

Coverage and payment implications for breakthrough medical devices following Transitional Coverage of Emerging Technologies (TCET)

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Background

Recently, CMS issued a procedural notice outlining a Medicare coverage pathway to achieve a timely and predictable access for new medical technologies called TCET. The aim of TCET is the provide manufactures with breakthrough medical device designation a clear, transparent, and consistent coverage process for the Medicare population in the US. TCET outlines a pathway that allows manufacturers to engage early with FDA and CMS, that provides guidance on an evidence generation strategy to meet CMS’ criteria for expedited coverage. CMS will work with manufacturers to ensure that evidence development under TCET does not require duplicative or conflicting evidence development with any FDA post-marketing requirements.

In addition to TCET, there are other pathways available to device manufacturers that may be considered in parallel to or instead of TCET. The objectives of this study were to: 1) Describe the TCET pathway in the US and considerations for devices granted Breakthrough Device Designation (BDD) and 2) Provide considerations for prioritizing pathways other than TCET.

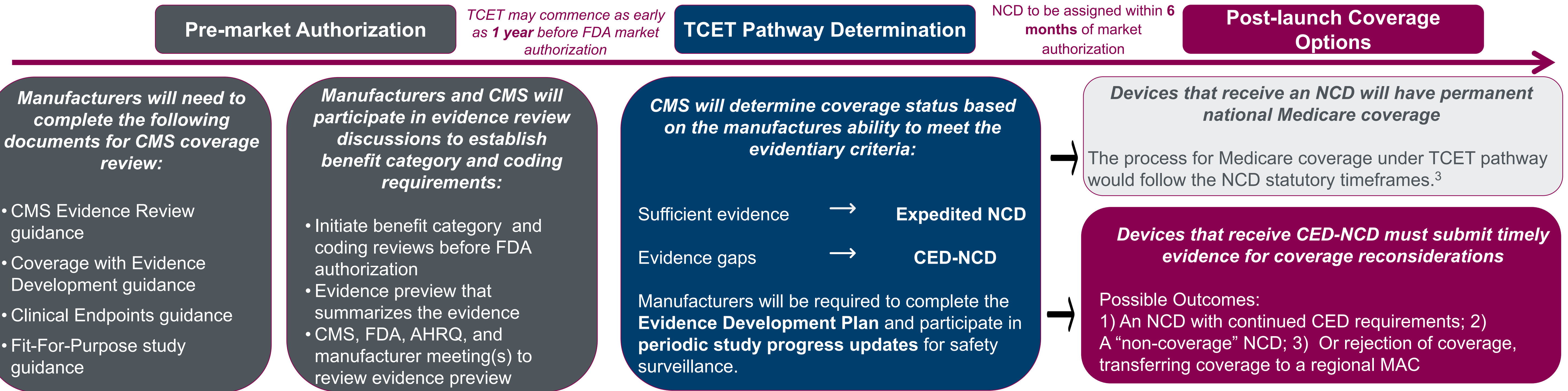
Methods

CMS 2023 procedural notice, guidance documents, and public comments on the proposed TCET pathway were analyzed. Final rules published from 2013-2023 on all Medicare device payment and coverage pathways were identified via CMS, MedPAC, and the Federal Register sources.²⁻⁶ Finally, eligibility criteria, expected timelines, pros, cons, risks and opportunities across each of the pathways were assessed as possible alternatives once TCET is implemented.

Results

The TCET pathway is divided into three distinct stages including 1) pre-market authorization, 2) pathway determination, and 3) post-launch coverage options. Once the FDA approves a device, the manufacturer submits an evidence preview and evidence development plan (EDP) with CMS-approved "fit for purpose" study designs. CMS then initiates a NCD process with a goal of completing it within six months. The TCET NCD is active for the necessary duration of evidence collection, which CMS estimates will take 3-5 years, compared to a standard NCD that can take more than 10 years. In addition to the TCET pathway, we found three coverage (NCD, NCD-CED, LCD) and two (NTAP and TPT) payment pathways as possible alternatives to TCET. Timelines, eligibility criteria, pros and cons, and risk profiles varied across pathways as shown in the table below.

