

Clinical Policy: Natalizumab (Tysabri)

Reference Number: CP.PHAR.259

Effective Date: 08.01.16 Last Review Date: 05.21 Line of Business: Medicaid

Coding Implications
Revision Log

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

Description

Natalizumab (Tysabri®) is an integrin receptor antagonist.

FDA Approved Indication(s)

Tysabri is indicated:

- As monotherapy for the treatment of patients with relapsing forms of multiple sclerosis (MS), to include clinically isolated syndrome, relapsing-remitting disease, and active secondary progressive disease, in adults
- For inducing and maintaining clinical response and remission in adult patients with moderately to severely active Crohn's disease (CD) with evidence of inflammation who have had an inadequate response to, or are unable to tolerate, conventional CD therapies and inhibitors of tumor necrosis factor-α (TNF-α)

Limitation(s) of use:

- Tysabri increases the risk of progressive multifocal leukoencephalopathy. When initiating and continuing treatment with Tysabri, physicians should consider whether the expected benefit of Tysabri is sufficient to offset this risk.
- In CD, Tysabri should not be used in combination with immunosuppressants or inhibitors of TNF-α.

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with Centene Corporation® that Tysabri is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

- A. Multiple Sclerosis (must meet all):
 - 1. Diagnosis of one of the following (a, b, or c):
 - a. Clinically isolated syndrome, and member is contraindicated to both, or has experienced clinically significant adverse effects to one, of the following at up to maximally indicated doses: an interferon-beta agent (Avonex[®], Betaseron[®], Rebif[®], or Plegridy[®]), glatiramer (Copaxone[®], Glatopa[®]);
 - b. Relapsing-remitting MS, and one of the following (i or ii):



- i. Failure of all of the following at up to maximally indicated doses, unless clinically significant adverse effects are experienced or all are contraindicated (1, 2, 3, and 4):*
 - 1) Dimethyl fumarate (generic Tecfidera®);
 - 2) Aubagio[®];
 - 3) Gilenya[®];
 - 4) An interferon-beta agent (Avonex, Betaseron, Rebif, or Plegridy) or glatiramer (Copaxone, Glatopa);
 - *Prior authorization is required for all disease modifying therapies for MS
- ii. Member has highly active MS, and failure of Gilenya at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced;
- c. Secondary progressive MS;
- 2. Prescribed by or in consultation with a neurologist;
- 3. Age \geq 18 years;
- 4. Tysabri is not prescribed concurrently with other disease modifying therapies for MS (*see Appendix D*);
- 5. Documentation of baseline number of relapses per year and expanded disability status scale (EDSS) score;
- 6. Dose does not exceed 300 mg (1 vial) every 4 weeks.

Approval duration: 6 months

B. Crohn's Disease (must meet all):

- 1. Diagnosis of CD;
- 2. Prescribed by or in consultation with a gastroenterologist;
- 3. Age > 18 years;
- 4. Member meets one of the following (a or b):
 - a. Failure of a \geq 3 consecutive month trial of at least ONE immunomodulator (e.g., azathioprine, 6-mercaptopurine [6-MP], methotrexate [MTX]) at up to maximally indicated doses, unless contraindicated or clinically significant adverse effects are experienced;
 - b. Medical justification supports inability to use immunomodulators (see Appendix E);
- 5. Failure of adalimumab (*Humira*[®] *is preferred*) AND one other TNF-α inhibitor (e.g., infliximab [*Inflectra*[®] *and Renflexis*[™] *are preferred*], Cimzia[®]), each used for ≥ 3 consecutive months unless contraindicated or clinically significant adverse effects are experienced;
 - *Prior authorization is required for adalimumab and all TNF-\alpha inhibitors
- 6. Tysabri is not prescribed concurrently with immunosuppressants (e.g., azathioprine, cyclosporine, 6-MP, MTX) or TNF-α inhibitors (note: aminosalicylates may be continued);
- 7. Dose does not exceed 300 mg (1 vial) every 4 weeks.

