Clinical Policy: Fecal Bacteriotherapy
Reference Number: HNCA.CP.MP.519
Effective Date: 11/16
Last Review Date: 11/21

See Important Reminder at the end of this policy for important regulatory and legal information.

Description
Fecal bacteriotherapy is also known as fecal biotherapy, fecal microbiota transplantation (FMT), stool or fecal transplant, fecal transfusion, fecal enema or human probiotic infusion. This procedure refers to the process of transplantation of fecal bacteria from a healthy individual into a recipient as a treatment for those suffering from clostridium difficile infection (CDI), which produces effects ranging from diarrhea to pseudomembranous colitis.

Policy/Criteria
I. It is the policy of Health Net of California that fecal bacteriotherapy may be considered medically necessary as a treatment for recurrent or relapsing CDI when the following criteria are met:
   a. Infection confirmed by a positive stool test for Clostridium difficile toxin,
   b. There have been at least 3 episodes of mild to moderate, or 2 episodes of severe recurrent Clostridium difficile infection and associated diarrhea refractory to appropriate antibiotic therapy,
   c. Patient is not immunocompromised.

II. It is the policy of Health Net of California that fecal bacteriotherapy is investigational for any other indication as there is a paucity of peer-reviewed literature and lack of long-term outcomes regarding safety and efficacy.

Background
CDI is one of the leading causes of nosocomial gastroenteritis in the United States, particularly among hospitalized patients ≥ 65 years of age. Given the challenges in managing recurrent CDI, including increased risk of severe complications, nonpharmacological approaches, including FMT, have been used.

FMT involves infusions of instillation of saline-diluted fecal matter from the specified donor, via a nasodudenal tube, retention enema, or colonoscopy, into the colon of a patient with recurrent CDI and associated diarrhea. Donors must be tested for a wide array of bacterial and parasitic infections. The fecal transplant material is then prepared and administered in a clinical environment to ensure that precautions are taken. Transplantation of fresh donated feces is recommended to take place within 24 hours.

Various moderate quality studies were done, including randomized controlled trials, systematic reviews, case studies and retrospective observational studies. They noted that FMT cures a large proportion of patients with refractory or recurrent CDI who had failed ≥ 1 course of standard antibiotic treatment. Adverse reactions were generally rare.
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American Gastroenterology Association (AGA)
The American Gastroenterological Association (AGA) Institute, in partnership with other organizations and with funding from the National Institutes of Health, has developed the prospective FMT National Registry to assess FMT. The investigators report the results from the first 259 patients collected from 20 different sites. Of the first 259 participants enrolled at 20 sites, 222 have completed short-term follow-up at 1 month, and 123 have follow-up to 6 months; 171 (66%) are female. All FMTs were done for CDI, and 249 (96%) used an unknown donor (e.g., stool bank). One-month cure occurred in 200 (90%); of these, 197 (98%) received only a single FMT. Among 112 with initial cure who were followed to 6 months, 4 (4%) had CDI recurrence. Severe symptoms reported within 1-month of FMT included diarrhea (5 (2%)) and abdominal pain (4 (2%)); 3 (1%) had hospitalizations possibly related to FMT. At 6 months, new diagnoses of irritable bowel syndrome were made in 2 (1%) and inflammatory bowel disease in 2 (1%). The authors concluded that “this prospective real-world study demonstrated high effectiveness of FMT for CDI with a good safety profile. Assessment of new conditions at long-term follow-up is planned as this registry grows and will be important for determining the full safety profile of FMT.”

The 2019 AGA guidelines on the management of patients with mild-to-moderate ulcerative colitis (UC) without Clostridium difficile infection recommend fecal microbiota transplantation be performed only in the context of a clinical trial. The use of FMT for treatment of UC should be considered experimental at this time. Current evidence was rated as very low because only small, noncomparative cohort studies of heterogeneous patients have been completed. AGA noted that large studies with long-term follow-up are needed.

National Institute for Health and Care Excellence
Current evidence on FMT for recurrent CDI that has failed to respond to antibiotics and other treatments shows that it is efficacious in reducing symptoms. Therefore the procedure may be used provided that normal arrangements are in place for clinical governance, consent and audit.

American College of Gastroenterology
The ACG recommends that FMT be considered for patients with severe and fulminant CDI unresponsive to antibiotic therapy. For recurrent CDI, FMT is recommended for patients experiencing a second or further recurrence with delivery through colonoscopy or capsules.. Repeat FMT is suggested if the patient experiences a recurrence of CDI within eight weeks of an initial FMT. For patients with inflammatory bowel disease (IBD) and recurrent CDI, FMT should be considered. The panel recommends that immunocompromised patients be tested for CMV and EBV prior to undergoing FMT and if seronegative be advised of the risks, benefits, and alternatives (including patient-selected donor use). They conclude that FMT has emerged as an effective treatment, but questions remain regarding best method of delivery, optimal donor screening, and long-term safety of the procedure (Kelly et al., 2021).

