

Pragmatica-Lung: A New Paradigm for Practical Clinical Trials

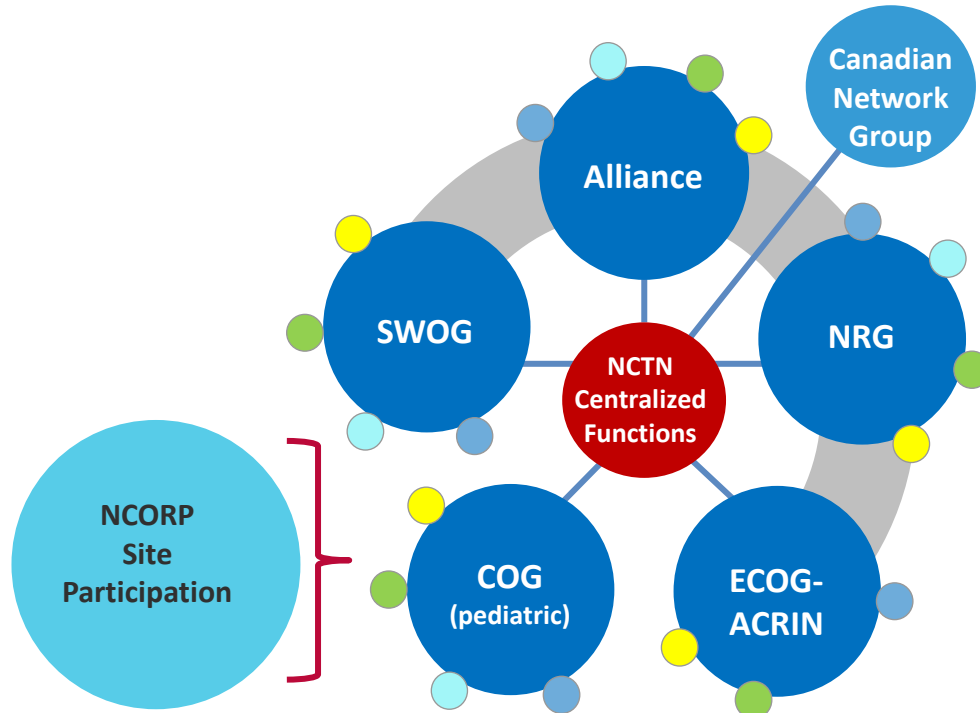


**16th Joint Meeting of NCI BSA/NCAB
Clinical Investigations Subcommittee
June 11, 2024**

**Chair: Nilofer Azad, MD
Executive Secretary: Meg Mooney, MD**

NCI National Clinical Trials Network (NCTN)

Established in 2014 from former Cooperative Group Program to provide support with an infrastructure designed to harmonize processes & promote collaborations to focus on questions not well supported in commercial environment



LEGEND:

- Centralized Functions:**
 - NCI Central IRB with 4 Boards
 - Cancer Trials Support Unit for Administrative & Regulatory Functions
 - RT/Imaging Core Center
 - NCI Disease Steering Review Committees
 - Common Data Mgt w/ Central Hosting

Lead Academic Participating Sites (LAPS)

