

Protocol for Transthyretin-mediated Amyloidosis (ATTR) Products Approved by NJ DURB, October 2019

Onpattro® (patisiran)
Vyndaqel® and Vyndamax® (tafamidis meglumine)
Tegsedi® (inotersen)

Background:

Onpattro® (patisiran) contains a transthyretin-directed small interfering RNA and is indicated for the treatment of the polyneuropathy of hereditary transthyretin-mediated amyloidosis in adults.

Vyndaqel® (tafamidis meglumine) and **Vyndamax®** (tafamidis) are transthyretin stabilizers indicated for the treatment of the cardiomyopathy of wild type or hereditary transthyretin-mediated amyloidosis in adults to reduce cardiovascular mortality and cardiovascular-related hospitalization.

Tegsedi® (inotersen) is a transthyretin-directed antisense oligonucleotide indicated for the treatment of the polyneuropathy of hereditary transthyretin-mediated amyloidosis in adults.

Criteria for approval:

- 1. Documentation of diagnosis is confirmed by genotyping, biopsy, immunohistochemical analysis, scintigraphy, or mass spectrometry
- 2. Medication is prescribed by or in consultation with a neurologist, cardiologist, or a specialist in the treatment of ATTR.
- 3. Patient has clinical signs and symptoms of the disease (for example, peripheral sensorimotor polyneuropathy, motor disability, cardiovascular dysfunction, carpal tunnel syndrome, etc.)
- 4. Weight must be received for drugs that have weight-based dosing. Height and weight must be received for drugs that have dosing based on body surface area.
- 5. Medication is prescribed in accordance with Food and Drug Administration (FDA) established indication and dosing regimens or in accordance with medically appropriate off-label indication and dosing according to American Hospital Formulary Service, Micromedex, Clinical Pharmacology, or national guidelines.
- 6. The patient will not be receiving the requested drug with any other drugs listed in the policy index

For Onpattro® requests:

- a. Patient is 18 years or older
- b. Patient has a diagnosis of polyneuropathy of hereditary transthyretin-mediated Amyloidosis

For Vyndagel® and Vyndamax® requests:

 Medication is being used to treat cardiomyopathy of wild type or hereditary transthyretinmediated amyloidosis (ATTR-CM) to reduce cardiovascular mortality and cardiovascular-related hospitalization

For Tegsedi® requests:

a. Patient is 18 years or older

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- Patient has a diagnosis of polyneuropathy of hereditary transthyretin-mediated amyloidosis
- c. The member must not have any of the following contraindications:
 - i. Patient has platelet count < 100,000/mm3
 - ii. History of acute glomerulonephritis caused by Tegsedi

Continuation of therapy:

- Documentation that patient has experienced a positive clinical response to medication (for example, improved neurologic impairment, motor function, quality of life, etc.)
- 2. Medication is prescribed in accordance with Food and Drug Administration (FDA) established indication and dosing regimens or in accordance with medically appropriate off-label indication and dosing according to American Hospital Formulary Service, Micromedex, Clinical Pharmacology, or national guidelines.
- 3. For dose increases, weight must be received for drugs that have weight-based dosing. For dose increases, height and weight must be received for drugs that have dosing based on body surface area.

Approval Duration: 6 months

Tegsedi® Boxed Warning

WARNING: THROMBOCYTOPENIA AND GLOMERULONEPHRITIS See full prescribing information for complete boxed warning. Thrombocytopenia • TEGSEDI causes reductions in platelet count that may result in sudden and unpredictable thrombocytopenia, which can be life-threatening. • Testing prior to treatment and monitoring during treatment is required Glomerulonephritis • TEGSEDI can cause glomerulonephritis that may require immunosuppressive treatment and may result in dialysis dependent renal failure. • Testing prior to treatment and monitoring during treatment is required TEGSEDI is available only through a restricted distribution program called the TEGS EDI REMS Program

References:

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- 5. Maurer MS, Schwartz JH, Gundepaneni B, et al. Tafamidis Treatment for Patients with Transthyretin Amyloid Cardiomyopathy. N Engl J Med 2018; 379:1007-1016.
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- 13. Benson MD, Waddington-Cruz M, Berk JL. Inotersen Treatment for Patients with Hereditary Transthyretin Amyloidosis. N Engl J Med 2018;379:22-31