

# Non-Operative Patella Fracture

## Physical Therapy Protocol

### Phase 1: Weeks 0–4

#### Range of Motion (ROM):

- Hinged knee brace locked at 0 degrees
- Intermittent active and active-assisted flexion with passive extension for 5–10 minutes, 4 times daily
- Patellar mobilization activity
- Remain within 0–45 degrees of ROM

#### Strengthening:

- Isometric hamstrings using an endurance protocol: 10–40 repetitions per set, 5 sets per day

#### Weight Bearing:

- 100% weight bearing with brace locked in full extension

#### Modalities:

- EMG biofeedback to hamstrings (not quadriceps), as needed

**“Dr. Trevor” Stefanski, M.D.**  
Minimally Invasive Joint Specialist  
[DrTrevor.com/PT](http://DrTrevor.com/PT) for a printable copy

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- Electrical muscle stimulation (EMS) to hamstrings, as needed
- Cryotherapy

Sports:

- None
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## **Phase 2: Weeks 4–6**

Range of Motion (ROM):

- Advance ROM as tolerated
- Brace locked in full extension when ambulating only

Strengthening:

- Initiate quadriceps strengthening and straight leg raises (SLR)

Weight Bearing:

- Continue 100% weight bearing with brace locked in full extension

Modalities:

- As needed (per Phase 1)

Sports:

Phone: 513-232-2663  
Fax: 513-985-2580

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Minimally Invasive Joint Specialist  
DrTrevor.com/PT for a printable copy

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- None
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### **Phase 3: Weeks 6–8**

(No details provided; assumed progression of Phase 2 if applicable)

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### **Phase 4: Weeks 8–12 (and beyond if applicable)**

Range of Motion (ROM) and Brace Use:

- If not already weaned off brace, continue ROM and strengthening to facilitate brace discontinuation
- ROM and strengthening as tolerated

Modalities:

- As needed

Sports:

- Progress through a graduated running program (e.g., functional rehabilitation program)
- Resume primary sports if:
  - Near full ROM is achieved

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- At least 80% quadriceps and hamstring strength compared to contralateral limb

**Return to Sport:**

- Typically 3–4 months post-injury
- May include progression through a work conditioning program, if applicable

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