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Prosthetic and Orthotic Devices

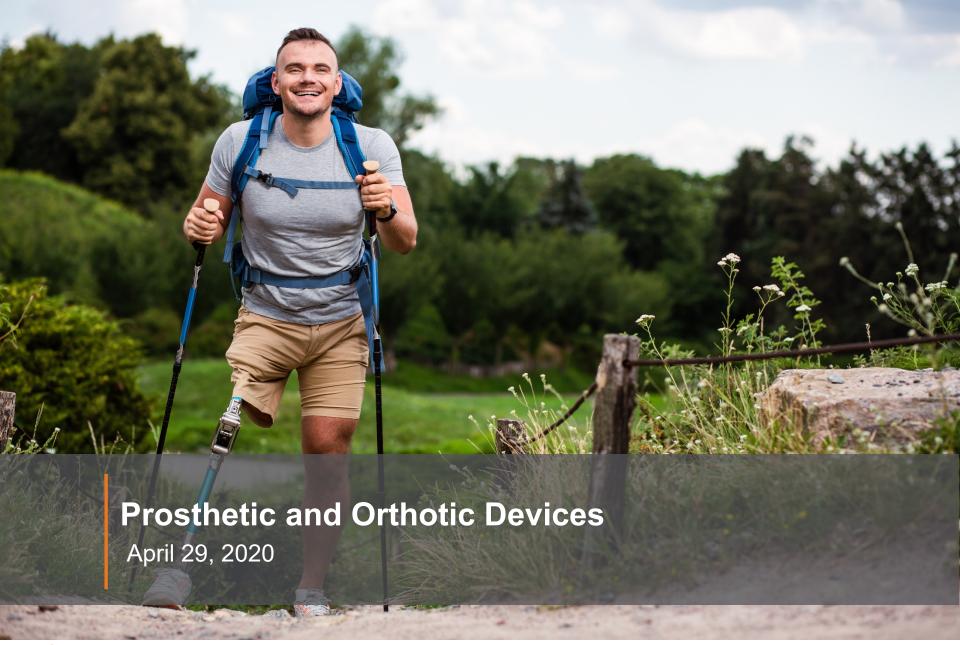
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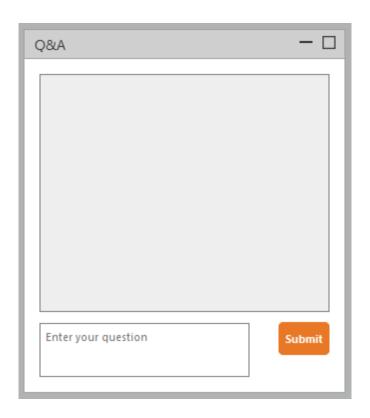
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Presenters



Dr. Robert HallMedical Director



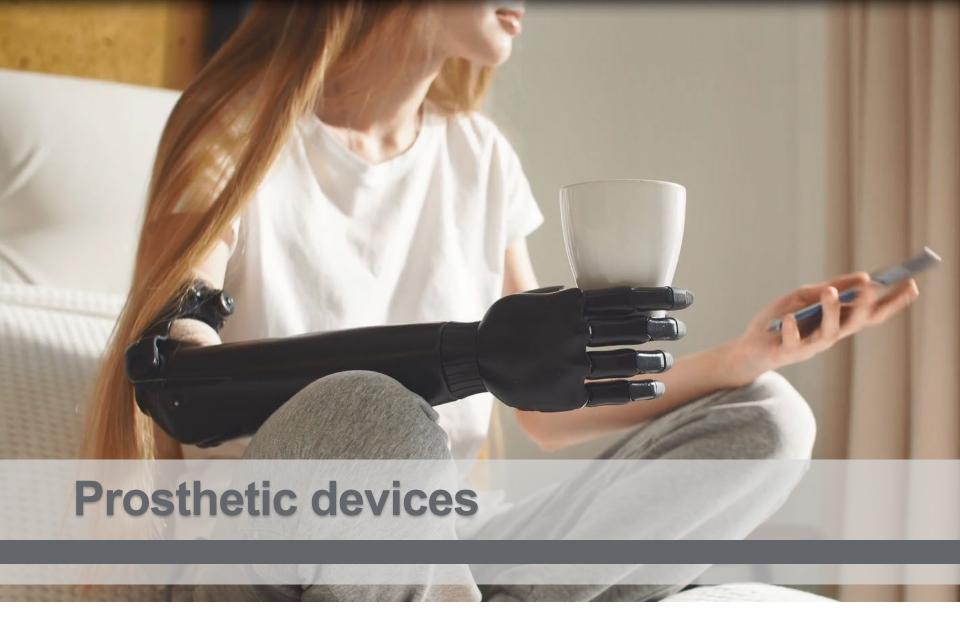
Tim Riedlinger, CPOCertified Prosthetist-Orthotist