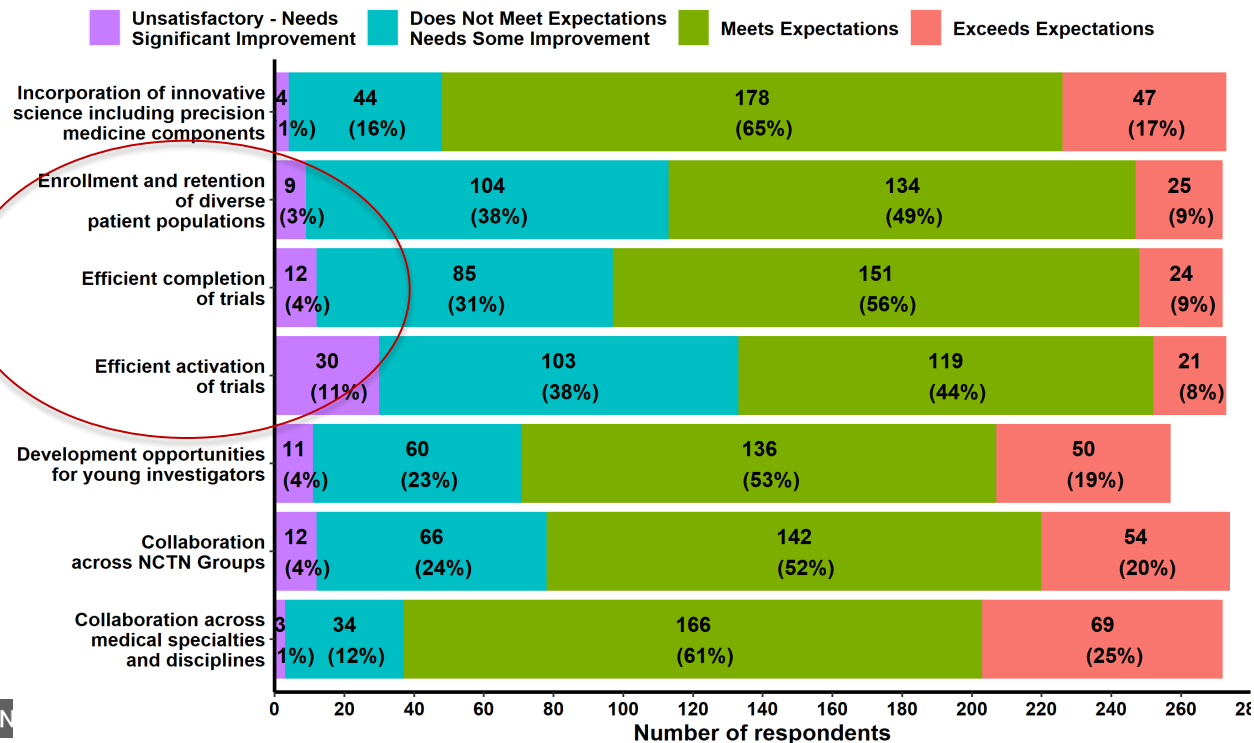
Operations Centers

Statistics & Data Management

Tumor Banks

Increasing Concerns with Clinical Trials related to Cost, Complexity & Site Burden for Trial Conduct

Survey Question in Summer/Fall 2022 to Key NCTN Participants: *Overall, how satisfied are you with the degree to which the NCTN is achieving the following goals? (n~270)*



Also, in response to question on satisfaction of the funding provided for accrual:

- 23% rating funding as “inadequate
- 44% rated it as “does not meet expectations/ & needs some improvement”

NCI Strategic Vision for Clinical Trials: 2030 and Beyond

Develop **flexible, faster, simpler, less expensive, high-impact** clinical trials that seamlessly integrate with clinical practice

Streamline processes
for trial design and
execution

Focus on essential
endpoints

Decrease regulatory
hurdles and broaden
trial access

Increase efficiency of
data collection

Pragmatica-Lung Treatment Trial: A streamlined model for future cancer trials

- Uses a trial design that removes many of the barriers that prevent people from joining clinical trial, provides a model to increase diversity of participants in trials and reduces the burden on sites for conducting the trial
- Is part of a broader effort by NIH and FDA to modernize clinical trials with fewer & simpler eligibility criteria while still ensuring the quality of data and safety of the patients.



Credit: iStock

Pragmatica-Lung Treatment Trial: A streamlined model for future cancer trials

- This approach is most appropriate for trials in which the agents being studied have already been approved by FDA for an indication & their side effects are well understood.
- The research question in Pragmatica-Lung fits with this approach and is designed for potential registration by the FDA for a new indication in advanced non-small cell lung cancer (NSCLC) with overall survival as the primary endpoint.



The hope is this type of simplified trial can be less burdensome to patients & Investigators, accrue study participants faster, be more representative of real-world patient population, & serve as a model for future cancer clinical trials.

S2302: Pragmatica-Lung Treatment Trial

A Prospective Randomized Study of Ramucirumab Plus Pembrolizumab vs Standard of Care for Participants Previously Treated with Immunotherapy for Stage IV or Recurrent Non-Small Cell Lung Cancer

Chair: Karen Reckamp, MD (SWOG)

Co-Chair: Konstantin Dragnev, MD (Alliance)

Statistical Chair: Mary Redman, PhD

Co-statisticians: Jieling Miao, MD, James Moon, MS

Study Champions: Wade Iams, MD (ECOG-ACRIN)

Brian S. Henick (NRG Oncology)

Lung Community Engagement

Subcommittee Rep:

Daniel Carrizosa, MD, MS

Company Collaborators:

Eli Lilly & Co. and Merck

Primary endpoint:
Overall Survival

Accrual Goal:
700 participants

Patients with previously treated
Stage IV or recurrent NSCLC

Randomization

ARM A

Standard of
Care (SoC)*

ARM B

Ramucirumab
+
Pembrolizumab

* SoC treatment is to be determined by the treating investigator and participant. It is recommended that the choice of SoC drug(s) is based on NCCN guidelines for a “systemic therapy for advanced or metastatic disease-subsequent.”

Pragmatica-Lung Treatment Trial

- Based on randomized phase 2 trial with promising results conducted by within the NCTN program under the Lung-MAP Initiative (*a public-private collaboration among NCI, SWOG/NCTN, FOCC, FNHI with pharmaceutical & diagnostic companies for biomarker-driven IND trials in advanced NSCLC*)
- Simplified study proposal reviewed / approved through the NCI Thoracic Malignancy Steering Committee
- Use of existing NCI DCTD/CTEP Cooperative Research & Development Agreements w/ company partners (Eli Lilly & Merck & Co. Inc.) for drug supply and distribution
- Led by SWOG with broad support by the NCTN Group network

Pragmatica-Lung Treatment Trial:

