

Medicare Medical Policy

Fecal Analysis of Gastrointestinal Microbiome

MEDICARE MEDICAL POLICY NUMBER: 373

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INSTRUCTIONS FOR USE: Company Medicare Medical Policies serve as guidance for the administration of plan benefits and do not constitute medical advice nor a guarantee of coverage. Company Medicare Medical Policies are reviewed annually to guide the coverage or non-coverage decision-making process for services or procedures in accordance with member benefit contracts (otherwise known as Evidence of Coverage or EOCs) and Centers of Medicare and Medicaid Services (CMS) policies, manuals, and other CMS rules and regulations. In the absence of a CMS coverage determination or specific regulation for a requested service, item or procedure, Company policy criteria or applicable utilization management vendor criteria may be applied. These are based upon published, peer-reviewed scientific evidence and evidence-based clinical practice guidelines that are available as of the last policy update. Coverage decisions are made on the basis of individualized determinations of medical necessity and the experimental or investigational character of the treatment in the individual case. In cases where medical necessity is not established by policy for specific treatment modalities, evidence not previously considered regarding the efficacy of the modality that is presented shall be given consideration to determine if the policy represents current standards of care.

The Company reserves the right to determine the application of Medicare Medical Policies and make revisions to these policies at any time. Any conflict or variance between the EOC and Company Medical Policy will be resolved in favor of the EOC.

SCOPE: Providence Health Plan, Providence Health Assurance, and Providence Plan Partners as applicable (referred to individually as “Company” and collectively as “Companies”).

PRODUCT AND BENEFIT APPLICATION

Medicare Only

MEDICARE COVERAGE CRITERIA

IMPORTANT NOTE: More than one Centers for Medicare and Medicaid Services (CMS) reference may apply to the same health care service, such as when more than one coverage policy is available (e.g., both an NCD and LCD exist). All references listed should be considered for coverage decision-making. The Company uses the most current version of a Medicare reference available at the time of publication; however, these websites are not maintained by the Company, so Medicare references and their corresponding hyperlinks may change at any time. If there is a conflict between the Company Medicare Medical Policy and CMS guidance, the CMS guidance will govern.

Service	Medicare Guidelines
<i>Fecal Analysis Testing (Panels and Analyte Testing)</i>	Company medical policy for Fecal Analysis of Gastrointestinal Microbiome I. These services are considered not medically necessary for Medicare based on the Company medical policy. <i>See Policy Guidelines below.</i>

IMPORTANT NOTICE: While some services or items may appear medically indicated for an individual, they may also be a direct exclusion of Medicare or the member's benefit plan. Such excluded services or items by Medicare and member EOCs include, but are not limited to, services or procedures considered to be cosmetic, not medical in nature, or those considered not medically reasonable or necessary under *Title XVIII of the Social Security Act, §1862(a)(1)(A)*. If there is uncertainty regarding coverage of a service or item, please review the member EOC or submit a pre-service organization determination request. Note that the Medicare Advance Beneficiary Notice of Noncoverage (ABN) form **cannot** be used for Medicare Advantage members. (*Medicare Advance Written Notices of Non-coverage. MLN006266 May 2021*)

POLICY CROSS REFERENCES

None

The full Company portfolio of Medicare Medical Policies is available online and can be [accessed here](#).

POLICY GUIDELINES

BCKGROUND

The human gastrointestinal (GI) microbiome comprises of a diverse collective of bacteria, archaea, fungi, protozoa, and viruses that may differ based on age, sex, race/ethnicity, diet, and location of the individual.¹ Research has shown that these colonies play vital roles in the health of the host, including energy homeostasis, metabolism, get epithelial health, immunologic activity, and neurobehavioral

development.² Changes in GI microbiome are associated with diseases such as inflammatory bowel disease, asthma, obesity, metabolic syndrome, cardiovascular disease, 3immune.-mediated conditions, and neurodevelopmental conditions. Treatments to correct gut microbiome imbalances are under investigation to prevent and treat a number of associated diseases and syndromes.

Examples of fecal analyte testing include, but may not be limited to, the following analytes:

- Beta-glucuronidase
- Cholesterol
- Fecal secretory IgA
- Total short chain fatty acids
- Long chain fatty acids
- n-Butyrate Concentration
- Commensal bacterial levels (e.g. Lactobacillus, Bifidobacterium, E. coli)
- Triglycerides
- Phospholipids
- N-Butyrate
- Chymotrypsin
- Fecal fats
- Fecal yeasts
- Meat fibers
- Vegetable fibers
- pH

Examples of fecal analysis panels include:

- GI Effects Comprehensive Stool Profile, by Genova Diagnostics
- Comprehensive Digestive Stool Analysis (CDSA), by Genova Diagnostics
- GA-map Dysbiosis Test by BIOHIT Healthcare

NOTE: Some tests are at-home microbiome health tests. These are considered direct-to-consumer (DTC) or over-the-counter (OTC) tests, which are called out as direct member benefit exclusions in member EOCs and will be denied as not a covered benefit. The test manufacturer uBiome is longer operating, and thus, some of these test options (e.g., SmartGut) may no longer be commercially available.

