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RMHP Surface mechanomyography (sMMG)

MCG Health
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[Link to Codes](#)

- [Clinical Indications for Procedure](#)
- [Evidence Summary](#)
- [Description](#)
- [References](#)
- [Policy History](#)
- [Codes](#)

Clinical Indications for Procedure

[Return to top of RMHP Surface mechanomyography \(sMMG\) - AC](#)

For **ALL plans**, Surface mechanomyography (sMMG) is unproven and not medically necessary due to insufficient evidence of efficacy.

- Current role remains uncertain. Based on review of existing evidence, there are currently no clinical indications for this technology. See Inappropriate Uses for more detailed analysis of the evidence base.

Evidence Summary

[Return to top of RMHP Surface mechanomyography \(sMMG\) - AC](#)

Inappropriate Uses

Surface mechanomyography (sMMG) - There are few published studies addressing the use of surface mechanomyography with concurrent application of inertial measurement unit (IMU) sensors for measurement of multi-joint range of motion, posture, gait, and muscle function. Therefore, it is not possible to conclude whether this surface mechanomyography musculoskeletal assessment system has a beneficial effect on health outcomes.

Description

[Return to top of RMHP Surface mechanomyography \(sMMG\) - AC](#)

Surface mechanomyography (sMMG) uses wearable sensor devices that can be applied across a muscle group to provide a measurement of physical muscle output during a contraction. sMMG is thought to be the mechanical counterpart of sEMG which measure the electrical activity. Recent technologies include Surface sMMG with concurrent application of inertial measurement unit (IMU) sensors for measurement of multi-joint range of motion, posture, gait, and muscle function. One novel sMMG technology,

Figure8 is intended to allow the clinician to pinpoint the source of injury and quantify the progression of musculoskeletal health recovery after injury.

References

[Return to top of RMHP Surface mechanomyography \(sMMG\) - AC](#)

UnitedHealthcare Commercial Medical Policy Neurophysiologic Testing and Monitoring Policy Number: 2023T0493BB Effective Date: March 1, 2023

<https://www.uhcprovider.com/content/dam/provider/docs/public/policies/comm-medical-drug/neurophysiologic-testing.pdf>

Novitas Solutions - Medicare Physician Fee Schedule guidance, status C indicator - carrier makes determination.

CMS Medicare Coverage Database - no LCD/NCD exists, carrier makes determination.

Colorado Department of Health Care Policy and Financing guidance, effective 1/1/2023, reviewed 3/4/2023

Policy History

[Return to top of RMHP Surface mechanomyography \(sMMG\) - AC](#)

Created 3/4/2023 for new CPT 0778T effective 1/1/2023. 2023 committee review with approval.

Codes

[Return to top of RMHP Surface mechanomyography \(sMMG\) - AC](#)

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