

VA TeleOncology and Decentralized Clinical Trials

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Agenda

01 Overview of VA Oncology and Precision Oncology Initiative

02 VA National TeleOncology Service

03 Decentralized Clinical Trials



04 Impact of COVID on Oncology Care



Who We Serve – Demographics

Compared to non-Veteran US Population, Veterans have slightly higher overall cancer rates

- **Sex:** In 2017, VHA looked across all facilities for the most common cancers of males and female Veterans.

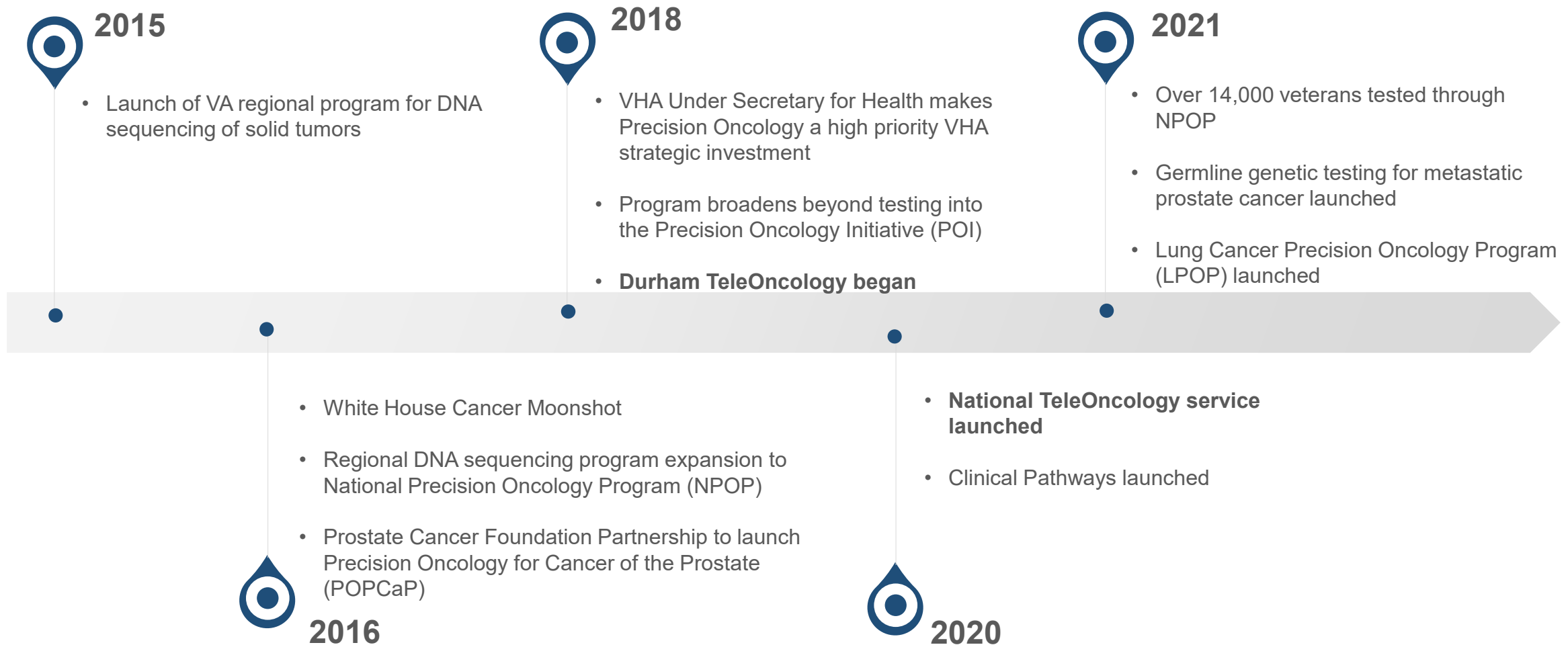
	n	%	Males	Females		n	%
Prostate	13,438	30%			Breast	402	30%
Lung & bronchus	8,019	18%			Lung & bronchus	197	15%
Colon & rectum	3,705	8%			Colon & rectum	88	7%
Kidney & pelvis	1,733	4%			Uterine corpus	75	6%
Melanoma	1,674	4%			Melanoma	59	4%
Liver	1,553	3%			Thyroid	53	4%
All Sites	44,836	97%			All Sites	1,330	3%

Prostate cancer in men and breast cancer in women are almost double that of the next most commonly occurring cancer.

