

REHABILITATION MANUAL FOR AUTOLOGOUS ADULT LIVE CULTURED OSTEOBLASTS (OSSGROW™)

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INTRODUCTION

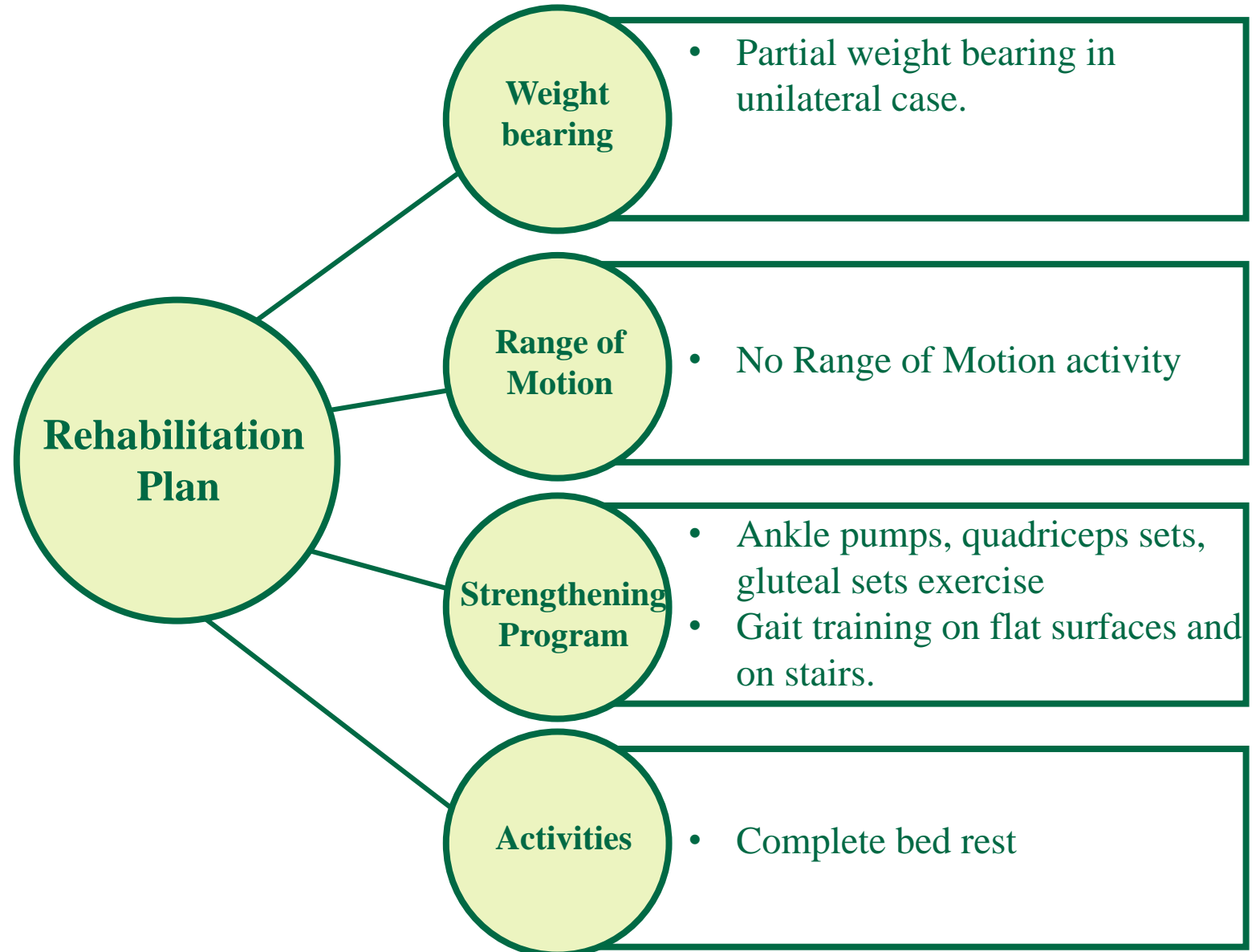


- After an injury or surgery, a rehabilitation manual will help patient return to daily activities and enjoy a more active, healthy lifestyle. Following a well structured rehabilitation manual will also help patient return to sports and other recreational activities.
- This is a general rehabilitation manual that provides a wide range of exercises.
- To ensure that the manual is safe and effective for you, it should be performed under doctor's supervision.
- This manual should be continued for 4 to 6 weeks, unless otherwise specified by your doctor or physical therapist.
- After recovery, these exercises can be continued as a maintenance program for lifelong protection and health of hips and thighs.
- Perform these exercises 2 to 3 days a week will maintain strength and range of motion in hips and thighs.

