# DEPARTMENT OF HEALTH AND HUMAN SERVICES

#### Centers for Medicare & Medicaid Services

[CMS-3421-FN]

# Medicare Program; Transitional Coverage for Emerging Technologies

**AGENCY:** Centers for Medicare & Medicaid Services (CMS), Department of Health and Human Services (HHS).

**ACTION:** Final notice.

**SUMMARY:** This final notice finalizes the process and procedures for the Transitional Coverage for Emerging Technologies (TCET) pathway and provides our responses to the public comments received.

**DATES:** This final notice is effective August 12, 2024.

FOR FURTHER INFORMATION CONTACT: Lori Ashby, (410) 786–6322.

#### SUPPLEMENTARY INFORMATION:

#### I. Background

This notice describes the method we will use to provide transitional coverage for emerging technologies (TCET) through the national coverage determination (NCD) process. The TCET pathway is designed to deliver transparent, predictable, and expedited national coverage for certain eligible Breakthrough Devices that are Food and Drug Administration (FDA) market authorized. It builds upon CMS experience with the Parallel Review program and the Coverage with Evidence Development (CED) pathway. Additionally, the TCET pathway reflects the feedback received from interested parties, including beneficiaries, patient groups, medical professionals and societies, medical device manufacturers, other Federal partners, and others involved in developing innovative medical devices. This feedback was obtained from informal and formal meetings, the comments we received as we conducted rulemaking for the Medicare Coverage of Innovative Technology (MCIT) pathway (referenced later in this section), and during the two listening sessions that were held following the repeal of the January 14, 2021 MCIT/"Reasonable and Necessary (R&N)" final rule (86 FR 2987). Additionally, feedback was obtained from public comments and one listening session following publication of the June 28, 2023, **Federal Register** notice (88 FR 41633) announcing the TCET pathway. The TCET pathway described in this notice is intended to balance multiple considerations when making

coverage determinations: (1) facilitating early, predictable, and safer beneficiary access to new technologies; (2) reducing uncertainty about coverage by evaluating early the potential benefits and harms of technologies with manufacturers; and (3) encouraging evidence development if notable evidence gaps exist for coverage purposes.

The Medicare program serves over 66.7 million beneficiaries 1 and is the largest single healthcare purchaser in the U.S. Currently, approximately 51 percent of the total Medicare beneficiary population, or 34 million Medicare beneficiaries, receive coverage through Medicare fee-for-service (FFS). More than 1.1 billion Medicare FFS claims were processed in fiscal year (FY) 2023, comprised of approximately 192 million Part A claims (such as inpatient care in hospitals, skilled nursing facility care, hospice care, and home health care) and 950 million Part B claims (such as doctor and other health care services and outpatient care, durable medical equipment, and some preventive services), providing approximately \$431.5 billion in Medicare FFS benefits.2

Medicare Part A and Part B cover a wide range of items and services but may not cover every item or service that a physician or healthcare practitioner prescribes or orders. In general, for an item or service to be covered under Medicare, it must meet the standard described in section 1862(a)(1)(A) of the Social Security Act (the Act)—that is, it must be reasonable and necessary for the diagnosis or treatment of illness or injury or to improve the functioning of a malformed body member. CMS makes reasonable and necessary coverage decisions through various pathways to facilitate expeditious beneficiary access to items and services that meet the statutory standard for coverage.

We believe that new approaches could help make coverage decisions on certain new items and services, such as medical devices, more quickly and provide expedited access to new and innovative medical technologies. On November 15, 2021 (86 FR 62944), CMS published a final rule that repealed the MCIT rule before it was legally effective and, thus, was never implemented.<sup>3</sup> As promised in the repeal, CMS provided additional opportunities to engage with the public. We have incorporated that input, along with input gathered in

MCIT rulemaking, as we have developed the TCET pathway to make decisions on certain emerging technologies at the national level.

We believe that the TCET pathway balances the needs of beneficiaries, patient groups, medical professionals and societies, medical device manufacturers, and others involved in developing innovative medical devices.

#### A. Current Medicare Coverage Mechanisms

Items and services, including medical devices, are currently covered under Part A or Part B in one of three ways, presented here for context. The TCET pathway described in this notice will leverage the existing NCD pathway, and CED in particular, to provide a streamlined coverage pathway for emerging technologies. We note that the TCET pathway does not alter the existing standards for these coverage mechanisms.

#### 1. Claim-by-Claim Adjudication

In the absence of an NCD or a local coverage determination (LCD), Medicare Administrative Contractors (MACs) make coverage decisions under section 1862(a)(1)(A) of the Act and may cover items and services on a claim-by-claim basis if the MAC determines them to be reasonable and necessary for individual patients. Though claims may be denied if they are not determined to be reasonable and necessary, the claim-byclaim adjudication pathway remains the fastest path to potential coverage. The majority of all Medicare Parts A and B claims have coverage determined through the claim-by-claim adjudication process.

## 2. Local Coverage Determinations (LCDs)

MACs develop LCDs under section 1862(a)(1)(A) that apply only within their geographic jurisdictions (see sections 1862(l)(6)(B) and 1869(f)(2)(B) of the Act). LCDs govern only the issuing MAC's claims adjudication and are not controlling authorities for qualified independent contractors or administrative law judges in the claims adjudication process.

The MACs follow specific guidance for developing LCDs for Medicare coverage as outlined in the CMS Program Integrity Manual (PIM), Chapter 13. LCDs generally take 9 to 12 months to develop. MACs are expected to finalize proposed LCDs within 365 days from opening, per Chapter 13.5.1-Local Coverage of the PIM.4 That

 $<sup>^1\,</sup>https://www.cms.gov/oact/tr/2024.$ 

<sup>&</sup>lt;sup>2</sup> https://www.cms.gov/Medicare/Medicare-Contracting/Medicare-Administrative-Contractors/What-is-a-MAC.

 $<sup>^3</sup>$  https://www.govinfo.gov/content/pkg/FR-2021-11-15/pdf/2021-24916.pdf.

<sup>&</sup>lt;sup>4</sup>CMS Program Integrity Manual, Chapter 13 Local Coverage Determinations, available at https://

chapter will continue to be used in making determinations under section 1862(a)(1)(A) of the Act for items and services at the local level.

# 3. National Coverage Determinations (NCDs)

The term "national coverage determination" is defined in section 1862(l)(6)(A) of the Act and means a determination by the Secretary of the Department of Health and Human Services (the Secretary) with respect to whether or not a particular item or service is covered nationally under Title XVIII of the Act. In general, NCDs are national policy statements published to identify the circumstances under which a particular item or service will be considered covered (or not covered) by Medicare. NCDs serve as generally applicable rules to ensure that similar claims for items or services are covered in the same manner. Often, an NCD is written in terms of defined clinical characteristics that identify a population that may or may not receive Medicare coverage for a particular item or service. Traditionally, CMS relies heavily on health outcomes data to make NCDs.

Most NCDs have involved determinations under section 1862(a)(1)(A) of the Act, but NCDs can be made based on other provisions of the Act, such as section 1862(a)(1)(E) of the Act. Under section 1862(a)(1)(E) of the Act, Medicare has provided coverage for certain promising technologies with a limited evidence base on the condition that they are furnished in the context of approved clinical studies or with the collection of additional clinical data. CMS has used section 1862(a)(1)(E) of the Act to support the "Coverage with Evidence Development" or "CED" policy since July 12, 2006, and the most recent CED policy is described in the 2024 guidance document.<sup>5</sup> In general, CED enables providers and suppliers to perform high-quality studies that we expect will produce evidence that may lead to positive national coverage determinations under section 1862(a)(1)(A) of the Act.

The Agency for Healthcare Research and Quality (AHRQ) reviews all CED NCDs established under section 1862(a)(1)(E) of the Act. Consistent with section 1142 of the Act, AHRQ collaborates with CMS to define standards for the clinical research studies to address the CED questions and support and endorse the general

standards for CED studies (https://www.cms.gov/Medicare/Coverage/Coverage-with-Evidence-Development).

NCDs also include a determination on whether the item or service under consideration has a Medicare benefit category under Part A or Part B.6 such as inpatient hospital services, physicians' services, durable medical equipment, or others. All items and services coverable by Medicare must fall within the scope of a statutory benefit category, and many of these specific terms are defined under section 1861 of the Act and in implementing regulations. While benefit category determinations (BCDs) may often be completed within 3 months, in some cases BCDs may take considerably longer. While CMS is working to align the coverage and BCD review processes better, manufacturers should be aware that, in some cases, benefit category reviews may not be completed within the accelerated timeframes needed for the TCET pathway. In addition, to be covered, the item or service must not be excluded from coverage by statute or our regulations at 42 CFR part 411, subpart A. The NCD pathway, which has statutorily prescribed timeframes, generally takes 9 to 12 months to complete from the opening of the tracking sheet.7

In addition to these coverage pathways, CMS has established a Clinical Trial Policy (CTP) NCD 310.1. The CTP policy is applied when Medicare covers routine care items and services (but generally not the technology under investigation) in a clinical study that is supported by certain Federal agencies. The CTP coverage policy was developed in 2000.8 We note that coverage under CED and the CTP may not occur simultaneously.

Lastly, CMS has established the Parallel Review program. In the September 17, 2010, **Federal Register** (75 FR 57045), FDA and CMS announced their intention to initiate a Parallel Review pilot program in an effort to increase the quality of patient health care by facilitating earlier access to innovative medical technologies for Medicare beneficiaries. In the October 24, 2016, **Federal Register** (81 FR 73113), FDA and CMS published a joint notice that announced and described the processes for the fully implemented

Program for Parallel Review of Medical Devices.

Parallel Review is a mechanism for FDA and CMS to simultaneously review the clinical data submitted by a manufacturer about a medical device to help decrease the time between FDA's approval of an original or supplemental premarket approval (PMA) application or granting of a de novo classification request (De Novo request) and the subsequent CMS proposed NCD. Parallel Review has two stages: (1) FDA and CMS meet with the manufacturer to provide feedback on the proposed pivotal clinical trial, and (2) FDA and CMS concurrently review ("in parallel") the clinical trial results submitted in the PMA application, or De Novo request. FDA and CMS independently review the data to determine whether it meets their respective Agency's standards and communicate with the manufacturer during their respective reviews. This program relies upon a technology having a comprehensive evidence base to support the clinical analysis for the NCD.

#### B. Differences Between FDA and CMS Review

While FDA and CMS have a wellestablished history of collaboration in the review of evidence for emerging medical technologies, FDA and CMS must consider different legal authorities and apply different statutory standards when making marketing authorization and coverage decisions, respectively, for medical devices. Generally, FDA makes marketing authorization decisions based on whether the relevant statutory standard for safety and effectiveness is met, while CMS generally makes NCDs based on whether an item or service is reasonable and necessary for the diagnosis or treatment of an illness or injury for individuals in the Medicare population. These two reviews are separate and are conducted independently by the two agencies. The FDA review of devices does not require a focus specifically on the Medicare population.

Among other objectives, FDA conducts a premarket review of certain devices to evaluate their safety and effectiveness and determine if they meet the applicable standard to be marketed in the United States. FDA approval or clearance alone does not entitle that technology to Medicare coverage, given separate Medicare statutory coverage requirements. While FDA reviews devices to ensure they meet applicable safety and effectiveness standards, there is often limited evidence regarding whether the device is clinically beneficial for Medicare patients. Of

www.cms.gov/Regulations-and-Guidance/ Guidance/Manuals/downloads/pim83c13.pdf.

<sup>&</sup>lt;sup>5</sup> The most recent CED guidance document is available at https://www.cms.gov/medicare/coverage/evidence.

 $<sup>^6\,</sup>Note \colon Medicare$  does not develop NCDs for Part D.

<sup>&</sup>lt;sup>7</sup> Section 1862(l) of the Act.

<sup>&</sup>lt;sup>8</sup> CMS, National Coverage Determination for Routine Costs in Clinical Trials available at https:// www.cms.gov/medicare-coverage-database/details/ ncd-details.aspx?NCDId=1&fromdb=true.

note, individuals representative of the Medicare population are often excluded from the studies used to generate the evidence reviewed by FDA. This is an important consideration for manufacturers and other interested parties seeking the most appropriate coverage pathway under Medicare. Where there is limited evidence on the health outcomes for individuals in the Medicare population, there may be insufficient evidence to support a full coverage national coverage determination under section 1862(a)(1)(A) of the Act.

In general, as discussed, under section 1862(a)(1)(A) of the Act, Congress required CMS to determine whether items and services are reasonable and necessary to diagnose or treat an illness or injury or to improve the functioning of a malformed body member for an individual with Medicare. For CMS, the evidence base underlying FDA's decision to approve or clear a device for particular indications for use has often been crucial for determining Medicare coverage through the NCD process. CMS looks to the evidence supporting FDA market authorization and the device's approved or cleared indications for use for evidence generalizable to the Medicare population, data on improvement in health outcomes, and the durability of those outcomes. If there is no data on those elements in the Medicare population, it is difficult for CMS to make an evidence-based decision on whether the device is reasonable and necessary for the Medicare population.

CMS considers whether the evidence shows that the item or service will improve the health of Medicare patients recognizing that Medicare beneficiaries are often older, have multiple comorbidities, and are often underrepresented or not represented in many clinical studies.<sup>9</sup> According to a recent study,<sup>10</sup> approximately 50

percent of Medicare patients have two or more diseases. Clinical studies that are conducted to gain FDA market authorization are not necessarily required to include participants with similar demographics and characteristics of the Medicare population. To demonstrate the safety and effectiveness of a device as clearly as possible, many studies impose stringent exclusion criteria that disqualify individuals with characteristics that may make it harder to ascertain a device's effects, such as comorbidities and concomitant treatment. Consequently, a device's potential benefits and harms for older patients with more comorbidities may not be well understood at the time of FDA market authorization.

### C. FDA Breakthrough Devices Program

Under the TCET coverage pathway, CMS will coordinate with FDA and manufacturers of Breakthrough Devices as those devices move through the FDA premarket review processes to ensure timely Medicare coverage decisions following any FDA market authorization, as described in detail later in this section. The FDA Breakthrough Devices Program is an evolution of the Expedited Access Pathway Program and the Priority Review Program. See section 515B of the FD&C Act, 21 U.S.C. 360e-3; see also final guidance for industry entitled, "Breakthrough Devices Program." 12

FDA's Breakthrough Devices Program is not for all new medical devices; rather, it is only for those that FDA determines meet the standards for Breakthrough Device designation. In accordance with section 515B of the FD&C Act (21 U.S.C. 360e-3), the Breakthrough Devices Program is for medical devices and device-led combination products 13 that meet two criteria. The first criterion is that the device provides for more effective treatment or diagnosis of lifethreatening or irreversibly debilitating human disease or conditions. The second criterion is that the device must satisfy one of the following elements: It represents a breakthrough technology; no approved or cleared alternatives exist; it offers significant advantages over existing approved or cleared alternatives, including the potential,

compared to existing approved alternatives, to reduce or eliminate the need for hospitalization, improve patient quality of life, facilitate patients' ability to manage their own care (such as through self-directed personal assistance), or establish long-term clinical efficiencies; or device availability is in the best interest of patients (see 21 U.S.C. 360e-3(b)(2)). These criteria make Breakthrough designated devices unique. Devices meeting these criteria are also likely to be highly relevant to the needs of the Medicare population who may not have other treatment options.

FDA has explained in guidance that because decisions on requests for Breakthrough designation will be made prior to marketing authorization, FDA considers whether there is a "reasonable expectation that a device could provide for more effective treatment or diagnosis relative to the current standard of care (SOC) in the U.S" for purposes of the designation. This reasonable expectation can be supported by sources including "literature or preliminary data (bench, animal, or clinical)".14

#### II. Summary of Proposed Provisions and CMS Responses to Public Comments on the Proposed Notice

In the June 28, 2023, Federal Register (88 FR 41633), we published a proposed notice to establish the TCET pathway. We received approximately 150 timely pieces of correspondence in response to the publication of the June 28, 2023, proposed notice. Commenters included a broad range of interested parties, including physicians, professional societies, manufacturers, manufacturer associations, venture capital firms, health plans, and patient advocates. Some comments addressed issues or expressed concerns that were beyond the scope of our proposals in the proposed notice or were not relevant and will not be summarized and included in our responses below. Revisions made to the TCET pathway in response to specific comments are noted in the applicable response to comments, and a listing of changes from proposed to final is included in section III. of this final notice. Additionally, clarifying edits have been made, as appropriate. The following is a summary of the public comments that we received related to the proposed notice, and our responses to the public comments.

<sup>&</sup>lt;sup>9</sup> Davide L Vetrano, MD, Katie Palmer, Ph.D., Alessandra Marengoni, MD, Ph.D., Emanuele Marzetti, MD, Ph.D., Fabrizia Lattanzio, MD, Ph.D., Regina Roller-Wirnsberger, MD, MME, Luz Lopez Samaniego, Ph.D., Leocadio Rodríguez-Mañas, MD, Ph.D., Roberto Bernabei, MD, Graziano Onder, MD, Ph.D., Frailty and Multimorbidity: A Systematic Review and Meta-analysis, The Journals of Gerontology: Series A, Volume 74, Issue 5, May 2019, Pages 659–666, https://doi.org/10.1093/gerona/gly110.

<sup>&</sup>lt;sup>10</sup> Tan, Y.Y., Papez, V., Chang, W.H., Mueller, S.H., Denaxas, S., & Lai, A.G. (2022). Comparing clinical trial population representativeness to real-world populations: an external validity analysis encompassing 43 895 trials and 5 685 738 individuals across 989 unique drugs and 286 conditions in England. The Lancet Healthy Longevity, 3(10), e674–e689.

<sup>&</sup>lt;sup>11</sup> Varma T, Mello M, Ross JS, et al Metrics, baseline scores, and a tool to improve sponsor performance on clinical trial diversity: retrospective

cross sectional study BMJ Medicine 2023;2:e000395. doi: 10.1136/bmjmed-2022-000395

<sup>&</sup>lt;sup>12</sup> https://www.fda.gov/regulatory-information/ search-fda-guidance-documents/breakthroughdevices-program.

<sup>&</sup>lt;sup>13</sup> Information on device-led combination products can be accessed here: https://www.fda.gov/media/119958/download.

<sup>&</sup>lt;sup>14</sup> Food and Drug Administration, Breakthrough Devices Program Guidance for Industry and Food and Drug Administration Staff, available at: https:// www.fda.gov/regulatory-information/search-fdaguidance-documents/breakthrough-devicesprogram.

A. Overarching Comments Regarding CMS' Proposal To Establish the TCET Pathway

CMS proposed that the TCET pathway use the NCD and CED processes to expedite Medicare coverage of certain Breakthrough Devices. Our proposal noted that the TCET pathway would be voluntary and stated that the goal of the pathway is to reduce uncertainty about coverage options through a pre-market evaluation of potential harms and benefits of technologies while identifying any important evidence gaps. Additionally, CMS' proposal for the TCET pathway provided an evidence development framework to provide manufacturers with opportunities for increased pre-market engagement with CMS and, to reduce manufacturer burden, increased flexibility to address evidence gaps to support Medicare coverage. In the proposed notice, CMS stated that we anticipate accepting up to five TCET candidates annually.

#### 1. General Concerns

Comment: Many commenters generally supported the TCET concept, expressing that it could result in faster access to newly FDA market-authorized technologies for Medicare beneficiaries. Commenters appreciated that TCET will bring closer collaboration between FDA and CMS. Those who were supportive also stated their belief that the proposal would promote innovation, decrease uncertainty and delays in coverage, and improve beneficiary access to cuttingedge treatments. The majority of commenters expressed support for the TCET proposal in principle, noting that it is a "good first step," and provided suggested modifications to improve the pathway.

Response: We appreciate the comments supporting the TCET proposal. We also appreciate the suggestions provided by commenters to improve the pathway. The modifications suggested by commenters and CMS' responses to those suggestions are provided throughout this section.

Comment: Some commenters do not believe CMS' proposal goes far enough and refer to it as "flawed" and a "missed opportunity." Several commenters expressed concerns that the TCET pathway is limited in scope in that it only applies to "certain FDA-designated Breakthrough Devices that fall within a Medicare benefit category." Some of these commenters expressed support for automatic, immediate coverage upon FDA market authorization. A commenter expressing

a preference for immediate or nearimmediate coverage referred to TCET as a "partial solution" to providing timely access to innovative devices as the pathway will be further limited by CMS resource constraints.

Response: We appreciate the public comments but do not agree that the TCET proposal is flawed or was a missed opportunity to provide better access to Breakthrough Devices for Medicare beneficiaries. We also disagree that it is a "partial solution."