- **Race:** An estimated 50,000 Veterans are diagnosed with cancer annually:
 - 79% were White; 19% were Black; 1% were Other Race
- **Residence:** Veterans are 2.5 times more likely to live in rural areas

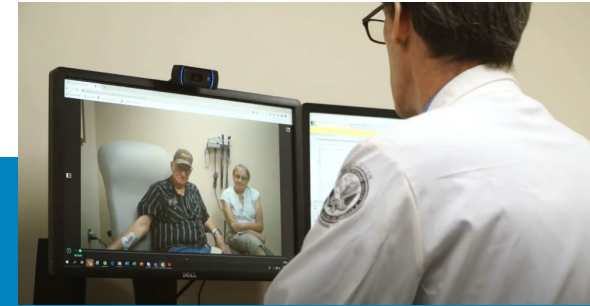
Data Sources: VA Cancer Care Registry (VACCR)

Evolution of VA Precision Oncology



VA National TeleOncology Service

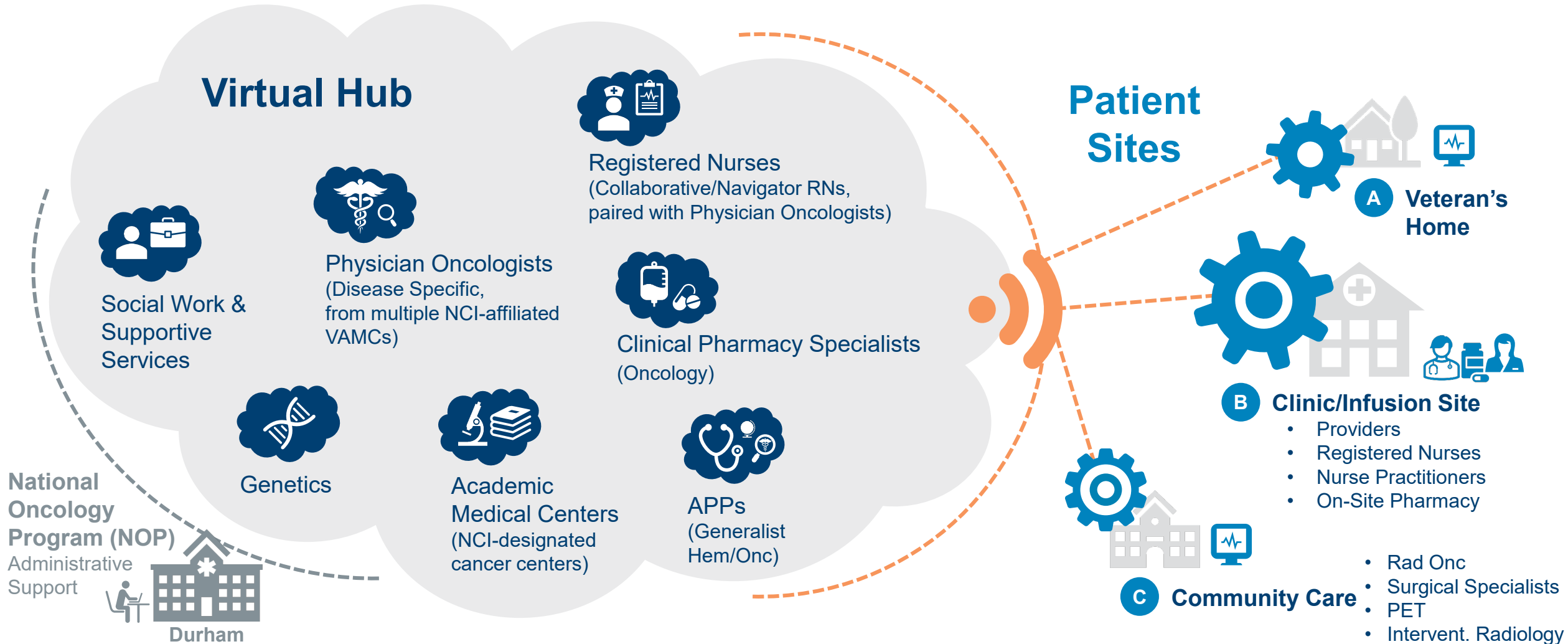
- Problem: misalignment of supply of (urban) and demand for (rural) oncologists
- Primary Goal: Improve access to care for Veterans with cancer, including timeliness of cancer care
- VA has well-developed telehealth resources, including national services for radiology, genetic counseling, and Tele-ICU
- Institute Virtual Cancer Center(s) similar to NCI-designated Comprehensive Cancer Center
 - Providers with specialization in patient's cancer type & involved in research
- Improve efficiency and precision of clinical practice
- Initial focus on Medical Oncology in context of multidisciplinary care
- Targeted service areas
 - Smaller VA medical centers
 - Larger VA medical clinics (health care centers)
 - Smaller VA medical clinics (community-based outpatient clinics)
 - Non-VA location, including Community partners and patient's home



