

Tysabri[®] (natalizumab) (Intravenous)

Document Number: EOCCO-0133

Last Review Date: 10/01/2020

Date of Origin: 11/28/2011

Dates Reviewed: 12/2011, 08/2012, 02/2013, 06/2013, 06/2013, 09/2013, 12/2013, 03/2014, 06/2014, 09/2014, 01/2015, 02/2015, 06/2015, 09/2015, 12/2015, 03/2016, 06/2016, 09/2016, 12/2016, 03/2017, 06/2017, 09/2017, 12/2017, 03/2018, 06/2018, 10/2018, 09/2019, 04/2020, 10/2020

I. Length of Authorization

Crohn's Disease:

- Coverage is eligible for renewal
 - Initial coverage will be provided for 12 weeks
 - Renewal coverage will be provided for 6 months

Multiple Sclerosis:

• Coverage will be provided for 6 months and is eligible for renewal.

II. Dosing Limits

- A. Quantity Limit (max daily dose) [NDC Unit]:
 - Tysabri 300 mg/15 mL vial for injection: 1 vial per 28 days
- B. Max Units (per dose and over time) [HCPCS Unit]:
 - 300 billable units every 28 days

III. Initial Approval Criteria¹⁻¹⁹

• Patient is at least 18 years of age; AND

Universal Criteria 1,13

- Prescriber and patient must be enrolled in and meet the conditions of the TOUCH program; AND
- Not used in combination with antineoplastic, immunosuppressant, or immunomodulating agents; AND
- Patient must not have a systemic medical condition resulting in significantly compromised immune system function; **AND**



Multiple Sclerosis † 1,6,15

- Patient has been diagnosed with a relapsing form of multiple sclerosis [i.e. relapsing-remitting disease (RRMS)*, active secondary progressive disease (SPMS)**, or clinically isolated syndrome (CIS)***]; AND
- Confirmed diagnosis of MS as documented by laboratory report (i.e. MRI); AND
- Must be used as single agent therapy

Crohn's Disease † 1,4

- Patient has moderate to severe active disease; AND
- Physician has assessed baseline disease severity utilizing an objective measure/tool; AND
- Documented trial and failure on <u>ONE</u> oral immunosuppressive therapy for at least 3 months, unless use is contraindicated, such as corticosteroids, methotrexate, azathioprine, and/or 6mercaptopurine; **AND**
- Documented trial and failure on <u>ONE</u> TNF-Inhibitor therapy for at least 3 months, unless contraindicated, such as infliximab, certolizumab, or adalimumab; **AND**
- Used as single agent therapy [Not used concurrently with another biologic drug or immunosuppressant (e.g., 6-mercaptopurine, azathioprine, cyclosporine, methotrexate, etc.) used for Crohn's Disease]

+ FDA Approved Indication(s)

*Definitive diagnosis of MS with a relapsing-remitting course is based upon <u>BOTH</u> dissemination in time and space. Unless contraindicated, MRI should be obtained (even if criteria are met). ^{6,15}

	· · · · · · · · · · · · · · · · · · ·
Dissemination in time	Dissemination in space
(Development/appearance of new CNS lesions over time)	(Development of lesions in distinct anatomical locations
	within the CNS; multifocal)
• ≥ 2 clinical attacks; OR	• ≥ 2 lesions; OR
• 1 clinical attack <u>AND</u> one of the following:	• 1 lesion <u>AND</u> one of the following:
 MRI indicating simultaneous presence of 	 Clear-cut historical evidence of a previous attack
gadolinium-enhancing and non-enhancing lesions at	involving a lesion in a distinct anatomical location
any time or by a new T2-hyperintense or	 MRI indicating ≥ 1 T2-hyperintense lesions
gadolinium-enhancing lesion on follow-up MRI	characteristic of MS in \geq 2 of 4 areas of the CNS
compared to baseline scan	(periventricular, cortical or juxtacortical,
 CSF-specific oligoclonal bands 	infratentorial, or spinal cord)



**Active secondary progressive MS (SPMS) is defined as the following: 7,15,17

- Expanded Disability Status Scale (EDSS) score ≥ 3.0; AND
- Disease is progressive ≥ 3 months following an initial relapsing-remitting course (i.e., EDSS score increase by 1.0 in patients with EDSS ≤5.5 or increase by 0.5 in patients with EDSS ≥6); AND
 - $\circ \geq 1$ relapse within the previous 2 years; **OR**
 - Patient has gadolinium-enhancing activity or new and unequivocally enlarging T2 contrast-enhancing lesions as evidenced by MRI

