26TH WAR SURGERY SEMINAR 2015

EARLY PHYSICAL REHABILITATION AND PROSTETIC MANAGEMENT

1) Rehabilitation
 2) Prosthetic considerations
 3) Pre-post fitting phases
 4) Conclusion

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Ph	ysical Reh	abilitation Programme	() ICRC
• 0	bjectives:	improve the accessibility, quality and sustainability of services	
• B s d	eneficiaries: tuations of viol isabilities	people injured during armed conflicts and other ence as well as other persons with physical	
	ious services at	in 2014: close to 300,000 people benefited from ICRC-assisted centres	
• 10 it c	RC's leadership s in-house tech pommitment to a	b in PR: scope of its activities, the development of nology, its acknowledged expertise and its long-term assisted projects	

- set of measures that assist viduals who experience, or likely to experience, bitty to achieve and maintain minimum achieve and maintain mum achieve and maintain rovided along a continuum of ranging from hospital care to abilitation in the community bilitation in the community bilit





Physiotherapy objectives

- 1) Functional recovery: reducing morbidity, preventing complications and regaining mobility
- Psychological improvement: stimulating autonomy, self-esteem, education and information
- Cost management: assisting with triage, reducing length of stay, facilitation discharge (Hasseman, 2015 draft)



Post surgical physiotherapy activities

Structure & function ICF levels

- Structure & function ICF levels Manual therapy Active and passive mobilisation Strenghtening Pain management Bandaging & splinting Positioning Respiratory exercise Cardio-vascular training Balance training

- Traction management
 POP application
 Activity & participation ICF levels
 Mobilisation & transfers
 Gait transfers
 Gait training
 Wheelchair skills
 Activities of daily life training
 Education, information & self care
 Outdoor functional trainine

- Outdoor functional training

- A permanent prosthesis is actually not permanent and does not last a lifetime: childrens' devices last approx 6 months adults' devices last approx 3 year



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Bandaging: the must (practice based)

- Improves blood circulation (facilitate wound healing?)
 Improves scar
 Forms the stump

- Protects the skinp
 Protects the skin
 Reduces oedema
 Accustoms to pressure
 Triggers stump care





Surgical recommendations



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Conserve femur: the longer the stump, the longer the lever arm and consequently the movement control Conserve condyles (through knee amputees are not more difficult to be fitted
 Conserve patella

The more intact tissue and skin area, the better the distribution of pressure
Place suture ventral



Surgical considerations



• Perform Gottchaltk myodesis (adductor magnus transosseously fixed and covering the distal femoral end)













- Pre-fitting Information & education Goal setting Hygiene & self care Cf. general activities Mobilisation and gait after 1-3 days Balance training Gait training with crutches (jumping on one foot is not recommended until full stump healing)





Post-fitting

Some activities

- Donning & doffing
 Weight bearing and balance

- Weight bearing and balance
 Gait training
 Endurance
 Functional training
 Activities of daily living
 Initiation to sports activities
 Home exercises
 Information



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(E) ICRC

Surgery and rehabilitation go hand in hand
 Early rehabilitation is patient centred and interdisciplinary
 Timely referral for rehabilitation services following surgery is key for mobility restoration
 The quality of the stump is more important than its length
 The latest in prosthetic technology does not guarantee best functional outcomes