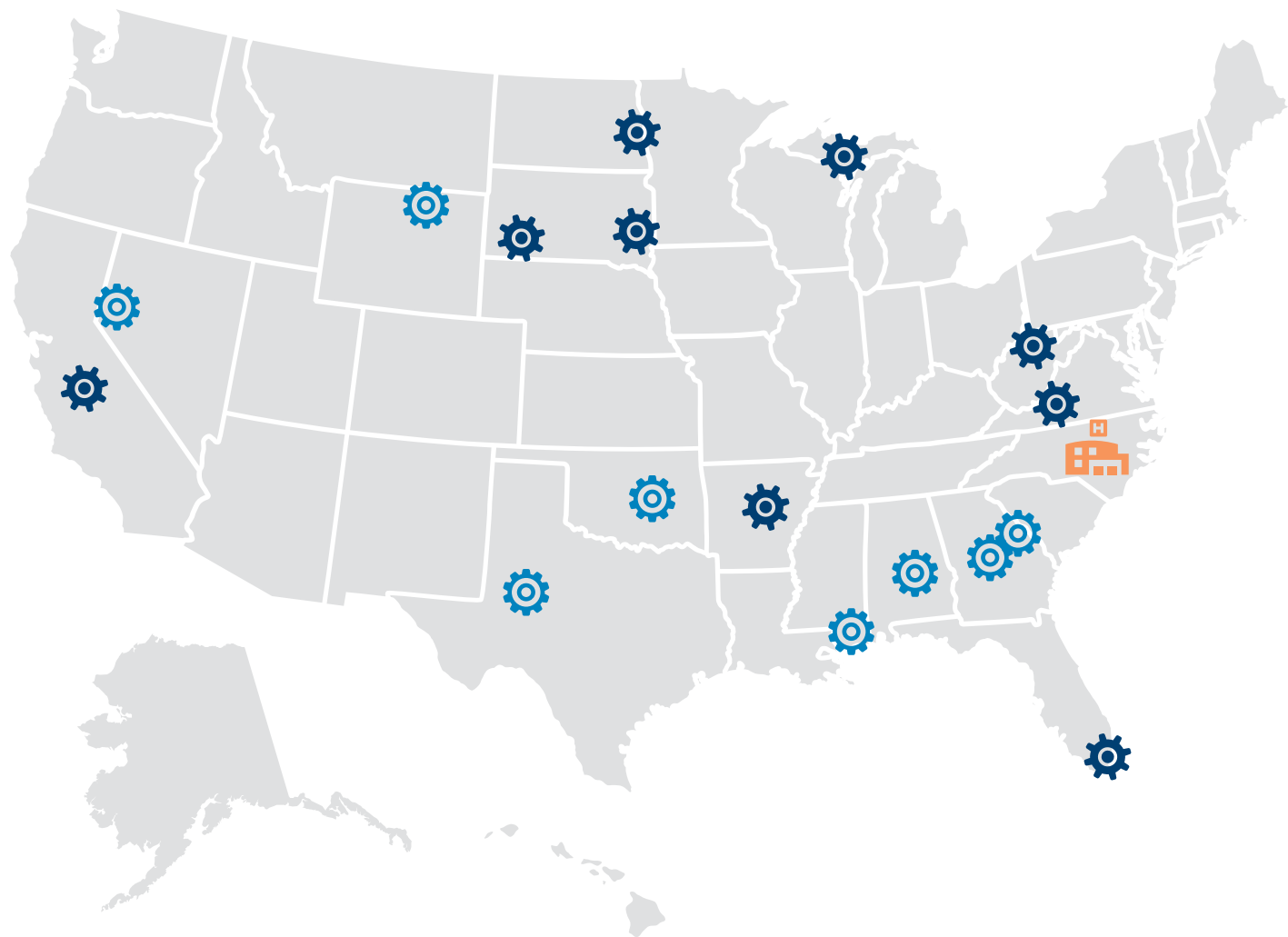
They know we're going through a lot, the care teams have been wonderful, and Dr. Kelley is just great.

*Roger and Henrietta Lupkes
U.S. Army Veteran*

Hub and Spoke Site(s) Model



National TeleOncology Program



Spokes Activated

- 1) Sioux Falls
- 2) Clarksburg
- 3) Salem
- 4) Fayetteville, AR
- 5) Iron Mountain
- 6) Black Hills
- 7) Fresno
- 8) Miami
- 9) Fargo