Approval duration: 6 months



C. Other diagnoses/indications

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53 for Medicaid.

II. Continued Therapy

A. Multiple Sclerosis (must meet all):

- 1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
- 2. Member meets one of the following (a or b):
 - a. If member has received < 1 year of total treatment: Member is responding positively to therapy;
 - b. If member has received ≥ 1 year of total treatment: Member meets one of the following (i, ii, iii, or iv):
 - i. Member has not had an increase in the number of relapses per year compared to baseline;
 - ii. Member has not had ≥ 2 new MRI-detected lesions;
 - iii. Member has not had an increase in EDSS score from baseline;
 - iv. Medical justification supports that member is responding positively to therapy;
- 3. Tysabri is not prescribed concurrently with other disease modifying therapies (*see Appendix D*);
- 4. If request is for a dose increase, new dose does not exceed 300 mg (1 vial) every 4 weeks.

Approval duration: <u>first re-authorization</u>: 6 months; <u>second and subsequent re-authorizations</u>: 12 months

B. Crohn's Disease (must meet all):

- 1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
- 2. Member is responding positively to therapy;
- 3. Tysabri is not prescribed concurrently immunosuppressants (e.g., azathioprine, cyclosporine, 6-MP, MTX) or TNF-α inhibitors (note: aminosalicylates may be continued);
- 4. If request is for a dose increase, new dose does not exceed 300 mg (1 vial) every 4 weeks.

Approval duration: 12 months

C. Other diagnoses/indications (must meet 1 or 2):

1. Currently receiving medication via Centene benefit and documentation supports positive response to therapy.

Approval duration: Duration of request or 6 months (whichever is less); or

2. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): CP.PMN.53 for Medicaid.



III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policy – CP.PMN.53 for Medicaid or evidence of coverage documents;

B. Primary progressive MS.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key

6-MP: 6-mercaptopurine GI: gastrointestinal CD: Crohn's disease MS: multiple sclerosis EDSS: expanded disability status scale MTX: methotrexate

FDA: Food and Drug Administration TNF-α: tumor necrosis factor-α

Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business

and may require prior authorization.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose			
MS agents					
Avonex®, Rebif®	Avonex: 30 mcg IM Q week	Avonex: 30 mcg/week			
(interferon beta-1a)	Rebif: 22 mcg or 44 mcg SC TIW	Rebif: 44 mcg TIW			
Betaseron® (interferon	250 mcg SC QOD	250 mg QOD			
beta-1b)					
Plegridy® (peginterferon	125 mcg SC Q2 weeks	125 mcg/2 weeks			
beta-1a)					
glatiramer acetate	20 mg SC QD or 40 mg SC TIW	20 mg/day or 40 mg			
(Copaxone [®] , Glatopa [®])		TIW			
Aubagio® (teriflunomide)	7 mg or 14 mg PO QD	14 mg/day			
Gilenya® (fingolimod)	0.5 mg PO QD	0.5 mg/day			
dimethyl fumarate	120 mg PO BID for 7 days,	480 mg/day			
(Tecfidera®)	followed by 240 mg PO BID				
CD agents					
6-mercaptopurine	50 mg PO QD or 1.5 - 2 mg/kg/day	2 mg/kg/day			
(Purixan®)*	PO				
azathioprine (Azasan®,	1.5 - 2 mg/kg/day PO	2.5 mg/kg/day			
Imuran®)*					
corticosteroids*	prednisone 40 mg PO QD for 2	Various			
	weeks or IV 50 – 100 mg Q6H for				
	1 week				
	budesonide (Entocort EC®) 6 – 9				
	mg PO QD				
methotrexate (Otrexup®,	15 – 25 mg/week IM or SC	30 mg/week			
Rasuvo)*					
Pentasa® (mesalamine)	1,000 mg PO QID	4 g/day			



Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
tacrolimus (Prograf®)*	0.27 mg/kg/day PO in divided doses or 0.15 – 0.29 mg/kg/day PO	N/A
Cimzia® (certolizumab)	Initial dose: 400 mg SC at 0, 2, and 4 weeks	400 mg every 4 weeks
	Maintenance dose: 400 mg SC every 4 weeks	
Humira® (adalimumab)	Initial dose: 160 mg SC on Day 1, then 80 mg SC on Day 15	40 mg every other week
	Maintenance dose: 40 mg SC every other week starting on Day 29	
Renflexis®, Inflectra® (infliximab)	Initial dose: 5 mg/kg IV at weeks 0, 2 and 6	10 mg/kg every 8 weeks
	Maintenance dose: 5 mg/kg IV every 8 weeks.	
	Some adult patients who initially respond to treatment may benefit from increasing the dose to 10	
	mg/kg if they later lose their response	

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.
*Off-label

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s):
 - o Patients who have or have had progressive multifocal leukoencephalopathy
 - o Patients who have had a hypersensitivity reaction to Tysabri
- Boxed warning(s): progressive multifocal leukoencephalopathy

Appendix D: General Information

- Because of the risk of progressive multifocal leukoencephalopathy, Tysabri is only available through a REMS program called the TOUCH® Prescribing Program.
- Disease-modifying therapies for MS are: glatiramer acetate (Copaxone[®], Glatopa[®]), interferon beta-1a (Avonex[®], Rebif[®]), interferon beta-1b (Betaseron[®], Extavia[®]), peginterferon beta-1a (Plegridy[®]), dimethyl fumarate (Tecfidera[®]), diroximel fumarate (Vumerity[®]), monomethyl fumarate (Bafiertam[™]), fingolimod (Gilenya[®]), teriflunomide (Aubagio[®]), alemtuzumab (Lemtrada[®]), mitoxantrone (Novantrone[®]), natalizumab



- (Tysabri®), ocrelizumab (Ocrevus®), cladribine (Mavenclad®), siponimod (Mayzent®), ozanimod (Zeposia®), and ofatumumab (Kesimpta®).
- The American Academy of Neurology 2018 MS guidelines recommend the use of Gilenya, Tysabri, and Lemtrada for patients with highly active MS. Definitions of highly active MS vary and can include measures of relapsing activity and MRI markers of disease activity, such as numbers of gadolinium-enhanced lesions.
- Of the disease-modifying therapies for MS that are FDA-labeled for CIS, only the
 interferon products, glatiramer, and Aubagio have demonstrated any efficacy in
 decreasing the risk of conversion to MS compared to placebo. This is supported by the
 AAN 2018 MS guidelines.
- Definition of failure of MTX or DMARDs
 - Child-bearing age is not considered a contraindication for use of MTX. Each drug has
 risks in pregnancy. An educated patient and family planning would allow use of MTX
 in patients who have no intention of immediate pregnancy.
 - Social use of alcohol is not considered a contraindication for use of MTX. MTX may only be contraindicated if patients choose to drink over 14 units of alcohol per week. However, excessive alcohol drinking can lead to worsening of the condition, so patients who are serious about clinical response to therapy should refrain from excessive alcohol consumption.

Appendix E: Medical Justification

- The following may be considered for medical justification supporting inability to use an immunomodulator for Crohn's disease:
 - Inability to induce short-term symptomatic remission with a 3-month trial of systemic glucocorticoids
 - o High-risk factors for intestinal complications may include:
 - Initial extensive ileal, ileocolonic, or proximal GI involvement
 - Initial extensive perianal/severe rectal disease
 - Fistulizing disease (e.g., perianal, enterocutaneous, and rectovaginal fistulas)
 - Deep ulcerations
 - Penetrating, stricturing or stenosis disease and/or phenotype
 - Intestinal obstruction or abscess

