



## Indiana University Health

IU Health Physicians Orthopedics & Sports Medicine

## AUTOLOGOUS CHONDROCYTE IMPLANTATION (ACI) OF PATELLOFEMORAL JOINT (PATELLA / TROCHLEA) WITH TIBIAL TUBERCLE OSTEOTOMY AND MPFL RECONSTRUCTION

## PHYSICAL THERAPY PROTOCOL

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| Patient Name:     |       |        | Date of Surgery:               |   |  |
|-------------------|-------|--------|--------------------------------|---|--|
| Evaluate and Tre  | eat   | Pı     | ovide patient with home progra | m |  |
| Frequency: _      | x/v   | veek x | weeks                          |   |  |
| WEIGHT            |       |        |                                |   |  |
| WEIGHT<br>BEARING | BRACE | ROM    | EXERCISES                      |   |  |



| PHASE I  0-2 weeks | Non-weight<br>bearing |  | passive 0-45° | Quad sets, patellar mobs, SLR, calf<br>pumps at home<br>CPM at home |
|--------------------|-----------------------|--|---------------|---|
|--------------------|-----------------------|--|---------------|---|



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|----|--|----------|--|
|    |  | CPM 0-30 |  |
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|        |                   | 2-4 weeks:     | 2-4 weeks:  | <b>2-6 weeks</b> : Add side-lying hip and   |
|--------|-------------------|----------------|-------------|---|
|        |                   | Unlocked 0-45° | CPM 0-60°   | core, advance quad set and stretching       |
|        | 2-6 weeks:        |                |             | , , ,                                       |
| PHASE  | Non-WB            | 4-6 weeks:     | 4-6 weeks:  | <b>6-8 weeks</b> : Addition of heel raises, |
| II     |                   | . c meener     | CPM 0-90°   | total gym (closed chain), gait              |
|        | 6-8 weeks:        | Unlocked 0-90° | 01 101 0 30 | normalization, eccentric quads,             |
| 2-8    | Advance 25%       | Officered 0-90 | Advance     | eccentric hamstrings                        |
| weeks  | weekly until full | Diagontinus    | ROM as      | eccentific flamsungs                        |
|        | Weekly until full |                | tolerated   | Advance core glutes and polyic              |
|        |                   | brace at 6     | when non-WB | Advance core, glutes and pelvic             |
|        |                   | weeks          | when hon-wb | ,   |
|        |                   |                |             | Progress closed chain activities            |
| PHASE  |                   |                |             |   |
| III    |                   |                |             | Advance hamstring work,                     |
|        | Full              | None           | Full        | proprioception/balance exercises;           |
| 8-12   |                   |                |             | hip/core/glutes                             |
| weeks  |                   |                |             |   |
|        |                   |                |             | Begin stationary bike at 10 wk              |
|        |                   |                |             | Progress Phase III exercises and            |
| PHASE  |                   |                |             | functional activities: walking lunges,      |
| IV     | <b>–</b> "        |                |             | planks, bridges, swiss ball, half-bosu      |
|        | Full              | None           | Full        | exercises                                   |
| 12-24  |                   |                |             |   |
| weeks  |                   |                |             | Advance core/glutes and balance             |
| PHASE  |                   |                |             |   |
| V      |                   |                |             | Advance all activity w/o impact such as     |
|        | Full              | None           | Full        | running, jumping, pivoting, sports until    |
| 6-12   |                   |                |             | cleared by MD                               |
| months |                   |                |             | ,   |
|        | l .               | 1              | 1           | 1   |

<sup>\*</sup>Brace may be removed for sleeping after first post-operative visit (day 7-14)

| , , ,                 | t I have examined this patient and physical therapy is wouldwould not benefit from social services. |
|-----------------------|---|
|                       | Date:   |
| Bryan M. Saltzman, MD |   |