While the FDA reviews devices to ensure they meet applicable safety and effectiveness standards, there is often limited evidence regarding whether the device is clinically beneficial to Medicare patients at the time of FDA market authorization. As such, we do not believe that it is appropriate to grant all FDA market authorized Breakthrough Devices automatic coverage solely based on their Breakthrough Designation. Furthermore, when there is a lack of evidence specific to the Medicare population, it makes it difficult for CMS to ensure that devices are not posing additional risks in the Medicare population. Continuing to develop evidence generalizable to the Medicare population is important not only to payers, but is critical for patients, their caregivers, and their treating clinicians to make the most informed decisions for their treatment. We believe that it is important to require manufacturers participating in any innovative coverage pathway, such as TCET, to produce evidence that demonstrates the health benefit of the device and the related services for patients with demographics similar to that of the Medicare population.

Our proposal centered on Breakthrough Devices because we believe this is the area with the most immediate need, particularly considering the unique FDA criteria for Breakthrough designation status. We agree with commenters about the importance of promoting innovation across all items and services covered under Medicare. However, because we have consistently heard from interested parties about the need for more rapid coverage for Breakthrough Devices, we are focusing on Breakthrough Devices in this final notice.

The TCET pathway will result in a more transparent, predictable, and efficient Medicare coverage pathway that balances multiple competing interests. Coverage under CED can expedite beneficiary access to innovative technologies (and result in improved health outcomes) by ensuring that systematic patient safeguards—including assurance that the technology

is provided to clinically appropriate patients—are in place that reduce the risks inherent to new technologies, or to new applications of older technologies. In the absence of CED, technologies with limited evidence would likely not be covered. Further, TCET represents a substantial transformation of how CMS conducts coverage reviews and is responsive to extensive feedback from interested parties. The pathway has broad support from the vast majority of commenters and CMS views this as the best option to provide coverage for emerging technologies for which the available evidence is insufficient to support broad national coverage at the time of FDA market authorization. As we gain experience with the TCET pathway, we may consider expanding its application to other items and services.

Comment: A commenter questioned CMS' legal authority to use CED and expressed opposition to CMS' use of it. This commenter noted past communications from their organization, including some previously shared with CMS, that "have, among other things, questioned CMS's reliance upon uncertain legal grounds for utilizing CED." One of the examples provided by this commenter is the white paper, "Façade of Evidence: How Medicare's Coverage with Evidence Development Paradigm Rations Care and Exacerbates Inequity" 15 which cites an Advisory Opinion from the former General Counsel for HHS that "support" is usually used to mean funding.

Response: We disagree with the commenter's assertion that CMS does not have statutory authority for CED. Advisory Opinion 21–03 was issued by the past administration on January 14, 2021. It has been removed from the HHS website. Advisory opinions do not grant rights or impose obligations and the opinions can be revised, modified, or eliminated as necessary to reflect changing circumstances.

Congress has established an exception in section 1862(a)(1)(E) of the Act that authorizes the Medicare program to pay for items and services in the case of research conducted pursuant to section 1142 of the Act, so long as the items or services are reasonable and necessary to carry out the purposes of that section. Section 1142(a)(1)(A) of the Act authorizes the Secretary, acting through the AHRQ Director, to "conduct and

<sup>15</sup> Alliance for Aging Research, FAÇADE OF EVIDENCE: HOW MEDICARE'S COVERAGE WITH EVIDENCE DEVELOPMENT PARADIGM RATIONS CARE AND EXACERBATES INEQUITY (Feb. 13, 2023), available at https://www.agingresearch.org/ wp-content/uploads/2023/02/Facade-of-Evidence-CED-2-13-2023.pdf.

support research with respect to the outcomes, effectiveness, and appropriateness of health care services and procedures in order to identify the manner in which diseases, disorders, and other health conditions can most effectively and appropriately be prevented, diagnosed, treated, and managed clinically[.]" In this subsection the word "support" is not necessarily limited to financial backing. "Support" pursuant to this subsection may also take the form of an appropriate AHRQ endorsement

Under CED, AHRQ has endorsed and supported research for various items and services that were of particular importance to the Medicare population, but where the existing medical evidence was not sufficient to permit coverage under section 1862(a)(1)(A) of the Act. AHRQ's endorsement has occurred when AHRQ officials have used staff resources to identify the general characteristics and attributes that are necessary for any Medicare sponsored clinical trial. The general AHRQ recommendations have been included in current and prior CED guidance documents. AHRQ officials have also reviewed each NCD where CED has been proposed or finalized, focusing on the specific methodological approach that would be necessary for coverage in each specific CED NCD. AHRQ's support has been documented and included in the record for each CED NCD. AHRQ's expertise has been essential to support CED under sections 1142 and 1862(a)(1)(E) of the Act.

Additionally, HHS has recognized that AHRQ's endorsement of standards for qualifying clinical trials under section 1142 of the Act can provide the statutory authority for Medicare coverage for items and services under the Medicare program in circumstances outside of the CED policy. The Medicare clinical trial policy, now established at section 310 of the Medicare National Coverage Determinations Manual, relies on the same statutory authority and has been effective since September 19, 2000.

Subsequently, CMS, then known as the Health Care Financing Administration, requested AHRQ convene a multi-agency Federal group to develop readily verifiable criteria by which to identify trials that meet an appropriate standard of quality. On October 20, 2000, AHRQ held a public meeting to gather pertinent information and views that would contribute to defining the qualifying criteria used to identify sound clinical trials appropriate for Medicare coverage. The qualifying criteria was developed under the authority to support health care research in section1142 of the Act.

Comment: A commenter stated that TCET is not genuinely voluntary and restricts access. This commenter asserts that "CMS downplays the reality that manufacturers who do not follow through with the TCET pathway and subject themselves to CED requirements are virtually excluded from Medicare coverage altogether without regard to the implications for beneficiaries resulting from lack of access."

Response: We disagree. Coverage under CED can expedite beneficiary access to innovative technologies (and result in improved health outcomes) while ensuring that systematic patient safeguards-including assurance that the technology is provided to clinically appropriate patients—are in place that reduce the risks inherent to new technologies, or to new applications of older technologies. CMS may cover certain items and services under the CED pathway that would otherwise not satisfy the reasonable and necessary standard. In the absence of CED, technologies with limited evidence could be noncovered. Participation is voluntary for beneficiaries in CED studies. Receipt of an item or service under a CED NCD is voluntary.

Comment: A commenter asserted that CMS' use of the NCD process, and CED more specifically, to establish coverage under TCET interferes with the practice of medicine. This commenter cited section 1801 of the Act and stated that "CMS' attempt to supervise or control healthcare provider qualifications, healthcare settings, and recipients of healthcare services violates the statute."

Response: We acknowledge that under section 1801 of the Act Federal officers and employees are not authorized to exercise any supervision or control over the practice of medicine or the manner in which medical services are provided, or over the selection, tenure, or compensation of any officer or employee of any institution, agency, or person providing health services; or to exercise any supervision or control over the administration or operation of any such institution, agency, or person. We disagree, however, with commenter's suggestion that NCDs, CED, and the TCET proposal interfere in the practice of medicine.

As noted previously, the Medicare statute includes a number of restrictions that limit payment for items and services under Part A and Part B of Title XVIII. Medicare does not cover every item or service just because it was recommended by a physician or healthcare practitioner. Moreover, NCDs do not restrict the practice of medicine, but do inform beneficiaries and

practitioners in advance when particular items and services will be covered (or not covered) nationally under Title XVIII. NCDs are binding authorities for Medicare contractors and adjudicators, but not medical practitioners (see 42 CFR 405.1060). NCDs ensure that similar claims are processed and paid in a uniform manner. Physicians can still prescribe or order other services that will not be paid by Medicare, and the beneficiary may agree to pay for items or services that Medicare does not cover. CMS' role in making NCDs is consistent with the agency's statutory authority.

Comment: A commenter questioned if obtaining an NCD without CED would

be possible under TCET.

Response: Yes, an NCD without CED is an option if there is sufficient evidence to support Medicare coverage under section 1862(a)(1)(A) of the Act.

Comment: A commenter claimed that CMS' proposal for the TCET pathway undermines FDA's Breakthrough Devices Program and postmarket

requirements. *Response:* We do not agree that CMS is undermining FDA's Breakthrough Devices Program and postmarket requirements. When we find that the medical evidence is insufficient to permit Medicare payment under section 1862(a)(1)(A) of the Act, we often consider whether an item or service may still be clinically beneficial to patients within the Medicare population. The limited coverage that we provide to those beneficiaries that elect to participate in clinical studies through CED does not interfere with FDA's role under that agency's separate statutory authority. Further, there is opportunity under TCET to leverage an FDArequired postmarket study, if any, to address specific evidence gaps for Medicare beneficiaries.

Comment: Some commenters expressed that CMS should have issued the proposal as a proposed rule rather than a notice to facilitate meaningful changes and address key issues that hinder beneficiary access

hinder beneficiary access.

Response: We do not agree that a proposed rule is required to establish a procedural rule. The TCET pathway establishes procedures for the effective and efficient operations of the agency designed to expedite national coverage of Breakthrough Devices. The notice does not establish or change a substantive legal standard but establishes a process to identify specific evidence gaps and creates a framework to fill those missing evidentiary gaps. Establishing TCET through a proposed procedural notice enabled CMS to consider public comments but also has

the advantage that the procedures may be modified as necessary as the Agency, manufacturers, and the public gain experience using the process. The procedural notice is important to explain how the public and TCET sponsors can work with CMS with respect to coverage for certain Breakthrough Devices and addresses key issues that may have hindered beneficiary access in the past. The TCET pathway is intended to balance multiple considerations when making coverage determinations: (1) facilitating early, predictable, and safer beneficiary access to new technologies; (2) reducing uncertainty about coverage by evaluating early the potential benefits and harms of technologies with manufacturers; and (3) encouraging evidence development if evidence gaps exist. Further, the TCET pathway aims to coordinate benefit category determination, coding, and payment reviews and to allow any evidence gaps to be addressed through fit-for-purpose (FFP) studies. The anticipated result of the new coverage pathway would be faster access to technologies within a predictable coverage framework that generates clinical evidence for the Medicare population.

Comment: Several commenters urged CMS to finalize the TCET pathway quickly and commit to periodic refinements as needed as experience is gained.

Response: We appreciate these comments. CMS has moved as quickly as possible to review and respond to the 150 comments received on the proposed notice and issue a final notice. We acknowledge that refinements to the TCET pathway may be needed as CMS, manufacturers, and other interested parties gain more experience.

#### 2. TCET Timelines

Comment: Several commenters noted CMS' ambitious timelines for the TCET pathway and questioned whether CMS' timelines are realistic. Some of these commenters encouraged CMS to be forthcoming with realistic timelines. A few commenters suggested that CMS provide coverage for Breakthrough Devices sooner than the timeline proposed. Some commenters requested that CMS provide more definitive timelines.

Response: We appreciate these comments. We agree that it is important to provide reasonable and realistic timelines. In general, we believe our timelines are reasonable and realistic based on our experience and input from interested parties. While we understand that some would like faster and more definitive timelines, we have also heard

that we should provide as much flexibility as possible, given that all interested parties may experience unanticipated obstacles and delays as they gain experience with TCET. We are making one specific timeline update in the final notice to specify that we will consider TCET nominations on a quarterly basis, rather than acting upon them within 30 days of submission. This additional time provides a more realistic timeframe for CMS to coordinate with the manufacturer and, as appropriate, FDA on any outstanding issues and to begin internal discussions within CMS regarding operational issues. It will also allow CMS to prioritize between eligible devices and provide a fairer opportunity for participation in the TCET pathway, regardless of the anticipated timing of FDA's decision on market authorization. Additional information regarding this change is detailed below in this section under "C. Nominations."

Comment: Some commenters questioned whether CMS could adhere to the timelines considering CMS' long-standing resource constraints. These commenters cited the potential for delays. A few of these commenters expressed that CMS should be held accountable for meeting all timelines indicated in the notice.

Response: CMS expects to adhere to the timelines outlined in the notice barring unexpected complications based on current resources, and we expect that manufacturers will do the same or at least provide as much notice as possible when complications are encountered. We have built in flexibility for all parties to help ensure the success of the new TCET pathway. We do not believe that imposing consequences on the Agency or manufacturers for missed deadlines would be helpful. As we gain more experience, we may modify aspects of the TCET pathway, including timelines, in the future.

# 3. Limiting the TCET Pathway to Five Candidates Yearly

Comment: Many commenters expressed concerns with the potential limit to five TCET candidates yearly. Some commenters contend that the limitation is arbitrary and would like CMS to clarify how this number was derived.

Response: We appreciate these comments. Based on our multiple periodic assessments of Breakthrough Devices, we anticipate that we will receive approximately eight nominations for the TCET pathway per year. Most Breakthrough Devices are not appropriate for TCET because they are not appropriate for Medicare

beneficiaries (for example, pediatric technologies not indicated for use in children with ESRD). NCDs are limited to particular items or services but it is possible that more than one device could fall under the same NCD because it addresses the same indication. Based on current resources, we do not anticipate being able to accept more than five candidates into the TCET pathway per year. As we gain more experience with TCET, we will reevaluate and adjust if we can do so within our available resources.

Comment: A commenter stated that CMS does not have statutory authority to limit the number of nominations. The commenter noted that they are unaware of any other coverage, coding or payment mechanisms that have instituted limits. The commenter also noted that MCIT had no limitation to the number of technologies to be approved or considered.

Response: There is no statute that establishes a fixed limit on the number of NCDs that CMS might issue per year; neither is there a statute that requires CMS to issue an unlimited number of NCDs. The anticipated number of TCET NCDs is based on current resources. As we gain more experience with TCET, we will re-evaluate and adjust as appropriate.

We note that MCIT was repealed before it became effective. As we noted in the November 2021 final rule, <sup>16</sup> MCIT had significant limitations. For example, the MCIT pathway did not require evidence development and did not include a mechanism to coordinate benefit category, coding, and payment reviews. Additionally, MCIT did not include beneficiary safeguards beyond limiting coverage to the FDA approved or cleared indication(s) for use.

There are a number of ways in which TCET is different, and in fact improves upon, MCIT. The TCET pathway is intended to balance multiple considerations when making coverage determinations: (1) facilitating early, predictable, and safer beneficiary access to new technologies; (2) reducing uncertainty about coverage by evaluating early the potential benefits and harms of technologies with manufacturers; and (3) encouraging evidence development if notable evidence gaps exist for coverage purposes. Further, the TCET pathway aims to coordinate benefit category determination, coding, and payment reviews and to allow any evidence gaps to be addressed through fit-for-purpose studies.

 $<sup>^{16}\,</sup>https://www.govinfo.gov/content/pkg/FR-2021-11-15/pdf/2021-24916.pdf.$ 

Comment: Commenters noted that the demand for TCET may outpace available resources. Numerous commenters expressed that resources should not hinder TCET and that all eligible devices should be accepted into the pathway. Several commenters stated that the limitation would constrain the pathway's potential and that TCET can be more impactful if additional technologies can be accommodated. A few of these commenters noted that CMS' limitation may create potential access issues for beneficiaries and market disruption. A commenter suggested CMS should consider how resources can be aligned to support a higher number accepted into TCET and reevaluate the number annually. Another commenter suggested that perhaps more devices can pursue TCET once efficiencies can be realized. A commenter suggested that if CMS needs to limit the number of technologies accepted into the pathway, CMS should wait 2 years before creating a cap.

Response: We anticipate no more than five per year because that is the largest number that we believe we can address within current resources. As we gain more experience with TCET, we will reevaluate and adjust as appropriate based on available resources.

Comment: Numerous commenters expressed concerns with CMS' limited resources within and beyond the TCET pathway. Some commenters questioned how the NCD backlog would impact TCET. A commenter cautioned that an excessive emphasis on coverage review for TCET devices could delay consideration of important non-Breakthrough NCD requests.

Response: In addition to the TCET NCDs, we intend to continue issuing our typical number of non-TCET NCDs. As we gain more experience with TCET, we will re-evaluate and adjust our volumes as appropriate within our available resources.

Comment: Some commenters expressed concerns that AHRQ's resources are even more limited than CMS'. A commenter requested that AHRQ and CMS resources be assessed to support the manufacturer feedback needed for the Evidence Preview (EP) and Evidence Development Plan (EDP).

Response: A budget analysis for this activity is beyond the scope of this

Comment: Several commenters stated that CMS should clarify how additional resources can expand the scope and breadth of the pathway.

Response: The proposal was based on current resources. As we gain experience with the process, including any efficiencies that may emerge over time, we will use that information to make adjustments as appropriate.

Comment: A commenter stated that CMS needs sufficient resources to ensure TCET is more utilized than Parallel Review has been to date.

*Response:* We continue to pursue the necessary resources to do our work.

Comment: A commenter expressed appreciation for CMS' acknowledgment of resource constraints and noted that TCET does not preclude coverage of Breakthrough Devices through existing coverage mechanisms such as claim-by-claim adjudication by MACs, LCDs, and the Parallel Review Program.

Response: We appreciate this comment and acknowledge that existing coverage mechanisms remain available for manufacturers of Breakthrough Devices to pursue Medicare coverage.

#### 4. Operational Issues

Comment: Numerous commenters expressed concerns that the proposed procedural notice did not adequately address the operational issues (e.g., coding and payment issues) that could inhibit the successful implementation of the TCET pathway and would still need to be addressed. Commenters indicated that the goals of TCET cannot be achieved until these operational issues are resolved. Some commenters requested that CMS provide more specifics on the coding and payment processes. Numerous commenters cited the necessity of alignment among coverage, coding, and payment. They requested that CMS provide more specific information on how these processes will be coordinated under TCET and include timelines. A commenter encouraged CMS to collaborate internally to improve alignment among these processes.

Response: We appreciate these comments and agree that coordination of coverage, coding, and payment processes supporting the TCET pathway is important. We have established new internal collaborations to improve coordination going forward. CMS recently released the CMS Guide for Medical Technology Companies and Other Interested Parties website, which provides interested parties, including, but not limited to, medical device, pharmaceutical, and biotechnology companies, with information about Medicare's processes for determining coding, coverage, and payment as well as other key considerations. The Guide will be updated to include information related to TCET in the near future. This resource can be accessed here: https:// www.cms.gov/medicare/coding-billing/ guide-medical-technology-companiesother-interested-parties.

Comment: Some commenters suggested that CMS begin discussions regarding operational issues when a technology is accepted into TCET. A commenter recommended that CMS offer a system readiness meeting within 45 days of acceptance that discusses coverage, BCD, coding, and payment considerations to ensure overall alignment. A second system readiness meeting could be scheduled following the EP meeting and the manufacturer's decision to continue in the pathway. The timing for this meeting can be flexible depending on factors such as EDP development progress, FDA decision timing, and potential NCD opening date. The recommended meeting could also be an opportunity to discuss the EDP.

Response: While we appreciate the suggestion to incorporate a specific systems readiness meeting into the TCET process, we have not added it as a formal step at this time. Instead, we believe that a more informal approach will provide more flexibility and be less burdensome for manufacturers since each technology and manufacturer may have unique circumstances that could impact the timing of these discussions. We continue to explore opportunities to better align coverage, coding, and payment considerations for devices in the TCET pathway.

#### B. Appropriate Candidates

CMS proposed to limit the TCET pathway to certain eligible FDA-designated Breakthrough Devices, since we believe that this is the area with the most immediate need. In our proposal, we stated that appropriate candidates for the TCET pathway would include those devices that are—

- Certain FDA-designated Breakthrough Devices:
- Determined to be within a Medicare benefit category;
- Not already the subject of an existing Medicare NCD; and
- Not otherwise excluded from coverage through law or regulation.

CMS also indicated that the majority of coverage determinations for diagnostic laboratory tests granted Breakthrough designation status should continue to be determined by the MACs through existing pathways.

#### 1. Scope of Pathway and FDA-Designated Breakthrough Devices

Comment: Commenters provided varied suggestions regarding which technologies should be eligible for the TCET pathway. Some commenters offering general support stated that the TCET pathway should be limited to a subset of technologies, specifically, as

we proposed, to FDA-designated Breakthrough Devices. A few commenters stated that TCET should be limited to Breakthrough Devices to ensure it is unique from existing processes. Other commenters suggested that non-Breakthrough Devices should be eligible for TCET or similar coverage pathways because non-Breakthrough items and services also improve patient health outcomes. These commenters pointed out that there may be innovative technologies that they believe should be covered by Medicare that choose not to use FDA's Breakthrough Devices Program or may be an innovative technology that may not qualify for the designation. A few commenters provided recommendations for CMS to consider if the TCET pathway were to be expanded, including eligibility for FDA-designated Regenerative Medicine Advanced Therapy products and FDA's Safer Technologies for Medical Devices Program. They also recommended that CMS align the TCET pathway with the Cancer Moonshot.