Translational Coverage for Emerging Technologies Voluntary Pathway



Alternative Emerging Medical Device Payment and Coverage Pathways and Considerations for Device Manufactures in the Medicare Population /

	Background	Eligibility	Timelines	Pros	Cons	Risks	
Coverage	Translational Coverage for Emerging Technologies ¹	New potential expedited coverage pathway provided by CMS	Medical devices with breakthrough designation (no prior NCD)	Takes between 1-2 years for coverage determination	Provides a potentially expedited coverage pathway for breakthrough devices	Requires an extensive pre- or post-launch evidence package for NCD	Short term risk: CED designation would lead to limited coverage
	Coverage with Evidence Development ²	Coverage determination provided by CMS only in the context of ongoing clinical research or with additional data	Medical devices with evidence that CMS deems insufficient for full coverage and requests additional confirmatory data	Varies; typically, 5-7 years	Devices that may not meet the NCD coverage evidence threshold, may still obtain coverage	Can be a lengthy process with complex requirements, data collection periods are unpredictable/extensive and often lengthy (8 years on average) Generating the level of evidence for a positive NCD can take a significant amount of time and negative NCDs may be extremely difficult to rescind	Following re-evaluation, coverage may be delegated to local Medicare Administrative Contractors (MACs) and may lead to coverage variability
	National Coverage Determination ³	Coverage determination provided by CMS that grants, limits, or excludes Medicare coverage nationally	Medical devices that meet CMS' evidentiary and 'reasonable and necessary' threshold for coverage	Can take 10 years or more to establish sufficient level of evidence for positive coverage determination	Provides consistent coverage nationally		CMS may deem the evidence to be insufficient and therefore may issue a negative NCD
	Local Coverage Determination ⁴	Coverage determination developed by Medicare Administrative Contractors (MACs) at the local level that grants, limits, or excludes Medicare coverage	Medical devices that meet the 'reasonable and necessary' threshold for coverage according to local MACs	Varies; typically, months to years	Allows for regional coverage even if the device is not covered nationally	May result in inconsistent, limited, or no coverage	LCDs may result in no coverage, potentially resulting from a scenario where the MAC was implicitly covering the device/procedure but is no longer doing so following new coverage determination
Payment	New Technology-Add on Payment ⁵	Payment mechanism used by CMS to provide additional reimbursement for certain qualifying new and innovative medical technologies/procedures	Applies to new (and/or technologies that demonstrate substantial clinical improvement compares to existing therapies) and costly technologies only in the inpatient setting	1 year between application deadline and effective payment status	Provides additional payment for eligible technologies	Does not cover the full price of the device	Uncertainty regarding long-term payment following DRG re-engineering
	Translational Passthrough Payment ⁶	Available for new technologies with evidence of clinical improvement compared to SOC, and cost not insignificant relative to total procedure cost	Applies to FDA approved devices in the outpatient setting that meet the newness criterion (FDA approval or clearance is within 3 years of application date)	Earliest effective date for payment is 5 months following TPP application	Facilitates access to new and innovative devices/drugs (in the outpatient setting) to drive utilization for these treatments that tend to be higher-cost	May not fully support the price of a device	Uncertainty regarding long-term reimbursement

Conclusion

If finalized, TCET will provide an additional pathway for securing separate payment for devices that can demonstrate substantial clinical improvement over the current standard of care. These pathways vary in terms of eligibility criteria, payment levels, and coverage timelines. As such, manufactures will need to conduct a benefit-risk assessment of choosing between TCET and other alternative pathways depending on the available evidence and long-term market access goals.

REFERENCES: 1: TCET bill, Federal Register - Medicare Program: Transitional Coverage for Emerging Technologies; 2: Coverage with Evidence Development, Medicare Coverage Document - Guidance for the Public, Industry, and CMS Staff; Coverage with Evidence Development; 3: National Coverage Determination, Medicare Coverage Determination Process, LCHS; 4: Local Coverage Determination, CMS; 5: New Technology-Add on Payment, Hospital Acute Inpatient Services Payment System (medpac.gov); 6: Transitional Passthrough Payment, 42 CFR § 419.66 - Transitional pass-through payments: Medical devices | Electronic Code of Federal Regulations (eCFR) | US Law | LII / Legal Information Institute (cornell.edu)