Spokes Initiated

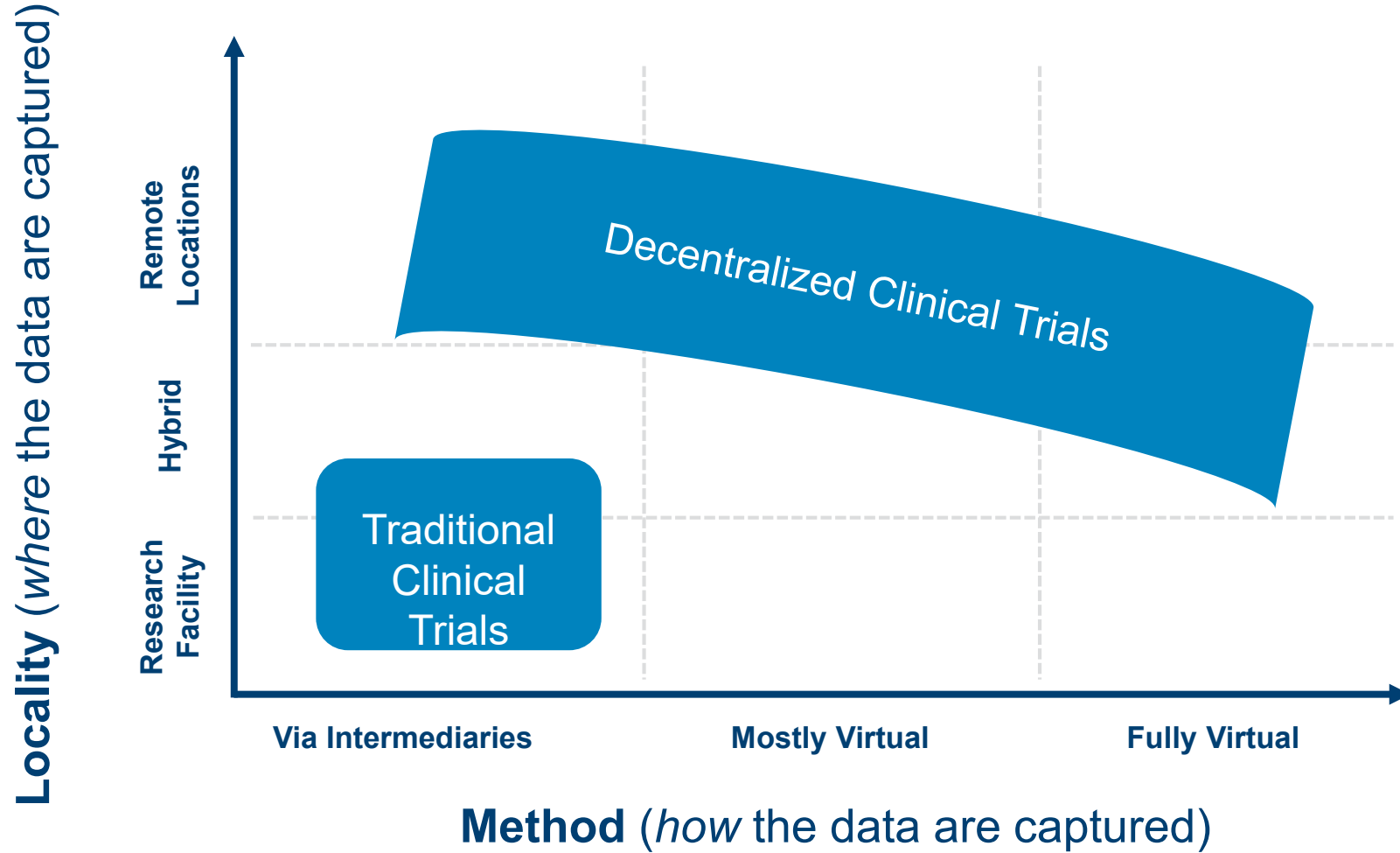
- 1) Reno*
- 2) Central Alabama*
- 3) Sheridan*
- 4) Augusta*
- 5) Dublin*
- 6) Biloxi (Gulf Coast)
- 7) Muskogee, Oklahoma
- 8) Big Springs, TX



Durham Hub

*APP Funding from NTO

DCT Models: Where and How Data are Collected



Advantages of Decentralized Clinical Trials

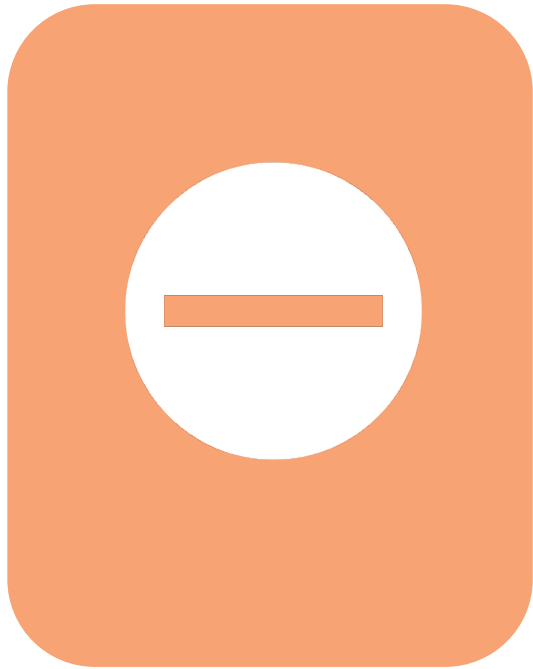


Compared to site-based trials

- Cost substantially less
- Higher recruitment rate
- Higher retention rate
- Participants more diversity
- Clinical applicability more likely
- Digital tools provide more data

Khozin S, Coravos A. Clinical Pharmacology & Therapeutics · April 2019 DOI: 10.1002/cpt.1441

