



Medical Necessity Guideline:	Creation	Review	Effective
Patellofemoral Pain Syndrome (Runner's Knee)	Date:	Update:	Date:
	09/01/2007	05/23/2024	06/11/2024

PURPOSE:

To define authorization requirements for therapy with the diagnosis of Patellofemoral Pain Syndrome (PFPS, Runner's Knee).

LINE OF BUSINESS: STAR, STAR Kids, and CHIP

DEFINITIONS:

PFPS – a condition characterized by pain in the peripatellar/retropatellar area that aggravates with at least one activity that loads the patellofemoral joint during weightbearing on a flexed knee (e.g., squatting, stair climbing, jogging/running, and hopping/jumping). ⁽¹⁾

GUIDELINE:

DHP finds benefit and medical necessity for a limited number of therapy (low intensity and low frequency) encounters for a member with Patellofemoral Pain Syndrome.⁽⁵⁾

Additional modalities such as knee braces or foot orthotics alone or in combination with exercises will require additional documentation of medical necessity as there is limited evidence that these modalities are routinely useful. Braces and foot orthotics may be considered in cases that are unresponsive to conventional therapy.

Documentation Requirements: The treatment plan should indicate that these sessions will be dedicated to an evaluation, initial treatment, and instruction in proper strengthening exercises for the knee and hip with a rapid transition to a home program. The home program should emphasize therapeutic rest and avoidance of aggravating activities. Requests for other modalities, braces, or orthotics require documentation of unresponsiveness to appropriate trials of conventional therapy with good compliance with a home program and appropriate modification of activities and therapeutic rest.

BACKGROUND:

Patellofemoral pain affects physically active and sedentary individuals, accounting for 11 - 17% of knee pain presentations to general practice and 25 - 40% of all knee problems seen in a sports injury clinic ^(2, 3). Patellofemoral pain is characterized by anterior knee pain associated with





activities such as squatting, rising from sitting, and stair ambulation. While traditionally viewed as self-limiting, increasing research data suggest that patellofemoral pain is often recalcitrant and can persist for many years, and may cause a decline in sports participation ⁽⁴⁾.

Despite the high prevalence, chronicity, and burden, PFP continues to be one of the most difficult musculoskeletal conditions managed by medical professionals. It is evident that greater pain severity and longer symptom duration are indicators of poor prognosis. So, early efficient intervention may be crucial to limit the long-term effects of the condition. ⁽²⁾

The recommendations made by an expert panel at the 4th International Patellofemoral Pain Research Retreat ⁽⁴⁾ for the management of PFP are as follows:

- 1. Exercise therapy is recommended to reduce pain in the short, medium, and long term and improve function in the medium and long term.
- 2. Combining hip and knee exercises is recommended to reduce pain and improve function in the short, medium, and long term, and this combination should be used in preference to knee exercises alone.
- 3. Combined interventions are recommended to reduce pain in adults with patellofemoral pain in the short and medium term.
- 4. Foot orthoses are recommended to reduce pain in the short term.
- 5. Patellofemoral, knee, and lumbar mobilizations are not recommended.
- 6. Electrophysical agents are not recommended.

There is moderate evidence that knee braces have no additional benefit over exercise therapy on pain and function. There is also moderate evidence for no significant difference in efficiency between knee braces and exercise therapy versus placebo knee braces and exercise therapy ⁽³⁾.

Foot orthosis may not be helpful for all patients with PFP and identifying those most likely to benefit from foot orthosis is important. Published studies have described clinical characteristics that can be used to predict success with foot orthosis intervention, including greater midfoot mobility, less ankle dorsiflexion, and immediate improvements in PFP when performing a single-leg squat with foot orthosis⁽²⁾.

Due to the multifactorial nature of PFP, the clinical approach should be individualized, and the contribution of different risk factors, including local, proximal (trunk and hip), and distal (foot) factors, should be considered and managed accordingly. This approach may add to the treatment effects on pain and function in patients $^{(2, 6, 7)}$.