Objectives

- 1. Discuss the medical treatment course for claimants with an amputation.
- Review the safety, functional, and financial considerations related to the claimant with an amputation.
- 3. Describe the different types of upper and lower limb prosthetic devices, their advantages, and their potential disadvantages.
- 4. Discuss the benefits and potential risks of orthotic devices.
- Review the differences between off-the-shelf and custom-made orthotic devices.
- 6. Describe the different types of orthotic devices, their indications, and important considerations when they are used.







Effects of comorbid conditions on amputations

COMORBID CONDITIONS	COMPLICATIONS	IMPACT ON USE OF PROSTHESIS
• Diabetes	• Infection	• Weakness
 Tobacco use 	Impaired wound healing	 Impaired cognition
 Vascular disease 	Contractures	Decreased endurance
Heart disease	Deconditioning	 Lack of motivation
 Depression 	• Pain	
 Obesity 	Worsening depression	
• Arthritis	• Sedation	
Substance abuse	• Falls	
Aging claimant		



Hospital course

POSTOPERATIVE CARE

DISCHARGE PLANNING

- Pain control
- Minimize blood loss
- Adequate nutrition
- Control swelling
- Falls prevention
- Early range of motion and mobilization
- Prosthetic vendor referral

- Home
- Subacute nursing facility
- Acute inpatient rehabilitation
- DME
- Follow-up
 - Providers
 - Physical medicine
 - Prosthetic vendor



Post-discharge recovery and rehabilitation

PAIN CONTROL

WOUND CARE

- Postsurgical pain
- Phantom limb pain
 - Sensations
 - Pain
 - Anticonvulsants and antidepressants
 - Desensitization techniques
 - Mirror therapy
 - "Movement" of the missing limb

- Surgical wound management
- Compression (wrap / shrinker)
- Precautions with elevation
- Weight-bearing limitations
- Nutrition and hydration
- Scar mobilization



Post-discharge recovery and rehabilitation

RESIDUAL LIMB SHAPING	MOBILIZATION	ENDURANCE
 Elastic bandages (ACE wrap) Shrinker socks 	 Range of motion Strengthening of other limbs Ambulation Stair climbing 	 Cardiovascular fitness Energy conservation techniques Joint protection



Prosthetic vendor referral



PHYSICIAN PREFERENCE

- Surgeon or physiatrist
- Order set

CLAIMANT CONTACT

Usually established prior to discharge from the hospital or rehabilitation center

- Introductory information
- Residual limb care
- Safety and precautions
- Estimated timeline for first prosthetic device

PEER VISIT

- Former patient
- Amputee Coalition



Outpatient prosthetic evaluation

- Medical history
- Physical examination
- Functional assessment
 - -Prior
 - -Current
 - -Potential level of function and goals
 - Realistic
 - Meaningful
 - Unlikely to be more functional than prior to amputation



Prosthesis timeline

IMMEDIATE POSTOPERATIVE PROSTHESIS	Applied immediately after surgeryInitial weight-bearing	
	 Only used until temporary prosthesis is created 	
TEMPORARY PROSTHESIS	 Provided within several months after amputation 	
	Essential components only	
	Gait training	
	• Safety	
DEFINITIVE (FINAL)	 Created three to six months after amputation 	
PROSTHESIS	 Occasional use of some components from temporary prosthesis 	
	Additional costs	
	Lifetime dependent upon wear and repairs	
	Repairs vs. replacement	