Response: We appreciate these comments and the suggestions for expanding eligibility for the TCET pathway. Over the last several years, we have heard concerns that there is more uncertainty surrounding coverage of devices than for other items and services, such as drugs and biologics. For this reason, our proposal centered on Breakthrough Devices since we believed this was the area with the most immediate need, particularly considering the unique FDA criteria for Breakthrough designation status. We agree with commenters about the importance of promoting innovation across all items and services covered under Medicare. However, because we have consistently heard from interested parties about the need for more rapid coverage for Breakthrough Devices, we are focusing on Breakthrough Devices in this final notice. As the TCET pathway develops and proves successful, we may consider expanding its application to other items and services, contingent on sufficient available resources.

Comment: Some commenters expressed that Breakthrough Devices have very little evidence at the time of FDA market authorization to support Medicare coverage. A commenter encouraged caution in allocating Medicare resources for coverage of Breakthrough Devices under TCET, considering what the commenter described as the relatively low threshold of evidence required for Breakthrough Device designation. It was also noted that if Breakthrough Device coverage is expanded, coverage for other evidence-

based and effective interventions could be reduced. Several commenters noted potential safety concerns with Breakthrough Devices. Multiple commenters recommended that CMS maintain rigorous evidence development standards. Commenters stressed the need to monitor the use and outcomes of these devices and build a mechanism to trigger an NCD reconsideration if FDA withdraws approval or there are postmarket safety concerns.

Response: We appreciate the comments. Please note that Medicare coverage of Breakthrough-designated devices would only occur if the device gains FDA marketing authorization. Breakthrough Devices are held to the same safety and effectiveness standards to receive FDA market authorization as other medical devices that do not have Breakthrough Device designation; Breakthrough Device designation does not represent a market authorization from FDA. Further, for CMS to provide coverage for Breakthrough Devices, there must be sufficient evidence to conclude that the evidence is promising, and that the device is potentially important for the Medicare population even if the available evidence is insufficient to satisfy the reasonable and necessary standard. Coverage in these circumstances would be contingent on further evidence generation under sections 1862(a)(1)(E) and 1142 of the Act. We believe the TCET evidence generation framework will facilitate the development of reliable evidence for patients and their physicians. It also provides safeguards to ensure that Medicare beneficiaries are protected and continue receiving high-quality care. Coverage under CED can expedite earlier beneficiary access to innovative technology while ensuring that systematic patient safeguardsincluding assurance that the technology is provided to clinically appropriate patients—are in place to reduce the potential risks associated with new technologies, or to new applications of older technologies.

We agree that CMS should reconsider an NCD for Breakthrough Devices if safety concerns arise. We noted in the proposed procedural notice and reiterate in this final notice that CMS retains the right to reconsider an NCD at any point in time. If an NCD is repealed, MACs could deny coverage for particular devices. CMS may also issue a national non-coverage NCD that would bar all coverage for the device.

2. Necessity of Falling Into an Existing Benefit Category

Comment: CMS proposed that a Breakthrough Device must fall into an existing benefit category to be included under TCET. In general, commenters supported this proposal. However, several commenters recommended the inclusion of Breakthrough Devices that do not fall within an existing benefit category, for example, many digital health technologies. Several commenters requested CMS review and update current benefit category definitions to reflect technological advances. These commenters requested that CMS create new benefit categories or make a determination that an item or service (for example, software or other digital technologies) falls within a benefit category. Numerous commenters noted that CMS' current approach to benefit category determinations is limited and requested that CMS be more flexible in its approach, including modifying existing benefit categories to include these devices. A commenter requested that CMS provide clear direction on how TCET can support AI and software technologies for which no clear benefit category exists. A commenter suggested that CMS ensure prescription digital therapeutics (PDTs) are eligible for TCET even though there is no benefit category for them.

Response: CMS does not have authority to establish new Part B benefit categories; benefit categories are statutory and established by Congress. Consequently, some Breakthrough Devices will not fall within a Medicare benefit category and cannot be covered or paid by Medicare.

3. Limitation for Devices Already the Subject of an Existing NCD

Comment: Many commenters requested that CMS eliminate the limitation for devices already the subject of an existing Medicare NCD. These commenters noted that there may be a situation where an NCD was broadly written, and the new product was not specifically mentioned. Commenters requested that CMS expand TCET eligibility criteria to include technologies with an existing NCD that receive Breakthrough designation from FDA for a novel indication that is non-covered under an existing NCD or unrelated to the existing NCD. A commenter provided an example of a device that received Breakthrough designation for what the commenter described as very different indications with different evidence and research needs.

Response: We appreciate these comments. However, we will maintain the limitation. If devices are subject to an existing NCD, a reconsideration of the NCD may be required to establish coverage.

#### 4. Diagnostic Laboratory Tests

Comment: Numerous commenters disagreed with CMS' proposal that coverage determinations for Breakthrough-designated diagnostic laboratory tests should continue to be made by Medicare Administrative Contractors under existing coverage mechanisms. Several commenters claimed that diagnostic laboratory tests are subject to the same coverage rules and regulations as other medical devices and are no more specific than other areas of medicine. These commenters further asserted that it may not be appropriate to defer coverage determinations to the MACs for these tests. A few commenters noted CMS' past precedent of issuing NCDs for diagnostic laboratory tests and cited examples. Some commenters stated that not providing Medicare coverage for some Breakthrough Devices, including diagnostics, under TCET may limit the options that a physician can recommend for a patient. A commenter claimed that the justifications CMS offers for its general exclusion of diagnostic laboratory tests from eligibility for the TCET coverage pathway do not adequately support exclusion from TCET eligibility and may delay Medicare beneficiary access to innovative tests. Some commenters requested that CMS permit diagnostic laboratory tests to be eligible for TCET or provide a similar pathway.

Response: We appreciate these comments and acknowledge that the Medicare coverage statute (section 1862(a)(1)(A) of the Act) applies to clinical diagnostic laboratory tests just like other items and services under Part A and Part B. While the TCET pathway is open to FDA Breakthrough-designated devices, CMS expects the majority of coverage determinations for Breakthrough-designated diagnostic laboratory tests will continue to be made by Medicare Administrative Contractors. We acknowledge there may be instances where manufacturers and CMS agree that an NCD is appropriate for a diagnostic laboratory test. In those instances where manufacturers believe that additional evidence generation may be needed to satisfy the Medicare coverage standard, we encourage manufacturers to contact CMS to discuss options for their specific technology.

Comment: Some commenters who disagreed with CMS' proposal noted that existing pathways, specifically the Molecular Diagnostic Services (MolDx) Program, 17 have limitations and cannot be viewed as an alternative mechanism to TCET to accelerate Medicare coverage. These commenters stated that MolDx is not a national program and that CMS' proposal to leave the majority of coverage decisions for diagnostic laboratory tests to the MACs through existing pathways would limit access to care in regions that do not participate in the program. In addition, some of these commenters noted that the MolDx program reviews only nucleic-acid (DNA or RNA)-based tests performed by clinical laboratories in 28 states within Palmetto's jurisdiction, so it is not relevant to non-molecular tests nor clinical laboratories in states located outside of the MolDx jurisdiction. Furthermore, a commenter noted that MolDx reviews only tests with existing local coverage determinations and is not authorized to impose CED requirements. A commenter noted that the current coverage pathway for diagnostic laboratory tests is fragmented and burdensome and results in unequal Medicare beneficiary access, particularly when the tests are provided by the manufacturers to laboratories nationwide.

Response: MolDx was not specifically mentioned in the proposed notice when we stated that we have historically delegated review of many diagnostic laboratory tests to specialized MACs and proposed that coverage should continue to be determined by the MACs through existing pathways.

Under MolDx, a program developed by the Palmetto MAC, the MAC determines coverage for molecular diagnostic tests and other molecular pathology services. Several other MACs have implemented the MolDx program as part of their operations. In the MolDx program, the MACs review all evidence that a manufacturer produces to determine whether an item or service meets the reasonable and necessary standard.

We note that Congress in section 1834A(g)(2) of the Act specifically granted the Secretary the authority to designate one or more MACs to establish coverage policies for clinical diagnostic laboratory tests and did not specify any exceptions for certain tests.

We acknowledge there may be instances where manufacturers and CMS agree that an NCD is appropriate for a diagnostic laboratory test. In those instances where manufacturers believe

that additional evidence generation may be needed to satisfy the Medicare coverage standard, we encourage manufacturers to contact CMS to discuss options for their specific technology.

Comment: Several commenters requested that CMS clarify whether the TCET pathway excludes diagnostic laboratory tests and diagnostic tests generally. They also noted that CMS did not expressly reference in vitro diagnostic (IVD) products and seemingly omitted them from TCET.

Response: We appreciate these comments. The TCET pathway is limited to Breakthrough Devices meeting the eligibility criteria outlined in this notice. While we continue to believe that the majority of coverage determinations for diagnostic laboratory tests granted Breakthrough Designation should continue to be determined by the Medicare Administrative Contractors through existing pathways, we acknowledge there may be instances where manufacturers and CMS agree that an NCD is appropriate for a diagnostic laboratory test. In those instances where manufacturers believe that additional evidence generation may be needed to satisfy the Medicare coverage standard, we encourage manufacturers to contact CMS to discuss options for their specific technology.

In response to public comments seeking clarification regarding the scope of the references to diagnostic laboratory tests in the proposed notice, we have added language to clarify that we intend to refer to IVDs, including diagnostic laboratory tests, in the discussion of appropriate candidates. Other non-IVD diagnostic devices, such as diagnostic imaging devices, may be considered for TCET.

Comment: A few commenters noted that the scope of CMS' proposed exclusion of diagnostic laboratory tests in the TCET pathway is unclear. These commenters stated that CMS did not articulate criteria for determining which diagnostic laboratory tests would be eligible for TCET. They requested that CMS clearly define TCET eligibility criteria for certain diagnostic laboratory tests. A commenter stated that the existing process likely remains appropriate for most laboratory tests but requested that CMS confirm that it will consider nominations of diagnostic laboratory tests and other diagnostic technologies when the TCET pathway would ensure timely beneficiary access and support further evidence generation. This commenter also encouraged CMS to consider how collaboration with the specialized

<sup>17</sup> https://www.palmettogba.com/moldx.

MACs could provide the expertise and resources needed to develop a CED NCD under the TCET pathway for a particular

diagnostic technology.

Response: We appreciate these comments. We continue to believe that that the majority of coverage determinations for IVD products, including diagnostic laboratory tests, granted Breakthrough Designation should continue to be determined by the Medicare Administrative Contractors through existing pathways. We acknowledge there may be instances where manufacturers and CMS agree that an NCD is appropriate for an IVD product. In addition to TCET, if a manufacturer of a Breakthroughdesignated IVD product wishes to seek national coverage, they may submit an NCD request as outlined in 78 FR 48164. Other, non-IVD diagnostic devices may be considered for TCET, contingent on there being an applicable benefit category.

#### C. Nominations

CMS proposed that the appropriate timeframe for manufacturers to submit TCET pathway nominations is approximately 12 months prior to the anticipated FDA decision on a submission as determined by the manufacturer. In the proposal, CMS stated that manufacturers of certain FDA-designated Breakthrough Devices may self-nominate to participate in the TCET pathway. The proposed notice outlined the information that manufacturers should include in the self-nomination packet. CMS' proposal explained how CMS intended to consider nominations, including a meeting with the manufacturer to discuss the technology and a CMS-FDA meeting to learn more information about the technology. The proposal also noted that a technology may undergo a benefit category review as part of the nomination review process.

Comment: Commenters generally agreed with our proposal that nominations be submitted approximately 12 months before anticipated FDA marketing authorization. Some noted that early engagement between CMS and manufacturers before FDA authorization can inform and enable a more efficient and effective evidence-generation strategy.

Response: We appreciate these supportive comments and agree that early engagement between CMS and manufacturers is important.

Comment: Commenters encouraged CMS to be flexible with the timeframe for submitting nominations and expressed various timeframes for CMS

to consider. A commenter suggested a 6month timeframe is more realistic for nominations to ensure manufacturers can provide CMS with robust data. Other commenters encouraged CMS to provide an earlier self-nomination timeframe. These commenters suggested that CMS build in additional time "to align trial design requirements" and establish BCD, coding, and payment amounts. Another commenter recommended that nominations be accepted "following FDA approval into the Breakthrough Device status program" to provide more time to obtain feedback to inform EDP development. Several commenters suggested that CMS align nomination timing to an FDA milestone.

Response: We appreciate these suggestions. We agree with commenters that providing some flexibility in terms of nomination timeframes is important. However, CMS believes that 12 months prior to anticipated FDA market authorization is the appropriate timeframe that allows for TCET procedural steps to be completed and for better coordination of coding and payment. In this final notice we have modified the TCET pathway procedures to include an opportunity for a manufacturer to submit a non-binding letter of intent to nominate a potentially eligible device approximately 18 to 24 months before the manufacturer anticipates FDA marketing authorization. While formal nominations will still be considered approximately 12 months prior to anticipated market authorization, the submission of a non-binding letter of intent will improve CMS' ability to track potential candidates, coordinate with FDA, and make operational adjustments.

Comment: A commenter recommended that CMS build a meeting at "the pivotal trial milestone" into the process, which the commenter stated often occurs earlier than 12 months before FDA market authorization.

Response: While we are not incorporating a meeting into the process at a milestone tied to initiation or completion of certain clinical trials, meetings may occur between CMS and manufacturers in instances where manufacturers have chosen to submit a non-binding letter of intent approximately 18 to 24 months prior to FDA market authorization.

Comment: A commenter asserted that CMS' proposed nomination timelines might be a significant burden on clinical teams building an evidence strategy that satisfies both FDA and CMS and requested that CMS consider ways to improve the nomination submission

timelines to minimize burden for manufacturers.

Response: We disagree. We believe our proposal for nominations to be submitted approximately 12 months before anticipated FDA marketing authorization is minimally burdensome and provides adequate flexibility for manufacturers to: (1) provide supportive evidence for their technology; (2) develop an EDP to address material evidence gaps for CMS coverage; and (3) coordinate BCD, coding, and payment processes. There is opportunity under TCET to leverage FDA-required postmarket studies, if any, to address specific evidence gaps for Medicare beneficiaries.

Comment: Some commenters provided feedback regarding specific timeframes in the TCET nomination process. A few commenters supported CMS' proposal to respond to nominations within 30 days. Another commenter requested that CMS extend the nomination review period to 60 days rather than 30 to ensure rigorous evaluation and selection of the most promising technologies for the TCET pathway.

Response: We appreciate these comments. We agree it is important to provide timely feedback to manufacturers on whether their technology is a suitable candidate for TCET. CMS is clarifying that suitable candidates will be approved for the TCET pathway on a quarterly basis. Consideration of TCET nominations on a quarterly basis will allow CMS to prioritize the most promising devices, will facilitate TCET implementation, and will establish a fair opportunity for eligible devices to be considered, regardless of the timing of FDA market authorization.

Comment: Many commenters recommended that CMS provide a lookback period, meaning that Breakthrough Devices that are nearing an FDA decision on market authorization (that is, less than 12 months) or those recently achieving authorization would be eligible for the TCET pathway. Several commenters recommended that a 3-year lookback period would be appropriate.

Response: We disagree and did not include a lookback period in the proposed notice. While we appreciate the substantial interest in the TCET pathway, it is designed to expedite national coverage through extensive premarket engagement. Developing an evidence development plan (EDP) generally takes considerable time, and absent an adequate lead time during the pre-market period, devices already available in the market are more

appropriate for an NCD outside of the TCET pathway or for MAC determinations under section 1862(a)(1)(A) of the Act.

Comment: A commenter requested that CMS provide specific nomination guidance.

Response: We appreciate this comment. CMS will consider releasing more specific nomination information in the future.

Comment: Some commenters requested that CMS provide additional guidance on how it will treat nominations equitably when it receives many more than anticipated and/or an irregular pattern of nominations. For example, a commenter questioned how CMS would proceed when five candidates have already been accepted for the year and additional nominations come in. A commenter suggested that CMS define a set number of application cycles per year to limit first-come-first-

served application bias.

Response: We appreciate these comments and acknowledge the importance of providing more transparency to the public on how CMS will prioritize TCET nominations. In this final notice, we are clarifying that suitable candidates will be approved for the TCET pathway on a quarterly basis. If a nomination is not accepted into the pathway in one quarterly review cycle, it may be considered again in the following quarterly review cycle. Manufacturers will not need to resubmit a nomination for it to be considered in a subsequent quarter. Since TCET is forward-looking and extensive premarket engagement is essential, nominations for Breakthrough devices anticipated to receive an FDA decision on market authorization within 6 months may not be accepted since CMS will be unable to reach a final NCD within the expedited timeframes.

To provide greater transparency, consistency, and predictability we intend to release proposed prioritization factors for TCET nominations in the near future. We look forward to communicating additional details on our planned approach in the near future and will provide an opportunity for

public comment.

Comment: A commenter requested that in instances where CMS declines a nomination, it should provide a rationale and feedback mechanism for the manufacturer. Another commenter stated that applicants should be permitted to reapply.

Response: CMS will provide a justification and contact information for additional information if we decline a nomination. CMS is clarifying in this final notice that eligible nominations

will be considered for the TCET pathway on a quarterly basis. If not accepted into the TCET pathway in one quarter, nominations may be considered again in the subsequent quarter. Manufacturers will not need to resubmit a nomination to be considered in a subsequent quarter. However, since TCET is forward-looking and extensive pre-market engagement is essential, nominations for Breakthrough Devices anticipated to receive an FDA decision on market authorization within 6 months may not be accepted since CMS will be unable to reach a final NCD within the expedited timeframes.

Comment: A commenter noted that it would be helpful if CMS could create a TCET submission web page like the IDE Category A and B submission web page and include instructions, application questions, and a TCET checklist.

Response: We appreciate this comment. We intend to create several web pages to support the TCET procedural pathway and provide important process-related information to interested parties.

Comment: Several commenters requested that CMS streamline the TCET nomination process by eliminating or combining some steps.

Response: We appreciate these comments. However, we believe all steps of the TCET nomination process are important to successfully implementing the pathway. However, as we gain experience with TCET, we will consider revising the process as appropriate.

*Comment:* A commenter recommended that CMS permit manufacturers to provide information on how their devices promote health

Response: We welcome and strongly encourage any information manufacturers wish to provide regarding how their devices promote health equity.

### D. Coordination With FDA

Comment: Many commenters expressed their support for enhanced FDA-CMS collaboration to support the TCET pathway, and more specifically, to foster alignment between FDA and CMS evidence development needs to ensure CMS evidence development requirements are not duplicative or contradictory with FDA requirements. Further, commenters stated that FDA and CMS should provide early clarity about postmarket evidence generation requirements to minimize provider and product developer burden.

Response: We appreciate these comments. CMS and FDA have taken a number of concrete steps to enhance

alignment that will support the TCET pathway. For example, CMS and FDA intend to collaborate in identifying therapeutic areas where CMS clinical endpoint guidance would be most impactful. Additionally, by CMS articulating material evidence gaps for CMS coverage prior to FDA market authorization of devices, manufacturers will be better positioned to efficiently satisfy FDA and CMS requirements.

Comment: Some commenters would like additional information on how and when CMS will collaborate with FDA specific to the TCET pathway. Some commenters sought clarity as to whether manufacturers would be permitted to participate in meetings between FDA and CMS. It was suggested that CMS should provide a transcript to manufacturers if they are not allowed to participate in the meetings with FDA. A few commenters recommended that manufacturers be able to participate in the first meeting with FDA and for subsequent meetings only when there are specific questions that need to be addressed that the manufacturer is better positioned to answer so as not to hold up timelines.

Response: We appreciate these comments. As we outlined in the proposed notice and consistent with the FDA-CMS MOU, CMS may meet with FDA when considering a TCET nomination submitted for CMS review so CMS can learn more about the technology, including potential timing considerations. Some of these meetings may be deliberative and not appropriate for manufacturers or any other nongovernmental parties to participate. However, similar to meetings conducted for parallel review, there may be occasions where it will be helpful to have CMS, FDA, and manufacturers participate in a meeting, and CMS will consider these requests on a case-bycase basis.

### E. BCD Reviews

Comment: Commenters requested additional clarification regarding the process and timeline for benefit category determination reviews. These commenters note that the lack of an integrated, transparent, expedited BCD process will limit TCET's impact. A commenter sought additional information on how CMS will determine the devices that will undergo a BCD review and whether there will be an appeal mechanism.

Response: We note that new products may fall within one or more benefit categories or no benefit category at all. As stated in the proposed notice, if CMS believes that the device, prior to a decision on market authorization by

FDA, is likely to be payable through one or more benefit categories, the device may be accepted into the TCET pathway. This is an interim step that is subject to change upon FDA's decision regarding market authorization of the device. Acceptance into TCET should not be viewed as a final determination that a device fits within a benefit category.