***Definitive diagnosis of CIS is based upon ALL of the following: ^{6,15}

- A monophasic clinical episode with patient-reported symptoms and objective findings reflecting a focal or multifocal inflammatory demyelinating event in the CNS
- Neurologic symptom duration of at least 24 hours, with or without recovery
- Absence of fever or infection
- Patient is not known to have multiple sclerosis

§ Risk factors for the development of Progressive Multifocal Leukoencephalopathy (PML) 1,13,14

- Presence of anti-JCV antibodies. Patients who are anti-JCV antibody positive have a higher risk for developing PML.
- Prior treatment with an immunosuppressant (e.g., mitoxantrone, azathioprine, methotrexate, cyclophosphamide, mycophenolate mofetil)
- Longer treatment duration, especially beyond 2 years
- Elevated levels of anti-JCV antibody response index (i.e., index > 0.9).
 - In those using natalizumab for 25–36 months with no prior use of immunosuppressants, the PML risk is 0.2 per 1,000 in those with an index of 0.9–1.5, and 3 per 1,000 in those with an index greater than 1.5.

Anti-JCV	TYSABRI Exposure	Anti-JCV Antibody Positive	
Antibody Negative	(months)	No Prior Immunosuppressant Use	Prior Immunosuppressant Use
	1-24	<1/1,000	1/1,000
1/10,000	25-48	2/1,000	6/1,000
	49-72	4/1,000	7/1,000
	73-96	2/1,000	6/1,000

Note: requirements for JCV negativity are based upon recommendations from current guidelines^{13,14}. Use in patients who are anti-JCV antibody positive will be reviewed on a case-by-case basis.

IV. Renewal Criteria ^{1,4,5,14}

Authorizations can be renewed based on the following criteria:

- Patient continues to meet the universal and other indication-specific relevant criteria identified in section III; AND
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include the following: hypersensitivity reactions, hepatotoxicity, signs or symptoms of progressive multifocal leukoencephalopathy (PML), development of severe infections (including



pneumonias, pneumocystis carinii pneumonia, pulmonary mycobacterium avium intracellulare, bronchopulmonary aspergillosis, herpes, urinary tract infections, gastroenteritis, vaginitis, tonsillitis, meningitis), thrombocytopenia, etc.; AND

Multiple Sclerosis 5,14

Continuous monitoring of response to therapy indicates a beneficial response* [manifestations of increased MS disease activity include, but are not limited to, an increase in annualized relapse rate (ARR), development of new/worsening T2 hyperintensities or enhancing lesions on brain/spinal MRI, and progression of sustained impairment as evidenced by expanded disability status scale (EDSS), timed 25-foot walk (T25-FW), 9-hole peg test (9-HPT)]

*<u>Note</u>:

- Inadequate response, in those who have been adherent and receiving therapy for sufficient time to realize the full treatment effect, is defined as ≥ 1 relapse, ≥ 2 unequivocally new MRI-detected lesions, or increased disability on examination over a one-year period
- Infusion reactions or breakthrough disease activity may indicate neutralizing natalizumab antibodies. Therapy should be discontinued in patients who have persistent neutralizing antibodies to natalizumab

Crohn's Disease 1,4

- Initial renewal only:
 - Clinical response and remission of disease is seen by 12 weeks
- <u>Second renewal only</u>:
 - Patient has been tapered off of oral corticosteroids within six months of starting Tysabri;
 AND
 - Disease response as indicated by improvement in signs and symptoms compared to baseline such as endoscopic activity, number of liquid stools, presence and severity of abdominal pain, presence of abdominal mass, body weight compared to IBW, hematocrit, presence of extra intestinal complications, tapering or discontinuation of corticosteroid therapy, use of antidiarrheal drugs, and/or an improvement on a disease activity scoring tool [e.g. an improvement on the Crohn's Disease Activity Index (CDAI) score or the Harvey-Bradshaw Index score.]
- <u>All subsequent renewals</u>:
 - Patient does not require additional steroid use that exceeds three months in a calendar year to control their Crohn's disease; AND
 - Disease response as indicated by improvement in signs and symptoms compared to baseline such as endoscopic activity, number of liquid stools, presence and severity of abdominal pain, presence of abdominal mass, body weight compared to IBW, hematocrit, presence of extra



intestinal complications, tapering or discontinuation of corticosteroid therapy, use of antidiarrheal drugs, and/or an improvement on a disease activity scoring tool [e.g. an improvement on the Crohn's Disease Activity Index (CDAI) score or the Harvey-Bradshaw Index score.]