Characteristics of the population: Gender and Age

	DYSVASCULAR	TRAUMA	CANCER
Male:	60%	78%	36%
Age:			
< 45	16%	46%	43%
45-64	58%	44%	42%
>=65	26%	20%	15%



Percent using a prosthesis

	DYSVASCULAR	TRAUMA	CANCER
Never	18%	19%	24%
<8 hrs/day	22%	18%	11%
>=8 hrs/day	60%	63%	66%



Percent using a prosthesis: Level of Amputation

	UPPER LIMB	LOWER LIMB
Never	49%	16%
<8 hrs/day	27%	17%
>=8 hrs/day	29%	67%

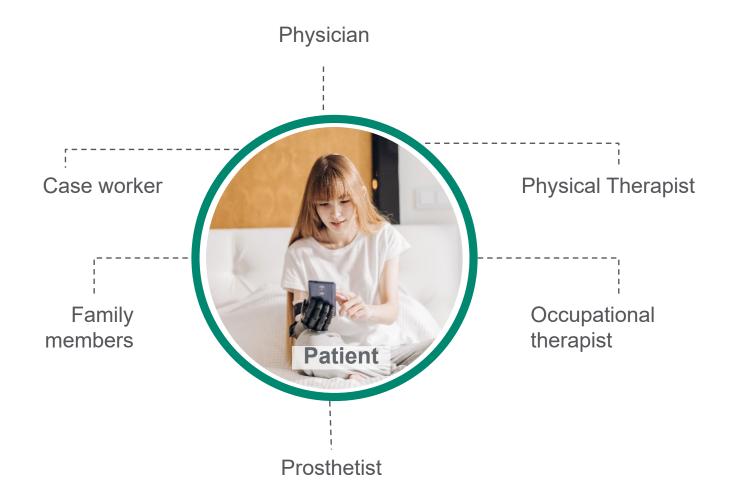


Current activity by age

	18-44	45-54	55-64	>=65
Working or School	66%	49%	35%	9%
Looking for Work	12%	11%	5%	2%
Homemaker	8%	5%	5%	6%
Retired- Disability	14%	33%	42%	28%
Retired- Other	0%	2%	13%	55%



Team approach





Keep in mind...

- Everyone is different, as will be their prostheses
- Age is never a deciding factor for prosthetic intervention
 "Functional" age is important
- There are very few contraindications for a prosthesis
- Patients discuss with other patients pros and cons
- Generally, new amputees have limited understanding of

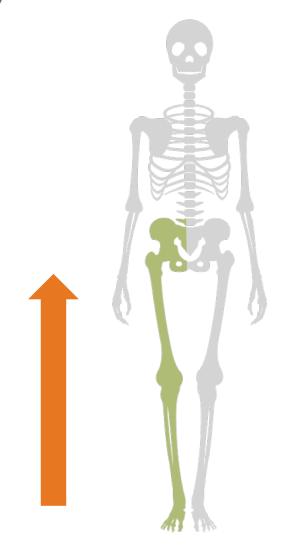
What to expect

What is possible



Amputation site selection (lower limb)

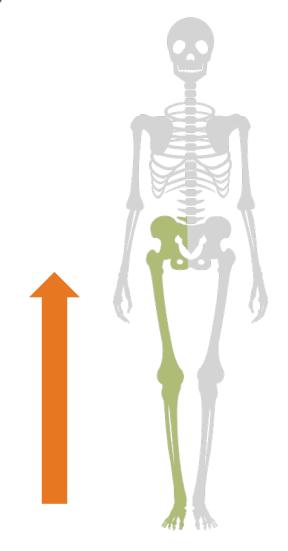
- Hemicorporectomy
- Hemipelvectomy
- Hip disarticulation
- Transfemoral (above-the-knee)
- Knee disarticulation
- Transtibial (below-the-knee)
- Ankle disarticulation (Syme's)
- Midtarsal (Chopart)
- Tarsometatarsal junction (Lisfranc)
- Transmetatarsal
- Partial foot/partial toe





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Amputation site and additional energy required for walking

SINGLE BELOW-THE-KNEE	25%
BILATERAL BELOW-THE-KNEE	41%
SINGLE ABOVE-THE-KNEE	60-70%
BILATERAL ABOVE-THE-KNEE	>200%

Cuccurullo, Sara J. Physical Medicine and Rehabilitation Board Review. 3rd ed. New York: Demos Medical, 2015. Page 477.