When CMS issues the proposed NCD following approval or clearance of the Breakthrough Device by FDA, the proposed NCD will include one or more benefit categories to which CMS has determined the Breakthrough Device falls. CMS will review and consider public comment on the proposed NCD before reaching a final determination on the BCD(s).

Comment: A commenter recommended that CMS provide a benefit category review for any FDA-designated Breakthrough Device earlier in the process, possibly when FDA is meeting with manufacturers of these devices regarding the design of their clinical trials to support FDA marketing authorization.

Response: The BCD may rely on information generated during the process to obtain FDA market authorization, making an earlier BCD infeasible. Additionally, not all devices achieve marketing authorization, so conducting a BCD review earlier would be inefficient and potentially waste CMS resources.

Comment: A few commenters expressed that BCDs can be made quickly and should not delay access. A commenter indicated that CMS should commit to making BCD decisions no later than 30 days after the nomination submission.

Response: CMS aims to make all BCD decisions expeditiously. CMS is unable to commit to making all BCD decisions within 30 days of nomination submission because the BCD may rely on information generated during the process to obtain FDA market authorization making an earlier BCD infeasible.

Comment: A commenter stated that when there is an issue in determining the BCD, a meeting between CMS' Center for Medicare and the manufacturer should be scheduled immediately.

Response: We appreciate these comments and agree that it is important for CMS to provide timely communication to the manufacturer when there are issues in determining the BCD.

#### F. Evidence Preview

CMS' proposal introduced the Evidence Preview (EP) concept, which is a focused literature review that would provide early feedback on the strengths and weaknesses of the available evidence, including any evidence gaps, for a specific item or service. It is intended to inform judgments by CMS and manufacturers about the best available coverage options for an item or service and offers greater efficiency, predictability and transparency to manufacturers and CMS on the state of the evidence and any notable evidence gaps. In the proposed notice, CMS expressed the intent for EPs to be supported by a contractor using standardized evidence grading, risk of bias assessment, and applicability assessment. CMS proposed that the EP would be made publicly available on the CMS website when a tracking sheet is posted announcing the opening of the NCD. Additionally, CMS proposed to share the EP with the Medicare Administrative Contractors following a manufacturer's decision to withdraw from the TCET pathway.

Comment: Some commenters requested that CMS provide more transparency regarding the evidence review contractor. Specifically, these commenters requested that CMS provide more information on the processes used to select and monitor the evidence review contractor and information regarding qualifications, safeguards, conflicts of interest, and how the contractor will be evaluated. Some of these commenters requested that CMS publish a list of contractors used for conducting evidence reviews on its website.

Response: The Secretary has broad authority to contract out functions under Title XVIII. CMS, in collaboration with AHRQ, established rigorous review criteria that have undergone detailed testing during the past year and are reflected in the 2024 CMS National Coverage Analysis (NCA) Evidence Review guidance. 18 The contractor's role is to conduct a rapid systematic literature review and summarize the evidence based on a modified Grading of Recommendations, Assessment, Development, and Evaluations (GRADE) methodology. CMS and the contractor have also begun recruiting and incorporating clinical subject matter experts into the review process. All external subject matter experts are carefully assessed for their expertise,

screened for conflicts of interest, and bound by non-disclosure agreements. The contractor supports and accelerates CMS reviews, but CMS performs extensive quality assurance on contracted reviews, contributes substantial portions of the EP independently, and ultimately determines policy. If an NCD is opened, an evidence summary will be included with the tracking sheet for full public comment, including which contractor completed the review.

Comment: Several commenters sought clarity on how the contractor will perform evidence reviews under TCET, specifically the criteria that the contractor will use to do the evidence preview. Some commenters requested that CMS specify whether these standards are the same or different from current processes. Commenters also asked that CMS define the evidence grading system used and what kind of evidence review conclusions are possible.

Response: We appreciate these comments. When nominating devices for the TCET pathway, manufacturers should submit a comprehensive bibliography of published studies for their device. For some devices, studies will not yet be published in the peerreviewed literature, and CMS will instead review unpublished reports of clinical studies intended to support the FDA marketing application provided by the manufacturer. The contractor will supplement these materials with a focused search of published peerreviewed literature. The contractor will use standardized tables to summarize the characteristics of each study included in their focused literature review. These tables provide information about each study's design, quality, interventions assessed, target population, and outcomes assessed.

The methodological quality, or risk of bias, for randomized and nonrandomized individual study designs will be assessed using a components approach, considering each study for specific aspects of design or conduct (such as allocation concealment for randomized controlled trials (RCTs) or use of methods to address potential confounding), as detailed in AHRQ's Methods Guide. 19 Studies of different designs are graded within the context of their respective designs. Thus, RCTs are graded as good, fair, or poor, and observational studies are separately graded as good, fair, or poor.

The contractor will also assess the applicability of the included studies to

 $<sup>^{18}\,\</sup>mathrm{CMS'}$  guidance documents can be accessed here: https://www.cms.gov/medicare-coverage-database/reports/national-coverage-medicare-coverage-documents-report.aspx?docTypeId=1#.

<sup>&</sup>lt;sup>19</sup> https://effectivehealthcare.ahrq.gov/products/collections/cer-methods-guide.

the Medicare population. Specifically, we plan to use the PICOTS (population, intervention, comparator, outcomes, timing, and setting) format to organize information relevant to applicability. The most important issue concerning applicability is whether the outcomes are different across studies that recruited diverse populations (for example, age groups, exclusions for comorbidities) or used different methods to implement the interventions of interest; that is, important characteristics are those that affect baseline (control group) rates of events, intervention group rates of events, or

Lastly, the contractor will identify and list any relevant evidence-based guidelines, specialty society recommendations, consensus statements, or appropriate use criteria that apply to the item or service addressed by the Evidence Preview (EP). The reviewed evidence is then qualitatively synthesized by the contractor. There are strict nondisclosure agreements in place with the contractor to ensure the protection of proprietary information.

Comment: Some commenters expressed concerns that CMS was ceding decision-making to the evidence review contractor. These commenters noted that the evidence review contractor should be prohibited from making qualitative assessments of the literature and providing any statements regarding medical necessity. Further, these commenters stated that CMS should maintain ultimate decisionmaking responsibility and CMS staff should be fully engaged to ensure that feedback among all participants is transparent and timely.

Response: All decision-making resides with CMS. CMS does not delegate the Secretary's authority to establish NCDs to a contractor. The role of the evidence review contractor is to support the CMS review team by summarizing the available evidence in a standardized format. CMS staff specify the review requirements, supervise the contractor, and conduct extensive quality assurance of all reviews. Additionally, one of the benefits of utilizing an evidence review contractor is that it will enhance CMS' ability to recruit specialized clinical expertise. Lastly, CMS contributes substantial portions independently and maintains ultimate decision-making responsibility. Any formal determination regarding whether an item or service meets the reasonable and necessary statutory standard will be made by CMS and completed using the NCD process,

which includes at least one public comment period.

Comment: Some commenters stated that manufacturers should be able to communicate directly with the evidence review contractor during the development of the EP. Several commenters suggested that CMS establish contact points to facilitate dialogue between the manufacturer and the contractor responsible for conducting the EP. Some commenters recommended that manufacturers should have an opportunity to provide feedback on the literature search strategy, correct errors, and/or discuss interpretations of data in the EP. Commenters encouraged CMS to hold meetings before the EP to ensure appropriate search terms were incorporated and to discuss results after the EP. A commenter stated that CMS should allow manufacturers 30 days to return comments on the EP.

Response: We disagree that manufacturers should be able to contact the contractors that the government has engaged to summarize the scientific evidence on its behalf. CMS notes that manufacturers must submit a full bibliography of published studies with their TCET nomination. Much of the EP is written directly by CMS staff, and manufacturers have an opportunity to provide feedback on a draft of the EP before it is finalized.

CMS will establish CMS-staff-level contact points to facilitate timely communication with manufacturers, but CMS disagrees with having manufacturers communicate directly with the evidence review contractor. The contractor is performing work on CMS' behalf, and CMS needs to be involved in all discussions. Manufacturers are encouraged to review and provide feedback to CMS on the EP as soon as possible, ideally within 30 days. CMS believes it is important to provide flexibility especially as manufacturers gain experience with the TCET pathway and is not incorporating a specific timeframe in the final notice for manufacturers to submit feedback on an EP.

Comment: A commenter noted that truly novel devices might have completed only one study when applying for TCET, and "in some cases, the only published or presented data will be from the first in man or preliminary FDA safety studies." The commenter expressed the position that devices with minimal data should not be excluded from TCET, and for devices with little published data, CMS should focus on "FDA pivotal trial results" in the EP even if those results are not published.

Response: The EP is a focused literature review summarizing the strengths and weaknesses of the available clinical evidence supporting a review request. The EP is not a national coverage analysis (NCA) and is not a commitment to coverage. The EP is intended to inform decisions about the best available coverage options for the nominated device. Further, a broader range of studies may be included in a full national coverage analysis (NCA) if one is opened. The EP reflects the best available information at the time it is conducted, but multiple elements of the EP may evolve during the review process.

When developing a literature search, we will carefully review the bibliography that manufacturers provide in their nomination. CMS recognizes that the most crucial study data from pivotal trial(s) may not yet be published in the pre-market stage. If unpublished studies are included in the review, the evidence review in the NCA, if one is opened, will reflect the final labeling of the FDA market authorized device and supplemental analyses and/or published, peer-reviewed report of the clinical study.

Comment: Several commenters requested that CMS clarify that the EP is a summary of the published peerreviewed literature in the relevant clinical space and an examination of the outcomes of interest to CMS, associated endpoints, and clinically meaningful differences for the target disease or condition. These commenters further noted that the EP should not extend to include a gap analysis for the specific nominated technology. Additionally, some commenters requested that the EP explicitly state that it is not a coverage determination and should not be interpreted as a reasonable and necessary determination. A commenter noted that the EP, as currently constructed, will provide limited insight into device performance. Some commenters requested that the EP meeting between the manufacturer and CMS avoid bias toward additional data collection, especially when a device has robust clinical evidence.

Response: The EP is a focused literature review that summarizes the strengths and weaknesses of the available clinical evidence, including any evidence gaps for CMS coverage for a specific item or service. It offers greater efficiency, predictability, and transparency to manufacturers and CMS on the state of the evidence and any notable evidence gaps. It is intended to inform judgments by CMS and manufacturers about the best available coverage options for an item or service.

We disagree with commenters that an evidence preview should not be specific to a particular technology. We believe it is important to understand any material evidence gaps for CMS coverage for a particular technology as early as possible so that manufacturers can develop a plan to address them so that the device might be eligible for future Medicare coverage under section 1862(a)(1)(A) of the Act.

Comment: A commenter suggested that CMS clarify circumstances where they can convene a Medicare Evidence Development and Coverage Advisory Committee (MEDCAC) or otherwise solicit broad public input to align on evidence gaps in the evidence preview stage and explain how this might affect evidence review timelines.

Response: We appreciate this comment. If a MEDCAC is needed to clarify the appropriate clinical endpoints for a particular device, the TCET review timeframes could be substantially delayed. The need for MEDCACs during a TCET review may be mitigated by identifying potential TCET candidates earlier in the review cycle than the timeframe we proposed in the June 2023 notice. When CMS is aware that manufacturers intend to pursue the TCET pathway for devices and appropriate clinical endpoints are uncertain, we may preemptively conduct a clinical endpoints review and may convene a MEDCAC. A CMS decision to initiate a clinical endpoint review or a MEDCAC does not imply that a benefit category exists for a particular device or make a commitment to make a local or national coverage determination. We clarify in the final notice how a MEDCAC may affect evidence review timelines and how submitting a non-binding letter of intent can help alleviate potential delays if a clinical endpoints review and/or MEDCAC is needed.

Comment: A commenter suggested that CMS reconsider the evidence preview process, which they believe should also include other considerations, such as shifts in the market, health equity, population considerations, accessibility, usability, and other metrics.

Response: While we acknowledge those factors may be important, the purpose of the evidence preview is to provide early feedback on the strengths and weaknesses of the available clinical evidence, including any evidence gaps, for a specific item or service. It is intended to inform judgments by CMS and manufacturers about the best available coverage options for an item or service. It offers greater efficiency, predictability, and transparency to

manufacturers and CMS by clarifying the state of the evidence and any notable evidence gaps.

Comment: Many commenters disagreed with CMS' proposal to share the Evidence Preview with the Medicare Administrative Contractors following a manufacturer's decision to withdraw from the TCET pathway. These commenters expressed concerns with how the MACs would use this information, specifically that it would lead to de facto noncoverage without going through the full national coverage process. While commenters were generally opposed to CMS sharing this information, they provided some recommendations. They suggested alternatives if CMS chose to proceed, including obtaining manufacturer consent before sharing with MACs, updating the Program Integrity Manual to describe the appropriate use of EPs as MACs make coverage decisions, as well as scaling back the evidence preview so it is not specific to a particular technology.

Response: As we noted in the proposed notice, the EP represents a substantial investment of public resources, and CMS wants to ensure we use taxpayer dollars wisely. The EP includes a summary of the available evidence for an FDA Breakthroughdesignated device; manufacturers can correct any errors and provide feedback before finalization. While CMS believes the EP will be a fair reflection of the strength of the available evidence to support Medicare coverage, CMS acknowledges that manufacturers may withdraw from the TCET pathway for reasons unrelated to the evidence. Based on the previous considerations and in response to public comments, CMS will publish an evidence summary without the evidence gap analysis if a manufacturer withdraws from the TCET pathway. Similarly, only a summary of the evidence would be posted with a tracking sheet if a national coverage analysis is opened. We believe this approach offers transparency, makes judicious use of public resources, and does not signal a specific conclusion about whether an item or service satisfies the reasonable and necessary standard.

Comment: A few commenters supported CMS sharing the evidence preview with the MACs. A commenter recommended that not only should the MACs receive the EPs but that they should be shared with Medicare Advantage Organizations as well. Another commenter suggested that these EPs be shared publicly.

Response: We appreciate these comments. After considering all public

comments received on this issue, CMS has decided to publish an evidence summary without the evidence gap analysis rather than sharing the full EP with the MACs as we proposed.

# G. Manufacturer Decision To Continue or Discontinue

CMS' proposal stated that upon finalization of the EP, the manufacturer may decide to pursue national coverage under the TCET pathway or to withdraw from the pathway. CMS proposed that if the manufacturer decided to continue, the next step would include a manufacturer's submission of a formal NCD letter expressing the manufacturer's desire for CMS to open a TCET NCD analysis. We stated in the proposal that most, if not all, of the information needed to begin the TCET NCD would already be included in the TCET pathway nomination and the EP, but we invited the manufacturer to submit any additional materials the manufacturer believed would support the TCET NCD request.

Comment: A commenter stated that it is unclear whether the manufacturer or CMS would initiate an NCD.

Response: If a manufacturer decides to continue pursuing coverage under the TCET pathway upon finalization of the EP, the next step is for the manufacturer to provide a formal NCD letter to CMS expressing the manufacturer's desire for CMS to open an NCA. The manufacturer would initiate the NCD request.

Comment: A commenter requested confirmation that CMS will not issue a non-coverage NCD if a manufacturer withdraws from TCET.

Response: There could be rare instances where a non-coverage NCD would be in the best interest of Medicare beneficiaries, such as when the evidence points to potential serious beneficiary harm. CMS can conduct a national coverage analysis at any time to swiftly act in those circumstances.

#### H. Evidence Development Plans

CMS' proposal introduced the Evidence Development Plan (EDP) concept. CMS proposed that EDPs would be developed by the manufacturer to address any evidence gaps identified in the EP. In the proposal, CMS indicated that EDPs may include fit-for-purpose (FFP) study designs, including traditional clinical study designs and those that rely on secondary use of real-world data, provided that those study designs follow all applicable CMS guidance documents. CMS proposed that the development of an EDP would include CMS-AHRQ collaboration to evaluate the EDP to ensure that it meets

established standards of scientific integrity and relevance to the Medicare population. Additionally, CMS proposed that the EDP process will include CMS engagement with the manufacturer to provide feedback and discuss any recommended refinements. The proposal stated that elements of the EDP, specifically the non-proprietary information, would be made publicly available on the CMS website when a proposed NCD is posted.

Comment: Many commenters supported TCET's evidence development framework, specifically CMS' inclusion of a more flexible approach that allows for FFP studies. However, some commenters noted that CMS should maintain rigorous evidence development standards. Commenters pointed out that any evidence development framework should be patient-centered, and high-quality evidence should be required to protect beneficiaries.

Response: We appreciate these comments and agree that including a more flexible approach that allows for FFP studies is important. We believe that the evidence development framework for TCET outlined in this notice accomplishes that goal while also being patient-centered and facilitating the generation of high-quality evidence to support Medicare coverage. CMS expects to propose FFP study guidance in the future, with a particular emphasis on study designs that make secondary use of real-world data.

Comment: Commenters generally supported CMS' proposal regarding evidence development plans. Some commenters encouraged CMS to work with manufacturers to develop a reasonable, mutually agreed upon data collection and review period in the EDP. A commenter suggested that CMS consider structuring evidence development around achievement of milestones rather than time. A commenter recommended that the EDP be updated annually. The commenter recommended that CMS assign dedicated staff to work collaboratively with the manufacturer when developing the EDP. Some commenters cited that considerable time may be required to develop and negotiate an EDP. Another commenter expressed that an NCD should not be opened until an EDP is approved.

Response: We appreciate the supportive comments. For devices where the evidence is promising but does not yet satisfy the reasonable and necessary standard for Medicare coverage, the EDP intends to articulate how material evidence gaps will be addressed during transitional coverage

so that the evidence may show that the device satisfies the reasonable and necessary standard when a CED NCD is reconsidered. Manufacturers often plan multiple studies for devices that are newly in the market. For example, they may plan conventional clinical studies in non-US markets, or conventional studies that test modifications to an existing device. If generalizability to the Medicare population is an important limitation of the existing evidence base, manufacturers may submit an FFP study protocol that relies on secondary use of real-world data as a component of their EDP. The EDP will describe the overall portfolio of planned studies and identify the appropriate timing of a future CED NCD reconsideration. We agree that providing enhanced engagement and flexibility is important during EDP development, and we are exploring ways that CMS can support manufacturers in efficiently developing FFP protocols, but manufacturers are responsible for developing their own EDPs. CMS agrees that a CMS and AHRQ-approved EDP should be in place prior to opening an NCD. We note that prolonged delays by manufacturers in drafting EDPs may substantially delay the finalization of a CED NCD under the TCET pathway.

We are finalizing our proposal to have EDPs include a schedule of updates and interim analyses along with a projected NCD reconsideration window. CMS continues to believe that a core purpose of the EDP is to anticipate the appropriate timing of reconsideration, but we recognize that timelines may in some cases need to be revised. Particularly for EDPs that propose longer CED timeframes, CMS agrees that they should include plans for interim reporting to ensure adequate progress and timely completion. Interim reports should also disclose any meaningful changes to prespecified study protocols, which are essential to transparency. These updates are in the interest of CMS, manufacturers, and the public because they provide early feedback on the viability of planned studies that use real-world data and offer early feedback on real-world outcomes. Any changes to the anticipated NCD reconsideration window will be reflected on the CED website.

Comment: Commenters encouraged CMS to be transparent and recommended that as much of the EDP as possible be made publicly available. Some commenters asked that CMS clarify what parts of the EDP will be publicly posted. It was recommended that the technical information regarding a device remain confidential. It was also suggested that the status of CED studies

under TCET be updated in a publicly available manner.

Response: We appreciate these comments and agree that providing as much transparency as possible for EDPs and the studies conducted as part of them is important. To that end, a summary of the EDP, a linkage to CMSapproved CED studies on clinicaltrials.gov, and the anticipated CED NCD reconsideration window will be posted on the CMS website. We also recognize that manufacturers want to preserve confidentiality around their evidence-generation plans and product development strategies. CMS is actively developing guidance on the level of detail necessary to establish that a proposed study is FFP; while manufacturers may be able to demonstrate that these elements establish the scientific validity of a proposed study, it may not be necessary to make all details public.

Comment: A commenter suggested that CMS clearly and rigorously define what benchmarks will be considered "clinically meaningful" to its beneficiary population. A commenter requested that CMS clarify the meaning and significance of a post-market FFP study's potential to "demonstrate[e] external validity" concerning an EDP submission and whether such potential is a criterion for the protocol.