V. Dosage/Administration ¹

Indication	Dose
All Indications	Administer 300 mg intravenously over one hour every four weeks

VI. Billing Code/Availability Information

HCPCS Code:

- J2323 Injection, natalizumab, 1 mg; 1 billable unit = 1mg NDC:
- Tysabri 300 mg/15 mL single-use vial: 64406-0008-xx

VII. References

- 1. Tysabri [package Insert]. Cambridge, MA; Biogen, Inc.; June 2020. Accessed September 2020.
- Goodin DS, Cohen BA, O'Connor P, et al. Assessment: the use of natalizumab (Tysabri) for the treatment of multiple sclerosis (an evidence-based review): report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. Neurology 2008; 71:766.
- 3. Gawronski KM, Rainka MM, Patel MJ, Gengo FM. <u>Treatment Options for Multiple Sclerosis:</u> <u>Current and Emerging Therapies</u>. Pharmacotherapy. 2010;30(9):916-927.
- Goodin DS, Frohman EM, Garmany GP Jr, et al. Disease modifying therapies in multiple sclerosis: report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology and the MS Council for Clinical Practice Guidelines. Neurology. 2002 Jan 22;58(2):169-78.
- 5. Freedman MS, Selchen D, Arnold DL, et al. Treatment optimization in MS: Canadian MS Working Group updated recommendations. Can J Neurol Sci. 2013 May;40(3):307-23.
- 6. Polman CH, Reingold SC, Banwell B, et al. Diagnostic criteria for multiple sclerosis: 2010 Revisions to the McDonald criteria. Ann Neurol. 2011 Feb; 69(2): 292–302. doi: 10.1002/ana.22366
- 7. Lublin FD, Reingold SC, Cohen JA, et al. Defining the clinical course of multiple sclerosis: the 2013 revisions. Neurology. 2014 Jul 15;83(3):278-86. doi: 10.1212/WNL.000000000000560



- Lichtenstein GR, Hanauer SB, Sandborn WJ, Practice Parameters Committee of American College of Gastroenterology. Management of Crohn's disease in adults. Am J Gastroenterol. 2009;104(2):465.
- Terdiman JP, Gruss CB, Heidelbaugh JJ, et al. American Gastroenterological Association Institute guideline on the use of thiopurines, methotrexate, and anti-TNF-α biologic drugs for the induction and maintenance of remission in inflammatory Crohn's disease. Gastroenterology. 2013 Dec;145(6):1459-63. doi: 10.1053/j.gastro.2013.10.047.
- 10. Best WR, Becktel JM, Singleton JW, Kern F: Development of a Crohn's Disease Activity Index, National Cooperative Crohn's Disease Study. Gastroenterology 1976; 70(3): 439-444.
- Gomollón F, Dignass A, Annese V, et al. EUROPEAN Evidence-based consensus on the diagnosis and management of Crohn's disease 2016: Part 1: Diagnosis and medical management. J Crohns Colitis. 2016 Sep 22. pii: jjw168.
- National Institute for Health and Care Excellence. NICE 2012. Crohn's Disease: Management. Published 10 October 2012. Clinical Guideline [CG152]. https://www.nice.org.uk/guidance/cg152/resources/crohns-disease-management-pdf-35109627942085.
- 13. Lichtenstein GR, Loftus EV, Isaacs KI, et al. ACG Clinical Guideline: Management of Crohn's Disease in Adults. Am J Gastroenterol 2018; 113:481–517; doi: 10.1038/ajg.2018.27
- 14. Rae-Grant A, Day GS, Marrie RA, et al. Practice guideline recommendations summary: Diseasemodifying therapies for adults with multiple sclerosis. Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology. Neurology[®] 2018;90:777-788.
- 15. Thompson AJ, Banwell BL, Barkhof F, et al. Diagnosis of multiple sclerosis: 2017 revisions of the McDonald criteria. Lancet Neurol. 2018 Feb;17(2):162-173. doi: 10.1016/S1474-4422(17)30470-2.
- Kappos L, Bar-Or A, Cree BAC, et al. Siponimod versus placebo in secondary progressive multiple sclerosis (EXPAND): a double-blind, randomised, phase 3 study. Lancet. 2018;391(10127):1263. Epub 2018 Mar 23.
- Lorscheider J, Buzzard K, Jokubaitis V, et al, on behalf of the MSBase Study Group. Defining secondary progressive multiple sclerosis. Brain, Volume 139, Issue 9, September 2016, Pages 2395–2405, <u>https://doi.org/10.1093/brain/aww173</u>.
- Kappos L, Bar-Or A, Cree BAC, et al. Siponimod versus placebo in secondary progressive multiple sclerosis (EXPAND): a double-blind, randomised, phase 3 study. Lancet. 2018;391(10127):1263. Epub 2018 Mar 23.
- Lorscheider J, Buzzard K, Jokubaitis V, et al, on behalf of the MSBase Study Group. Defining secondary progressive multiple sclerosis. Brain, Volume 139, Issue 9, September 2016, Pages 2395–2405, <u>https://doi.org/10.1093/brain/aww173</u>.