Practical Approach for a Registration-Intent Phase 3 IND Trial

- Simplified design with reduced data collection & primary endpoint of Overall Survival (no imaging, biospecimen, QOL/Pros instruments collection)
- Eligibility (Broadening eligibility for diverse patient population)
- Treatment (Physician's choice for standard of care control arm per NCCN / FDA approved treatments)
- Streamlined Toxicity/AE collection (Only SAEs, Unexpected Gr 3-4, Treatment-Related and All Gr 5s require reporting in Data Mgt System) & Simplified Study Calendar standard of care follow-up
- Standard NCTN Auditing Program (Q 3 yr) instead of on-site or central monitoring

Pragmatica-Lung Treatment Trial

- Timeline from study trial concept submission to activation with NCI Central IRB approval: 200 days
 - ❖ compared to absolute deadline for Phase 3 studies of 540 days (w/ target being around 300 days although most phase 3 IND studies exceed the 300-day target)
- Protocol: 28 pages (plus Administrative Appendix of 19 pages)
 - ❖ Compared to 108 pages for the predecessor phase S1800A phase 2 trial; other phase 3 trial w/ more complexities, secondary endpoints may be much longer
 - ❖ Pragmatica-Lung Appendix includes contact information, including contacts for the Centralized Trials Support Unit (CTSU); Staging criteria; Registration guidelines, Data submission procedures, Ethics/Regulatory considerations; QA Auditing & Monitoring; Recruitment & retention plan; and Remote Consent Procedures