Response: We generally look to the published literature when assessing which clinical endpoints are important. In some instances, there is limited published literature to address minimal clinically important differences (MCIDs). Where appropriate clinical endpoints and MCIDs are uncertain, CMS may refer a topic to the MEDCAC to help CMS define evidence expectations through an open and transparent process. We are also developing a series of Clinical Endpoint Guidance documents to improve the predictability and transparency of our reviews.<sup>20</sup> The Knee Osteoarthritis Clinical Endpoint Guidance document is the first in this series.

A concern about generalizability depends on whether a new technology's effectiveness would reasonably be expected to vary between the populations studied in clinical trials and Medicare recipients, who are often older and have more comorbidities. If an Evidence Preview identifies generalizability as a material evidence deficiency, postmarket FFP studies may be used to confirm that expected

<sup>&</sup>lt;sup>20</sup> The clinical endpoints guidance can be accessed here upon release: https://www.cms.gov/medicare-coverage-database/reports/national-coverage-medicare-coverage-documents-report.aspx?docTypeId=1#.

benefits and harms extend to the applicable Medicare population and the context in which they receive care.

Comment: A commenter questioned how CMS will determine that an EDP is "sufficient" and how that sufficiency standard is related to the reasonable and necessary standard.

Response: The development of an EDP will include CMS-AHRQ collaboration to evaluate the EDP to ensure that it meets established standards of scientific integrity and relevance to the Medicare population. As with all technologies seeking Medicare coverage, CMS evaluates the available evidence when assessing whether an item/service satisfies the reasonable and necessary standard for coverage through the open and transparent NCD process.

Supportive clinical evidence that a device is reasonable and necessary in the Medicare population, including evidence regarding the device's safety and effectiveness for the Medicare population, is crucial to approve coverage for a device under section 1862(a)(1)(A) of the Act. Such evidence is used to determine whether a new technology meets the appropriateness criteria of the longstanding Medicare Program Integrity Manual Chapter 13 definition of reasonable and necessary.21 We believe it is important for manufacturers participating in TCET to produce evidence demonstrating the health benefits of the device and the related services for patients with demographics similar to that of the relevant Medicare population.

Comment: A commenter sought clarification on CMS' and AHRQ's specific roles in reviewing the EDP and which Agency has ultimate approval.

Response: As we noted in the proposed notice and this subsequent notice, "Since we anticipate that many of the NCDs conducted under the TCET pathway will result in CED decisions, AHRO will continue to review all CED NCDs consistent with current practice. Additionally, AHRQ will collaborate with CMS as appropriate, to evaluate the EP and EDP and will have opportunities to offer feedback throughout the process that will be shared with manufacturers. AHRQ will partner with CMS as the EP and EDP are being developed, and approvals for these documents will be a joint CMS-AHRQ decision."

Comment: Several commenters expressed that manufacturers should be

required to ensure diversity in clinical trials across a wide range of patient characteristics. A commenter stated that guidance from CMS is necessary to assist manufacturers in clinical trial designs that address access issues (specifically guidance on trial design for diversity and equitable access). They noted that research has demonstrated a lack of equitable representation in clinical trials.

Response: When reviewing evidence to assess whether items/services are reasonable and necessary, CMS must have a basis to conclude that the available evidence is generalizable to the intended Medicare population(s). The NIH, FDA, and CMS have long stressed the broad inclusion of diverse patient groups in clinical studies. Despite these efforts, pre-market studies frequently lack adequate inclusion of important patient subgroups, which limits their generalizability to the intended Medicare population(s). CMS agrees that post-market FFP studies may be necessary to address this common limitation of pre-market RCTs. The final CED guidance clarifies that CED studies should include specific patient groups that are essential to ensure the study is representative of the Medicare population when there is good clinical or scientific reason to expect that the results observed in premarket studies might not be observed in older adults or subpopulations identified by other clinical or demographic factors.

Comment: A commenter recommended that CMS should conduct regular audits on EPs and EDPs.

Response: We appreciate this comment; however, it is beyond the scope of this document.

Comment: A commenter recommended that CMS clarify that when the available evidence is promising but is insufficient to satisfy the reasonable and necessary standard for the Medicare population, CMS may extend coverage under the TCET pathway conditioned on completion of an FFP study that may convincingly address an evidence deficiency identified in the EP. Additionally, some commenters recommended that CMS acknowledge the dynamic nature of FFP studies and adopt documentation best practices for study design and analysis changes to ensure transparent study conduct and rigorous evidence development.

Response: We appreciate these comments and have clarified in the final notice that EDPs must address material evidence deficiencies identified in the EP. FFP studies addressing specific evidence deficiencies identified in the EP may be proposed as part of a broader

EDP. CMS agrees that FFP studies, especially those that make secondary use of real-world data, may require modifications to the pre-specified protocol for various reasons. Thus, CMS agrees that EDPs should incorporate interim reporting to ensure adequate progress and timely completion. Interim reports should also disclose any meaningful changes to prespecified study protocols, which are essential to transparency. These updates are in the interest of CMS, manufacturers, and the public because they provide early confirmation of the viability of planned studies that use real-world data and early feedback on real-world outcomes. CMS expects to publish detailed guidance on acceptable FFP studies in the coming months.

Comment: A commenter noted that FFP evidence generation will likely require new data sources and methods of data collection, which may be particularly problematic for some Breakthrough Devices where the primary benefit to Medicare beneficiaries may be improvements in a patient-reported outcome (PRO). This commenter further stated that a clear definition of acceptable alternative evidence-generation methods and sources would be important since PROs are difficult to ascertain from administrative claims data or electronic health records. The commenter encouraged CMS to consider the balance between collecting data on outcomes that are important to patients and caregivers and minimizing the increased burden on providers, ideally by prioritizing outcomes that address patient priorities and are easy to collect as a part of routine care. This commenter suggested that a system that allows CMS claims data to be linked with other data sources is important for TCET to work effectively. The commenter suggested that accessing and working with Medicare claims data is difficult and burdensome. They recommended that CMS facilitate linkages to Medicare claims to facilitate evidence generation under the TCET pathway. Another commenter noted that CMS should ensure postmarket study designs support efficient acquisition and linkage of data sources data so studies can be efficiently completed.

Response: We appreciate these recommendations. We agree that patient-reported outcomes are often unavailable from claims or electronic health records (EHR) data sources. The real-world data (RWD)/real world evidence (RWE) field is rapidly developing, and new mechanisms for efficiently collecting supplemental data like PROs may emerge. CMS agrees that

<sup>&</sup>lt;sup>21</sup>CMS, Medicare Program Integrity Manual, Chapter 13, 13.5.4, available at https:// www.cms.gov/regulations-and-guidance/guidance/ manuals/downloads/pim83c13.pdf.

easier linkages between multiple data sources would simplify conduct of studies using real-world data. While indirect matching strategies are available, they may be cumbersome to implement.

ČMS expects to publish detailed guidance on acceptable FFP studies in the coming months. CMS is closely tracking developments in this emerging field

#### I. CMS NCD Review and Timing

CMS proposed that if a device that is accepted into the TCET pathway receives FDA marketing authorization, CMS will initiate the NCD process by posting a tracking sheet following FĎA market authorization (that is, the date the device receives PMA approval; 510(k) clearance; or the granting of a De Novo request) pending a CMS and AHRQ-approved Evidence Development Plan (in cases where there are evidence gaps as identified in the Evidence Preview). In the proposal CMS stated that the goal is to have a finalized EDP no later than 90 business days after FDA market authorization.

CMS' proposal stated that the process for Medicare coverage under the TCET pathway would follow the NCD statutory timeframes in section 1862(1) of the Act. CMS would start the process by posting a tracking sheet and elements of the finalized Evidence Preview, specifically the non-proprietary information, which would initiate a 30day public comment period. Following further CMS review and analysis of public comments, CMS would issue a proposed TCET NCD and EDP within 6 months of opening the NCD. There would be a 30-day public comment period on the proposed TCET NCD and EDP, and a final TCET NCD would be due within 90 days of the release of the proposed TCET NCD.

Comment: Some commenters requested that the proposed decision memo for an initial TCET NCD should be posted at the same time as a tracking sheet, similar to what has previously been done for Parallel Review NCDs. These commenters note that this would help streamline the process since there would be only one 30-day public comment period.

Response: While we appreciate the suggestions to streamline the TCET process by providing for only one public comment period, we believe posting a tracking sheet with a proposed NCD is operationally impractical for CMS and provides insufficient opportunity for public feedback on the coverage conditions that optimize patient outcomes. The evidence base for emerging technologies is often

incomplete, and practice guidelines are not yet established, so we believe input from interested parties is critical to ensure that Medicare is providing appropriate coverage for new, innovative technologies that balance access with beneficiary safeguards.

Comment: Several commenters noted inconsistencies in the proposed TCET process timeline. They noted CMS' stated goal of finalizing an NCD within 6 months of FDA marketing authorization and pointed out that we also state that there would be a tracking sheet posted with a 30-day comment with a proposed NCD posted 6 months after that (~7 months) and a final NCD statutorily due a few months later. Another commenter noted that the Timeline Diagram has a stakeholder meeting and evidence preview meeting listed, but the stakeholder meeting is not described in the notice.

Response: We appreciate the feedback. CMS notes that if material evidence deficiencies for Medicare coverage are identified in an evidence preview, manufacturers must have an approved evidence development plan before CMS will initiate a national coverage analysis. Delays in drafting an approvable evidence development plan may make it impossible to achieve coverage within 6 months of FDA authorization. Nonetheless, the final notice clarifies that the initial 30-day comment period is concurrent with the national coverage analysis, and CMS aims to shorten the NCD review by initiating our evidence review in the premarket period. We have removed the "stakeholder meeting" from the Timeline Diagram in the final notice since it is synonymous with the evidence preview meeting in the notice.

#### J. Input From Interested Parties

CMS stated in its proposal that feedback from the relevant specialty societies and patient advocacy organizations, in particular, their expert input and recommended conditions of coverage (with special attention to appropriate beneficiary safeguards), is especially important for technologies covered through the TCET pathway. In the proposal, CMS strongly encourages these organizations to provide specific feedback on the state of the evidence and their recommended best practices for the emerging technologies under review upon opening a national coverage analysis. We noted that while we prefer to have this information during the initial public comment period upon opening the NCD, we realize that, in many cases, it may take longer for these organizations to provide their collective perspectives to CMS

since these technologies will have only recently received FDA market authorization. Further, we stated that since CMS may consider any information provided in the public domain while undertaking an NCD, CMS encourages these organizations to publicly post any additional feedback, including relevant practice guidelines, within 90 days of CMS' opening of the NCD. We specified that information considered by CMS to develop the proposed TCET NCD will become part of the NCD record and will be reflected in the bibliography as is typical for NCDs.

Comment: Numerous commenters agreed that engagement with all interested parties, particularly specialty societies, is important. Some commenters encouraged CMS to maintain close relationships with specialty societies and engage them as soon as an NCD is open. A few commenters suggested that CMS be flexible regarding the timeframe for developing consensus documents, as these documents may take an extended time to develop. Several commenters recommended that CMS be transparent when specialty society feedback is received outside a public comment period and suggested that CMS acknowledge receipt of the information and notify the manufacturer, post the information on the CMS website, and provide an opportunity for manufacturer feedback. Another commenter requested that CMS have a vetting process to ensure these sources of information are legitimate. It was noted that more formal public engagement mechanisms, like those used by FDA, are needed. A commenter suggested that CMS establish a Network of Experts like FDA's Center for Devices and Radiological Health (CDRH) and Center for Drug Evaluation and Research

Response: We agree that engagement with specialty societies is important, and we intend to maintain our collaborative relationships with them to facilitate timely coverage and provide appropriate beneficiary access to promising new technologies. We believe that TCET includes adequate flexibility for specialty societies to provide important input. As is current practice, information sources that inform an NCD are documented in the decision memo and the bibliography of the proposed and final NCD. CMS carefully evaluates evidence and public comment when proposing and finalizing NCDs. While establishing more formal public engagement mechanisms is beyond the scope of this notice, we appreciate the suggestions commenters offered.

Comment: Several commenters requested that CMS establish a formal and robust patient engagement process. A few commenters stated that patients and patient organizations should be consulted regarding how CED affects access, outcomes, and caregiver experiences. They also stated that patient groups should be consulted to discuss study protocols and clinical endpoints. A commenter stated that CMS should agree to timely meetings with all interested parties.

Response: We routinely meet with interested parties about coverage requests for new technologies and reconsiderations of NCDs for existing technologies. CMS also regularly attends public meetings to discuss new technologies and to gather input from multiple perspectives. Furthermore, most NCDs allow two opportunities for public comment: when a national coverage analysis is initiated and when an NCD is proposed. Therefore, we believe the current process allows the public to express their views. CMS notes that additional public engagement requirements will increase coverage review costs and slow the initiation and completion of NCDs. CMS also solicits patient input on clinical endpoints that are relevant for coverage decisions and their minimally clinically meaningful differences through the Clinical Endpoints Guidance series.

#### J. Coverage of Similar Devices

In our proposal we noted that FDA market-authorized Breakthrough Devices are often followed by similar devices that other manufacturers develop. Additionally, we expressed that we believe it is important to let physicians and their patients make decisions about the best available treatment depending upon the patient's individual situation. We proposed that to be eligible for coverage under a TCET NCD, similar devices would be subject to the same coverage conditions, including a requirement to propose an EDP. CMS sought public comment on whether similar devices to the Breakthrough Device should be addressed under a separate NCD or should be subject to the same coverage conditions as the Breakthrough Device, including a requirement to propose an

Comment: Commenters generally supported CMS' proposal to cover similar devices under NCDs. Some commenters noted that NCDs have generally covered a particular class of technologies and supported a similar approach in the TCET pathway.

Response: We appreciate these comments. NCDs are limited to

particular items or services, but some NCDs apply to products for the same indication. In these instances, CMS will follow the existing NCD process detailed in section 1862(l) of the Act. We recognize that some differences may exist for technologies in a class that may result in a distinct benefit/risk profile, and each will be evaluated on its own merit.

Comment: A few commenters disagreed with CMS' proposal, citing concerns that covering similar devices undercuts the voluntary nature of TCET. These commenters stated that Breakthrough Devices are unique and should be individually addressed.

Response: We appreciate the commenter's concern. We believe that it is important for the TCET pathway to foster innovation and not limit access to competitive devices. In some cases, providing coverage using a class approach may be appropriate and could avoid delays in access that would occur if a separate NCD were required to ensure coverage and would also provide more treatment options for patients and their physicians. We recognize that some differences may exist for technologies in a class that may result in a distinct benefit/risk profile, and each will be evaluated on its own merit.

Comment: Several commenters requested that CMS define "similar devices." For example, a commenter suggested that CMS define similar devices as either: (1) those with the same or similar intended use as the initial product; or (2) devices with the same FDA product code. A commenter noted that it may be unclear whether two devices are in "the same category."

Response: To preserve flexibility for manufacturers and CMS, we have not defined "similar devices" in the final notice. If the similarity of two or more devices is uncertain, CMS will consult with FDA and the manufacturer(s), as appropriate, when determining whether a device could be considered individually or as part of a class of similar devices for coverage purposes.

Comment: Some commenters requested that CMS clarify how coverage for similar devices will be handled under TCET. Commenters expressed mixed opinions and offered various suggestions as to how CMS could provide coverage under TCET for follow-on devices. Many commenters indicated that follow-on devices should be subject to the same coverage conditions and evidence standards and should be required to develop a comparable EDP to the original device. Several commenters recommended that CMS set clear expectations for evidence development for second and third

devices to market. Some commenters encouraged CMS to be flexible in its approach to providing coverage for similar devices under TCET. A commenter suggested that CMS should require one EDP for all devices in the class. A commenter recommended that CMS require the same nomination and evidence preview processes for followon devices as for the first device to ensure that sponsors and CMS are aware of the available evidence. Another commenter suggested that CMS should require follow-on device manufacturers to submit an EDP but noted that existing endpoint guidance and the available data standards and infrastructure may reduce the cost of CED studies for follow-on devices with similar evidentiary questions.

Response: We appreciate these comments and agree with commenters that providing flexibility regarding coverage for follow-on devices is important. We do not believe that a onesize-fits-all approach to evidence development is appropriate since evidence gaps are specific to each device, and therefore, the evidence development needed to meet the reasonable and necessary standard may differ. In some cases, second and third follow-on devices may have fewer or different material evidence deficiencies. We recognize that each technology in a class may have differences that result in a distinct benefit/risk profile, and each will be evaluated on its own merit.

Comment: Some commenters recommended that the first device to market should have privileged status, such as a 1-year coverage exclusivity period. These commenters suggested that CMS should balance rewarding the first-to-market device with granting coverage to follow-on devices.

Response: We do not believe that a coverage exclusivity period for the first-to-market device is necessary and note that it would considerably complicate TCET implementation. Further, we believe that granting privileged status to the first-to-market device could impede Medicare beneficiary access to the best available device for their circumstances.

Comment: A commenter requested clarification on whether NCD reconsiderations would be delayed if two devices have EDPs with different timelines. Another commenter suggested that when a positive NCD is issued at the conclusion of a TCET NCD, CMS and the manufacturer of the follow-on device should discuss whether the agreed-upon evidence development should continue. Another commenter noted that a post-TCET NCD should apply to follow-on devices.

Response: We appreciate these comments. We believe it is important to provide flexibility so that a post-TCET NCD can apply to follow-on devices under appropriate circumstances. We do not anticipate a situation where we would delay an NCD reconsideration when two devices have EDPs with different timelines. Some studies in an EDP may continue beyond the prespecified NCD reconsideration date. In this case, CMS strongly encourages manufacturers to complete these studies even if further evidence development is voluntary. CMS will engage with manufacturers when these situations are encountered to ensure the least burdensome approach is utilized while ensuring adequate evidence is collected to support Medicare coverage.

Comment: Several commenters requested that CMS clarify whether the follow-on devices would be required to have FDA Breakthrough designation to seek coverage under a TCET NCD. Some commenters expressed that follow-on devices should be required to have Breakthrough designation to receive coverage under TCET.

Response: We appreciate these comments. We believe that it is important for the TCET pathway to foster innovation and not limit access to competitive devices. To apply for the TCET pathway, the device must have FDA Breakthrough designation. All NCDs, whether through the TCET pathway or other, must follow the statutory process detailed in section 1862(1) of the Act which includes a public comment period.

Comment: Many commenters supported coverage of similar devices but recommended that follow-on devices not count against the annual cap of devices accepted into the TCET pathway.

Response: The final notice clarifies that follow-on devices will not count against the limit on TCET reviews.

Comment: A commenter questioned how CMS would address a situation where one device covered under the NCD has a safety concern, and other devices are covered under that NCD.

Response: CMS action would depend on the specific situation. CMS could reconsider a TCET NCD if safety concerns arise. We noted in the proposed procedural notice and reiterate in this final notice that CMS retains the right to reconsider an NCD at any point in time. Any reconsideration undertaken by CMS would be informed by the relevant evidentiary and safety information available at the time.

Comment: A commenter recommended that CMS solicit further

feedback regarding coverage of similar devices under TCET and reassess after a year.

Response: CMS may reassess our approach as we gain more experience with the TCET pathway.

### K. Duration of Coverage

CMS proposed that the duration of transitional coverage through the TCET pathway would be time-limited and be tied to the CMS- and AHRQ-approved Evidence Development Plan (EDP). The proposal stated that the review date specified in the EDP will provide 1 additional year after study completion to allow manufacturers to complete their analysis draft one or more reports and submit them for peer-reviewed publication. In the proposed notice, we stated that we anticipate the transitional coverage period would last for 3 to 5 years as evidence is generated to address evidence gaps identified in the Evidence Preview.

Comment: Many commenters supported CMS' proposal for timelimited coverage under TCET with the coverage period specified in the EDP. Some commenters suggested a 3- to 5year timeframe may not be sufficient as it may take longer for some studies to be completed and published, and encouraged CMS to be flexible, especially if a manufacturer acted in good faith or extenuating circumstances occurred. They noted that 3 to 5 years may be insufficient to gather all the necessary data and to ensure safety. A commenter encouraged CMS to remain flexible since cancer studies often use 5vear outcomes. Some commenters stated that CMS should establish a series of touch points where CMS and manufacturer can discuss progress and adjust the EDP as needed.

Response: We appreciate the supportive comments. CMS agrees that the duration of transitional coverage should be tied to an EDP that sufficiently addresses the material evidence gaps identified in the EP, and we will work with manufacturers to define an appropriate NCD reconsideration window. Particularly where longer periods of transitional coverage are anticipated, CMS agrees that EDPs should incorporate interim reporting to ensure adequate progress, public transparency, and timely completion. These updates are in the interest of CMS, manufacturers, and the public because they provide early confirmation of the viability of planned studies that use real-world data and early feedback on real-world outcomes. As noted in the proposed and final notice, we will be flexible when

working with manufacturers if unavoidable delays occur.

