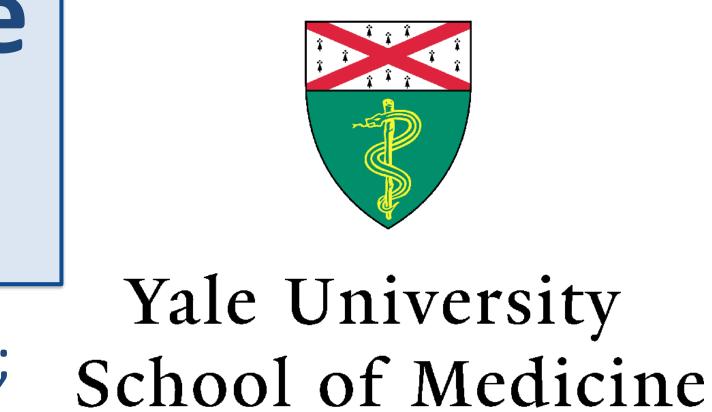


# **Evaluation of Evidence Informing Medicare's Coverage with Evidence Development Decision Updates**



Maryam Mooghali, MD, MSc<sup>1</sup>; Osman Moneer, BA<sup>1</sup>; Guneet Janda, BS<sup>1</sup>; Sanket S. Dhruva, MD, MHS<sup>2</sup>; Joseph S. Ross, MD, MHS<sup>1</sup>; Reshma Ramachandran MD, MPP, MHS<sup>1</sup>

<sup>1</sup>Yale University School of Medicine, CT; <sup>2</sup>UCSF School of Medicine, CA

## Background

- In 2005, the Centers for Medicare and Medicaid Services (CMS) introduced the Coverage with Evidence Development (CED) program.
- Under the CED program, items and services with limited evidence of benefit or harm will be covered while requiring participation in clinical studies approved by the CMS.
- The goal is to generate clinical evidence to evaluate whether these items and services meet the statutory "reasonable and necessary" criteria for Medicare coverage.
- After an unspecified period of time, CMS reconsiders
   CED decisions based on the newly generated evidence:
  - CMS could remove the CED requirement
  - CMS could require continuation of CEDapproved studies
  - CMS could revoke the national coverage and refer the coverage to local Medicare Administrative Contractors (MACs)