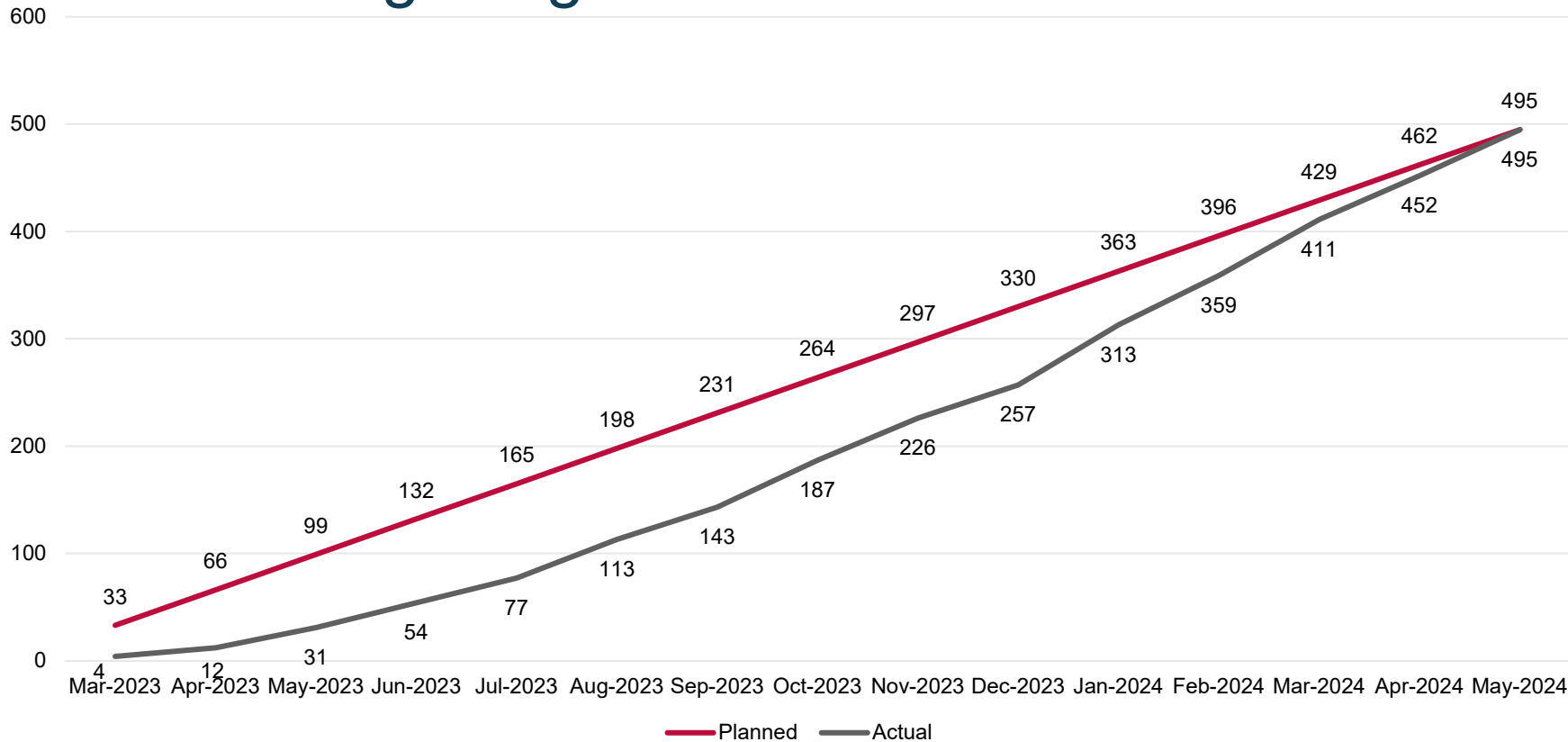
Pragmatica-Lung Treatment Trial

- Informed Consent Document: 11 pages (*includes summary of ICD of 3 pages per the Common Rule and 1 signature page*)
 - ❖ compared to 24 pages for the predecessor phase S1800A phase 2 trial; other phase 3 trial w/ more complexities & secondary endpoints in same general range
- Launch of trial coordinated with:
 - ❖ Communications plan at national level and locally
 - ❖ Extensive Recruitment & Retention Plan
 - ❖ Patient Educational
 - ❖ Engaging Sites with Diverse Populations
 - ❖ Connecting with Patient Advocacy Groups
 - ❖ Community Engagement
 - ❖ Recognitions for Sites in Email & NCTN Group Meetings

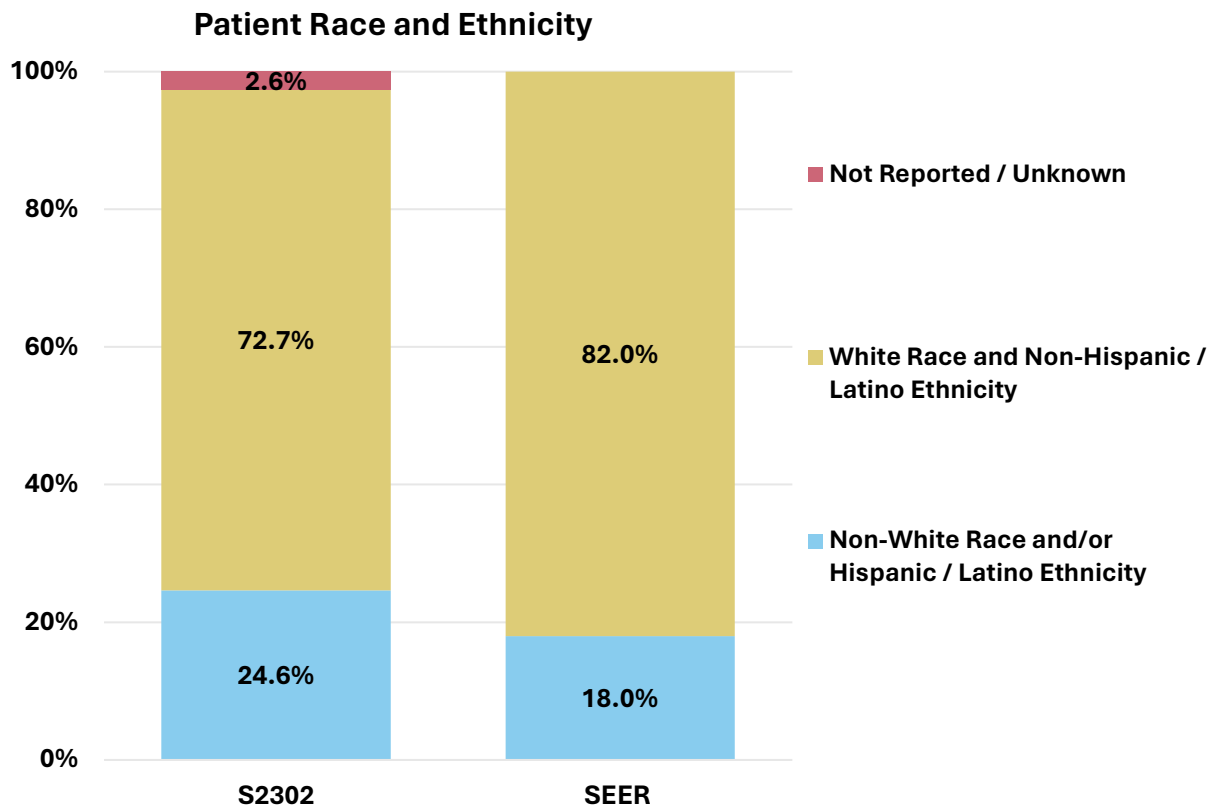
Pragmatica-Lung Treatment Trial

- Trial Activated on March 6, 2023
- Total Sample Size: 700 patients
- Estimated Accrual Timeline: 24 months (2 years)
- Accrual 6/6/2024 (12 PM ET): 505 patients (72% of total sample size) with a total of 219 sites enrolling 1 or more patients
- Amendment recently submitted to increase accrual to 800 patients and still finish trial within the same estimated 2-year timeline initially conceived for the trial