Comment: Commenters offered support for sufficient time and flexibility to ensure seamless coverage following the TCET coverage period. Many commenters encouraged CMS to stipulate there would be no gap in coverage upon study completion and the time to reconsider the NCD. Others requested clarification on the timeline for using "continued access" to better ensure clarity for manufacturers participating in TCET. Some commenters suggested that CMS allow less burdensome alternatives (for example, literature review, claims data analysis) for data collection for the continued access study.

Response: We appreciate these comments. The inclusion of a continued access study in the EDP is intended to provide seamless coverage. As we noted in the proposed notice and are finalizing in this notice, "Manufacturers should conceive a continued access study that maintains market access between the period when the primary EDP is complete, the evidence review is refreshed, and a decision regarding post-TCET coverage is finalized. The continued access study may rely on a claims analysis, focusing on device utilization, geographic variations in care, and access disparities for traditionally underserved populations."

Comment: A commenter requested clarification regarding the purpose and requirements of the continued access study.

Response: Under CED NCDs, coverage is granted for items and services provided within a clinical study. Evidence development requirements remain in place until an NCD reconsideration that removes them is finalized. Continued access studies maintain market access during the period beginning when the last patient is enrolled in a CED study until an NCD reconsideration that removes CED requirements is finalized. A discussion of requirements for continued access studies are beyond the scope of this document.

Comment: A commenter expressed that data collection should continue until an NCD reconsideration is conducted.

Response: An NCD with CED requirements remains in place until an NCD reconsideration without CED requirements is finalized. CMS has published details of the NCD process at 78 FR 48164.

Comment: A commenter suggested that CMS consider including in the original TCET NCD, when appropriate, automatic termination of CED evidence collection requirements and conversion of the policy to a regular NCD in situations where all endpoints are met, and there are no serious adverse events or other significant problems during the CED study.

Response: We appreciate the suggestion, but an NCD with CED requirements remains in place until an NCD reconsideration is finalized. We are unable to include an automatic termination provision in the original TCET NCD. CMS has published details of the NCD process at 78 FR 48164.

Comment: Some commenters expressed that if a study has met the endpoints, a change in coverage status should proceed without delay, and peerreviewed publication should not be required.

Response: We disagree with the commenter regarding peer-reviewed publication. CMS believes that rigorous and publicly available evidence is necessary to inform beneficiaries, the clinical community, and the public about the benefits and harms of available treatment options. CMS generally considers peer-reviewed evidence of higher quality and evidentiary value than study results that are not peer-reviewed. Published studies are also necessary for devices to be included in evidence-based guidelines, which feature heavily in ČMS' assessment of accepted standards of medical practice. Therefore, it is essential that evidence is published in the peer-reviewed clinical literature, and CMS applies rigorous methodologic standards in evidence review supporting local or national coverage analyses. CMS may sometimes review pre-publication evidence to accelerate our reviews. Nonetheless, the national coverage analysis process is open and transparent, and the evidence considered must be in the public domain. To judge whether CMS' analysis is appropriate, the public must also have access to the information that CMS relied on to conduct its evidence review. The 2024 CED guidance document states, "If peer-reviewed publication is not possible, results may also be published in an online publicly accessible registry dedicated to the dissemination of clinical trial information such as ClinicalTrials.gov, or in journals willing to publish in abbreviated format (for example, for studies with incomplete results).

Comment: A commenter suggested that CMS ensure that studies are published in well-respected journals. This commenter also recommended naming specific examples to ensure scientific rigor.

Response: We appreciate these comments, but CMS does not believe it would be appropriate to name specific examples. As previously described, it is in the manufacturer's best interest to have their studies published in peerreviewed journals.

#### L. Transition to Post-TCET Coverage

CMS proposed to conduct an updated evidence review within 6 calendar months of the review date specified in the EDP. Additionally, as part of this process, CMS would review applicable practice guidelines and consensus statements and consider whether the conditions of coverage remain appropriate. CMS proposed that based upon this assessment, when appropriate, CMS would open an NCD reconsideration by posting a proposed decision that includes one of the following outcomes: (1) an NCD without evidence development requirements; (2) an NCD with continued evidence development requirements; (3) a noncoverage NCD; or (4) Medicare Administrative Contractor (MAC) discretion.

Comment: Commenters generally supported CMS' proposal to conduct an updated evidence review and an NCD reconsideration to facilitate the transition to post-TCET coverage.

Response: We appreciate these comments.

Comment: A few commenters stated that 6 months may not be enough time to complete the updated evidence review, and one of these commenters recommended 12 months. As in other TCET phases, some commenters suggested that CMS maintain flexibility.

Response: We agree with commenters that flexibility is important in the NCD reconsideration phase of the TCET pathway. Projected timeframes for the completion of real-world studies are estimated, and defining a precise date for a future NCD reconsideration is impossible. In this final notice, CMS clarifies that we intend to initiate an updated evidence review within 6 calendar months of the date specified in the EDP.

Comment: Additionally, several commenters requested that CMS clarify the manufacturer's role in the updated evidence review process and allow manufacturers to have a dialogue with the evidence review contractor to provide feedback on the evidence review findings.

Response: We disagree that manufacturers should be able to contact the contractors that the government has engaged to conduct an unbiased and neutral review of the scientific evidence. CMS has established rigorous

review criteria that were developed in collaboration with AHRO, have undergone detailed testing during the past year, and are reflected in the CMS NCA Evidence Review guidance. The contractor's role is to conduct a systematic literature review and summarize the evidence based on a modified GRADE methodology. The contractor supports and accelerates CMS reviews, but CMS performs extensive quality assurance on contracted reviews, contributes substantial portions of the NCA independently, and ultimately determines policy. Further, we believe there are ample opportunities for manufacturers to provide feedback throughout the process.

Comment: A commenter recommended that CMS look for opportunities to streamline the reconsideration process to preserve resources so that more technologies can be considered under the TCET pathway. This commenter suggested that CMS could eliminate the initial 30-day comment period for the NCD reconsideration and post a proposed decision along with the tracking sheet.

Response: We appreciate this comment and note that we stated in the proposed notice and reiterate in this final notice that we would open a TCET NCD reconsideration with a proposed NCD

Comment: A commenter encouraged CMS to remain transparent and consider comments from interested parties on the reconsidered NCDs.

Response: We agree and will consider comments from interested parties during the NCD reconsideration process.

#### M. TCET and Parallel Review

In the proposed notice, CMS noted that other potential expedited coverage mechanisms, such as Parallel Review, remain available. CMS stated in the proposal that eligibility for the Parallel Review program is broader than for the TCET pathway and could facilitate expedited CMS review of non-Breakthrough Devices. Further, CMS' proposal expressed CMS' intent to work with FDA to consider updates to the Parallel Review program and other initiatives to align procedures, as appropriate.

Comment: Several commenters stated that Parallel Review has yielded few results and noted many features of TCET have wide overlap with the Parallel Review Program. A commenter recommended that more technologies be accepted into the Parallel Review Program. Another commenter supported expanding the Parallel Review Program

to accommodate devices that are ineligible for TCET.

Response: We appreciate these comments and will consider them as we move forward in conjunction with FDA to consider updates to the Parallel Review Program.

Comment: A commenter requested that CMS clarify whether technologies already accepted into parallel review are eligible for TCET.

*Response:* Technologies accepted into the Parallel Review Program may be considered for TCET if they align with the criteria for the TCET pathway.

#### N. Prioritizing Requests

CMS proposed to respond to TCET nominations within 30 days. Additionally, CMS' proposal indicated our intent to accept up to five candidates into the pathway annually. (We note that our responses to comments received regarding TCET timeframes, as well as the annual number of candidates accepted into the TCET pathway, are addressed in section II.A.3. of the notice.) CMS stated in the proposed notice that we intend to prioritize innovative medical devices that, as determined by CMS, have the potential to benefit the greatest number of individuals with Medicare.

Comment: Several commenters recommended that CMS establish and make public the prioritization factors used to triage TCET nominations when there are many candidates at a given

Response: We appreciate these

comments and acknowledge the importance of clarifying how we will prioritize TCET nominations. To provide greater transparency, consistency, and predictability, we intend to release proposed prioritization factors for TCET nominations in the near future. We look forward to public comment on our proposed approach.

Comment: Some commenters disagreed with CMS' intention of prioritizing TCET candidates based on the overall impact on the Medicare population. These commenters noted that prioritizing based on overall impact will not address issues with underserved populations with limited or no treatment options. Commenters suggested that CMS should consider using the following factors when prioritizing NCD requests: making significant improvements to patients' lives; underserved populations; augmenting population health management practices; advancing the Quadruple Aim; potentially lifesaving; utilizing a more novel approach than current options, serving an unmet need, having a significant impact on patients

and caregivers, addressing orphan diseases, and contributing to advancing health equity, access and improved health outcomes. Additionally commenters requested that CMS provide consideration for special patient populations, including the needs of people with disabilities under age 65. A commenter suggested that CMS consider implementing well-established measures of healthcare benefits (for example, Quality- Adjusted Life Years (QALYs) and Disability-Adjusted Life Years (DALYs)) alongside measures that account for innovative benefits not traditionally derived from current standards-of-care (for example, procedure efficiency, treatment invasiveness, and Patient-Reported Outcome Metrics (PROMs)). Several commenters stated that CMS should not prioritize those technologies with the largest evidence bases.

*Response:* We appreciate these suggestions and will consider them when we propose TCET prioritization factors in the future. In the meantime, we will prioritize TCET candidates based upon the language from the August 7, 2013, Federal Register notice (78 FR 48164) stating that in the event we have a large volume of NCD requests for simultaneous review, we prioritize these requests based on the magnitude of the potential impact on the Medicare program and its beneficiaries and staffing resources. We note that section 1182(e) of the Act prohibits the Secretary from using QALYs or similar measures to determine coverage, reimbursement, or incentive programs under Medicare.

### O. TCET Transparency

Comment: Several commenters requested that CMS be transparent regarding devices in the TCET pathway. Suggestions for more transparency included publicly posting information such as the number of devices in the TCET pathway, the date of nomination, the date of acceptance, and the date the NCD process is initiated. A commenter also recommended that information regarding TCET NCDs be included in the annual Report to Congress on NCDs.

Response: We appreciate these comments and recognize the importance of transparency regarding the TCET pathway. In response to public comments, we agree that including the number of devices in the TCET pathway, the date of nomination, the date of acceptance, and the date the NCD process is initiated would be helpful and we will incorporate this information into future iterations of the NCD Dashboard (available here: https:// www.cms.gov/Medicare/Coverage/

DeterminationProcess). We intend to update the NCD Dashboard every quarter. Since we will use the NCD process to provide coverage under the TCET pathway, TCET NCDs will be reflected in the annual Report to Congress.

#### P. Miscellaneous Comments

Comment: Several commenters suggested that CMS create a similar but separate pathway for technologies that meet the reasonable and necessary standard, but with limited context on real-world use in the Medicare population. This suggested pathway would offer temporary transitional national coverage and would not rely on the CED statutory authority; instead, these technologies could be covered under section 1862(a)(1)(A) of the Act. These commenters noted that this "limited context" pathway would accelerate beneficiary access to these technologies and promote the collection and assessment of real-world evidence to support the development of a longterm national coverage policy.

Response: These comments are outside the scope of the TCET notice. However, we will consider them in the future as we consider providing additional coverage pathways. In general, CED is not required for items and services that meet the reasonable and necessary standard. CED is an important option when the evidence is promising but does not yet satisfy the reasonable and necessary standard. CED relies primarily on the statutory exception in section 1862(a)(1)(E) of the Act, which effectively permits Medicare payment in the case of research conducted pursuant to section 1142 of the Act for items and services that are reasonable and necessary to carry out that section.

In some cases, the available evidence may satisfy the reasonable and necessary standard only within a narrow context and be appropriate for coverage on an individual claim determination basis. However, broad local or national coverage requires evidence generalizable to the intended Medicare beneficiary population.

Comment: A commenter requested that Medicare Advantage plans should be required to cover TCET technologies without prior authorization.

Response: This comment is out of scope as we are unable to impose new requirements on Medicare Advantage plans in this notice.

Comment: Some commenters requested that CMS build a CMS Office of the Actuary (OACT) determination into whether a Breakthrough Device in the TCET pathway triggers the

significant cost threshold as soon as possible after an NCD.

Response: We do not believe building an OACT significant cost threshold determination into the TCET pathway is necessary. Significant cost threshold determinations for TCET NCDs will be handled consistent with the existing process we use for all NCDs.

Comment: A commenter recommended that CMS explain how the Clinical Endpoints Guidance documents will interact with and facilitate the TCET pathway and clarify whether CMS will prioritize TCET candidates in disease areas for which Clinical Guidance Documents have already been developed. This commenter also noted that through the FFP and Clinical Endpoints guidance documents, CMS can provide recommendations on the type of data collection best suited for given therapeutic areas, including guidance on data sources and data infrastructures. This commenter further stated that CMS could support better evidence development infrastructure by aligning TCET activities with its overall strategy to advance the use of interoperable electronic health data.

Response: We appreciate these comments. We intend to develop clinical endpoint guidance documents in therapeutic areas with a great deal of active research and development or in areas with considerable uncertainty about appropriate outcomes. The decision to develop a Clinical Endpoints Guidance (CEG) document is unrelated to our evaluation of a specific TCET nomination, and we may develop CEGs unrelated to the TCET pathway. Publication of a CEG does not imply that CMS intends to open an NCD. The RWD/RWE field is rapidly evolving, and CMS is closely tracking developments. CMS appreciates the suggestions for improving CEG documents by incorporating recommendations for data sources and infrastructures. CMS expects to publish detailed guidance on acceptable FFP studies in the coming

Comment: Commenters generally supported CMS collaboration with other HHS Agencies and encouraged further collaboration with FDA, NIH, and ARPA—H.

Response: We appreciate these comments. CMS intends to continue its collaboration with our fellow HHS sister agencies.

Comment: A commenter requested that CMS clarify the following sentence from the proposed notice: "We note that many Breakthrough Devices are currently coverable without the TCET pathway because they are not separately

payable (that is, the device may be furnished under a bundled payment, such as payment for a hospital stay) or they are addressed by an existing NCD." The commenter stated that it seems a device always used in the inpatient hospital setting would never need a coverage determination at the national or local level since it is part of a bundled payment. The commenter requested confirmation of the assumption that CMS would cover new devices for existing inpatient-only procedures, such as transcatheter aortic valve replacement since it would eliminate the need for many devices paid as part of a bundled payment to request coverage through the TCET pathway.

Response: We acknowledge this sentence has caused unintended confusion. It was not intended to communicate a universal statement regarding Medicare coverage. We have deleted the sentence from the final notice.

Comment: A commenter expressed concerns about accelerating the integration of 510(k) devices into practice since, as the commenter stated, 510(k) devices must prove "substantial equivalence" to a device that is already on the market and are not designed to demonstrate "safety and effectiveness" like the "Pre-Market Authorization" process. This commenter requested clarification on how an EDP would address devices without clinical evidence before clearance.

Response: In general, for an item or service to be covered under Medicare, it must meet the standard described in section 1862(a)(1)(A) of the Act—that is, it must be reasonable and necessary for the diagnosis or treatment of illness or injury or to improve the functioning of a malformed body member. In contrast, CED relies primarily on the statutory exception in section 1862(a)(1)(E) of the Act, which effectively permits Medicare payment when that bar has not yet been met, in order to support research conducted pursuant to section 1142 of the Act for items and services that are reasonable and necessary to carry out that section. CED is an important option when the evidence is promising but does not yet satisfy the reasonable and necessary standard under 1862(a)(1)(A).

In general, clinical evidence relevant to the Medicare population is necessary to achieve a favorable Medicare coverage decision. We anticipate that most TCET nominations will be for Breakthrough Devices where robust Medicare beneficiary protections and evidence generation are important to achieving optimal health outcomes. Additionally, CMS anticipates that most

devices considered for the TCET pathway will be devices reviewed under a De Novo request or PMA submission. However, we note that devices subject to the 510(k) clearance pathway may qualify for Breakthrough designation (see 21 U.S.C. 360e–3(c)). Although the 510(k) review standard is substantial equivalence of a new device to a legally marketed device, the principles of safety and effectiveness underlie the substantial equivalence determination in every 510(k) review.<sup>22</sup>

Comment: A commenter requested clarification as to who would be responsible for maintaining the integrity of an evidence development plan, particularly for FFP designs using real-world data. This commenter also questioned if CMS would consider a support mechanism if registries were required.

Response: It is the manufacturer's responsibility to maintain the integrity of an EDP. In approving EDPs, CMS, in collaboration with AHRQ, has agreed that the proposed studies are likely to substantially address material evidence gaps identified in the EP if faithfully executed. CMS' 2024 CED guidance document states that changes to approved study protocols must be justified and publicly reported. It also states that sponsors/investigators commit to making study data publicly available by sharing data, methods, analytic code, and analytical output with CMS or with a CMS-approved third party. The ultimate value of approved CED studies will be assessed when CED studies are completed, and the results are known.

CMS intends to issue FFP study guidance soon. We believe the guidance will clarify CMS' expectations for FFP studies, particularly those that rely on the secondary use of real-world data.

A discussion of CMS payment for data submission into registries is beyond the scope of this document.

Comment: A commenter requested that CMS clarify how upcoming pilots will relate to the TCET pathway and timing.

Response: We are currently testing aspects of the TCET process, specifically, the EP and EDP concepts within the existing NCD review process. More information will be provided as these NCDs are opened. We cannot provide information on the timing for opening any of these pilots.

*Final Decision:* After review of the public comments received, we are

<sup>22</sup> https://www.fda.gov/regulatory-information/ search-fda-guidance-documents/510k-programevaluating-substantial-equivalence-premarketnotifications-510k.

finalizing the TCET pathway with the modifications and clarifications noted previously in our responses to public comments. The following section lists our changes between the proposed and final notice.

#### III. Provisions of the Final Notice

The final notice incorporates many of the provisions of the proposed notice and revises some of the provisions as proposed in response to issues raised by commenters. Based on CMS' analysis of the topics raised during the public comment period, CMS made several changes between the proposed notice and final notice, specifically the following:

- Nominations:
- ++ We incorporate an opportunity for manufacturers to submit a non-binding letter of intent to nominate a potentially eligible device approximately 18 to 24 months before they anticipate FDA market authorization.
- ++ We clarify that when CMS is aware that manufacturers will likely pursue the TCET pathway for devices where appropriate clinical endpoints are uncertain, we may preemptively conduct a clinical endpoints review and may convene a MEDCAC. We note that submission of a non-binding letter of intent may avoid delays in TCET reviews.
- ++ We have revised the timeframe for reviewing TCET nominations. We will review nominations on a quarterly basis.
- ++ CMS clarifies that nominations for devices that are already FDA market authorized or those anticipated to receive an FDA decision on market authorization within 6 months of nomination will not be accepted for TCET because TCET relies on extensive pre-market engagement to expedite coverage reviews. CMS notes that if the timelines for this pre-market engagement are shortened, it is unlikely that an NCD will be finalized within 6 months of FDA market authorization. We note that pursuing an NCD outside of TCET or MAC discretion is also available.
  - Evidence Preview (EP):
- ++ We clarify that the evidence review contractor's role is to support the CAG staff by conducting a rapid systematic literature review and summarizing the evidence based on a modified GRADE methodology. We further clarify that the contractor's role is to support and accelerate CMS reviews, but we will perform extensive quality assurance on contracted reviews, independently complete substantial portions of the EP, and determine coverage policy.

- ++ We state that if an NCD is opened, an evidence summary, including a disclosure of which contractor completed the review, will be posted with the tracking sheet on the CMS website for public comment.
- ++ We have changed our position on sharing the full EP with the MACs if a manufacturer withdraws from the TCET pathway. While we believe that an EP will be a fair reflection of the strength of evidence available at that time to support Medicare coverage, we acknowledge that manufacturers may withdraw from the TCET pathway for reasons unrelated to the strength of evidence. Nonetheless, EPs represent a substantial investment of public resources, and we will publicly post an evidence summary for devices that are withdrawn from the TCET pathway without an evidence gap assessment.
- Evidence Development Plans (EDPs):
- ++ We state that EDPs should incorporate interim reporting to ensure adequate progress and timely completion. Interim reports should also disclose any meaningful changes to prespecified study protocols, which are essential to transparency.
- ++ We note that the forthcoming FFP guidance will provide information on study designs and analysis methods that are FFP. We expect TCET CED studies to be registered and listed on the clinicaltrials.gov website. Additionally, we specify that a summary of the EDPs and the anticipated CED NCD reconsideration window will be posted on the CMS website so the public can stay informed throughout the process.
  - Coverage of Similar Devices:
- ++ We clarify that NCDs are limited to particular items or services, but note that some NCDs apply to products for the same indication. In these instances, we will follow the existing NCD process detailed in section 1862(1) of the Act. We recognize that some differences may exist for technologies in a class that may result in a distinct benefit/risk profile, and each will be evaluated on its own merit.
- ++ We clarify that any follow-on devices in the TCET pathway will not count toward CMS' annual limit.
- Prioritizing Requests—We express our intent to release proposed prioritization factors for TCET nominations soon to provide greater transparency, consistency, and predictability.
- TCET Transparency—We indicate that information on TCET devices will be added to the NCD Dashboard, including the number of devices in the TCET pathway, the date of nomination,

the date of acceptance, and the date the NCD process was initiated.