Appendix 1 –	- Covered	Diagnosis Codes	5
	0010100		·

G35Mutiple SciencesisK50.00Croin's disease of small intestine without complicationsK50.01Croin's disease of small intestine with intestinal obstructionK50.02Croin's disease of small intestine with intestinal obstructionK50.03Croin's disease of small intestine with diseasesK50.04Croin's disease of small intestine with abscessK50.04Croin's disease of small intestine with unspecified complicationsK50.05Croin's disease of small intestine with unspecified complicationsK50.01Croin's disease of angl intestine with unspecified complicationsK50.02Croin's disease of angle intestine with intestinal obstructionK50.01Croin's disease of angle intestine with abscessK50.01Croin's disease of angle intestine with abscessK50.02Croin's disease of angle intestine with abscessK50.03Croin's disease of angle intestine with unspecified complicationsK50.04Croin's disease of both small and large intestine with abscessK50.05Croin's disease of both small and large intestine with abscessK50.04Croin's disease of both small and large intestine with abscessK50.05Croin's disease of both small and large intestine with abscessK50.05Croin's disease of both small and large intestine with abscessK50.04Croin's disease of both small and large intestine with abscessK50.05Croin's disease of both small and large intestine with abscessK50.05Croin's disease of both small and large intestine with abscessK50.05Croin's disease of both small and large i	ICD-10	ICD-10 Description	
KS0.011Crohn's disease of small intestine with rectal bleedingKS0.012Crohn's disease of small intestine with intestinal obstructionKS0.013Crohn's disease of small intestine with fistulaKS0.014Crohn's disease of small intestine with abscessKS0.015Crohn's disease of small intestine with other complicationKS0.016Crohn's disease of small intestine with unspecified complicationsKS0.017Crohn's disease of large intestine with other complicationsKS0.018Crohn's disease of large intestine with rectal bleedingKS0.110Crohn's disease of large intestine with rectal bleedingKS0.111Crohn's disease of large intestine with intestinal obstructionKS0.112Crohn's disease of large intestine with fistulaKS0.113Crohn's disease of large intestine with abscessKS0.114Crohn's disease of large intestine with other complicationsKS0.115Crohn's disease of large intestine with unspecified complicationsKS0.116Crohn's disease of both small and large intestine with rectal bleedingKS0.117Crohn's disease of both small and large intestine with intestinal obstructionKS0.118Crohn's disease of both small and large intestine with intestinal obstructionKS0.114Crohn's disease of both small and large intestine with intestinal obstructionKS0.115Crohn's disease of both small and large intestine with other complicationsKS0.118Crohn's disease of both small and large intestine with unspecified complicationsKS0.119Crohn's disease of both small and large intestine with unspecified complications <t< td=""><td>G35</td><td>Multiple Sclerosis</td></t<>	G35	Multiple Sclerosis	
KS0.012Crohn's disease of small intestine with intestinal obstructionKS0.013Crohn's disease of small intestine with fistulaKS0.014Crohn's disease of small intestine with abscessKS0.015Crohn's disease of small intestine with other complicationKS0.016Crohn's disease of small intestine with outpecified complicationsKS0.017Crohn's disease of arge intestine without complicationsKS0.018Crohn's disease of large intestine with rectal bleedingKS0.111Crohn's disease of large intestine with rectal bleedingKS0.112Crohn's disease of large intestine with abscessKS0.113Crohn's disease of large intestine with abscessKS0.114Crohn's disease of large intestine with other complicationsKS0.115Crohn's disease of large intestine with unspecified complicationsKS0.116Crohn's disease of large intestine with unspecified complicationsKS0.117Crohn's disease of both small and large intestine with trectal bleedingKS0.800Crohn's disease of both small and large intestine with intestinal obstructionKS0.811Crohn's disease of both small and large intestine with discessKS0.812Crohn's disease of both small and large intestine with intestinal obstructionKS0.813Crohn's disease of both small and large intestine with unspecified complicationsKS0.814Crohn's disease of both small and large intestine with unspecified complicationKS0.815Crohn's disease of both small and large intestine with unspecified complicationKS0.816Crohn's disease of both small and large intestine with unspecified complications </td <td>K50.00</td> <td colspan="2">Crohn's disease of small intestine without complications</td>	K50.00	Crohn's disease of small intestine without complications	