# Objective

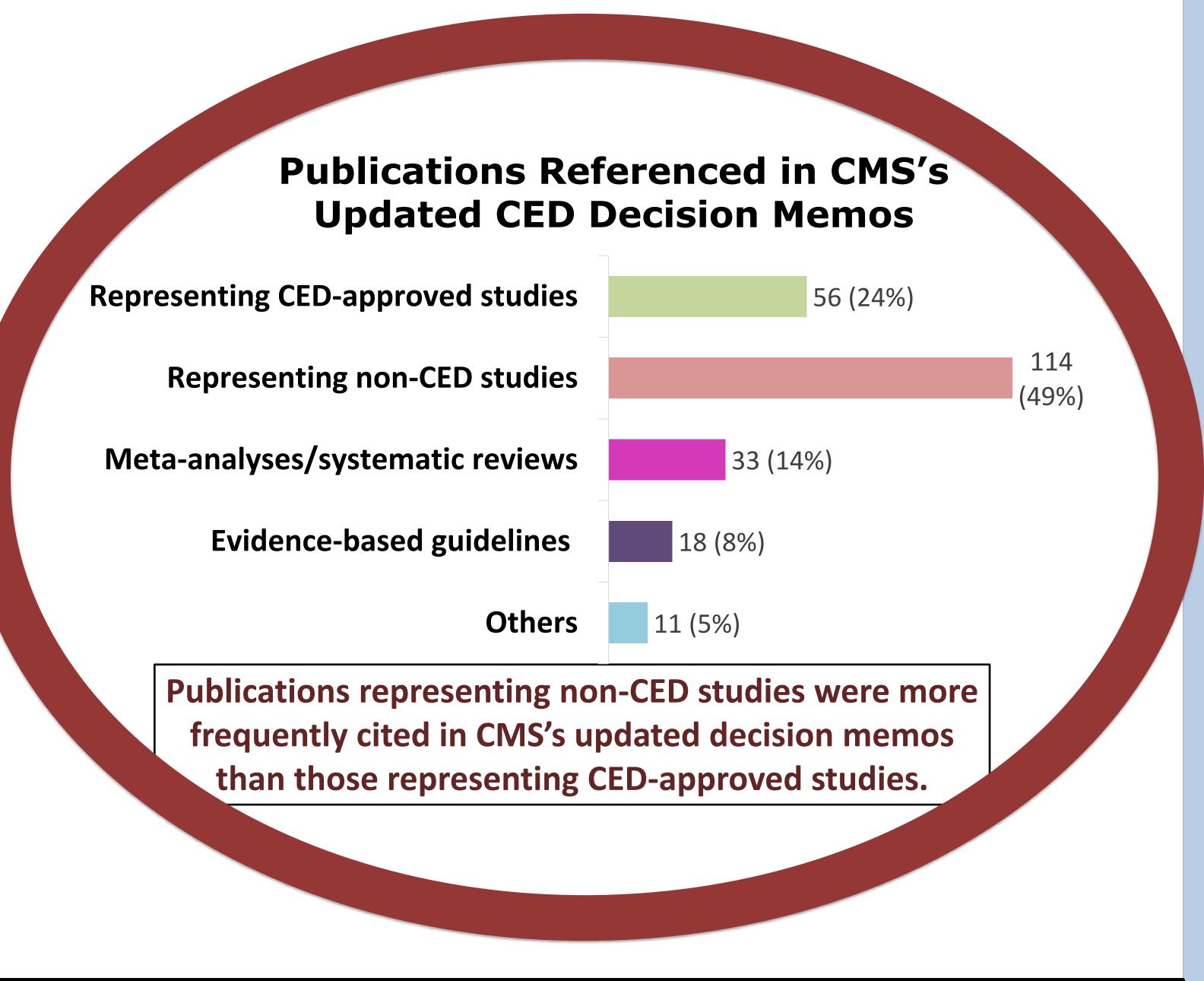
To **examine** the **evidence** used by the CMS when **reconsidering** its **coverage decisions** for items and services covered under the CED program

### Methods

- Study Type: Cross sectional
- Data source:
  - CMS's CED webpage
  - ClinicalTrials.gov registries and peer-reviewed publications
- Sample: All items and services covered under the CMS's CED program with reconsidered coverage decisions

### Results

- Overall, **26 items and services** covered under the **CED program** from 2005 to 2023.
- Of these, 10 (38%) had updated coverage decisions.
- Median duration between first and subsequent coverage decisions:
   7.9 (IQR, 6.6-12.1) years.



Upon coverage reconsideration, CMS removed the CED requirements for 30%, continued the CED requirements for 30%, and revoked the coverage for 30% of items and services.

Updated coverage decisions for items/services covered under CED		
program		
Ongoing CED (i.e., requiring continuation of CED-	30%	
approved studies)		
Converted to NCD without CED	30%	
Converted to NCD without CED for a subpopulation +	10%	
deferred coverage to local MACs for other patients		
NCD revoked and coverage was deferred to local MACs	30%	

### Results

The majority of CED-approved studies were randomized clinical trials.

Non-CED studies had less robust study design, enrolled fewer participants, and were mainly conducted outside the U.S.

CED-approved studies (56 publications representing 15 studies)	
Study type	
Randomized clinical trial	60%
Non-randomized clinical trial	7%
Prospective cohort	13%
Retrospective cohort	20%
Total patient population size	
Median (IQR)	1,000 (286-2,492)

Non-CED studies (114 publications representing 93 studies)		
13%		
1%		
44%		
40%		
2%		
122 (51-570)		
2%		
38%		
4%		
56%		

### Conclusion

CMS leverages CED requirements to generate clinical evidence about new items and services; however, updated decision memos more often cited publications from non-CED studies, many of which had less robust study designs and enrolled non-US participants.

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