

Policy Name:	Three Dimensional (3-D) Printed Anatomic Modeling for Surgical Planning
Effective Date:	4/18/2022

Important Information – Please Read Before Using This Policy

These services may or may not be covered by all Medica plans. Coverage is subject to requirements in applicable federal or state laws. Please refer to the member’s plan document for other specific coverage information. If there is a difference between this general information and the member’s plan document, the member’s plan document will be used to determine coverage. With respect to Medicare, Medicaid, and other government programs, this policy will apply unless these programs require different coverage. Members may contact Medica Customer Service at the phone number listed on their member identification card to discuss their benefits more specifically. Providers with questions may call the Medica Provider Service Center toll-free at 1-800-458-5512.

Medica coverage policies are not medical advice. Members should consult with appropriate health care providers to obtain needed medical advice, care, and treatment.

Coverage Policy

Three dimensional (3-D) printed anatomic modeling for surgical planning is considered investigative and unproven and therefore **NOT COVERED**. There is insufficient reliable evidence in the form of high quality peer-reviewed medical literature to establish the efficacy or effects on health care outcomes.

Description

Three dimensional (3-D) printed anatomic modeling, also called additive manufacturing, creates an object from metal, plastic, nylon, or other material by successively building the object layer upon layer, until the entire object is complete. 3-D objects originate from a computer-aided design (CAD) file, which the designer creates using a 3-D modeling program. Computed tomography (CT) or magnetic resonance imaging (MRI) data are used to create patient-specific anatomic models surgeons can use to purportedly more accurately plan the procedure. Healthcare applications have broadened from dental applications into surgical planning applications, such as orthopedics, cardiology, neurology, otolaryngology, urology, regenerative medicine, etc.

FDA Approval

The U.S. FDA considers 3-D printed anatomical models that can aid in the diagnosis, patient management, and/or patient treatment as Class 2 medical devices. The FDA requires that models marketed for diagnostic use be prepared using software that has received FDA clearance. Several companies specialize in this technology for medical purposes. One example is the Materialise Mimics InPrint system, which is FDA cleared for 3-D anatomical models used for diagnostic purposes in the field of orthopedic, maxillofacial and cardiovascular applications.

Prior Authorization

Prior authorization is not applicable. Claims for this service are subject to retrospective review and denial of coverage, as investigative services are not eligible for reimbursement.

Coding Considerations

Use the current applicable CPT/HCPCS code(s). The following codes are included below for informational purposes only, and are subject to change without notice. Inclusion or exclusion of a code does not constitute or imply member coverage or provider reimbursement.

CPT Codes

- **0559T** - Anatomic model 3D-printed from image data set(s); first individually prepared and processed component of an anatomic structure
- **0560T** - Anatomic model 3D-printed from image data set(s); each additional individually prepared and processed component of an anatomic structure (List separately in addition to code for primary procedure)
- **0561T** - Anatomic guide 3D-printed and designed from image data set(s); first anatomic guide
- **0562T** - Anatomic guide 3D-printed and designed from image data set(s); each additional anatomic guide (List separately in addition to code for primary procedure)

Original Effective Date: 4/18/2022

Re-Review Date(s):

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