PROVIDER CLAIMS CODES:

СРТ		
97110	Therapeutic exercise	
97112	Neuromuscular reeducation	
97113	Aquatic therapy/exercises	
97116	Gait training therapy	
97124	Massage therapy	
97140	Manual therapy 1/> regions	
97530	Therapeutic activities	
97535	Self- Care mgmt training	
97537	Community/work reintegration	
97014	Electrical stimulation - unattended	

ICD-10		
M22	disorders of patella	
M22.2	patellofemoral disorders	
M22.3	other derangements of patella	
M22.4	chondromalacia patella	
M22.8	other disorders of patella	
M22.9	disorders of patella, unspecified	
M76.5	patellar tendinitis	
S76.1	injury of quadriceps muscle and tendon	
M65.86	other synovitis and tenosynovitis, lower extremity	
M67.50	plica syndrome, unspecified knee	
M24.469	recurrent dislocation of knee	
M24.4	recurrent dislocation of joint	
S83	Dislocation and sprain of joints and ligaments of	
	knee	
M25.361	Instability of the knee	
M25.362	Instability of the knee	
M25.30	Instability of joint	
M92.4	Juvenile osteochondrosis of patella	

<u>REFERENCES</u>:

 Crossley KM, Stefanik JJ, Selfe J, et al. 2016 Patellofemoral pain consensus statement from the 4th International Patellofemoral Pain Research Retreat, Manchester. Part 1: Terminology, definitions, clinical examination, natural history, patellofemoral osteoarthritis and patient-reported outcome measures. *Br J Sports Med*. 2016;50(14):839-843. doi:10.1136/bjsports-2016-096384





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- 3. Swart NM, van Linschoten R, Bierma-Zeinstra SM, van Middelkoop M. The additional effect of orthotic devices on exercise therapy for patients with patellofemoral pain syndrome: a systematic review. *Br J Sports Med.* 2012; 46 (8):570–577. [PubMed]; https://www.ncbi.nlm.nih.gov/pubmed/21402565; Abstract accessed 05/22/2022.
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- 5. Texas Medicaid Provider Procedure Manual (Current Edition); Physical, Occupational, and Speech Therapy Services Handbook, Section 4.6 (Frequency and Duration Criteria for PT, OT, and ST services) (May 2024).
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DOCUMENT HISTORY:

DHP Committee that Approved		Review 2	Approval Daté	e (last 5 year	rs)	
Medical	06/07/2022	05/23/2023	05/22/2024			
Director						
СМО	06/07/2022	06/06/2023	06/11/2024			
Medical Policy	06/07/2022	06/06/2023	06/11/2024			
Workgroup						
Utilization	06/21/2022	06/20/2023	06/18/2024			
Management &						
Appeals						
Provider	06/17/2022	06/09/2023	07/01/2024			
Advisory						
Committee						
(PAC)						
Clinical	06/24/2022	07/20/2023	07/24/2024			
Management	&					
Committee	08/23/2022					
Executive	06/28/2022	07/25/2023	07/30/2024			
Quality						
Committee						

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	No changes
11/28/2016	No changes
11/28/2017	No changes
11/15/2018	Added PT reference
11/30/2019	Format change, language change, and updated references
05/15/2020	Extensive rewrite of the guideline, updated references, codes, and
05/15/2020	conversion to newer format – Dr. Akthar





06/03/2020	Simple revisions by Dr. Brendel and Dr. Serrao
06/16/2020	Additional revisions by Dr. Brendel
05/17/2021	Updated references, 2 new references, codes verified by Dr. Brendel
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 Dr. Fred McCurdy
05/22/2024	Reviewed and revised by Michele Hayes (PT) and Dr. Fred McCurdy

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4525 Ayers St. Corpus Christi, Texas 78415 Telephone (877) 455-1053 Fax (866) 741-5650