European Society of Clinical Microbiology and Infectious Diseases
For multiple recurrent CDI unresponsive to repeated antibiotic treatment, FMT is strongly recommended in combination with oral antibiotic treatment.

UpToDate
Recurrent and severe CDI despite antibiotic therapy is increasingly common. Restoration of the normal fecal microbiota may be important for resolving infection refractory to oral metronidazole or vancomycin. FMT offers a means to durably restore the normal microbiota. It is recommended that FMT be done at a center of expertise in patients with recurrent CDI who have failed multiple courses of antibiotic therapy (Grade 1B).

Infectious Diseases Society of America (IDSA) and Society for Healthcare Epidemiology of America (SHEA) (2018)
Fecal microbiota transplantation is recommended as an option for patients with multiple recurrences of CDI who have failed appropriate antibiotic treatments [following an initial treatment of CDI and two recurrences (i.e. after three treated CDI episodes) that have been non-responsive to at least two regimens of antibiotics (i.e., various combinations of vancomycin, fidaxomicin, and/or metronidazole] (strong recommendation, moderate quality of evidence).
Consider fecal microbiota transplantation for pediatric patients with multiple recurrences of CDI following standard antibiotic treatments (weak recommendation, very low quality of evidence).

In a June 2019 Safety Communication, the Food and Drug Administration (FDA) informed health care providers and patients of the potential risk of serious or life-threatening infections with the use of fecal microbiota for transplantation (FMT). The agency was made aware of bacterial infections caused by multi-drug resistant organisms (MDROs) that have occurred due to transmission of a MDRO from use of investigational FMT. Two immunocompromised adults who received investigational FMT developed invasive infections caused by extended-spectrum beta-lactamase (ESBL)-producing Escherichia coli (E.coli). One of the individuals died. The FDA recommends donor screening, testing of donor stool and exclusion for stool that test positive for MDRO.

The FDA also issued a safety warning in March 2020: FDA is informing health care providers and patients of the potential risk of serious or life-threatening infections with the use of fecal microbiota for transplantation (FMT). The FDA is now aware of infections caused by enteropathogenic Escherichia coli (EPEC) and Shigatoxin-producing Escherichia coli (STEC) that have occurred following investigational use of FMT that it suspects are due to transmission of these pathogenic organisms from FMT product supplied by a stool bank company based in the United States. The stool bank provides FMT product manufactured from pre-screened donors to healthcare providers and researchers.

Coding Implications
This clinical policy references Current Procedural Terminology (CPT®). CPT® is a registered trademark of the American Medical Association. All CPT codes and descriptions are copyrighted 2015, American Medical Association. All rights reserved. CPT codes and CPT descriptions are from the current manuals and those included herein are not intended to be all-inclusive and are included for informational purposes only. Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.
CPT® Codes | Description | HCPCS Codes | Description | ICD-10-CM Code | Description
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44705 | Preparation of fecal microbiota for instillation, including assessment of donor specimen | G0455 | Preparation with instillation of fecal microbiota by any method, including assessment of donor specimen | A04.7 | Enterocolitis due to Clostridium difficile

**Reviews, Revisions, and Approvals**

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<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>Policy Adopted from Health Net NMP#519, Fecal Bacteriotherapy</td>
<td>11/16</td>
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<tr>
<td>Policy update – no changes</td>
<td>11/17</td>
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<tr>
<td>Criteria revised based on 2017 guidelines from the Infectious Diseases Society of America (IDSA) and Society for Healthcare Epidemiology of America</td>
<td>11/18</td>
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<td>Added FDA safety recommendations to background section</td>
<td>11/19</td>
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<tr>
<td>Revised Ib to add.. or 2 episodes of severe.. Added FDA safety warning, FMT National Registry information, added references</td>
<td>11/20</td>
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<tr>
<td>Clarified recommendation from ACG, Infectious Diseases Society of America (IDSA) and Society for Healthcare Epidemiology of America (SHEA) but no change in criteria. Updated references</td>
<td>11/21</td>
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**References**

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15. Kelly, CR, Yen, EF et al, Fecal Microbia Transplantation is Highly Effective in Real-World Practice: Initial Results from the FMT National Registry, Published:October 01, 2020 DOI:https://doi.org/10.1053/j.gastro.2020.09.038


18. Mullish, BH et al The use of faecal microbiota transplant as treatment for recurrent or refractory Clostridium difficile infection and other potential indications: joint British Society of Gastroenterology (BSG) and Healthcare Infection Society (HIS) guidelines. Journal of Hospital Infection 100 (2018) S1eS31


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Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. “Health Plan” means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan’s affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.
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**Note: For Medicaid members**, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

**Note: For Medicare members**, to ensure consistency with the Medicare National Coverage Determinations (NCD) and Local Coverage Determinations (LCD), all applicable NCDs, LCDs, and Medicare Coverage Articles should be reviewed prior to applying the criteria set forth in this clinical policy. Refer to the CMS website at [http://www.cms.gov](http://www.cms.gov) for additional information.

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