



Medical Necessity Guideline: Osgood-Schlatter	Creation	Review	Effective
Disease – Physical Therapy, Occupational	Date:	Update:	Date:
Therapy, and Orthoses	09/01/2007	05/31/2024	06/11/2024

PURPOSE:

To outline the Driscoll Health Plan (DHP) indications and requirements for requests for Physical and Occupational therapy (PT and OT) aimed to strengthen and condition the painful affected knees of adolescents during growth spurt periods - Osgood-Schlatter disease.

DEFINITIONS:

Osgood-Schlatter Disease - a tibial tubercle apophysitis resulting from repetitive strain on the patellar tendon insertion.

GUIDELINE:

DHP considers limited physical therapy (PT) or occupational therapy (OT) sessions medically necessary to instruct the member in:

- A home exercise, strengthening, and exercise program.
- Provide education on the natural history of this aggravating, but self-limited disease
- Modifications of activities of daily living, avoidance or modification of aggravating activities, instructions in strapping and/or elastic bracing

Current evidence does not support aggressive therapy in this self-limited disease; DHP will consider brief, limited therapy that rapidly transitions to a home program. DHP will consider additional therapy sessions if there is a functional need after documentation of compliance with an appropriate home program and an adequate period of therapeutic rest.

Though the evidence for the use of foot orthoses and complex knee braces is lacking for this diagnosis, DHP will consider requests for foot orthoses and knee braces in cases that are unresponsive to therapeutic rest and appropriate and conservative treatment.

Required Documentation: DHP requires documentation of history and course of the condition, limitations in Activities of Daily Living, treatments, medications, and trials of other modalities, including Over-the-counter items, along with the results of their use.

BACKGROUND:

Osgood-Schlatter syndrome (OSS) is the most common cause of knee pain in adolescents, especially those who participate in sports. The incidence has been reported as 21% among

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adolescent athletes compared to 4.5% among adolescent nonathletes. The incidence rate has been reported as 9.8% among the general adolescent population. ^(1, 5)

During activities involving running, jumping, and bending (e.g., soccer, basketball, volleyball, and ballet), the child's thigh muscles (quadriceps) pull on the tendon that connects the kneecap to the growth plate at the top of the shinbone. ⁽⁴⁾ This repeated stress can cause the tendon to pull on the growth plate where the tendon inserts into the shinbone, resulting in the pain and swelling associated with Osgood-Schlatter disease, ^{(2, 3);} other overuse syndromes and other knee disorders. ^(6, 7, 8)

Osgood-Schlatter disease usually resolves without formal treatment. Symptoms typically disappear after the child's bones stop growing – closure of the tibial tuberosity growth plate but may persist >1-2 years beyond skeletal maturity ⁽⁵⁾. About 90% of patients respond well to conservative treatment plans that include relative rest with activity modification (including avoidance of activities that reproduce pain), cryotherapy for pain management, therapeutic exercises, and patient education as the primary components. ^(1, 2, 3) However, symptoms may persist for 12-24 months before complete resolution. ^(1, 2, 3)

There is strong evidence that supports appropriate strengthening, primarily the quadriceps. However, exercise and aggravating activity should be performed only if pain-free to decrease the risk of tibial tubercle avulsion therapy. Initially, isometric quadriceps exercises may be indicated if there is atrophy and significant pain. ⁽¹⁾

There is scarce evidence in the literature to support aggressive physical therapy interventions. ^(1, 2)

Support for custom or complex knee and foot orthotics, over taping, sleeves, and other over-thecounter modalities is scarce in the literature. Only one citation addresses knee orthotics^{. (2, 3,4)}

PROVIDER CLAIMS CODES:

ICD 10		
M92.4	Juvenile osteochondrosis of the patella	

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DOCUMENT HISTORY:

DHP Committee that Approved		Review A	pproval Date	(last 5 years)	
Medical Director	06/07/2022	05/23/2023	05/31/2024		
СМО	06/07/2022	06/06/2023	06/11/2024		
Medical Policy Workgroup	06/07/2022	06/06/2023	06/11/2024		
Utilization Management & Appeals	06/21/2022	06/20/2023	06/18/2024		
Provider Advisory Committee	06/17/2022	06/09/2023	07/01/2024		
Clinical Management Committee	06/24/2022 & 08/23/2022	07/20/2023	07/24/2024		
Executive Quality Committee	06/28/2022	07/25/2023	07/30/2024		

Document Owner	Organization	Department
Dr. Fred McCurdy, Medical Director	Driscoll Health Plan	Utilization Management

Review/Revision Date	Review/Revision Information, etc.
03/04/2014 &	No changes
09/01/2015	
11/28/2016	No changes
11/28/2017	No changes
11/15/2018	Updated reference
11/30/2019	Updated to the new format by Dr. Brendel – additional language and references added. Modified authorization to 1 low-level evaluation and 3 – 1-hour PT/OT sessions. Added Prior Authorization for foot orthotics and knee braces.

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05/13/2020	Updated to the new format. Rewording. Updating of references. Added
	pertinent codes
06/03/2020	Dr. Serrao – minor improvements in language
06/16/2020	Additional editing of material
05/18/2021	Updated and/or validated referenced and codes
05/20/2022	Reviewed and updated by Dr. Albert Gest
05/23/2022	Reviewed and edited by Dr. Fred McCurdy
05/23/2023	Reviewed by Drs Noorullah Akthar and Fred McCurdy
05/31/2024	Reviewed and revised by Drs. Lenore Depagter and Fred McCurdy

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