V. Dosage and Administration

Indication	Dosing Regimen	Maximum Dose
Relapsing MS,	300 mg IV every 4 weeks	300 mg/4 weeks
CD	In CD, discontinue in patients who have not	
	experienced therapeutic benefit by 12 weeks of	
	induction therapy and in patients that cannot	
	discontinue chronic concomitant steroids within six	
	months of starting therapy	

VI. Product Availability

Single-use vial: 300 mg/15 mL



VII. References

- 1. Tysabri Prescribing Information. Cambridge, MA: Biogen Inc; June 2020. Available at http://www.tysabri.com. Accessed February 8, 2021.
- 2. Lichtenstein GR, Loftus Jr. EV, Isaacs KI, Regueiro MD, Gerson LB, and Sands BE. ACG clinical guideline: management of Crohn's disease in adults. Am J Gastroenterol. 2018; 113:481-517.
- 3. Sandborn WJ. Crohn's Disease Evaluation and Treatment: Clinical Decision Tool. Gastroenterology 2014; 147: 702-705.
- 4. Bernell O, Lapidus A, Hellers G. Risk Factors for Surgery and Postoperative Recurrence in Crohn's Disease. Annals of Surgery. 2000; 231(1): 38-45.
- 5. Rae-Grant A, Day GS, Marrie RA, et al. Practice guideline recommendations summary: disease-modifying therapies for adults with multiple sclerosis: report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology. Neurology. 2018; 90(17): 777-788. Full guideline available at: https://www.aan.com/Guidelines/home/GetGuidelineContent/904.

Coding Implications

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.

	Description
Codes	
J2323	Injection, natalizumab, 1 mg

Reviews, Revisions, and Approvals	Date	P&T Approv al Date
All indications: Removed both contraindications and reasons to discontinue. MS: Requirement for MRI removed as this is not a specific diagnostic test and involvement of specialist in the care is required. Added age requirement as safety and efficacy have not been established in pediatric populations. Updated preferencing to require at least one of the highly effective disease-modifying therapy on formulary (Tecfidera or Gilenya). CD: modified poor prognostic indicator list to match AGA guidelines.	06.17	07.17
CD: Reclassified "failure of an immunomodulator" as one of the options to meet criteria point 1 (along with other poor prognostic indicators), instead of as an alternative to failing Humira and another TNF inhibitor in criteria point 2.	08.17	
2Q 2018 annual review: for CD: removed requirements for specific criteria relating to diagnosis, altered specialist requirement to GI specialist, changed trial and failure duration to 3 consecutive months, added brand names of preferred agents for trial and failure; references reviewed and updated.	02.27.18	05.18



Reviews, Revisions, and Approvals	Date	P&T Approv al Date
4Q 2018 annual review: modified prescriber specialist from GI specialist to gastroenterologist for CD; added trial and failure of immunosuppressants, or medical necessity for use of biologics in CD; references reviewed and updated.	08.28.18	11.18
2Q 2019 annual review: for MS: modified trial/failure requirement from 2 preferred agents to just Gilenya (the only preferred agent recommended as first-line for highly active disease) per updated AAN MS guidelines which now recommend Tysabri as first-line for highly active disease; references reviewed and updated.	02.19.19	05.19
RT4: added coverage for CIS and SPMS per updated FDA labeling; references reviewed and updated.	08.16.19	
2Q 2020 annual review: MS: added CIS re-directions per SDC; references reviewed and updated.	01.27.20	05.20
MS: added requirements for documentation of baseline relapses/EDSS and objective measures of positive response upon re-authorization; modified continued approval duration to 6 months for the first reauthorization and 12 months for second/subsequent re-authorizations; references reviewed and updated.	05.27.20	08.20
Per November SDC and prior clinical guidance, for RRMS modified redirection to require generic dimethyl fumarate, Aubagio, Gilenya, and either an interferon-beta agent or glatiramer, unless member has highly active MS, in which Gilenya redirection is maintained.	01.11.21	
2Q 2021 annual review: no significant changes; references reviewed and updated.	02.08.21	05.21

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.

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