Monthly Planned and Actual Accrual to S2302 Lung-Pragmatica – as of 5/31/2024

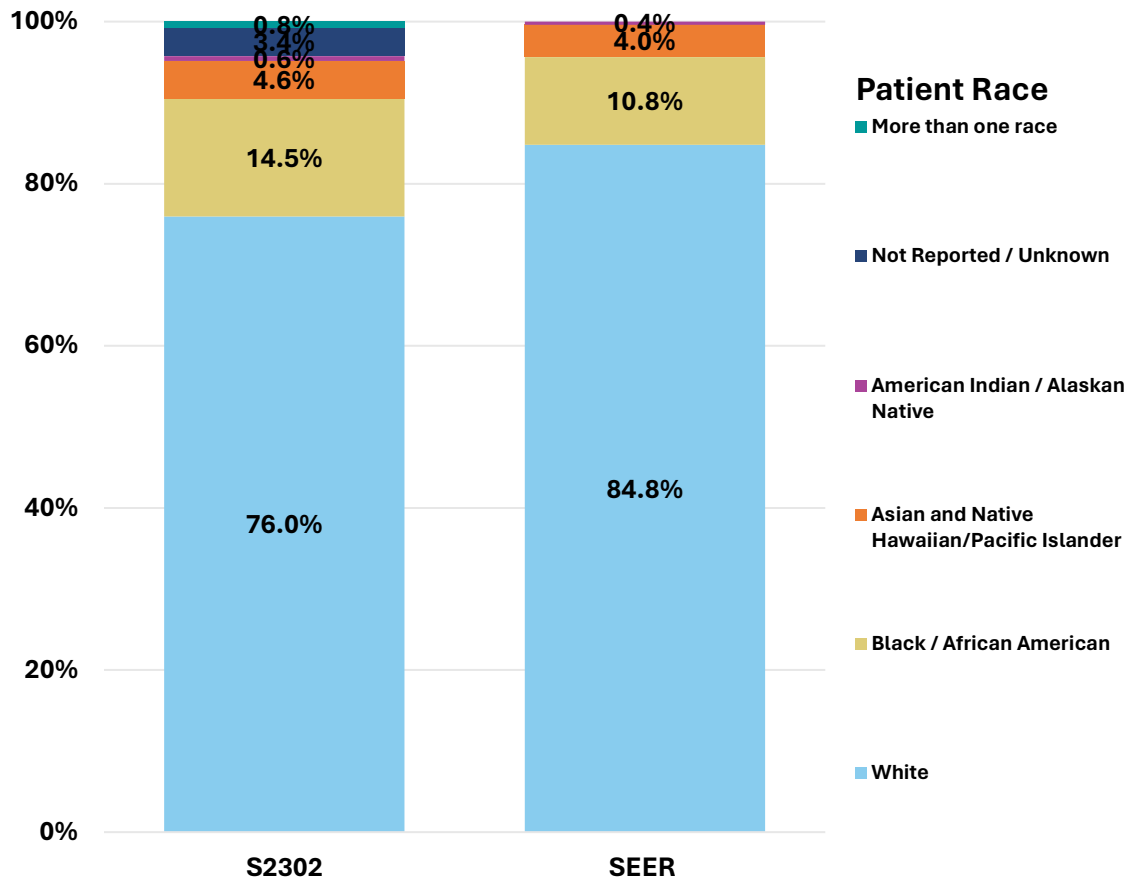


Race and Ethnicity of Patients Enrolled on S2302 Lung-Pragmatica Compared to SEER Lung Cancer Population Incidence Data



Based on S2302 enrollments as of 5/31/2024. Census-adjusted SEER incidence rates for 2017-2021 diagnosis years.

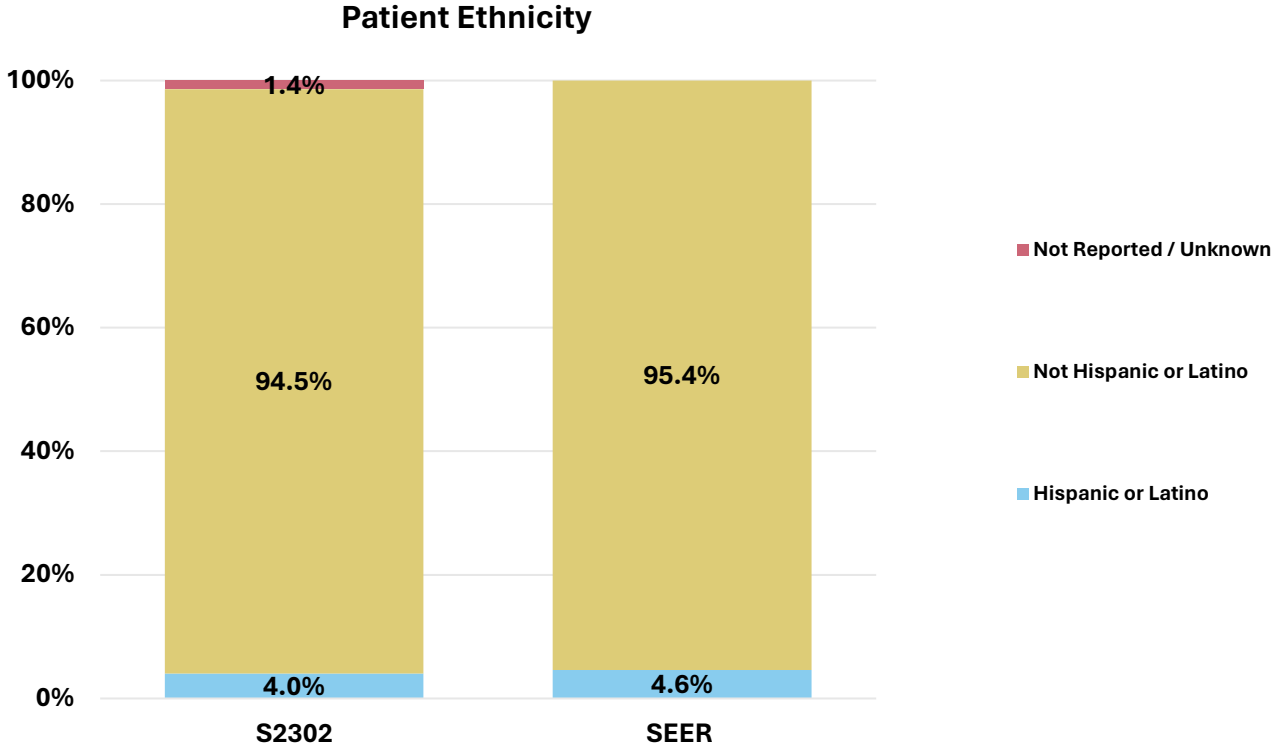
Race of Patients Enrolled on S2302 Lung-Pragmatica Compared to SEER Lung Cancer Population Incidence Data