Lower limb prosthesis components are determined by claimant's K-level

Medicare defines K-levels based on the ability or **potential** to ambulate and navigate the environment.

K- LEVEL	FUNCTIONAL POTENTIAL OF AMPUTEE
K0	No ability or potential to ambulate or transfer safely with or without assistance and a prosthesis does not enhance quality of life or mobility.
K 1	Ability or potential to use a prosthesis for transfers or ambulation on level surfaces at fixed cadence .
K2	Ability or potential for ambulation with the ability to traverse low-level environmental barriers such as curbs, stairs, or uneven surfaces.
K3	Ability or potential for ambulation with variable cadence - a typical community ambulatory with the ability to traverse most environmental barriers may have activity that demands prosthetic use beyond simple locomotion.
K4	Ability or potential for ambulation that exceeds basic ambulation skills, exhibiting high impact, stress, or energy levels.



Lower limb prosthesis components are determined by claimant's K-level

Medicare defines K-levels based on the ability or **potential** to ambulate and navigate the environment.

K- LEVEL	FUNCTIONAL POTENTIAL OF AMPUTEE	TYPE OF PROSTHESIS
K0	No ability or potential to ambulate or transfer safely with or without assistance and a prosthesis does not enhance quality of life or mobility.	Not eligible for a functional prosthesis
K1	Ability or potential to use a prosthesis for transfers or ambulation on level surfaces at fixed cadence .	External keel, SACH feet or single axis ankle/feet, single-axis, constant friction knee
K2	Ability or potential for ambulation with the ability to traverse low-level environmental barriers such as curbs, stairs, or uneven surfaces.	Flexible-keel feet and multi-axial ankle/feet, single-axis, constant friction knee
К3	Ability or potential for ambulation with variable cadence - a typical community ambulatory with the ability to traverse most environmental barriers may have activity that demands prosthetic use beyond simple locomotion.	Flex foot and flex-walk systems, energy storing feet, multi-axial ankle/feet, or dynamic response feet, fluid and pneumatic control knee, microprocessor knee
K4	Ability or potential for ambulation that exceeds basic ambulation skills, exhibiting high impact, stress, or energy levels.	Any ankle foot system appropriate, any ankle knee system appropriate, including microprocessor



Lower limb prostheses

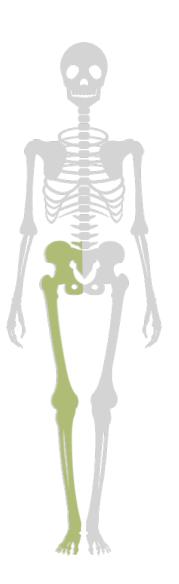
TYPE

SPECIAL CONSIDERATIONS

POTENTIAL COMPLICATIONS

- Functional considerations
- Knee and ankle components
- Amputation site
- Cognitive abilities
- Residual strength and range of motion
- Endurance
- Claimant weight
- Comorbid conditions

- Contractures
 - Knee
 - Hip
- Gait deviations
- Fall risk
- Abandonment of prosthesis





Components of a lower limb prosthesis

- Suspension
- Socket
- Knee
- Lower leg (shank)
- Foot/ankle





Partial foot

- Partial toe
- Toe disarticulation
- Metatarsal ray resection
- Transmetatarsal (TMA)
- Lisfranc & Chopart

















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Syme

Ankle disarticulation

- Challenging cosmesis
- Doors/windows for donning
- Weight-bearing end
- Limited foot options





Transtibial

- Resection through tibia and fibula
- Anatomical knee joint preserved
- Requires 25% more energy than normal





