

## **MP.024.MPC - Continuous Passive Motion (CPM) Devices**

Maryland Physicians Care considers **Continuous Passive Motion (CPM) Devices** medically necessary in the early post-operative period following total knee replacements (TKRs) or revisions of TKR when ALL of the following criteria are met:

1. Must be initiated within two days post operatively for a period of no longer than 21 days (three weeks).
2. Can be used alone or in coordination with other forms of physical therapy (PT).
3. Must be recommended by an orthopedic specialist following surgery. The orthopedic specialist determines the speed, duration of usage, amount of motion, and the rate of increase of motion.

### **Limitations**

1. Use of device must commence within two days following surgery and is limited to the three-week period following surgery because there is insufficient evidence to justify coverage of these devices for longer periods of time or for other applications.
2. Not prescribed for members with low back pain.
3. Coverage is only for rental equipment.
4. Use of CPM anywhere else other than the knee is considered experimental and investigational, and will therefore not be covered.

### **Background**

In instances where knee arthritis is severe, total knee replacement surgery may be considered. The Agency for Healthcare Research and Quality (AHRQ) estimates that more than 600,000 knee replacements are performed annually in the United States.

CPM devices are durable medical equipment (DME) devices used as a treatment modality in which joint motion is provided without causing active contraction of muscle groups and with the goal of maintaining or restoring range of motion (ROM) to the joint. CPMs are used early in the healing process as passive motion can provide movement of the synovial fluid and thus promote lubrication of the joint, stimulate the healing of articular tissues, prevent adhesions and joint stiffness, and reduce edema, without interfering with the healing of incisions or wounds over the moving joint. CPM devices allow increased duration of therapy and can be performed in a controlled, defined way.

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### Codes:

CPT Codes / HCPCS Codes / ICD-10 Codes	
Code	Description
E0935	Continuous passive motion device for use on the knee only
<b>ICD-10 codes covered if selection criteria are met:</b>	
Z96.651-Z96.659	Presence of artificial knee joint

### References

1. Centers for Medicare and Medicaid Services (CMS). National Coverage Determination (NCD) No. 280.1 - Durable Medical Equipment Reference List. Effective Date: 05/05/2005. <http://www.cms.gov/medicare-coverage-database/details/ncd-details.aspx?NCDId=190&ncdver=2&NCAId=3&ver=5&NcaName=Air-Fluidized+Beds+for+Pressure+Ulcers&bc=ACAAAAAAIAAA&>
2. Harvey LA, Brosseau L, Herbert RD. Continuous passive motion following total knee arthroplasty in people with arthritis. Cochrane Database Syst Rev. 2014 Feb 6;2:CD004260. doi: 10.1002/14651858.CD004260.pub3. <http://onlinelibrary.wiley.com/doi/10.1002/14651858.CD004260.pub3/pdf>
3. Hayes Medical Technology Directory. Continuous Passive Motion for Knee Indications: A Review of Reviews. Annual Review: June 16, 2020
4. He ML, Xiao ZM, Lei M, et al. Continuous passive motion for preventing venous thromboembolism after total knee arthroplasty. Cochrane Database Syst Rev. 2014 Jul 29;7:CD008207. doi: 10.1002/14651858.CD008207.pub3. [update of 2012 review]. <https://www.ncbi.nlm.nih.gov/pubmed/22258981>
5. Hill AD, Palmer MJ, Tanner SL, et al. Use of Continuous Passive Motion in the Postoperative Treatment of Intra-Articular Knee Fractures. J Bone Joint Surg Am. 2014 Jul 16;96(14):e118. [Epub ahead of print]. <https://pubmed.ncbi.nlm.nih.gov/25031380/>
6. Lenssen TAF, van Steyn MJA, Crijns YHF, et al. Effectiveness of prolonged use of continuous passive motion (CPM), as an adjunct to physiotherapy, after total knee arthroplasty. BMC Musculoskelet Disord 2008 Apr 29, 9:60. (ISRCTN8575956). <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2386789/pdf/1471-2474-9-60.pdf>
7. Medicare Coverage Issues Manual; NCD Transmittal 161, November 8, 2002; Implementation and Effective Date 4/1/2003. <http://www.cms.gov/Regulations-and-Guidance/Guidance/Transmittals/downloads/R161CIM.pdf>
8. Wright, RW, Preston, E, Fleming, BC et al. ACL Reconstruction Rehabilitation: A Systemic Review Part I. Knee Surgery. July 2008; 21(3): 217-224. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3692363/#R8>

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