Patient Race	S2302	SEER
More than 1 Race	0.8%	
Not Reported	3.4%	
American Indian/ Alaskan Native	0.6%	0.4%
Asian & Native Hawaiian/Pacific Islander	4.6%	4.0%
Black/African American	14.5%	10.8%
White	76.0%	84.8%

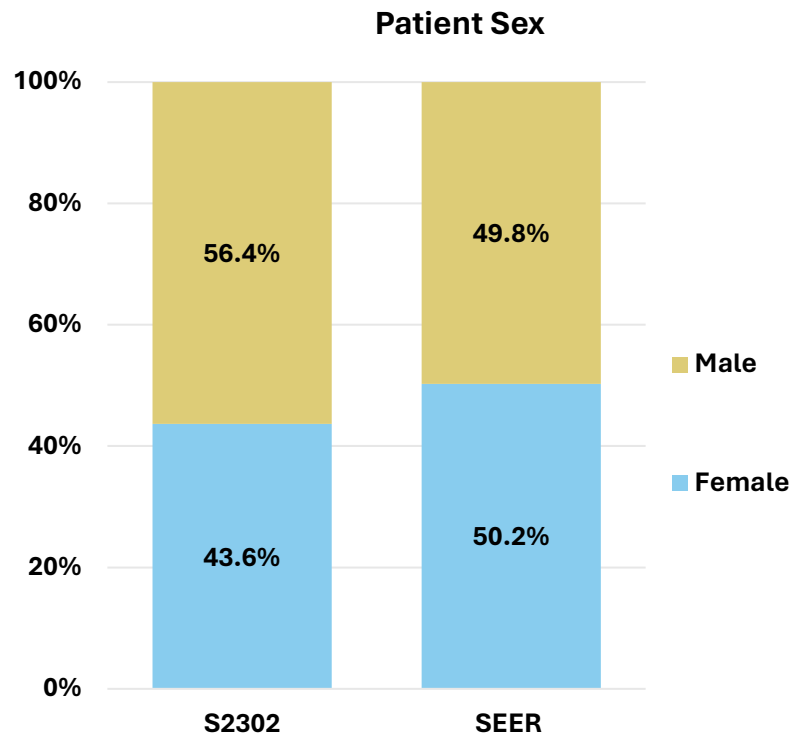
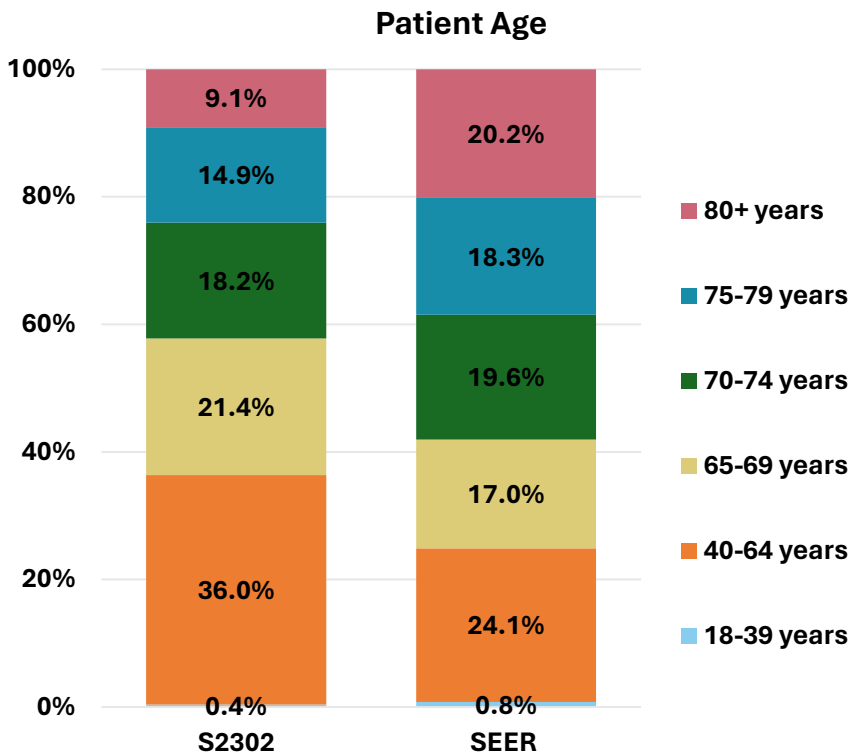
Based on S2302 enrollments as of 5/31/2024.
Census-adjusted SEER incidence rates for 2017-
2021 diagnosis years.