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Knee disarticulation

- Entire femur and condyles intact
- Advantages
 - Good end-bearing surface
 - Lower trimline
 - Long lever arm for power/control
- Disadvantages
 - Limited space for attachment components
 - Prosthetic knee center lower than anatomical knee which causes gait deviation and sitting anomaly



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Transfemoral

- Resection through femur
- Requires 66% more energy than normal



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Lower Extremity Prosthetics

MicroProcessor-controlled Knees

Frequency of falling

- 66% Transfemoral (TF)
 Amputees experienced a fall within the previous year
- 4% of the general population fall annually

Gauthier-Gagnon, C (1999) Arch Phys Med Rehabil 80(6): 706-13. (n=396)

Incidence rate (per 100,000 persons) of injuries by mechanism - Corso, P, E Finkelstein, T Miller, I Fiebelkorn and E Zaloshnja (2006). "Incidence and lifetime costs of injuries in the United States." Inj Prev 12(4): 212-8.





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Hip Disarticulation / Transpelvic

- Slow fixed cadence
- Component selection and alignment similar for both levels
- Prosthetic fitting typically limited to motivated and physiologically vigorous individuals
- Lack of comfort most common reason for NOT wearing prosthesis at these levels
- Energy requirements up to 200% of normal ambulation

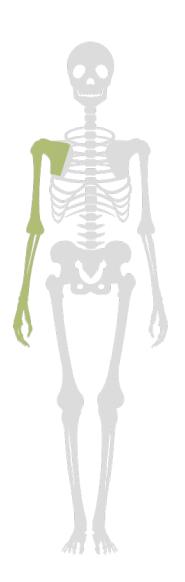


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Amputation site selection (upper limb)

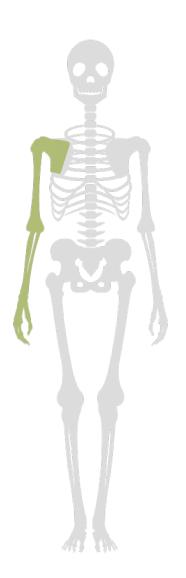
- Forequarter
- Shoulder disarticulation
- Transhumeral (above-the-elbow)
- Elbow disarticulation
- Transradial (below-the-elbow)
- Wrist disarticulation
- Transcarpal
- Transmetacarpal
- Transphalangeal





Amputation site selection (upper limb)

- Forequarter
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UPPER EXTREMITY AMPUTEES

- The goal of Prosthetic Rehabilitation is to provide appropriate function to meet the goals and abilities in order to return to work.
- There are many prosthetic options and adaptations
- One prosthetic system typically does NOT meet all of the needs of an individual

There is NO standard prosthesis or protocol



Factors influencing success

50% Of upper limb amputees do not use a prosthesis

LONG-TERM IMPLICATIONS

- Overuse injuries
- Psychosocial
- Posture

We take for granted the simple bimanual tasks we do every day.



Upper extremity prosthetics: "Golden Period" of within 30 days

93% Success rate for patients fitted within 30 days

Success rate for patients fitted after 30 days

Malone et al. 1984



Upper limb prostheses

OPTIONS SPECIAL POTENTIAL CONSIDERATIONS COMPLICATIONS No prosthesis Amputation site Overuse injuries Passive (semi- Cognitive abilities Skin wounds prehinsile,

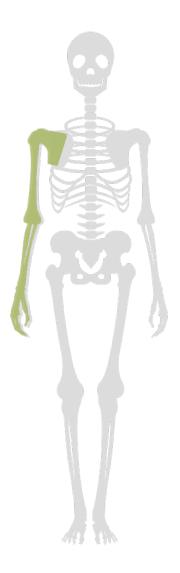
- Manual/body powered (cable operated)
- Myoelectric

cosmetic)

