RATIONALE FOR INCLUSION IN PA PROGRAM

Background
Tysabri is used to prevent episodes of symptoms and slow the worsening of disability in patients with relapsing forms (course of disease where symptoms flare up from time to time) of multiple sclerosis (MS). Tysabri is also used to treat and prevent episodes of symptoms in people who have Crohn’s disease (a condition in which the body attacks the lining of the digestive tract, causing pain, diarrhea, weight loss, and fever) who have not been helped by other medications or who cannot take other medications. Tysabri is in a class of medications called immunomodulators. It works by stopping certain cells of the immune system from reaching the brain and spinal cord and causing damage (1).

Regulatory Status
FDA-approved indication: Tysabri is an integrin receptor antagonist indicated for treatment of (1):

Multiple Sclerosis (MS) - As monotherapy for the treatment of patients with relapsing forms of multiple sclerosis. Tysabri increases the risk of PML. Tysabri is generally recommended for patients who have had an inadequate response to, or are unable to tolerate, an alternate MS therapy. When initiation or continuing treatment with Tysabri, physicians should consider whether the expected benefit of Tysabri is sufficient to offset the risks.

Crohn’s Disease (CD) - Inducing and maintaining clinical response and remission in adult patients with moderately to severely active Crohn’s disease with evidence of inflammation who have had an inadequate response to, or are unable to tolerate, conventional CD therapies and inhibitors of TNF-α.

Limitations of Use: (1)
In Crohn’s disease, Tysabri should not be used in combination with immunosuppressants (e.g., 6-mercaptopurine, azathioprine, cyclosporine, or methotrexate) or inhibitors of TNF-α.

Tysabri carries a boxed warning regarding the risk of progressive multifocal leukoencephalopathy (PML), an opportunistic viral infection of the brain that usually leads to death or severe disability. Tysabri is contraindicated in patients who have or have had progressive multifocal leukoencephalopathy (PML). Monitor patients and withhold Tysabri at the first sign or symptom suggestive of PML. Duration of Tysabri exposure, prior immunosuppressant use, and presence of
anti-JC virus antibodies are associated with increased risk of PML in Tysabri-treated patients. There is limited experience in patients who have received more than 4 years of Tysabri treatment (1).

The immune system effects of Tysabri may increase the risk for infections. Concurrent use of antineoplastic, immunosuppressant, or immunomodulating agents may further increase the risk of infections, including PML, and other opportunistic infections, over the risk observed with the use of Tysabri alone. Patients should be monitored for development of infections due to increased risk with use of Tysabri (1).

The safety and efficacy of Tysabri in combination with antineoplastic, immunosuppressant, or immunomodulating agents have not been established. Patients receiving chronic immunosuppressant or immunomodulatory therapy or who have systemic medical conditions resulting in significantly compromised immune system function should not ordinarily be treated with Tysabri. The risk of PML is also increased in patients who have been treated with an immunosuppressant prior to receiving Tysabri (1).

For patients with Crohn’s disease who start Tysabri while on chronic corticosteroids, commence steroid withdrawal as soon as a therapeutic benefit has occurred. If the patient cannot discontinue systemic corticosteroids within six months, discontinue Tysabri (1).

Clinically significant liver injury has occurred. Signs of liver injury, including markedly elevated serum hepatic enzymes and elevated total bilirubin, occurred as early as six days after the first dose; signs of liver injury have also been reported for the first time after multiple doses. Tysabri should be discontinued in patients with jaundice or evidence of liver injury (1).

Because of the risk of PML, Tysabri is available only under a restricted distribution program, the TOUCH Prescribing Program (1).

Live, attenuated vaccines are generally not recommended for a person with MS because their ability to cause disease has been weakened but not totally inactivated (2).

Safety and effectiveness of Tysabri in pediatric patients with multiple sclerosis or Crohn's disease below the age of 18 years have not been established. Tysabri is not indicated for use in pediatric patients (1).
Summary

Tysabri is used to prevent episodes of symptoms and slow the worsening of disability in patients with relapsing forms of multiple sclerosis. Tysabri is also used to treat and prevent episodes of symptoms in people who have Crohn's disease who have not been helped by other medications or who cannot take other medications. In CD, Tysabri should not be used in combination with immunosuppressants or inhibitors of TNF-α. Tysabri carries a boxed warning regarding the risk of progressive multifocal leukoencephalopathy (PML). The immune system effects of Tysabri may increase the risk for infections. The safety and efficacy of Tysabri in combination with antineoplastic, immunosuppressant, or immunomodulating agents have not been established. Tysabri is not indicated for use in pediatric patients. Tysabri should be discontinued in patients with jaundice or evidence of liver injury. Because of the risk of PML, Tysabri is available only under a special restricted distribution program, the TOUCH prescribing program (2).

Prior approval is required to ensure the safe, clinically appropriate and cost effective use of Tysabri while maintaining optimal therapeutic outcomes.

References