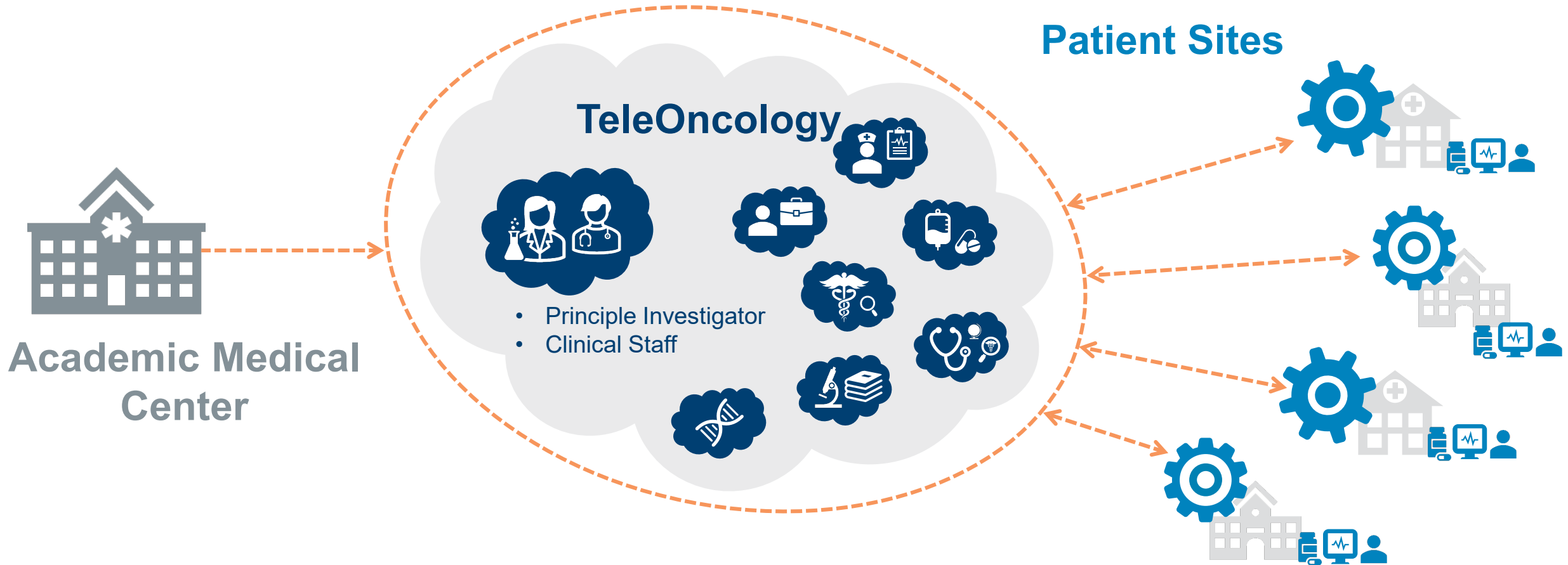
Limitations of Decentralized Clinical Trials



- Translational trials requiring research biopsies
- Frequent biosampling such as pharmacokinetic studies
- Registration studies
- Studies that do not qualify for FDA waiver

Khozin S, Coravos A. Clinical Pharmacology & Therapeutics · April 2019 DOI: 10.1002/cpt.1441

Virtual Clinical Trial Model



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Cemiplimab Survivorship Epidemiology (CASE) Study



- Prospective phase IV study of cemiplimab in cutaneous squamous cell carcinoma



- Primary endpoints include:
 - Efficacy: ORR, DCR, DOR, time to response, PFS, OS, TTTF, disease specific death
 - Toxicity: irAEs, SARs, infusion-related reactions
 - Patient Reported Outcomes



Clinicaltrials.gov: NCT03836105

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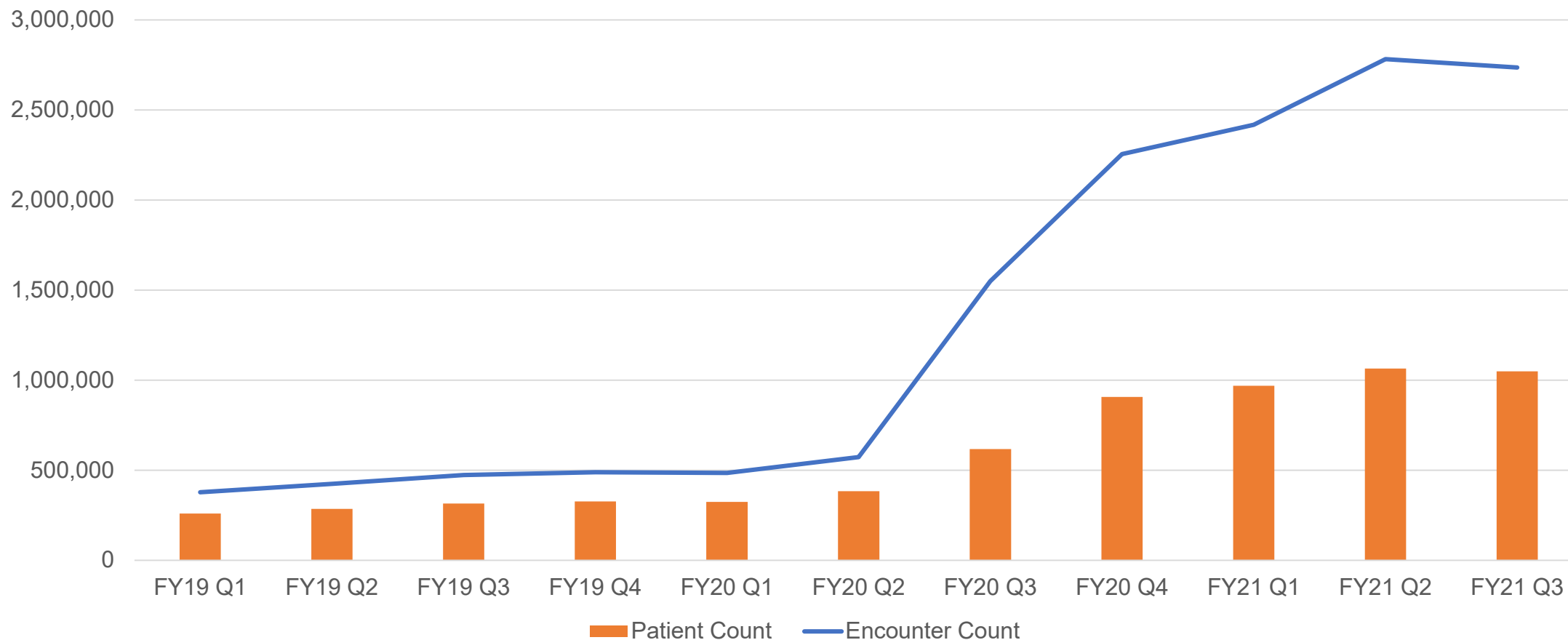
Proof-of-Concept Decentralized Clinical Trial (POTENTIAL): Study Schema