MEDICARE AND MEDICAL NECESSITY

Only medically reasonable and necessary services or items which treat illness or injury are eligible for Medicare coverage, as outlined in *Title XVIII of the Social Security Act, §1862(a)(1)(A)*. Medicare requires diagnostic laboratory tests be ordered by a provider who is treating the member for a specific medical problem **and** who will use the test results in the direct management of that specific medical problem.^{3,4} Thus, diagnostic testing must have established clinical utility and analytic validity.

The Company policy for *PHA Medicare Medical Policy Development and Application* (MP50) provides details regarding Medicare's definition of medical necessity and the hierarchy of Medicare references

and resources during the development of medical policies, as well as the Plan’s use of evidence-based processes for policy development. In the absence of Medicare coverage policies (e.g., manual, national coverage determination [NCD], local coverage determination [LCD], article [LCA], etc.) which addresses the medical necessity of a given medical service, Medicare regulatory guidelines do allow Medicare Advantage Organizations (MAOs) to make their own coverage determinations.

During the MAO review, an evidence-based process must be used. This includes using authoritative evidence, such as studies performed by government agencies (i.e., the FDA), well-designed clinical studies that appeared in peer reviewed journals, and evaluations performed by independent technology assessment groups. (*Medicare Managed Care Manual, Ch. 4, §90.5*)

REGULATORY STATUS

U.S. FOOD & DRUG ADMINISTRATION (FDA)

While clearance by the Food and Drug Administration (FDA) is a prerequisite for Medicare coverage, the 510(k) premarket clearance process does not in itself establish medical necessity. Medicare payment policy is determined by the interaction of numerous requirements, including but not limited to, the availability of a Medicare benefit category and other statutory requirements, coding and pricing guidelines, as well as national and local coverage determinations and clinical evidence.

BILLING GUIDELINES AND CODING

GENERAL

CPT code 82274 should be billed once regardless of the number of specimens required to complete the test. The test should be reported with the date of service reflecting the date the test was completed, even if specimens are collected on different dates.

Please bill the most appropriate unlisted code for GI microbiome fecal analysis panels. If any of the following codes are billed individually as part of a GI panel, this is considered unbundling and the claim will deny as incorrect coding:

For Microbiology Fecal Profiles:

87045	87102	87328
87046	87177	87329
87075	87209	

Comprehensive Fecal Profile:

82274	83520	87177
82542	83993	87209
82653	84311	87328
82656	87045	87329
82715	87046	87336

82725
82784

87075
87102

CODES*		
CPT	81599	Unlisted multianalyte assay with algorithmic analysis
	89240	Unlisted miscellaneous pathology test
HCPCS	None	

***Coding Notes:**

- The code list above is provided as a courtesy and may not be all-inclusive. Inclusion or omission of a code from this policy neither implies nor guarantees reimbursement or coverage. Some codes may not require routine review for medical necessity, but they are subject to provider contracts, as well as member benefits, eligibility and potential utilization audit. According to Medicare, “presence of a payment amount in the MPFS and the Medicare physician fee schedule database (MPFSDB) does not imply that CMS has determined that the service may be covered by Medicare.” The issuance of a CPT or HCPCS code or the provision of a payment or fee amount by Medicare does **not** make a procedure medically reasonable or necessary or a covered benefit by Medicare. (*Medicare Claims Processing Manual, Chapter 23 – Fee Schedule Administration and Coding Requirements, §30 – Services Paid Under the Medicare Physician’s Fee Schedule, A. Physician’s Services*)
- All unlisted codes are reviewed for medical necessity, correct coding, and pricing at the claim level. If an unlisted code is submitted for non-covered services addressed in this policy then it will be **denied as not covered**. If an unlisted code is submitted for potentially covered services addressed in this policy, to avoid post-service denial, **prior authorization is recommended**.
- See the non-covered and prior authorization lists on the Company [Medical Policy, Reimbursement Policy, Pharmacy Policy and Provider Information website](#) for additional information.
- HCPCS/CPT code(s) may be subject to National Correct Coding Initiative (NCCI) procedure-to-procedure (PTP) bundling edits and daily maximum edits known as “medically unlikely edits” (MUEs) published by the Centers for Medicare and Medicaid Services (CMS). This policy does not take precedence over NCCI edits or MUEs. Please refer to the CMS website for coding guidelines and applicable code combinations.

REFERENCES

1. Hollister EB, Gao C, Versalovic J. Compositional and functional features of the gastrointestinal microbiome and their effects on human health. *Gastroenterology*. 2014;146(6):1449-1458. <https://pubmed.ncbi.nlm.nih.gov/24486050>.
2. Barko PC, McMichael MA, Swanson KS, Williams DA. The Gastrointestinal Microbiome: A Review. *J Vet Intern Med*. 2018;32(1):9-25. <https://pubmed.ncbi.nlm.nih.gov/29171095>
3. 42 CFR §410.32(a); Available at: <https://www.govinfo.gov/content/pkg/CFR-2011-title42-vol2/pdf/CFR-2011-title42-vol2-sec410-32.pdf>
4. Medicare Benefit Policy Manual, Ch. 15 – Covered Medical and Other Health Services, §80.1 - Clinical Laboratory Services; Available at: <https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/Downloads/bp102c15.pdf>

POLICY REVISION HISTORY

DATE	REVISION SUMMARY
1/2023	New Medicare Advantage medical policy (converted to new format 2/2023)
8/2023	Interim update; update to “Billing Guidelines” section only
12/2023	Annual review, no change to criteria