- Hybrid
- Adaptive / activity specific

- Residual strength and range of motion
- Durability requirements

- Abandonment of prosthesis

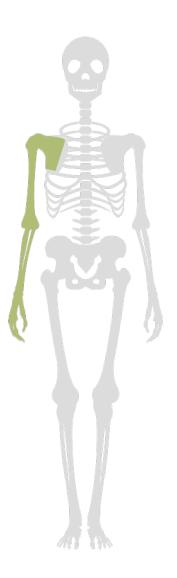




Components of an upper limb prosthesis

- Suspension
- Socket
- Upper arm
- Elbow
- Forearm
- Wrist

- Terminal device (hand)
 - -Functional vs. cosmetic
 - -Hand vs. hook
- Control system
 - -Body powered
 - -Myoelectric





Bad first experience with a prosthesis

- Unaware of options
- Limited functional ability
- Not worth the "hassle"
- Lack of sufficient prosthetic training
- Development of one-handedness
- Unnatural look



Passive prosthesis

- A cosmetic restoration with limited functional capabilities.
- Used for functional activities that do not require active prehension.
- Typically digits can be manipulated to enhance function.



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Upper extremity prosthetics: Custom cosmetic restoration



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CABLE-OPERATED PROSTHESIS

Powered and controlled by gross body movements captured by a harness system.

Excursion: Body motions used for control

Force: Force associated with those body motions



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CABLE-OPERATED PROSTHESIS

HOOKS - HOSMER DESIGNS

Powered and controlled by gross body movements captured by a harness system.

Excursion: Body motions used for control

Force: Force associated with those body motions

In general, hooks are used for function versus a hand. They offer a better visual of the object being manipulated.



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PROSTHESIS

- Battery system
- Various Control Options: Myoelectric (single or dual site), Switch – rocker, pull, push, Touch Pads, Servo control.



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PROSTHESIS

- Battery system
- Various Control Options: Myoelectric (single or dual site), Switch – rocker, pull, push, Touch Pads, Servo control.

HYBRID PROSTHESIS: BODY POWERED + EXTERNAL POWER

- A prosthesis utilizing various control strategies
- Most universal configurations:
 - Cable-driven elbow / electric hand
 - Passive elbow / electric hand



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ADAPTIVE PROSTHESIS

A prosthesis that is designed for a specific activity
OR

An adaptation to an existing prosthesis







Copyright TRS Prosthetics



ADAPTIVE PROSTHESIS

A prosthesis that is designed for a specific activity
OR

An adaptation to an existing prosthesis

MULTIPLE PROSTHESES

- Many prosthetic users rely on more than one prosthesis to perform diverse types of activities and tasks.
- The secondary prosthesis may also serve as a back-up prosthetic system.



Copyright Texas Assistive Devices



Copyright TRS Prosthetics





Partial hand

Transphalangeal



Transmetacarpal



Transcarpal



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Copyright naked prosthetics



Copyright Ossur

PASSIVE/COSMETIC RESTORATION

PASSIVE/ MECHANICAL

EXTERNALLY POWERED

- Cosmetic appearance
- Protection of tender areas
- Augmentation of active grasp
- Augmentation of active grasp
- Less expensive than cosmetic glove
- Myoelectric



WRIST DISARTICULATION / TRANSRADIAL

- The longer the limb, the more supination/pronation is preserved
- Control
 - Body powered
 - Externally powered





WRIST DISARTICULATION / TRANSRADIAL

- The longer the limb, the more supination/pronation is preserved
- Control
- Body powered
- Externally powered

ELBOW DISARTICULATION / TRANSHUMERAL

- Crucial Factors
 - Length of the bony lever arm
 - Quality & nature of soft-tissue coverage
 - Shape and muscle tone of the residual limb
 - Flexibility, ROM, & stability of proximal joints
- Successful long-term use
 - Comfort
 - Perceived value to patient





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Shoulder Disarticulation/Interscapulothoracic (Forequarter)

Major challenges

- Prosthesis stability
- Cosmetic appearance (especially natural shoulder profile)









Purpose of an orthotic device

An externally applied device to a body segment that facilitates or improve function by supporting, correcting, or compressing for skeletal deformity or weakness.