Selection Criteria

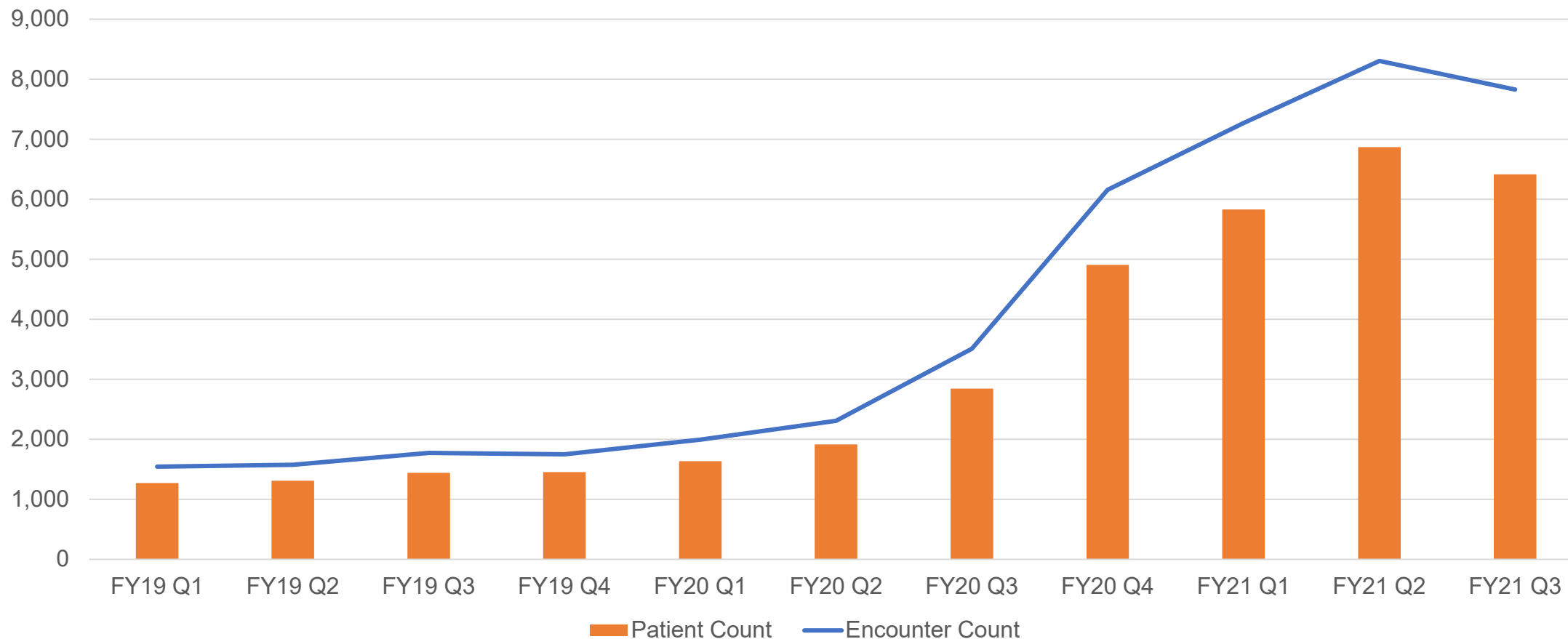
- Age ≥ 18
 - Ability to comply with study protocol
 - ECOG PS ≤ 2
 - Technology-specific criteria
 - Disease-specific criteria
- DCT Consent (eConsent)
 - Complete eConsent Questionnaire (1 question)
 - Train patient on wearable and technology platform
 - Individual standard treatment recommendation
 - mCRPC or mNSCLC
 - Follow-up for 6 months
 - Medical records & wearable
 - Questionnaire at each visit (4 questions)
 - Complete Exit Questionnaire
 - Patient 16 questions
 - HCP 4 questions