KS0.013Crohn's disease of small intestine with fistulaKS0.014Crohn's disease of small intestine with abscessKS0.018Crohn's disease of small intestine with other complicationKS0.019Crohn's disease of small intestine with unspecified complicationsKS0.010Crohn's disease of large intestine without complicationsKS0.111Crohn's disease of large intestine with rectal bleedingKS0.112Crohn's disease of large intestine with rectal bleedingKS0.113Crohn's disease of large intestine with fistulaKS0.114Crohn's disease of large intestine with abscessKS0.115Crohn's disease of large intestine with other complicationsKS0.116Crohn's disease of large intestine with other complicationsKS0.117Crohn's disease of large intestine with unspecified complicationsKS0.118Crohn's disease of barge intestine with unspecified complicationsKS0.800Crohn's disease of both small and large intestine with rectal bleedingKS0.811Crohn's disease of both small and large intestine with intestinal obstructionKS0.812Crohn's disease of both small and large intestine with intestinal obstructionKS0.813Crohn's disease of both small and large intestine with unspecified complicationsKS0.814Crohn's disease of both small and large intestine with unspecified complicationKS0.815Crohn's disease of both small and large intestine with unspecified complicationKS0.816Crohn's disease of both small and large intestine with unspecified complicationsKS0.817Crohn's disease of both small and large intestine with unspecified	K50.011	Crohn's disease of small intestine with rectal bleeding	
K50.014Crohn's disease of small intestine with abscessK50.018Crohn's disease of small intestine with other complicationK50.019Crohn's disease of small intestine with unspecified complicationsK50.010Crohn's disease of large intestine without complicationsK50.101Crohn's disease of large intestine with rectal bleedingK50.112Crohn's disease of large intestine with intestinal obstructionK50.113Crohn's disease of large intestine with abscessK50.114Crohn's disease of large intestine with other complicationsK50.115Crohn's disease of large intestine with other complicationK50.116Crohn's disease of large intestine with other complicationsK50.117Crohn's disease of large intestine with unspecified complicationsK50.810Crohn's disease of both small and large intestine with nectal bleedingK50.811Crohn's disease of both small and large intestine with intestinal obstructionK50.812Crohn's disease of both small and large intestine with histulaK50.813Crohn's disease of both small and large intestine with abscessK50.814Crohn's disease of both small and large intestine with unspecified complicationsK50.815Crohn's disease of both small and large intestine with unspecified complicationsK50.814Crohn's disease of both small and large intestine with unspecified complicationsK50.815Crohn's disease of both small and large intestine with unspecified complicationsK50.816Crohn's disease of both small and large intestine with unspecified complicationsK50.817Crohn's disease, unspecified, wi	K50.012	Crohn's disease of small intestine with intestinal obstruction	
K50.018Crohn's disease of small intestine with other complicationK50.019Crohn's disease of small intestine with unspecified complicationsK50.100Crohn's disease of large intestine with unspecified complicationsK50.111Crohn's disease of large intestine with rectal bleedingK50.112Crohn's disease of large intestine with intestinal obstructionK50.113Crohn's disease of large intestine with intestinal obstructionK50.114Crohn's disease of large intestine with diseasesK50.115Crohn's disease of large intestine with other complicationsK50.116Crohn's disease of large intestine with other complicationsK50.117Crohn's disease of large intestine with unspecified complicationsK50.810Crohn's disease of both small and large intestine with nectal bleedingK50.811Crohn's disease of both small and large intestine with intestinal obstructionK50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with abscessK50.814Crohn's disease of both small and large intestine with unspecified complicationsK50.815Crohn's disease of both small and large intestine with unspecified complicationsK50.816Crohn's disease of both small and large intestine with unspecified complicationsK50.817Crohn's disease of both small and large intestine with unspecified complicationsK50.818Crohn's disease, unspecified, with other complicationsK50.819Crohn's disease, unspecified, with nettal bleedingK50.910Crohn's disease, unspecifi	K50.013	Crohn's disease of small intestine with fistula	
K50.019Crohn's disease of small intestine with unspecified complicationsK50.10Crohn's disease of large intestine with ucomplicationsK50.11Crohn's disease of large intestine with rectal bleedingK50.112Crohn's disease of large intestine with intestinal obstructionK50.113Crohn's disease of large intestine with fistulaK50.114Crohn's disease of large intestine with obscessK50.115Crohn's disease of large intestine with unspecified complicationsK50.116Crohn's disease of large intestine with unspecified complicationsK50.117Crohn's disease of both small and large intestine with rectal bleedingK50.810Crohn's disease of both small and large intestine with notte complicationsK50.811Crohn's disease of both small and large intestine with nectal bleedingK50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with abscessK50.814Crohn's disease of both small and large intestine with unspecified complicationsK50.815Crohn's disease of both small and large intestine with unspecified complicationsK50.816Crohn's disease of both small and large intestine with unspecified complicationsK50.917Crohn's disease, unspecified, with rectal bleedingK50.918Crohn's disease, unspecified, with rectal bleedingK50.911Crohn's disease, unspecified, with intestinal obstructionK50.912Crohn's disease, unspecified, with rectal bleedingK50.913Crohn's disease, unspecified, with fistula <trr>K50.914<td< td=""><td>K50.014</td><td>Crohn's disease of small intestine with abscess</td></td<></trr>	K50.014	Crohn's disease of small intestine with abscess	