POTENTIAL FUNCTIONS

SAFETY CONSIDERATIONS

- Support and align
- Prevent or correct deformity
- Substitute for function
- Pain relief
- Transfer load from one area to another
- Inhibit tone
- Restrict motion

- Compliance
- Skin breakdown or blisters : too tight or too loose
- Muscle weakness
- Overdependence or overreliance



Differences between off-the-shelf and custom-made orthotic devices

- Availability
- Patient-fit
- Cost
 - Devices are often requested by brand-name instead of function
 - If physician fits the product, how often is the least expensive device provided or contract with certain company.
 - If insurance pays.....price is not an issue !?!?
 - A prosthetic-orthotic clinic cannot stock all brands in each office(s)
 - Brand-specific requests could result in higher cost without improved function or outcome and possibly delay care if certain brand not in stock..
 - Cost of orthosis or prosthesis includes all practitioner clinical evaluation, casting, fitting, and follow up time.
 - If deformity present, special circumstances, or measurements are outside of sizing guidelines, custom-made is indicated for.



Knee-ankle-foot orthosis (KAFO)

- Single axis
- Posterior offset
- Locking knee (drop lock, bail lock)
- Stance control



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Ankle-foot orthosis (AFO)

- Posterior leaf
- Semi-rigid
- Solid plastic
- Articulated
- Tone-reduction properties
- Carbon



Copyright Bostonoandp



Copyright Cascadeorthotics



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Copyright cascadedafo



Knee orthosis (KO)

- Mediolateral stability
- Flexion extension limits (IROM joints)
- Swedish cage: used in the management of knee hyperextension







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Copyright Trulife



Ankle support orthosis (ASO)

- Ankle sprain
- Ankle instability







Copyright DonJoy



Copyright MedSpec



Upper limb orthotic devices

STATIC

- Immobilize or support
- Help prevent deformity
- Prevent soft tissue contracture
- Allow attachment of assistive devices
- Block a segment

DYNAMIC

- To substitute for loss of motor function
- To correct an existing deformity
- Provide controlled directional movement
- Aid in fracture and wound healing



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Copyright Becker



Finger orthoses



Copyright AliMed



Copyright AliMed





Copyright AliMed



Upper limb orthotic devices

COCK-UP SPLINT/ CARPAL TUNNEL SPLINT



Copyright Truform



Copyright djoglobal



Copyright djoglobal



Upper limb orthotic devices

COCK-UP SPLINT/ CARPAL TUNNEL SPLINT

TONE-REDUCING SPLINTS



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Copyright djoglobal



Copyright Leedergroup



Copyright Leedergroup



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Spinal orthotic devices: cervical spine

- Soft
- Rigid
- Sterno-occipital mandibular immobilizer (SOMI)
- Halo



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Spinal orthotic devices: thoracic spine

- Thoracic-Lumbar-Sacral Orthosis (TLSO)
- Jewett brace



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Spinal orthotic devices: corsets

- Lumbar
- Kinesthetic reminder



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Managing the whole claim

PSYCHOLOGICAL	WOUND CARE		DURABLE MEDICAL EQUIPMENT
EvaluationCounselingMedications for depression and/or PTSD	Monitoring by providerHome health		CaneWalkerWheelchairHospital bed
CASE MANAGEMENT	CONTINUITY OF CARE		PROSTHESIS TIMELINE AND EXPECTATIONS
Coordination of careContinuity of careSpecialized services	Discharge planningSurgeonPrimary careRehabilitation providers		ClaimantProvidersPrescriberProsthetistPayer
REPAIRS AND REPLACEMENTS		RETURN TO FUNCTION AND WORK	
 Appropriate device and component selection Routine follow-up and maintenance 		 Home and vehicle modifications Job modifications Activity and safety levels	



Summary

- Prosthetic and orthotic devices are important in restoring function and improving safety but they must be prescribed and used appropriately.
- Prosthetic success may be dependent on underlying comorbid conditions.
- Orthotic devices can, in many cases, be off-the-shelf but custom fabrication may be needed in certain circumstances.
- Orthotic devices can provide joint and spine stability but muscle weakness can develop if used for prolonged periods of time.



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