Source: Study protocol

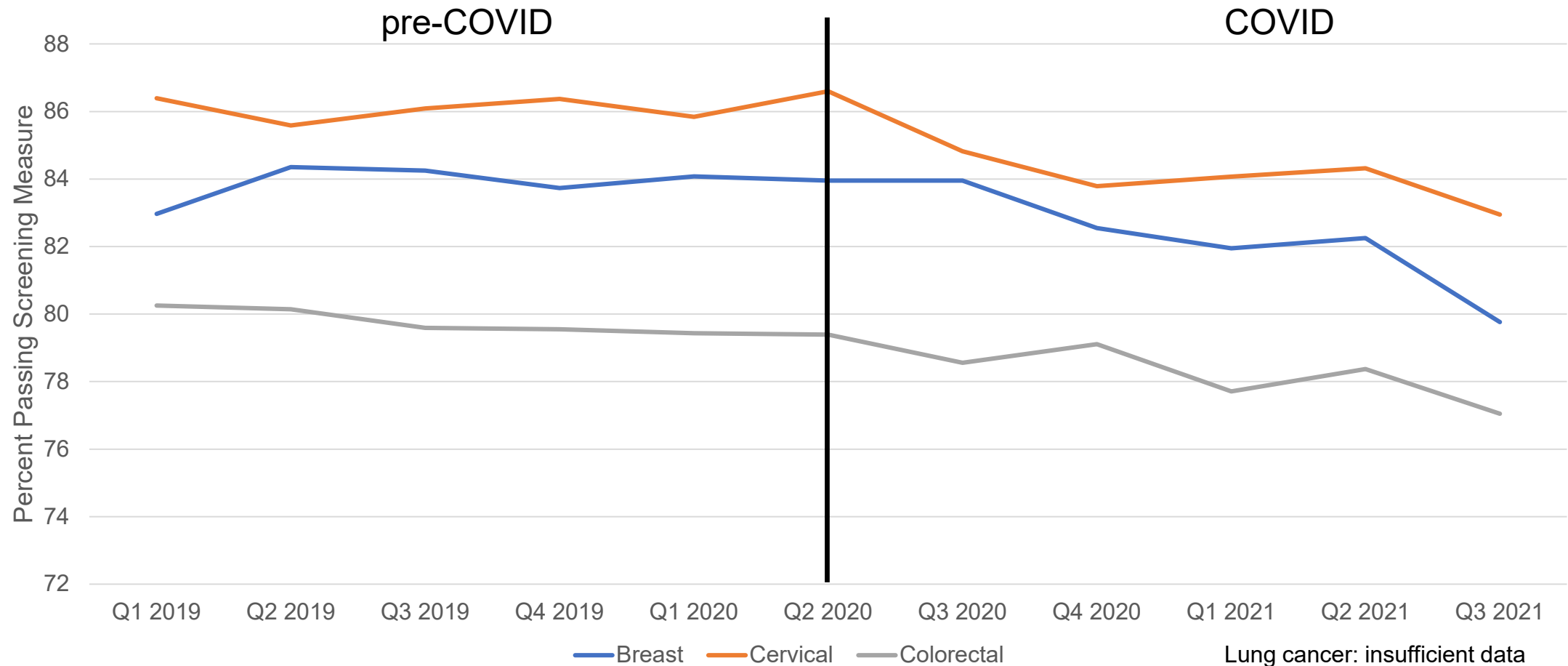
VA Overall Telehealth Patients and Visits