K50.10Crohn's disease of large intestine without complicationsK50.111Crohn's disease of large intestine with rectal bleedingK50.112Crohn's disease of large intestine with intestinal obstructionK50.113Crohn's disease of large intestine with fistulaK50.114Crohn's disease of large intestine with abscessK50.115Crohn's disease of large intestine with other complicationK50.116Crohn's disease of large intestine with unspecified complicationsK50.117Crohn's disease of both small and large intestine with rectal bleedingK50.811Crohn's disease of both small and large intestine with intestinal obstructionK50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with fistulaK50.814Crohn's disease of both small and large intestine with fistulaK50.815Crohn's disease of both small and large intestine with fistulaK50.816Crohn's disease of both small and large intestine with discessK50.817Crohn's disease of both small and large intestine with other complicationK50.818Crohn's disease of both small and large intestine with other complicationsK50.910Crohn's disease, unspecified, with rectal bleedingK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with fistulaK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with histosaK50.915Crohn's disease, unspecified, with discessK50.91	K50.018	Crohn's disease of small intestine with other complication	
K50.111Crohn's disease of large intestine with rectal bleedingK50.112Crohn's disease of large intestine with intestinal obstructionK50.113Crohn's disease of large intestine with fistulaK50.114Crohn's disease of large intestine with abscessK50.115Crohn's disease of large intestine with other complicationK50.119Crohn's disease of large intestine with unspecified complicationsK50.80Crohn's disease of both small and large intestine with other complicationsK50.81Crohn's disease of both small and large intestine with intestinal obstructionK50.81Crohn's disease of both small and large intestine with intestinal obstructionK50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with other complicationsK50.814Crohn's disease of both small and large intestine with abscessK50.815Crohn's disease of both small and large intestine with other complicationK50.816Crohn's disease of both small and large intestine with unspecified complicationsK50.817Crohn's disease of both small and large intestine with unspecified complicationsK50.818Crohn's disease of both small and large intestine with unspecified complicationsK50.910Crohn's disease, unspecified, with rectal bleedingK50.911Crohn's disease, unspecified, with rectal bleedingK50.913Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscess <td>K50.019</td> <td>Crohn's disease of small intestine with unspecified complications</td>	K50.019	Crohn's disease of small intestine with unspecified complications	
K50.112Crohn's disease of large intestine with intestinal obstructionK50.113Crohn's disease of large intestine with fistulaK50.114Crohn's disease of large intestine with abscessK50.118Crohn's disease of large intestine with other complicationK50.119Crohn's disease of large intestine with unspecified complicationsK50.80Crohn's disease of both small and large intestine with other complicationsK50.81Crohn's disease of both small and large intestine with rectal bleedingK50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with abscessK50.814Crohn's disease of both small and large intestine with other complicationsK50.815Crohn's disease of both small and large intestine with other complicationK50.818Crohn's disease of both small and large intestine with abscessK50.819Crohn's disease of both small and large intestine with other complicationK50.810Crohn's disease of both small and large intestine with unspecified complicationsK50.819Crohn's disease of both small and large intestine with unspecified complicationsK50.910Crohn's disease, unspecified, with rectal bleedingK50.911Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.915Crohn's disease, unspecified, with abscessK50.916Crohn's disease, unspecified, with abscessK50.917Crohn's disease, unspec	K50.10	Crohn's disease of large intestine without complications	
K50.113Crohn's disease of large intestine with fistulaK50.114Crohn's disease of large intestine with abscessK50.118Crohn's disease of large intestine with other complicationK50.119Crohn's disease of large intestine with unspecified complicationsK50.80Crohn's disease of both small and large intestine without complicationsK50.811Crohn's disease of both small and large intestine with rectal bleedingK50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with fistulaK50.814Crohn's disease of both small and large intestine with other complicationK50.815Crohn's disease of both small and large intestine with other complicationK50.816Crohn's disease of both small and large intestine with other complicationK50.817Crohn's disease of both small and large intestine with unspecified complicationsK50.818Crohn's disease of both small and large intestine with unspecified complicationsK50.910Crohn's disease, unspecified, with rectal bleedingK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.915Crohn's disease, unspecified, with abscessK50.918Crohn's disease, unspecified, with other complication	K50.111	Crohn's disease of large intestine with rectal bleeding	