All other provisions are being finalized as proposed. The Addendum that follows provides the updated process and procedures for the TCET pathway that reflect the changes made in response to public comments.

# IV. Collection of Information Requirements

Based on our initial assessment of Breakthrough Devices applying the characteristics we list in section I.C. of the Addendum to this notice regarding appropriate candidates for the TCET pathway, we anticipate receiving approximately eight nominations for the TCET pathway per year. Based on current resources, we do not anticipate the TCET pathway will accept more than five candidates per year. Since we estimate fewer than 10 respondents, the information collection requirements are exempt in accordance with the implementing regulations of the PRA at 5 CFR 1320.3(c). As we gain experience with the TCET pathway, we will provide an updated analysis if we receive a higher number of respondents than anticipated.

Chiquita Brooks-LaSure, Administrator of the Centers for Medicare & Medicaid Services, approved this document on August 2, 2024.

#### Xavier Becerra,

 $Secretary, Department\ of\ Health\ and\ Human\ Services.$ 

# I. Addendum—Process and Procedures for the TCET Pathway

We describe in this Addendum the process and procedures for how interested parties and the public may engage with CMS to facilitate the TCET pathway. The topics addressed in the notice include the following: (1) TCET general principles; (2) appropriate candidates for the TCET pathway; (3) procedures for the TCET pathway; and (4) general roles.

We continue to work with various sectors of the scientific and medical communities to develop and publish guidance documents on our website that describe our approach when analyzing scientific and clinical evidence when developing NCDs. In response to feedback from interested parties, the 2024 CED and Evidence Review guidance documents incorporate recommendations for when FFP studies may be used to close material evidence gaps. FFP studies are those where the study design, analysis plan, and study data can credibly answer the research question. Additionally, CMS intends to

publish a series of guidance documents that review health outcomes and their clinically meaningful differences within priority therapeutic areas. The public will have an opportunity to provide comments on these guidance documents available on the CMS coverage website. The website may be accessed at <a href="http://www.cms.gov/Medicare/Coverage/CoverageGenInfo/index.html">http://www.cms.gov/Medicare/Coverage/CoverageGenInfo/index.html</a>.

A. TCET Pathway—An Opportunity To Accelerate Patient Access to Promising Medical Products While Generating Evidence

Since CMS started covering technology in the context of clinical studies almost two decades ago, the timing of evidence development and the stages of the technology development lifecycle have evolved. Over the past few years, innovative technologies have come on the market earlier in the technology development lifecycle and reached the market with limited or developing evidence for coverage purposes. CMS has received inquiries for coverage of new technologies that are early in the product lifecycle, which means the clinical evidence is just starting to accumulate. For new technologies, there is often insufficient clinical evidence to support broad national coverage at this point.

In general, CMS relies heavily on health outcomes data, especially as it relates to the Medicare population when proposing an NCD. Early in the product lifecycle, there is usually evidence about whether the product is safe and may produce the intended result: for example, a laboratory measurement, radiographic image, physical sign, or other measure that is believed to predict clinical benefit but is not itself a measure of clinical benefit. However, there is often little evidence in the early stages of the product lifecycle regarding health outcomes (for example, mortality, disease progression, or impact on a patient's quality of life). When premarket, pivotal clinical study data is collected to support an application to FDA for market authorization, it provides clinical evidence for a defined population enrolled in the study.

If there is health outcome evidence for a new technology, it may not be generalizable to the Medicare population if Medicare beneficiaries are insufficiently represented in pivotal clinical studies.<sup>23</sup> Medicare beneficiaries have been historically underrepresented in pivotal studies due

to age, access, multiple comorbidities, and concurrent treatments. When there is little or limited evidence, CMS may not have enough information to make a favorable NCD due to gaps in research about health outcomes, including potential safety risks to the Medicare population.

While CMS has attempted to streamline the NCD process with the Parallel Review program, we recognize that most emerging technologies are likely to have limited or developing bodies of clinical evidence that may not have included the Medicare population (that is, individuals over age 65, people with disabilities, and those with endstage renal disease). Many Medicare beneficiaries have comorbid medical conditions, and those factors may have limited their participation in certain clinical trials. Additionally, we recognize the importance that applicable clinical trials reflect the demographic and clinical diversity among the Medicare beneficiaries who are the intended users of the intervention. At a minimum, this requires the availability of data on, and attention to, the intended users' racial and ethnic backgrounds, sex and gender, age, disabilities, important comorbidities, and relevant social determinants of health. We believe that the TCET pathway can support manufacturers that are interested in working with CMS to generate additional evidence that is applicable to Medicare beneficiaries and that may demonstrate improved health outcomes in the Medicare population to support more expeditious national Medicare coverage. While we believe that leveraging the statutorily established NCD process will allow us to responsibly cover new, innovative technologies with limited or developing evidence, it is important that we provide an evidence generation framework that, when appropriate, not only develops reliable evidence for patients and their physicians but also provides safeguards to ensure that Medicare beneficiaries are protected and continue to receive high-quality care.

Specifically, CED has been used to support evidence development for certain innovative technologies that are likely to show benefit for the Medicare population when the available evidence is not sufficient to demonstrate that the technologies are reasonable and necessary for the diagnosis or treatment of illness or injury or to improve the functioning of a malformed body member under section 1862(a)(1)(A) of the Act. In instances where there is limited evidence, CED may be an option for Medicare beneficiaries seeking

earlier coverage for promising technologies. CED has been a pathway whereby, after a CMS and AHRQ review, Medicare covers items and services on the condition that they are furnished in the context of approved clinical studies or with the collection of additional clinical data. Participation in a CED trial is voluntary, but beneficiaries are protected by separate regulations, including those at 45 CFR part 46 related to the protection of human research subjects.

With respect to evidence generation, the TCET pathway will build upon CMS and AHRQ's ongoing collaboration on the CED NCD process. We anticipate that many NCDs conducted under the TCET pathway will result in CED decisions, and AHRQ will continue to review all CED NCDs consistent with current practice. Additionally, AHRQ will collaborate with CMS as appropriate on evidence development activities, such as the EP and EDP, conducted to support Medicare coverage under the TCET pathway and will have opportunities to offer feedback throughout the process that will be shared with manufacturers. Approvals related to evidence development will be a joint CMS-AHRQ decision.

With respect to beneficiary safeguards, the NCD process allows for coverage with appropriate safeguards for Medicare beneficiaries, including coverage criteria based on evidence regarding eligibility, frequency, provider experience, site of service, or availability of supporting services. Specifically, CMS develops clinician and institutional requirements after careful review of expert physicians' specialty society guidelines and clinical study results. These guidelines and recommendations are often part of NCDs. Unless these coverage criteria are established within coverage determinations, devices could be provided by unqualified individuals, offered at inappropriate facilities, and utilized by patients who may be unlikely to benefit or likely to experience adverse effects.

Coverage under a CED NCD can expedite earlier beneficiary access for individuals who volunteer to participate in the clinical studies of innovative technologies while ensuring that systematic patient safeguards, including assurance that the technology is provided to clinically appropriate patients, are in place to reduce the potential risks of new technologies, or to new applications of older technologies. CMS' 2024 CED guidance document includes specific patient protections

<sup>23</sup> https://www.fda.gov/regulatory-information/ search-fda-guidance-documents/designconsiderations-pivotal-clinical-investigationsmedical-devices.

under CED.<sup>24</sup> Because the TCET pathway described in this document would utilize the existing CED NCD process, all these safeguards would apply.

Input from interested parties is important to CMS, and we are particularly interested in engagement with patient advocacy organizations and medical specialty societies as they have valuable expertise and first-hand experience in the field that will help CMS develop Medicare coverage policies. Because the TCET pathway would utilize the current NCD process, these opportunities for engagement with interested parties are also available in TCET.

#### B. TCET General Principles

CMS is committed to ensuring Medicare beneficiaries have access to promising emerging, technologies. CMS' goal is to finalize an NCD for technologies accepted into and continuing in the TCET pathway, within 6 months after FDA market authorization. The TCET pathway builds on prior initiatives, including CED. The TCET pathway will meet the following principles:

- Medicare coverage under the TCET pathway is limited to certain Breakthrough Devices that receive market authorization for one or more indications for use covered by the Breakthrough Device designation when used according to those indications for use. Manufacturers of FDA-designated Breakthrough Devices that fall within a Medicare benefit category may selfnominate to participate in the TCET pathway on a voluntary basis.
- CMS may conduct an early evidence review (Evidence Preview, more details can be found in section. I.D.1.h. of this Addendum) before FDA decides on marketing authorization for the device and discuss with the manufacturer the best available coverage pathways depending on the strength of the evidence.
- Prior to FDA marketing authorization, CMS and manufacturers may discuss any evidence gaps for coverage purposes and the types of studies that may need to be completed to address the gaps, which could include the manufacturer developing an evidence development plan and confirming that there are appropriate safeguards for Medicare beneficiaries.
- If CMS determines that further evidence development (that is, CED) is

the best coverage pathway, CMS will work with the manufacturers to reduce the burden on manufacturers, clinicians, and patients while maintaining rigorous evidence requirements. CMS will work to ensure we are not requiring duplicative or conflicting evidence development with any FDA postmarket requirements for the device.

- CMS does not believe that an NCD that requires CED as a condition of coverage should last indefinitely, including under the TCET pathway. If the evidence supports a favorable coverage decision under CED, coverage will be time-limited to facilitate the timely generation of sufficient evidence to inform patient and clinician decision making and to support a Medicare coverage determination under section 1862(a)(1)(A) of the Act.
- Manufacturers and CMS have the option to withdraw from the pathway up until CMS opens the NCD by posting a tracking sheet. CMS will not publicly disclose participation of a manufacturer in the TCET pathway prior to CMS' posting of an NCD tracking sheet unless the manufacturer consents or has already made this information public or disclosure is required by law. CMS requests that a manufacturer who wishes to withdraw from the TCET pathway notify CMS by email.

#### C. Appropriate Candidates

Appropriate candidates for the TCET pathway would include those devices that are—

- FDA-designated Breakthrough Devices;
- Determined to be within a Medicare benefit category; <sup>25</sup>
- Not already the subject of an existing Medicare NCD; and
- Not otherwise excluded from coverage through law or regulation.<sup>26</sup>

In section 201(h)(1) of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 321(h)(1)), the definition of device includes IVD products, such as diagnostic laboratory tests. See 21 CFR 809.3. IVDs, including diagnostic laboratory tests, are a highly specific area of coverage policy development, and CMS has historically delegated review of many of these products to specialized MACs. We believe that the majority of coverage determinations for IVDs granted Breakthrough designation

should continue to be determined by the MACs through existing pathways.

#### D. Procedures for the TCET Pathway

The TCET pathway has three stages: (1) premarket; (2) coverage under the TCET pathway; and (3) transition to post-TCET coverage.

#### 1. Premarket

a. Non-Binding Letter of Intent for the TCET Pathway

Manufacturers may submit a nonbinding letter of intent to nominate a potentially eligible device for the TCET pathway approximately 18 to 24 months before anticipated FDA marketing authorization as determined by the manufacturer.

The letter of intent to nominate a device for the TCET pathway may be submitted electronically via the Coverage Center Website using the "Contact Us" link at http://www.cms.gov/Medicare/Coverage/InfoExchange/contactus.html. The following information will assist CMS in processing and responding to letters of intent:

- Name of the manufacturer and relevant contact information (name of contact person, address, email, and telephone number).
  - Name of the product.
- Succinct description of the technology and the disease or condition the device is intended to diagnose or treat.
- Date of FDA Breakthrough Device Designation.
- Expected regulatory pathway (for example, PMA, De Novo, 510(k)).
- Expected completion date for pivotal clinical study.

CMS will email the manufacturer to confirm that a submitted letter of intent has been received by CMS.

### b. Nominations for the TCET Pathway

The appropriate timeframe for manufacturers to submit nominations to CMS is approximately 12 months prior to when the manufacturer anticipates an FDA decision on a submission. Manufacturers are generally aware of when they intend to submit their application, and the FDA has agreed to review time goals as part of its device user fee program. CMS encourages manufacturers not to delay submitting nominations to facilitate alignment among CMS benefit category determination, and coverage, coding,

<sup>24</sup> https://www.cms.gov/medicare-coveragedatabase/reports/national-coverage-medicarecoverage-documents-report.aspx?docTypeId= 1&status=all.

<sup>&</sup>lt;sup>25</sup> For more information on benefit category determinations see the CMS Guide for Medical Technology Companies and Other Interested Parties: https://www.cms.gov/medicare/codingbilling/guide-medical-technology-companies-other-interested-parties.

<sup>&</sup>lt;sup>26</sup> Information on coverage exclusions can be accessed here: https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Downloads/bp102c16.pdf.

<sup>&</sup>lt;sup>27</sup> For more information on the specific review time goals that apply to different types of device premarket submissions, see MDUFA Performance Goals and Procedures, Fiscal Years 2023 Through 2027 (https://www.fda.gov/media/158308/download).

and payment considerations. Additionally, when CMS is aware that manufacturers will likely pursue the TCET pathway for devices where appropriate clinical endpoints are uncertain, we may preemptively conduct a clinical endpoints review and may convene a MEDCAC at a later date. In these instances, there may be a delay of several months due to the logistics involved in conducting these activities so the submission of a non-binding letter of intent may avoid potential delays.

Under the TCET pathway, CMS will conduct extensive work in the premarket period to shorten coverage review timeframes after devices are FDA market-authorized. Since TCET is forward-looking and extensive premarket engagement is essential, CMS will not accept nominations for already FDA market authorized devices or those anticipated to receive an FDA decision market authorization within 6 months of nomination. CMS may be unable to reach a final NCD within the expedited timeframes for TCET nominations submitted or accepted less than 12 months before anticipated FDA market authorization. We note that the option to pursue an NCD or LCD outside of the TCET pathway is available for these technologies.

The manufacturer may submit a nomination for the TCET pathway electronically via the Coverage Center website using the "Contact Us" link at http://www.cms.gov/Medicare/Coverage/InfoExchange/contactus.html. CMS will acknowledge receipt of nominations by email. The following information will assist CMS in processing and responding to nominations:

- Name of the manufacturer and relevant contact information (name of contact person, address, email, and telephone number).
  - Name of the product.
- Succinct description of the technology and disease or condition the device is intended to diagnose or treat.
- ++ Description of the product, including components (for example, single-use catheter, power source, charger system, etc.)
- ++ Description of the use context (for example, inpatient, ASC, outpatient clinic, home)
- ++ Description of the disease or condition that the product is intended to treat or diagnose and mechanism of action for the product
- State of development of the technology (that is, in pre-clinical testing, in clinical trials, currently undergoing premarket review by FDA). The submission of a copy of FDA's letter

granting Breakthrough Device Designation and the PMA application, De Novo request or premarket notification (510(k)) submission, if available, is preferred.

++ Date of FDA Breakthrough Device Designation

++ Expected regulatory pathway (for example, PMA, De Novo, 510(k))

- ++ Current development status (for example, pre-clinical testing, in clinical trials, under FDA premarket review, post-market)
- A brief statement explaining why the device is an appropriate candidate for the TCET pathway as described under section I.C. of this Addendum ("C. Appropriate Candidates").
- ++ Rationale for Breakthrough Designation
- ++ Unmet need the product addresses
- A statement describing how the medical device addresses the health needs of the Medicare population.
- ++ Description of the condition with respect to the full US population (for example, incidence, prevalence, significance)
- ++ Description of the applicable Medicare population(s) (for example, estimated population size, other considerations specific to the Medicare beneficiary population)

++ Description of the magnitude of the expected benefit from the product

- A statement that the medical device is not excluded by statute from Part A or Part B Medicare coverage or both, and a list of Part A or Part B or both Medicare benefit categories, as applicable, into which the manufacturer believes the medical device falls. Additionally, manufacturers are encouraged to provide additional specific information to help facilitate benefit category determinations.
- ++ Product not excluded from Medicare coverage by statute
- ++ Most likely benefit categories (for example, inpatient, physician services, DME, etc.)
- ++ A comprehensive list of peerreviewed, English-language publications that are relevant to the nominated Breakthrough Device as applicable/ available.
- ++ Relevant background literature (for example, important publications CMS should review for context).
- ++ Relevant unpublished clinical studies regarding the safety/efficacy of the product, with the expected publication date for each.
- ++ Relevant published clinical studies regarding the safety/efficacy of the product.

Two good sources of information to facilitate the development of

nomination submissions are the CMS Coverage website (https://www.cms.gov/Center/Special-Topic/Medicare-Coverage-Center) and the CMS Guide for Medical Technology Companies and Other Interested Parties (https://www.cms.gov/cms-guide-medical-techcompanies-other-parties), which provide information that may facilitate durable medical equipment, prosthetics, orthotics, and supplies (DMEPOS) BCDs, along with coverage, coding and payment processes and considerations.

CMS will email the manufacturer to confirm that a submitted nomination appears to be complete and is under review. This email will include the date that CMS initiated the review of the complete nomination. CMS will contact the manufacturer for more information if the nomination is incomplete.

#### c. CMS Nomination Cycles and Consideration of Nominations

CMS will accept suitable TCET candidates quarterly. If a suitable nomination is not selected in the first review, it will be automatically considered in the subsequent quarter. Manufacturers will not need to resubmit to be considered in a subsequent quarter. Since TCET is forward-looking and extensive pre-market engagement is essential, nominations for Breakthrough Devices anticipated to receive an FDA decision on market authorization within 6 months may not be accepted since CMS will be unable to reach a final NCD within the expedited timeframes. It is possible that a nominated device that is not accepted in a first review may be accepted during a subsequent review even though FDA's decision on market authorization is anticipated within 6 months. If this occurs, CMS will work with the manufacturer to expedite the review as practically achievable.

CMS may contact the manufacturer to request supplemental information to ensure a timely review of the nomination. Once CMS decides to provisionally accept or decline a nomination, CMS will communicate their decision to the manufacturer by email with their designated point of contacts. Acceptance into TCET should not be viewed as a final determination that a device fits within a benefit category. When CMS issues the proposed NCD for a Breakthrough Device that has received FDA marketing authorization, the proposed NCD will include one or more benefit categories to which CMS has determined the Breakthrough Device falls. CMS will review and consider public comment on the proposed NCD before reaching a final determination on the BCD(s).

#### d. Intake Meeting

Following the submission of a complete TCET nomination, CMS will offer an initial meeting with the manufacturer to review the nomination within 20 business days of receipt of a complete nomination. In this initial meeting, the manufacturer is expected to describe the device, its intended application, place of service, a highlevel summary of the evidence supporting its use, and the anticipated timeframe for FDA review. CMS will answer any questions about the TCET process. CMS intends for these meetings to be held remotely to reduce travel burden on manufacturers and expeditiously meet these timeframes. These meetings will have a duration of 30 minutes. If a manufacturer declines to meet or if there is difficulty finding a mutually convenient time for the meeting, then CMS action on the nomination may be delayed.

#### e. Coordination With FDA

After CMS initiates review of a complete, formal nomination, representatives from CMS will meet with their counterparts at FDA to learn more information about the technology in the nomination to the extent the Agencies have not already done so. These discussions may help CMS gain a better understanding of the device and potential FDA review timing.

As noted in the Memorandum of Understanding 28 between FDA and CMS, FDA and CMS recognize that the following types of information transmitted between them in any medium and from any source must be protected from unauthorized disclosure: (1) trade secret and other confidential commercial information that would be protected from public disclosure pursuant to Exemption 4 of the Freedom of Information Act (FOIA); (2) personal privacy information, such as the information that would be protected from public disclosure pursuant to Exemption 6 or 7(c) of the FOIA; or (3) information that is otherwise protected from public disclosure by Federal statutes and their implementing regulations (for example, the Trade Secrets Act (18 U.S.C. 1905), the Privacy Act (5 U.S.C. 552a), the Freedom of Information Act (5 U.S.C. 552), the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 301 et seq.), and the Health Insurance Portability and Accountability Act (HIPAA), Pub. L. 104-191).

