



**EVOLUTION HEALTHCARE PVT. LTD.**

Pune office

Elysium clinic -1st, floor, 1132/2, vishnu  
Darshan society, Fergusson College Rd, above  
Rahul Medicals, Pune, Maharashtra 411016  
Tel- +91-7878466476, 7043456476,

Register office Surat

House no-27 Gitanagar society, next to geeta  
tyre, opp.to sanghvi tower Adajan, Surat, Pin-  
395009  
Tel-+91-9377466476, +91-8128996476,



# Knee brace

By Dr. Dillip Kumar Sahoo

Kolkata office

plot no -17, A-B block Santi pally, Near  
Meghalaya House, Kasba,, Kolkata, West  
Bengal 700107  
Tel- +91- 7878466476, 9038040666

Mumbai office

House No. 6, Shree Ram Appt,  
Durganagar, Ganesh Nagar, near ganesh  
talav ,Diva, Mumbai, Maharashtra 400612  
Tel- +91- 7878466476, 9038040666



# KNEE BRACES

- What are knee braces?
- Types of Knees Braces
- Describe Part of Knees Braces
- Use Knees Braces
- how to work Knees Braces



# KNEE BRACE



EVOLUTION HEALTHCARE PVT. LTD.

Knee braces fall into four categories, which are the following:

**A preventive knee brace (also known as a prophylactic brace)**



**Functional Knee Braces**



**Rehabilitative Knee Braces**



**Unloader or Offloader Knee Braces**



# Light Knee Brace Rs850 /pair



- Varicose veins are veins that have become end and tortuous, characterized by aching, pain, heaviness, inability to walk or stand for long hours thus hindering work, ankle swelling, and a brownish-blue shiny skin discoloration near the affected veins.
- Quadriceps strain is an inflammation and pain in the front of the thigh. It is common in sports like running, jumping and foot ball.
- It is caused by trauma, fatigue and exercise.
- It is characterized by pain, swelling and warmth over quadriceps muscles, muscle spasm or tightness, weakness and fatigue.



# Knee Brace - Long /Small Rs1250



- post operation total knee replacement post surgical knee immobilization e.g.. Cpl reconstruction post patella dislocations
- Collateral stabilization of knee relieves pain due to ligament or muscular injuries



# Hinge Knee Brace/ Febric type

**Rs1450**



- The hinge knee brace is perfect for people who suffer from knee instability and pain. It provides the knee with strong lateral stabilization—simply put, it prevents the knee from hyperextending or getting out of alignment.
- The hinge knee brace's rigid bars help keep the knee in place, as well as prevent further strain to the ligaments.



# OA Knee Support (Neoprene) Left Varus / Right Valgus Rs1680



- **OA Knee Support (Neoprene)** is designed scientifically to provide counter force to correct varus or valgus thrust along with some offloading action. It helps to allay pain within a few weeks of use. It can also correct mild to medium varus/ valgus deformity of the knee with a prolonged use.
- It offers the advantage of controlled compression around the knee and the rigid side support of a splint. It allows normal flexion and free movement of the knee joint.
- Perfect lateral splinting.
- Simple mechanism for counter force
- Controlled four way compression
- Provides therapeutic warmth
- Allay's pain in osteoarthritis of knee.



# Ossur knee braces Rs 17335

- Unloader One is a comfortable, lightweight, low-profile brace that provides excellent suspension and unloading leverage. Utilizing Össur's clinically proven 3-Points of Leverage, the dual Dynamic Force Straps are easily fine-tuned using the SmartDosing system. It is an adequate and non-interfering remedy countermeasure for patients having mild to moderate OA.
- Össur is the Rebound PCL, a dynamic force brace for rehabilitating posterior cruciate ligament (PCL) and ACL ruptures. The Rebound PCL is designed to stabilize the knee while providing appropriate levels of physiologic loading force during both knee extension and knee flexion, replicating the functional mechanics of the native PCL. It applies an anterior force on the posterior proximal tibia to counteract posterior translation, which helps improve posterior knee laxity following PCL injury. The Rebound PCL brace can be used in patients with acute PCL tears and for graft protection following PCL reconstruction.



EVOLUTION HEALTHCARE PVT. LTD.





# Ossur knee braces

- CTi knee braces have been tested and trusted by professional action sports athletes around the world. With product that is "Truly Custom" and our commitment to understanding and designing product to meet the unique demands of athletes, we have established a loyalty and awareness to the brand that is unmatched.