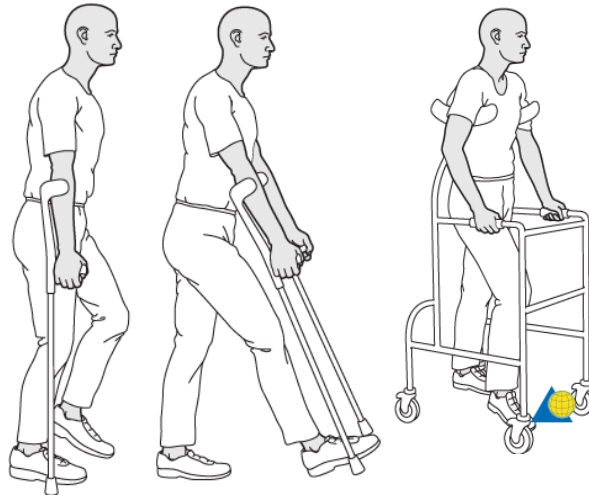
PHASE I (0-1 WEEK POST-OPERATIVE)

Goals:

- Allow soft tissue healing.
- Reduce pain, inflammation and swelling.
- Increase motor control and strength.
- Increase independence with mobility.
- Educate patient regarding weight bearing.



PHASE II (1-3 WEEKS POST-OPERATIVE)



Goals:

- Increase ROM & strength
- Increase functional independence

Rehabilitation Plan

Weight bearing	Range of Motion	Strengthening Program	Activities
<ul style="list-style-type: none"> • Partial weight bearing 50% of body weight in unilateral case. 	<ul style="list-style-type: none"> • Hip abduction/adduction, hip internal/external rotation • Hip ROM (Active and Passive ROM) 	<ul style="list-style-type: none"> • Quadriceps sets in full knee extension, gluteal sets, towel squeeze etc. 	<ul style="list-style-type: none"> • Wean from walker to crutches to cane only

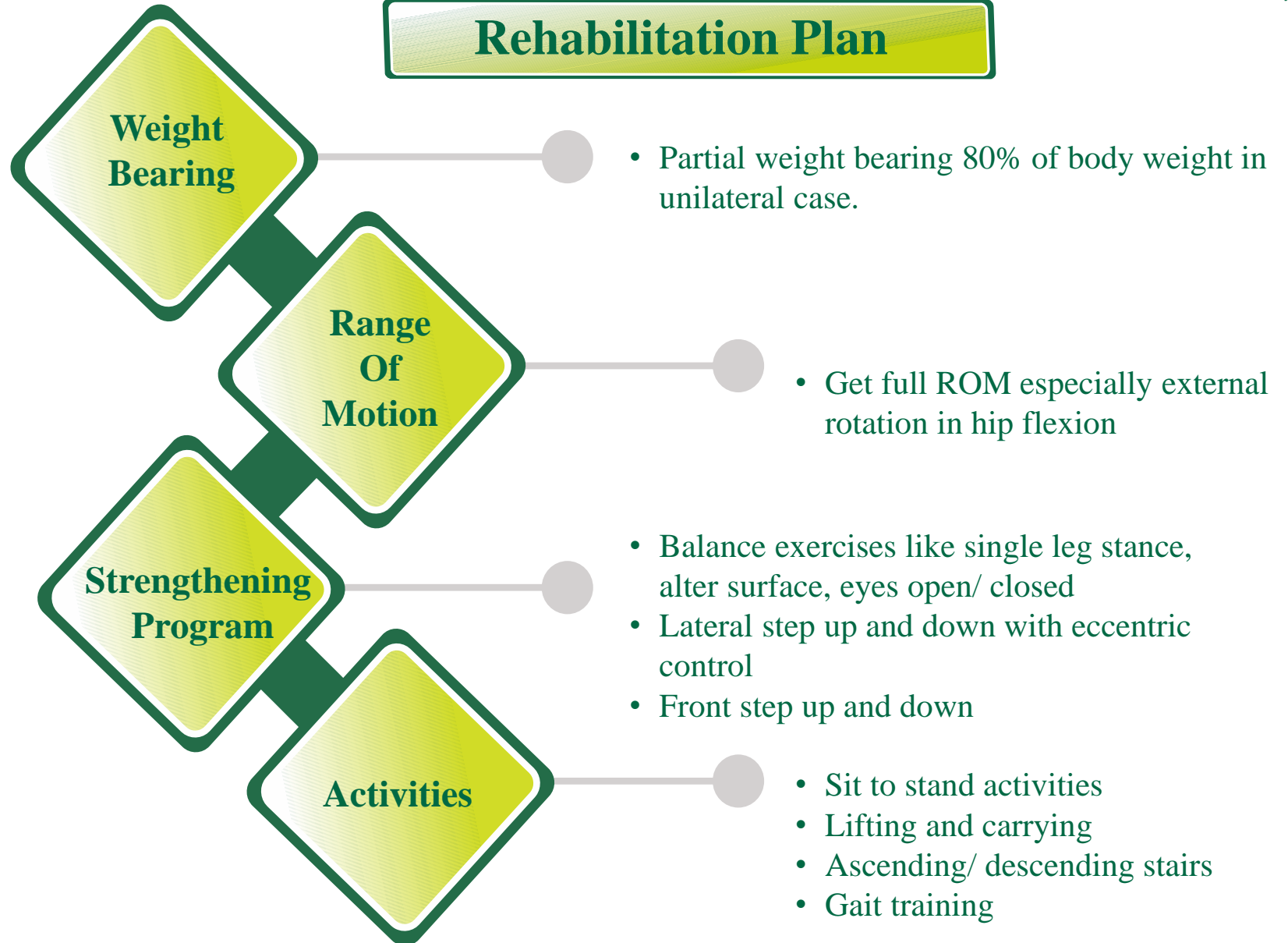
PHASE III (3-6 WEEKS POST-OPERATIVE)