K50.114Crohn's disease of large intestine with abscessK50.118Crohn's disease of large intestine with other complicationK50.119Crohn's disease of large intestine with unspecified complicationsK50.80Crohn's disease of both small and large intestine without complicationsK50.81Crohn's disease of both small and large intestine with rectal bleedingK50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with fistulaK50.814Crohn's disease of both small and large intestine with abscessK50.815Crohn's disease of both small and large intestine with other complicationK50.816Crohn's disease of both small and large intestine with unspecified complicationsK50.818Crohn's disease of both small and large intestine with other complicationK50.819Crohn's disease of both small and large intestine with unspecified complicationsK50.910Crohn's disease, unspecified, with rectal bleedingK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.915Crohn's disease, unspecified, with abscessK50.916Crohn's disease, unspecified, with other complication	K50.112	Crohn's disease of large intestine with intestinal obstruction	
K50.118Crohn's disease of large intestine with other complicationK50.119Crohn's disease of large intestine with unspecified complicationsK50.80Crohn's disease of both small and large intestine without complicationsK50.81Crohn's disease of both small and large intestine with rectal bleedingK50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with intestinal obstructionK50.814Crohn's disease of both small and large intestine with fistulaK50.815Crohn's disease of both small and large intestine with abscessK50.816Crohn's disease of both small and large intestine with other complicationK50.817Crohn's disease of both small and large intestine with unspecified complicationsK50.818Crohn's disease of both small and large intestine with unspecified complicationsK50.910Crohn's disease, unspecified, without complicationsK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.915Crohn's disease, unspecified, with abscessK50.918Crohn's disease, unspecified, with abscess	K50.113	Crohn's disease of large intestine with fistula	
K50.119Crohn's disease of large intestine with unspecified complicationsK50.80Crohn's disease of both small and large intestine without complicationsK50.81Crohn's disease of both small and large intestine with rectal bleedingK50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with intestinal obstructionK50.814Crohn's disease of both small and large intestine with fistulaK50.815Crohn's disease of both small and large intestine with abscessK50.816Crohn's disease of both small and large intestine with other complicationK50.817Crohn's disease of both small and large intestine with unspecified complicationsK50.818Crohn's disease of both small and large intestine with unspecified complicationsK50.819Crohn's disease, unspecified, without complicationsK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with intestinal obstructionK50.914Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.915Crohn's disease, unspecified, with other complicationK50.914Crohn's disease, unspecified, with other complication	K50.114	Crohn's disease of large intestine with abscess	
K50.80Crohn's disease of both small and large intestine without complicationsK50.811Crohn's disease of both small and large intestine with rectal bleedingK50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with fistulaK50.814Crohn's disease of both small and large intestine with abscessK50.818Crohn's disease of both small and large intestine with other complicationK50.819Crohn's disease of both small and large intestine with unspecified complicationsK50.900Crohn's disease, unspecified, without complicationsK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with intestinal obstructionK50.914Crohn's disease, unspecified, with intestinal obstructionK50.915Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with other complicationK50.915Crohn's disease, unspecified, with other complication	K50.118	Crohn's disease of large intestine with other complication	
K50.811Crohn's disease of both small and large intestine with rectal bleedingK50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with fistulaK50.814Crohn's disease of both small and large intestine with abscessK50.818Crohn's disease of both small and large intestine with other complicationK50.819Crohn's disease of both small and large intestine with unspecified complicationsK50.90Crohn's disease, unspecified, without complicationsK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.915Crohn's disease, unspecified, with abscessK50.914Crohn's disease, unspecified, with other complicationK50.918Crohn's disease, unspecified, with other complication	K50.119	Crohn's disease of large intestine with unspecified complications	