VA Overall Teleoncology Patients and Visits



Cancer Screening Rates in VHA: 2019-2021

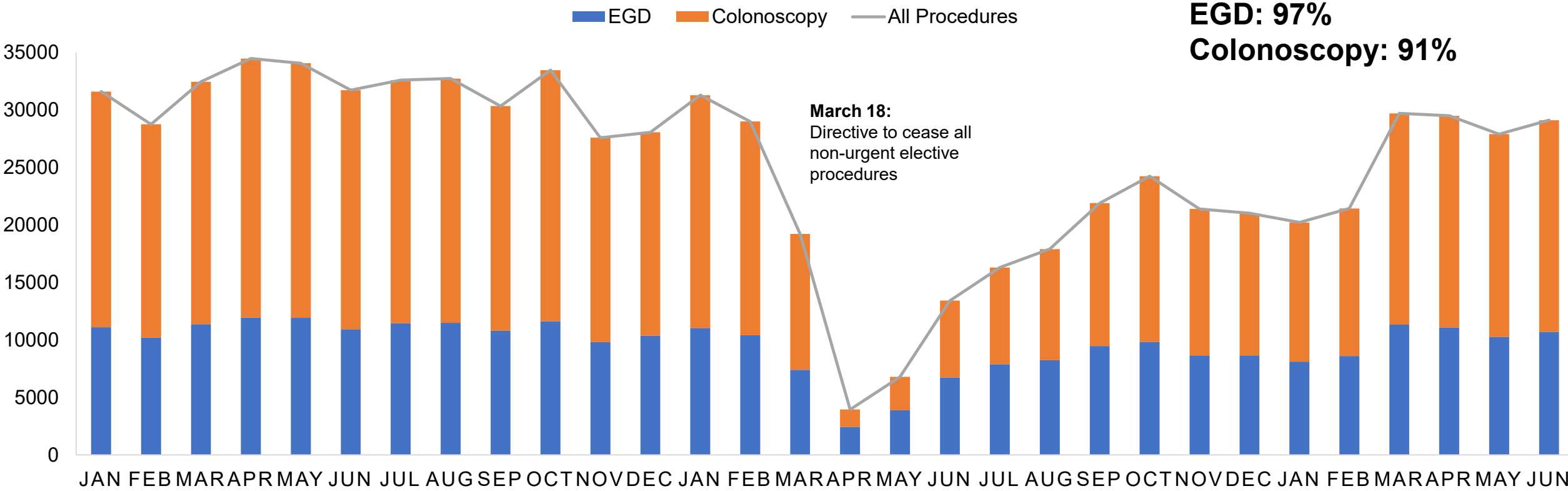


COVID-19 Impact on Access to Endoscopy Procedures in VA

Gawron, AJ; Kaltenbach, T; Dominitz, JA *Gastroenterology*, 2020 Oct

VA ENDOSCOPY MONTHLY PROCEDURE VOLUME
JAN 2019 THRU JUN 2021, 121 VA MEDICAL CENTERS

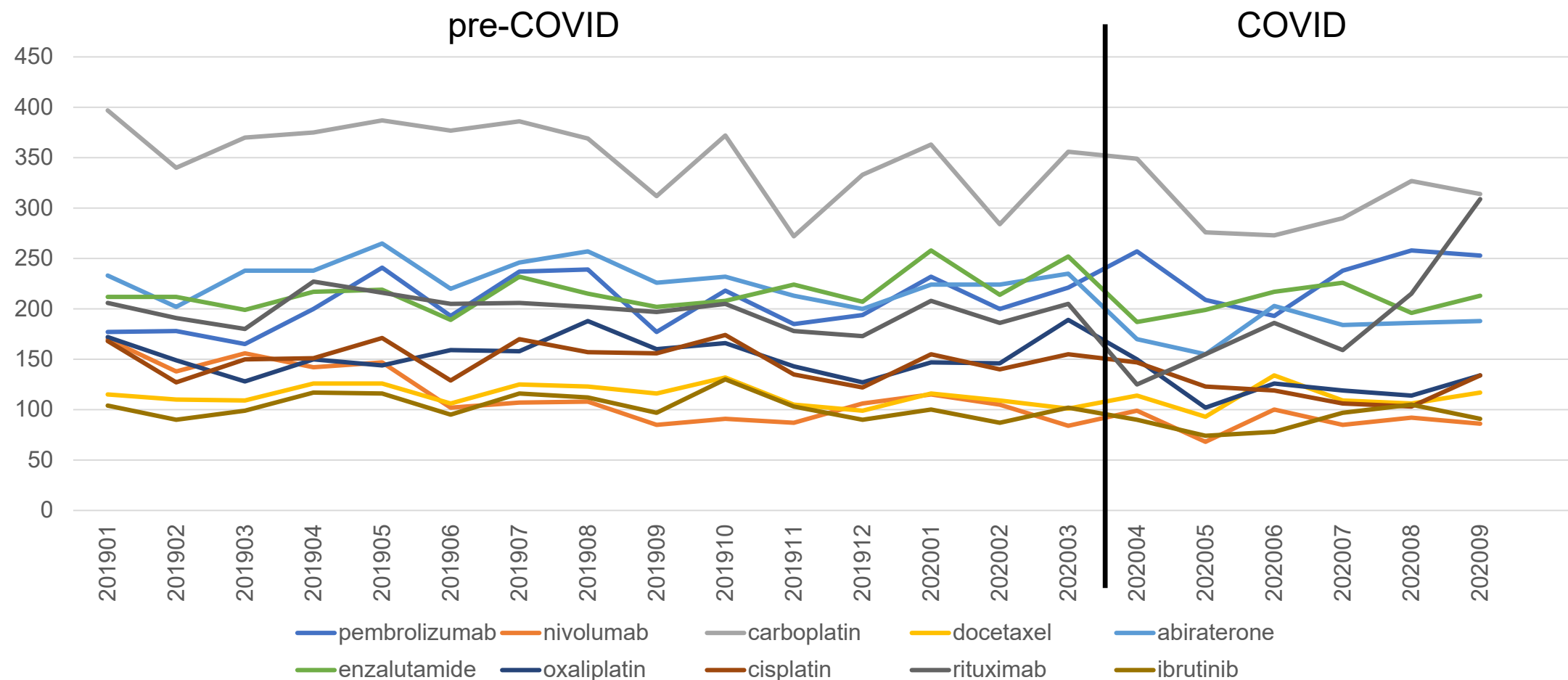
93% Recovery (Jun)
EGD: 97%
Colonoscopy: 91%



Method of CRC Screening in VHA: 2019-2021

	3/15/2019 – 3/14/2020	3/15/2020 – 3/14/2021	Net Change	Percent Change
FIT Ordered	824,765	881,428	56,663	6.9%
FIT Resulted	399,031 (48.4%)	371,956 (42.2%)	(27,075)	(6.8%)
Colonoscopy	281,643	134,525	(147,128)	(52.2%)
Screening Colonoscopy	10,372	2336	(8036)	(77.5%)

New Anti-Cancer Drug Starts 2019-2020



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