Goals:

- Increase lower extremity and trunk strength
- Balance and proprioceptive training to assist with functional activities.

Rehabilitation Plan



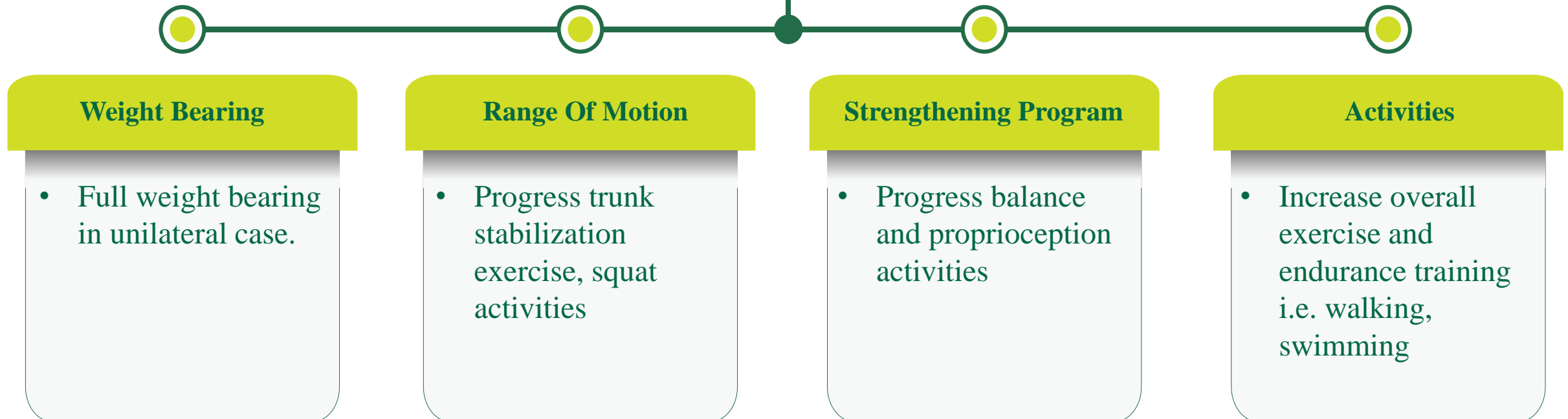
PHASE IV (6-12 WEEKS POST-OPERATIVE)



Goals:

- Increase overall strength throughout lower extremities
- Return to all functional activities
- Begin light recreational activities.

Rehabilitation Plan



PHASE V (12 WEEKS ONWARDS)

Goals:

- Return to normal routine activity.



Rehabilitation Plan

Weight Bearing • Full weight bearing exercise

Range Of Motion

Strengthening Program

Activities • Continue walking, swimming and biking programs for aerobic conditioning
• Cycling

Regrow Biosciences Pvt. Ltd.

Head Quarters: 2-ABC, Acme Plaza, Andheri-Kurla Road,

Andheri East, Mumbai – 400059., India

Tel: +91-22-67330300 / Fax +91-22-28390556

Laboratory: 22, Shah Industrial Estate, Nangargaon,

Lonavala- 410401, Maharashtra, India

Tel: +91-2114-273741/42/43

Toll-Free No.: 1800 209 0309

Email ID: info@regrow.in

Website: www.regrow.in

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