K50.812Crohn's disease of both small and large intestine with intestinal obstructionK50.813Crohn's disease of both small and large intestine with fistulaK50.814Crohn's disease of both small and large intestine with abscessK50.818Crohn's disease of both small and large intestine with other complicationK50.819Crohn's disease of both small and large intestine with unspecified complicationsK50.90Crohn's disease, unspecified, without complicationsK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.918Crohn's disease, unspecified, with other complication	K50.80	Crohn's disease of both small and large intestine without complications	
K50.813Crohn's disease of both small and large intestine with fistulaK50.814Crohn's disease of both small and large intestine with abscessK50.818Crohn's disease of both small and large intestine with other complicationK50.819Crohn's disease of both small and large intestine with unspecified complicationsK50.90Crohn's disease, unspecified, without complicationsK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.918Crohn's disease, unspecified, with other complication	K50.811	Crohn's disease of both small and large intestine with rectal bleeding	
K50.814Crohn's disease of both small and large intestine with abscessK50.818Crohn's disease of both small and large intestine with other complicationK50.819Crohn's disease of both small and large intestine with unspecified complicationsK50.90Crohn's disease, unspecified, without complicationsK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.918Crohn's disease, unspecified, with other complication	K50.812	Crohn's disease of both small and large intestine with intestinal obstruction	
K50.818Crohn's disease of both small and large intestine with other complicationK50.819Crohn's disease of both small and large intestine with unspecified complicationsK50.90Crohn's disease, unspecified, without complicationsK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.918Crohn's disease, unspecified, with other complication	K50.813	Crohn's disease of both small and large intestine with fistula	
K50.819Crohn's disease of both small and large intestine with unspecified complicationsK50.90Crohn's disease, unspecified, without complicationsK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.918Crohn's disease, unspecified, with other complication	K50.814	Crohn's disease of both small and large intestine with abscess	
K50.90Crohn's disease, unspecified, without complicationsK50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.918Crohn's disease, unspecified, with other complication	K50.818	Crohn's disease of both small and large intestine with other complication	
K50.911Crohn's disease, unspecified, with rectal bleedingK50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.918Crohn's disease, unspecified, with other complication	K50.819	Crohn's disease of both small and large intestine with unspecified complications	
K50.912Crohn's disease, unspecified, with intestinal obstructionK50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.918Crohn's disease, unspecified, with other complication	K50.90	Crohn's disease, unspecified, without complications	
K50.913Crohn's disease, unspecified, with fistulaK50.914Crohn's disease, unspecified, with abscessK50.918Crohn's disease, unspecified, with other complication	K50.911	Crohn's disease, unspecified, with rectal bleeding	
K50.914 Crohn's disease, unspecified, with abscess K50.918 Crohn's disease, unspecified, with other complication	K50.912	Crohn's disease, unspecified, with intestinal obstruction	
K50.918 Crohn's disease, unspecified, with other complication	K50.913	Crohn's disease, unspecified, with fistula	
	K50.914	Crohn's disease, unspecified, with abscess	
K50.919 Crohn's disease, unspecified, with unspecified complications	K50.918	Crohn's disease, unspecified, with other complication	
	K50.919	Crohn's disease, unspecified, with unspecified complications	



Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determination (NCD), Local Coverage Determinations (LCDs), and Local Coverage Articles (LCAs) may exist and compliance with these policies is required where applicable. They can be found at: http://www.cms.gov/medicare-coverage-database/search/advanced-search.aspx. Additional indications may be covered at the discretion of the health plan.

	Medicare Part B Administrative Contractor (MAC) Jurisdictions		
Jurisdiction	Applicable State/US Territory	Contractor	
E (1)	CA, HI, NV, AS, GU, CNMI	Noridian Healthcare Solutions, LLC	
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC	
5	KS, NE, IA, MO	Wisconsin Physicians Service Insurance Corp (WPS)	
6	MN, WI, IL	National Government Services, Inc. (NGS)	
H (4 & 7)	LA, AR, MS, TX, OK, CO, NM	Novitas Solutions, Inc.	
8	MI, IN	Wisconsin Physicians Service Insurance Corp (WPS)	
N (9)	FL, PR, VI	First Coast Service Options, Inc.	
J (10)	TN, GA, AL	Palmetto GBA, LLC	
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA, LLC	
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.	
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)	
15	кү, он	CGS Administrators, LLC	

Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCD/LCA): N/A