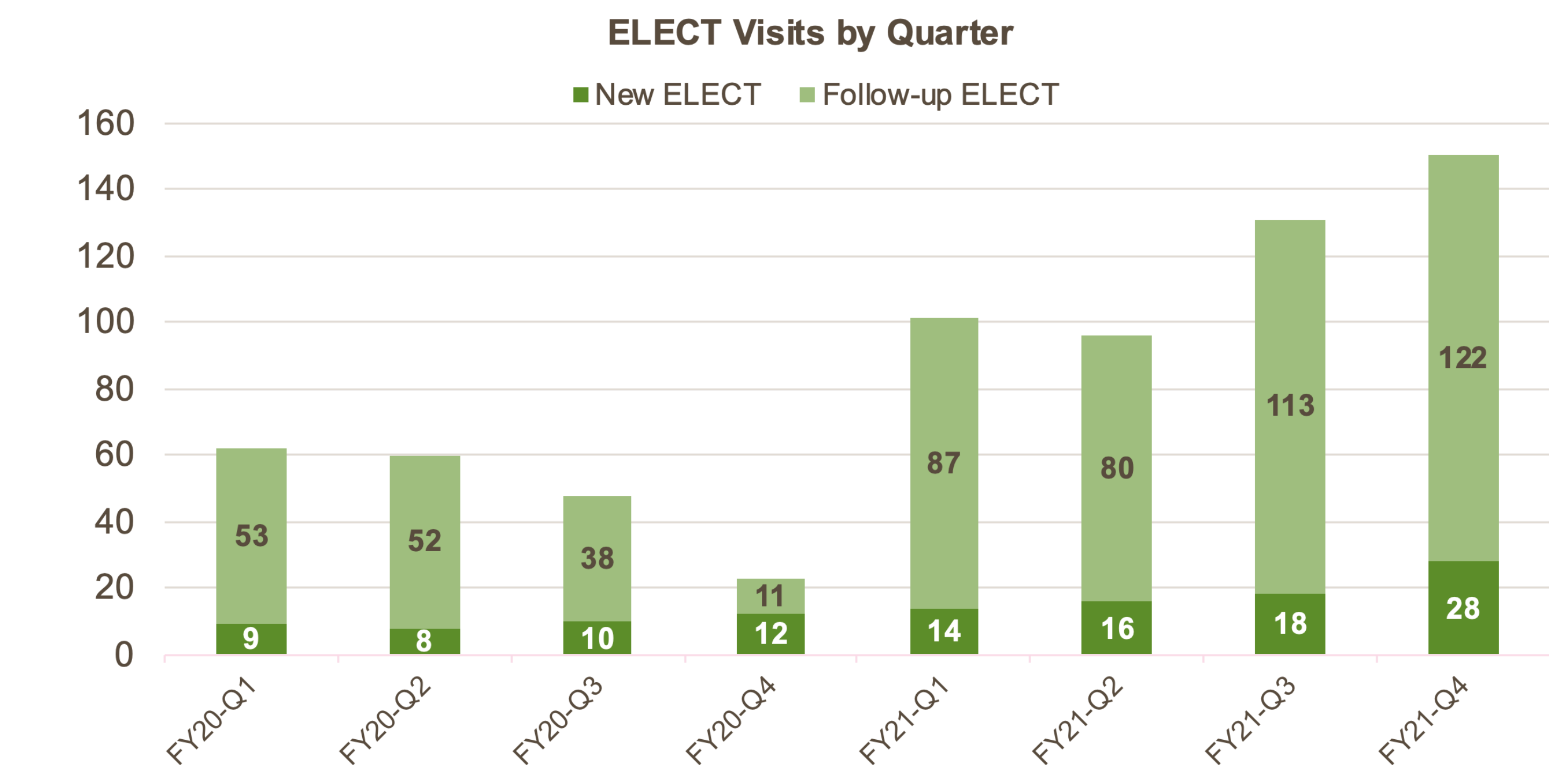


Performance Measures

ELECT monthly clinic sessions

Prior: 12
Current: 20

Since Chair's Initiative (FY20-FY21)	
671	
Current FY (Jul 2020 - Jun 2021)	Last 3 Months (Apr 2021 - Jun 2021)
478	150



Non-ELECT High Risk Patients Seen in Last 2 Years		ELECT Patients Seen in Last 2 Years	
Unique Patients	2,699	Unique Patients	332
w/ Labs in Past 2 Years	972	Percent of Patients with TSH in Past 2 Years	36.0%
		w/ Labs in Past 2 Years	317
		Percent of Patients with TSH in Past 2 Years	95.5%

Lessons Learned

- ❖ Collaboration
- ❖ Persistence
- ❖ Resilience
- ❖ Support



Next Steps

- ❖ Establish ELECT in all major satellites
- ❖ Boost national and international referrals
- ❖ Lead observational, international, and translational research
- ❖ Enhance clinical and research training
- ❖ Improve quality & reduce disparities
- ❖ Establish family advisory council
- ❖ Establish monthly clinical care conference
- ❖ Ensure stable funding

Build on Our Data Infrastructure