#### f. Benefit Category Review

Following discussions with FDA, CMS may initiate a benefit category review if all other pathway criteria have been met. Emerging devices may fit within a Medicare benefit category, but that does not mean all medical devices will fall within a benefit category. If CMS believes that the device, before a decision on market authorization by FDA, is likely to be payable through one or more benefit categories, the device may be accepted into the TCET pathway. This is an interim step that is subject to change upon FDA's decision regarding market authorization of the device. Acceptance into TCET should not be viewed as a final determination that a device fits within a benefit category. However, if it appears that a device, before a decision on market authorization by FDA, will not fall under an existing benefit category, the TCET nomination will be denied, and the rationale will be discussed in the denial letter. CMS will likely not assess every submitted application for a benefit category review, as the TCET pathway is limited in size per the discussion in section I.G. of this Addendum.

#### g. Manufacturer Notification

As noted previously, upon completion of CMS' review of the nomination, including the initial meeting with the manufacturer, discussions with FDA, and benefit category determination, CMS will notify the manufacturer by email whether the product has been accepted into the TCET pathway. In instances where CMS does not accept a nomination, CMS will offer a virtual meeting with the manufacturer to answer any questions and discuss other potential coverage pathways.

#### h. Evidence Preview (EP)

Following acceptance into the TCET pathway, CMS will initiate an Evidence Preview, which is a systematic literature review that would provide early feedback on the strengths and weaknesses of the publicly available evidence for a specific item or service. The EP will be a focused, but not necessarily exhaustive, review that will help CMS to identify any material evidence shortfalls. We believe the review conducted for the Evidence Preview will offer greater predictability and transparency to manufacturers and CMS on the state of the evidence and any notable evidence gaps for coverage purposes. It is intended to efficiently inform judgments by CMS and manufacturers about the best available coverage options for an item or service.

CMS intends for the EP to be supported by a contractor using established rigorous review criteria that were developed in collaboration with AHRQ, have undergone detailed testing during the past year, and are reflected in the CMS NCA Evidence Review guidance. The contractor's role is to conduct a rapid systematic literature review and summarize the evidence based on a modified GRADE methodology. The contractor supports and accelerates CMS reviews, but CMS performs extensive quality assurance on contracted reviews, independently contributes substantial portions of the EP, and ultimately determines appropriate coverage policy. To initiate an EP, CMS will request written permission from the manufacturer to share any confidential commercial information (CCI) included in the nomination submission with the contractor. CMS anticipates that the EP will take approximately 12 weeks to complete once the review is initiated, following acknowledgment of an accepted nomination in the TCET pathway. More time may be needed to complete the review in the event the product is novel, has conflicting evidence, or other unanticipated issues arise.

#### i. Evidence Preview Meeting

CMS will share the EP with the manufacturer via email and will offer a meeting to discuss it. The EP will have been previously shared with AHRQ and may also be shared with FDA to obtain their feedback, as relevant.

Representatives from those Agencies may participate in the EP meeting at their discretion. Manufacturers will have an opportunity to propose corrections to any errors, contribute supplemental materials, and raise any important concerns with the EP before it is finalized.

CMS will review the manufacturer feedback on the EP and work with our contractor to revise the draft, as appropriate, prior to finalization. Upon finalizing the EP, manufacturers may request a meeting to discuss the strengths and weaknesses of the evidence and discuss the available coverage pathways (examples include an NCD, which could include CED, or seeking coverage decisions made by a MAC). These meetings to discuss the EP may be conducted virtually or in person and will be scheduled for 60 minutes. If an NCD is opened, an evidence summary, including a disclosure of which contractor completed the review, will be posted with the tracking sheet on the CMS website for public comment.

 $<sup>^{28}\,</sup>https://www.fda.gov/about-fda/domestic-mous/mou-225-10-0010.$ 

There will be no publicly posted tracking sheet for manufacturers who withdraw from the TCET pathway after the completion of an EP. While CMS believes the EP will be a fair reflection of the strength of evidence available at that time to support Medicare coverage, CMS acknowledges that manufacturers may withdraw from the TCET pathway for reasons unrelated to the strength of evidence. Since the development of an EP review represents a substantial investment of public resources in a thorough evidence review for premarket devices, CMS will publicly post a summary of the evidence. This summary will not include an evidence gap assessment.

#### j. Manufacturer's Decision To Continue or Discontinue With the TCET Pathway

Upon finalization of the EP, the manufacturer may decide to pursue national coverage under the TCET pathway or to withdraw from the pathway. If the manufacturer decides to continue, the next step will include submitting a formal NCD request cover letter expressing the manufacturer's desire for CMS to open a TCET NCD analysis. Most, if not all, of the information needed to begin the TCET NCD would be included in the initial TCET pathway nomination and the EP. However, CMS invites the manufacturer to submit any additional materials the manufacturer believes would support the TCET NCD request.

#### k. Evidence Development Plan (EDP)

If CMS and/or AHRQ identifies evidence gaps during the EP, the manufacturer should also submit an evidence development plan (EDP) to CMS that sufficiently addresses the evidence gaps identified in the EP. The EDP should be submitted to CMS simultaneously with the formal NCD request cover letter. The EDP may include fit-for-purpose (FFP) study designs including traditional clinical study designs and those that rely on secondary use of real-world data, provided that those study designs follow all applicable CMS guidance documents. Additional information can be found here: https://www.cms.gov/ Medicare/Coverage/Determination Process/Medicare-Coverage-Guidance-

An FFP study is one where the study design, analysis plan, and study data are appropriate for the question the study aims to answer. FFP study designs, which include traditional clinical study designs as well as those that rely on secondary use of real-world data, align sample size, duration, study type, analytic methods, etc., based on the

utilization and risk profile of the item or service. We believe that permitting FFP study designs will be less burdensome for manufacturers and address the public's concerns that CED should be time-limited to facilitate the timely generation of evidence that can inform patient and clinician decision making and lead to predictable Medicare coverage.

Postmarket FFP study proposals, particularly those that rely on real world data, have the potential to generate evidence that complements tightly controlled premarket traditional clinical trials by demonstrating external validity. Nonetheless, manufacturers should be aware that these studies require considerable planning in data validation, linkage, and transformation; specification of the study protocol and documentation of any changes; data analysis; and reporting. The study design, patient inclusion criteria, primary and secondary endpoints, treatment setting, analytic approaches, timing of outcome assessment, and data sources should be fully pre-specified in the submitted protocol. CMS notes that though FFP studies that use real-world data may be less burdensome in terms of data collection, they may take more time to complete due to lags in the availability of administrative claims needed for the analysis. When writing EDPs, manufacturers should propose clinically meaningful benchmarks for each study outcome and provide supporting evidence. FFP studies addressing specific evidence deficiencies identified in the EP may be proposed as part of a broader EDP.

Manufacturers should incorporate a continued access study into their EDP to maintain market access between the completion of the primary EDP, the refresh of the evidence review, and the finalization of a decision regarding post-TCET coverage. The continued access study may rely on a claims analysis, focusing on device utilization, geographic variations in care, and access disparities for traditionally underserved populations.

### l. EDP Submission Timing

Because of the tight timeframes needed to effectuate CMS' goal of finalizing a TCET NCD within 6 months after FDA market authorization, manufacturers are strongly encouraged to begin developing a rigorous proposed EDP as soon as possible after receiving the finalized EP. To meet the goal of having a finalized EDP within approximately 90 business days after FDA market authorization, the manufacturer is encouraged to submit

an EDP to CMS as soon as possible after FDA market authorization.

m. EDP Meeting and Finalization of the EDP

Once CMS receives the EDP from the manufacturer, CMS will have 30 business days to review the proposed EDP and provide written feedback to the manufacturer. During this time, CMS will collaborate with AHRQ to evaluate the EDP to ensure that it addresses the material evidence gaps identified in the EP and meets established standards of scientific integrity and relevance to the Medicare population. CMS will incorporate AHRQ's feedback on the EDP and will email the consolidated feedback to the manufacturer. Soon after providing written feedback, CMS will schedule a meeting with the manufacturer, which may also include AHRQ, to discuss any recommended refinements and address any questions.

In the EDP meetings, the manufacturer should be prepared to demonstrate: (1) a compelling rationale for its evidence development plan; (2) the study design, analysis plan, and data for any CED studies are all fit for purpose; and (3) any CED studies sufficiently addresses threats to internal validity. The EDP should include clear enrollment, follow-up, study completion dates for included studies, and the timing and content of scheduled updates to CMS on study progress. For FFP studies with expected completion timeframes longer than 5 years, EDPs should incorporate interim reporting to ensure adequate progress and timely completion. Interim reports should also disclose any meaningful changes to prespecified study protocols, which are essential to transparency. Manufacturers should present and justify their study outcomes and performance benchmarks.

Following the EDP meeting, the manufacturer and CMS will have another 60 business days to make any adjustments to the EDP. We recognize that, in some instances, manufacturers may require additional time to develop and refine their EDP. In these instances, CMS may provide additional time to manufacturers, but we note that delays in submitting and revising an EDP may substantially impact the overall timeline for providing coverage under the TCET pathway. Elements of the CMS and AHRQ approved EDPs, specifically the non-proprietary information, will be made publicly available on the CMS website upon posting of the proposed TCET NCD. In addition, the anticipated CED NCD reconsideration window will also be posted. The forthcoming FFP guidance will provide information on the level of detail necessary to establish

that a proposed study is fit for purpose; while manufacturers should demonstrate all these elements to establish the scientific validity of a proposed study, not all details need to be public.

In instances where the manufacturer's EDP is insufficient to meet CMS' and AHRQ's established standards and cannot be approved, CMS may exercise its option to withdraw acceptance into the TCET pathway as noted in section I.B. of this Addendum. We anticipate this will be a rare occurrence as CMS will make every effort to provide flexibility and information to manufacturers to facilitate the development of EDPs.

### 2. Coverage Under the TCET Pathway

CMS follows applicable statutory requirements when developing coverage policy at the national level, which includes an open and transparent process. Though some elements of coverage review can be accelerated, gathering and reviewing meaningful public comment takes time. When CMS undertakes an NCD, we draw upon our analysis of the available evidence to identify the specific beneficiaries and conditions of coverage that are appropriate for the item or service. CMS also strongly considers information from patient advocacy organizations, specialty society guidance, expert consensus and recommendations for beneficiary selection, provider training and certification requirements, and facility requirements.

#### a. CMS NCD Review and Timing

If a device that is accepted into the TCET pathway receives FDA market authorization, CMS will initiate the NCD process by posting a tracking sheet following FDA market authorization (that is, the date the device receives PMA approval; 510(k) clearance; or the granting of a De Novo request) pending a CMS and AHRQ-approved Evidence Development Plan (in cases where there are evidence gaps as identified in the Evidence Preview). The manufacturer may also withdraw from the TCET pathway at this stage in the process, in which case CMS would not proceed with the NCD review described in this section. As previously noted, the goal is to have a finalized EDP no later than 90 business days after FDA market authorization.

The process for Medicare coverage under the TCET pathway would follow the NCD statutory timeframes in section 1862(l) of the Act. CMS would start the process by posting a tracking sheet and an evidence summary from the finalized Evidence Preview, specifically the non-

proprietary information, which would initiate a 30-day public comment period. Following further CMS review and analysis of public comments, CMS would issue a proposed TCET NCD and EDP within 6 months of opening the NCD. There would be a 30-day public comment period on the proposed TCET NCD and EDP, and a final TCET NCD would be due within 90 days of the release of the proposed TCET NCD. Our goal is to release the proposed and final NCD before the statutory deadline that applies to all NCDs. More information on the NCD process is outlined in the August 7, 2013 Federal Register notice (78 FR 48164).

#### b. Request for Specific Input on the Evidence Base and Conditions of Coverage

Since the evidence base for these emerging technologies will likely be incomplete and practice standards not yet established, we believe that feedback from the relevant specialty societies and patient advocacy organizations, in particular, their expert input and recommended conditions of coverage (with special attention to appropriate beneficiary safeguards), is especially important for technologies covered through the TCET pathway.

Upon opening an NCD analysis, CMS strongly encourages these organizations to provide specific feedback on the state of the evidence and their suggested approaches to best practices for the emerging technologies under review. While CMS prefers to have this information during the initial public comment period upon opening the NCD, we realize that in many cases, it may take longer for these organizations to provide their collective perspectives to CMS since these technologies will have only recently received FDA market authorization. Since CMS may consider any information provided in the public domain while undertaking an NCD, CMS encourages these organizations to publicly post any additional feedback, including relevant practice guidelines, within 90 days of CMS' opening of the NCD. These organizations are encouraged to notify CMS when recommendations have been posted. All information considered by CMS to develop the proposed TCET NCD will become part of the NCD record and will be reflected in the bibliography as is typical for NCDs.

#### c. Coverage of Similar Devices

FDA market-authorized Breakthrough Devices are often followed by similar devices that other manufacturers develop. We believe that it is important to let physicians and their patients make decisions about the best available treatment, depending upon each patient's situation. NCDs are limited to particular items or services but it is possible that more than one device could fall under the same NCD because it addresses the same indication. We recognize that some differences may exist for technologies in a class that may result in a distinct benefit/risk profile, and each will be evaluated on its own merit.

In these instances, CMS will follow the existing NCD process detailed in section 1862(l) of the Act.

# d. Duration of Coverage Under the TCET Pathway

The duration of transitional coverage through the TCET pathway will be tied to the CMS- and AHRQ-approved EDP. CMS expects that TCET CED studies will be listed on the clinicaltrials.gov website, and a summary of the EDPs as well as the anticipated CED NCD reconsideration window will be posted on the CMS website so the public can stay informed throughout the process. The review date specified in the EDP will provide 1 additional year after study completion to allow manufacturers to complete their analysis, draft one or more reports, and submit them for peer-reviewed publication. Given the short timeframes in the TCET pathway, an unpublished publication draft that a journal has accepted may also be acceptable. CMS will consider the minimum period of transitional coverage necessary to address the evidence gaps identified in the EP. In general, we anticipate this transitional coverage period may last for 5 or more years as evidence is generated to address evidence gaps. However, CMS retains the right to reconsider an NCD at any point in time.

#### 3. Transition to Post-TCET Coverage

TCET provides time-limited coverage for devices with the potential to deliver improved outcomes to the Medicare population but do not yet meet the reasonable and necessary standard for coverage under section 1862(a)(1)(A) of the Act. Consequently, TCET coverage is conditioned on further evidence development as agreed in a CMS- and AHRQ-approved EDP.

#### a. Updated Evidence Review

CMS intends to initiate an updated evidence review within 6 calendar months of the review date specified in the EDP. CMS intends to engage a third-party contractor to conduct a systematic literature review using detailed requirements that CMS developed in collaboration with AHRQ. The

contractor will then perform a qualitative evidence synthesis and compare those findings against the benchmarks for each outcome specified in the original NCD. After conducting quality assurance on the contractor review, CMS will assess whether the evidence is sufficient to reach the reasonable and necessary standard. CMS will also review applicable practice guidelines and consensus statements and consider whether the conditions of coverage remain appropriate. CMS will collaborate with AHRQ and FDA as appropriate as the updated Evidence

Review is conducted and will share the updated review with them.

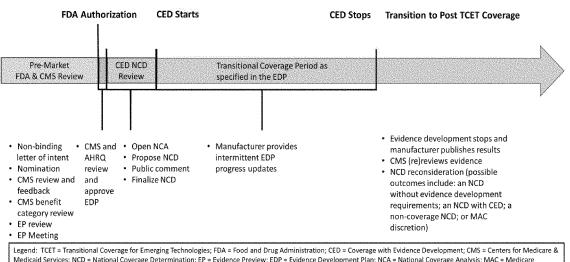
#### b. NCD Reconsideration

Based upon the updated evidence review and consideration of any applicable practice guidelines, CMS, when appropriate, will open an NCD reconsideration by posting a proposed decision that proposes one of the following outcomes: (1) an NCD without evidence development requirements; (2) an NCD with continued evidence development requirements; (3) a noncoverage NCD; or (4) permitting local

MAC discretion under section 1862(a)(1)(A) of the Act. Neither an FDA market authorization nor a CMS approval of an Evidence Development Plan guarantees a favorable coverage decision. Standard NCD processes and timelines will continue to apply, and following a 30-day public comment period, CMS will have 60 days to finalize the NCD reconsideration.

The steps previously described for the TCET process and for obtaining a CMS coverage determination are illustrated in the diagram:

### TCET Pathway



Medicaid Services; NCD = National Coverage Determination; EP = Evidence Preview; EDP = Evidence Development Plan; NCA = National Coverage Analysis; MAC = Medicare

#### E. Roles

CMS has outlined the general roles of each participant in the TCET pathway.

#### 1. Manufacturer

The manufacturer may voluntarily choose to email a non-binding letter of intent to CMS to express intent to nominate a device for the TCET pathway. The manufacturer initiates formal consideration for TCET by voluntarily submitting a complete nomination as outlined previously under "1. b. Nominations for the TCET Pathway," of section I.D. of this Addendum titled "Procedures for the TCET Pathway." In the interest of expediting CMS decision making, the manufacturer should be prepared to quickly and completely respond to all issues and requests for information raised by the CMS reviewers. If CMS does not receive information from

manufacturers in a timely fashion, CMS review timelines will be lengthened, potentially significantly. Manufacturers are encouraged to submit any materials they plan to present during meetings with CMS at least 7 days in advance of the scheduled meeting. Manufacturers should be prepared with the resources and skills to successfully develop, conduct, and complete the studies included in the EDP.

CMS will provide a secure and confidential nomination and review process as outlined previously in section I.D. of this Addendum. CMS will initiate review of nominations for the TCET pathway by retrieving applications from the secure mailbox and communicating with FDA regarding Breakthrough Devices seeking coverage under the TCET pathway. CMS will also oversee the work of the contractor

conducting evidence reviews and will perform extensive quality assurance on contracted reviews, independently contribute substantial portions of the EP, and ultimately determine appropriate coverage policy. Along with AHRO, CMS will review and make decisions regarding EDPs. Throughout all stages of the TCET pathway, CMS intends to maintain open communication channels with FDA, AHRO, and the relevant manufacturer and fulfill its statutory obligations concerning the NCD process.

#### 3. FDA

FDA will keep open lines of communication with CMS on Breakthrough Devices seeking coverage under the TCET pathway as resources permit. Participation in the TCET pathway does not change the review standards for FDA market authorization of a device, which are separate and

distinct from the standards governing a CMS NCD.

#### 4. AHRO

Currently, AHRQ reviews all CED NCDs established under section 1862(a)(1)(E) of the Act. Consistent with section 1142 of the Act, AHRQ collaborates with CMS to define standards for clinical research studies to address the CED questions and meet the general standards for CED studies (https://www.cms.gov/Medicare/ Coverage/Coverage-with-Evidence-Development). Since we anticipate that many NCDs conducted under the TCET pathway will result in CED decisions, AHRQ will continue to review all CED NCDs to ensure they are consistent with current practice. Additionally, AHRQ will collaborate with CMS as appropriate, to evaluate the EP and EDP and will have opportunities to offer feedback throughout the process that will be shared with manufacturers. AHRQ will partner with CMS as the Evidence Preview and EDP are being developed, and approvals for these

documents will be a joint CMS-AHRQ decision.

#### F. TCET and Parallel Review

While the TCET pathway will be limited to Breakthrough Devices, other potential expedited coverage mechanisms, such as Parallel Review, remain available. Eligibility for the Parallel Review program is broader than for the TCET pathway and could facilitate expedited CMS review of non-Breakthrough Devices. To achieve greater efficiency and to simplify the coverage process generally, CMS intends to work with FDA to consider updates to the Parallel Review program and other initiatives to align procedures, as appropriate.

### G. Prioritizing Requests

CMS intends to review TCET pathway nominations on a quarterly basis. CMS anticipates accepting up to five TCET candidates annually based on current resources. Any follow-on devices in the TCET pathway will not count toward CMS' annual limit. To provide greater transparency, consistency, and

predictability, we intend to release proposed prioritization factors in the near future. The public will have an opportunity to provide comment on CMS' proposed prioritization factors. In the interim, CMS intends to prioritize innovative medical devices that, as determined by CMS, have the potential to benefit the greatest number of individuals with Medicare.

#### H. TCET Transparency

While CMS will not divulge the identity of specific manufacturers or devices in the TCET pathway prior to the opening of an NCD, we believe it is important to provide transparency regarding the devices accepted into the pathway. Specifically, CMS will include information such as the number of devices in the TCET pathway, the date of nomination, the date of acceptance, and the date the NCD process is initiated into future iterations of the NCD Dashboard. We intend to update the NCD Dashboard quarterly.

[FR Doc. 2024–17603 Filed 8–7–24; 4:15 pm]

BILLING CODE 4120-01-P