Ethnicity of Patients Enrolled on S2302 Lung-Pragmatica Compared to SEER Lung Cancer Population Incidence Data



Based on S2302 enrollments as of 5/31/2024. Census-adjusted SEER incidence rates for 2017-2021 diagnosis years.

Age and Sex of Patients Enrolled on S2302 Lung-Pragmatica Compared to SEER Lung Cancer Population Incidence Data

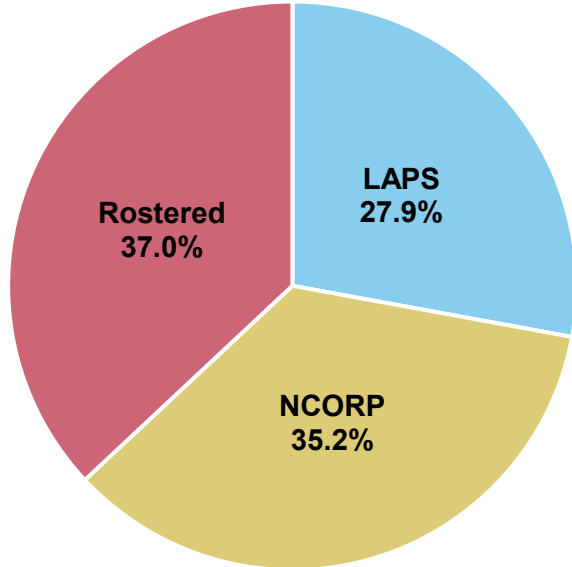


Based on S2302 enrollments as of 5/31/2024. Census-adjusted SEER incidence rates for 2017-2021 diagnosis years.

Site Type and Rurality for Patients Enrolled on S2302 Lung-Pragmatica

Based on S2302 enrollments as of 5/31/2024

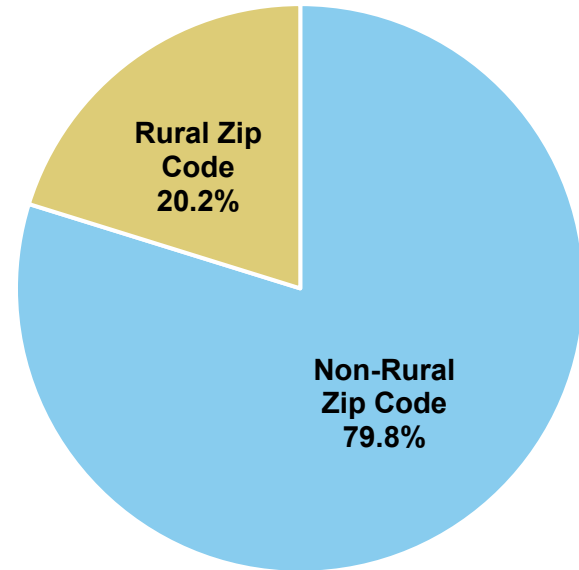
Accrual by Site Type



% of Total Sites as of 5/8/2023:

LAPs: 24%; NCORPs: 43%; Rostered: 33%

Rurality by Patient Zip Code



Note: Rurality defined using USDA ERS Rural-Urban Commuting Area (RUCAs) Codes, with codes 1-3 considered non-rural and codes 4-10 considered rural. **According to HRSA, the US Census definition of rural includes 19.3% of the US population (likely an overestimate), while the OMB definition of rural includes 15% of the population (likely an underestimate).** <https://www.hrsa.gov/rural-health/about-us/what-is-rural>