**Ossur Flex Ligament Knee Brace**  
Total Support System for ACL, MCL, LCL, PCL, rotary and combined instabilities  
Adjustable Tibial Strap captured the tibia and allows adjustments in hinge depth for a customized fit



# Unloader knee brace Rs62800

- Unloader One<sup>®</sup> is designed to relieve osteoarthritis knee pain and wearing it may help improve mobility. It features Össur's patented 3-point Leverage System, which combines a single hinge with dual Dynamic Force System<sup>™</sup> straps to generate unloading of the affected knee joint.
- Unloader One can be worn for your daily activities. Clinically proven to reduce the pain associated with unicompartmental osteoarthritis of the knee, this brace is designed for average to high-impact activities, indoors as well as outdoors. It can also help reduce your reliance on pain medication and avoid negative side-effects.



EVOLUTION HEALTHCARE PVT. LTD.



Knee OA without bracing  
(bone-on-bone contact)



The 3-Point Leverage  
System



Knee OA with bracing  
(space created between bones)

# United Medicare Rs14500

- O.A Knee Brace
- Polycentric physioglide hinge based on the principle of 4-chain lineage low profile , light weight frame and hinge construction easy to position, anatomically shaped version physioglide hinge ensures that the knee brace moves correctly and naturally with the knee movement. Ability to predefine the absorption load. Provides anterior tibial support avoids rubbing and unnecessary loading free popliteal area.



EVOLUTION HEALTHCARE PVT. LTD.

# Zodiacal Overseas **Rs14500**

- **K2 Comfortline Knee Orthosis**
- suitable for ligament injuries (such as ACL, PCL, MCL), Sports Injuries, Mild Osteoarthritis (OA) as well as for prevention of the knee joint from degeneration and maximizes comfort & minimizes brace migration.



## **K6 Deziire Knee Orthosis**

which effectively offloads the knee joint and transfers the body weight from thigh to calf without exerting much pressure on the knee joint  
ACL/PCL Instabilities & Ruptures  
Collateral Ligament Protection  
Sports Injuries  
Mild OA



# Zodiacal overseas **Rs14500**

- **K8- The OA Unloader**

- For unilateral compartment OA patient; mild to moderate OA helps to transfer the body weight and provide support to knee joint.

- Unique feature of inbuilt Allen-Key for correction of varus / valgus deformity with ROM angle adjustment.



- **K4 OsteoAlign Knee Orthosis**

- It is ideal for active patients as it gives a desired and comfortable fit. It is an adequate and non-interfering remedy countermeasure for patients having mild to moderate OA. The difference between advanced orthosis from others is that it moves body weight directly to the calf from the thigh without putting much pressure on the knee joint helping stabilize the knee and stops the increase of deterioration.



EVOLUTION HEALTHCARE PVT. LTD.

# Medi knee brace Rs42600

- **M.3 OA Knee Brace**

- M3OA comes as a varus/valgus brace which for example can be used as a right leg varus (medial) unloading brace or a left leg valgus (lateral) unloading brace. The unique flex-bar system allows the single upright strut to flex and provide effective pain relief and reduce point-loading pressure.

- **M.4 OA Comfort Knee Brace**

- The unique flex-bar system allows the strut opposing the loading mechanism to flex providing effective pain relief and reduce point-loading pressure and enhance patient comfort. The advantages of the flex-bar, loading mechanism and ability to align the brace to the individual patient combine with the soft-grip padding system and numbered straps to provide exceptional patient satisfaction and high compliance.



# Medi knee brace Rs56800

- **M.4s PCL Dynamic Knee Brace**
- brace family holds the tibia in the desired position by actively exerting a force via the PCL protection pad. The brace is very comfortable to wear with its light, flat construction and the comfortable non-slip pads. This leads to high patient compliance which makes treatment safer and increases the patient's mobility.



EVOLUTION HEALTHCARE PVT. LTD.

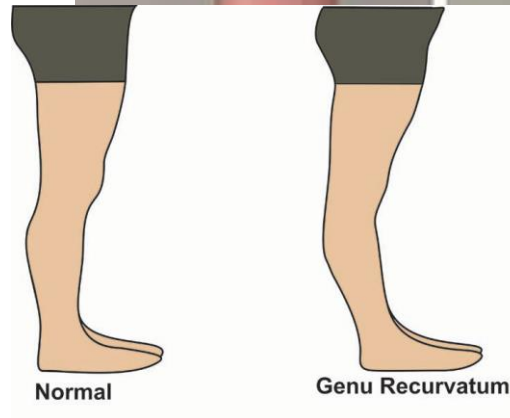
# Check brace for Hyper extension Rs34500

- Soft upper and lower suspension sleeves and popliteal interface combine with adjustable straps to hold the frame in position as the straps are adjusted to provide a “stop” to control ability of the knee to hyper-extend.



## Recommended Range Of Application:

- Genu recurvatum, unstable knee caused by laxity of the ligaments, mild valgus instability, mild varus instability, neurologic function impairment (post C.V.A.).







EVOLUTION HEALTHCARE PVT. LTD.

THANK YOU



[www.evolutionhealthcare.co.in](http://www.evolutionhealthcare.co.in)