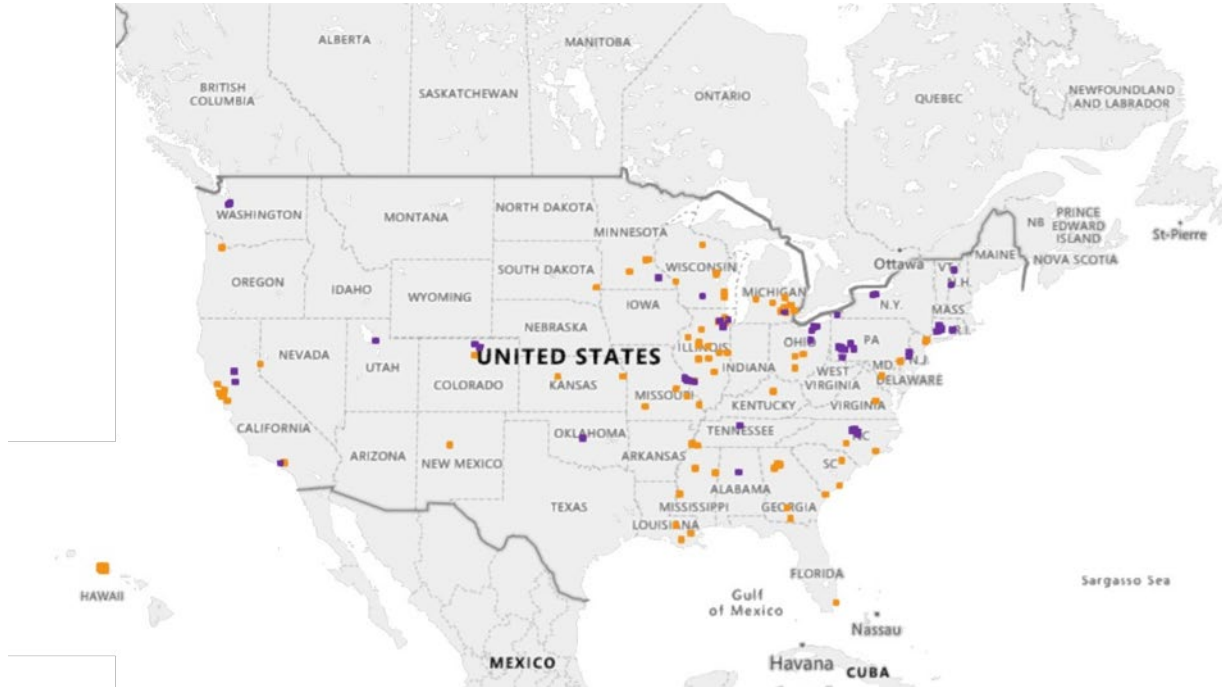
Sites With Enrollments to S2302 Lung-Pragmatica

 NCTN LAPS Sites



Based on S2302 enrollments as of 5/8/2024

Sites With Enrollments to S2302 Lung-Pragmatica



Based on S2302 enrollments as of 5/8/2024

Sites With Enrollments to S2302 Lung-Pragmatica



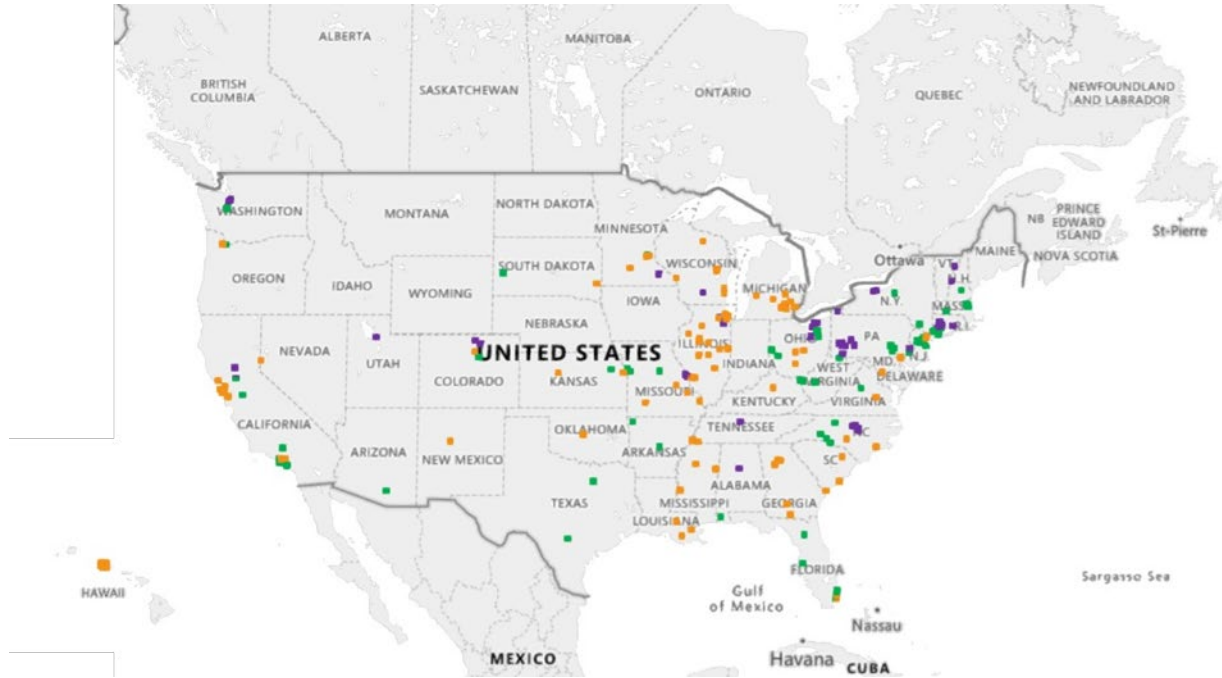
NCTN LAPS Sites



NCORP Sites



NCTN Rostered Member Sites





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