Terminology

Diagram on page below		Basic O&P Terminology
	Prosthetics	Science and art involved in treating patients by the use of prostheses (artificial limbs etc…).
	Orthotics	Science and art involved in treating patients by the use of orthoses (braces etc…).
	Anterior	Toward the front.
	Posterior	Toward the back.
	Medial	Toward the midline of the trunk; inside of leg.
	Lateral	Away from the midline of the trunk; outside of leg.
	Proximal	Toward the trunk; refers to the extremities; top.
	Distal	Away from the trunk; refers to the extremities; bottom.
D-3	Endoskeletal	Strength from the inside; modular leg with endo components-pylon etc…
D-3	Exoskeletal	Strength from the outside; exoskeletal leg is hard lamination on the outside and hollow on the inside, it is usually made of wood and lamination, no endo components.
		Lower Extremity Levels of Amputation
D-1	Partial foot	Amputation below the ankle joint.
D-1	Symes	Amputation through the ankle joint; with very little bone cutting.
D-1	Below knee	Amputation between the knee joint and the ankle.
D-1	Trans-tibial	Amputation between the knee joint and the ankle.
D-1	Knee disartic	Amputation through the knee joint; no bone was cut.
D-1	Above knee	Amputation between the hip an knee joint.
D-1	Trans-femoral	Amputation between the hip an knee joint.
D-1	Hip disartic	Amputation through the hip joint; no bone was cut.
		Upper Extremity Levels of Amputation
D-2	Partial hand	Amputation below the wrist joint.
D-2	Wrist disartic	Amputation through the wrist joint; no bone was cut.
D-2	Below elbow	Amputation between the wrist and the elbow.
D-2	Trans-radial	Amputation between the wrist and the elbow.
D-2	Elbow disartic	Amputation through the elbow joint; no bone was cut.
D-2	Above elbow	Amputation between the shoulder and elbow joint.
D-2	Trans-humeral	Amputation between the shoulder and elbow joint.
D-2	Shoulder disartic	Amputation through the shoulder joint; no bone was cut.
		Abbreviations for Levels of Amputation
D-2	AE	**A**bove **E**lbow amputation.
D-1	AK	**A**bove **K**nee amputation.
D-2	BE	**B**elow **E**lbow amputation.
D-1	BK	**B**elow **K**nee amputation.
D-2	ED	**E**lbow **D**isarticulation, amputation through joint, no bone was cut.
D-1	HD	**H**ip **D**isarticulation, amputation through joint, no bone was cut.
D-1	KD	**K**nee **D**isarticulation, amputation through joint, no bone was cut.
D-2	SD	**S**houlder **D**isarticulation, amputation through joint, no bone was cut.
D-2	WD	**W**rist **D**isarticulation, amputation through joint, no bone was cut.

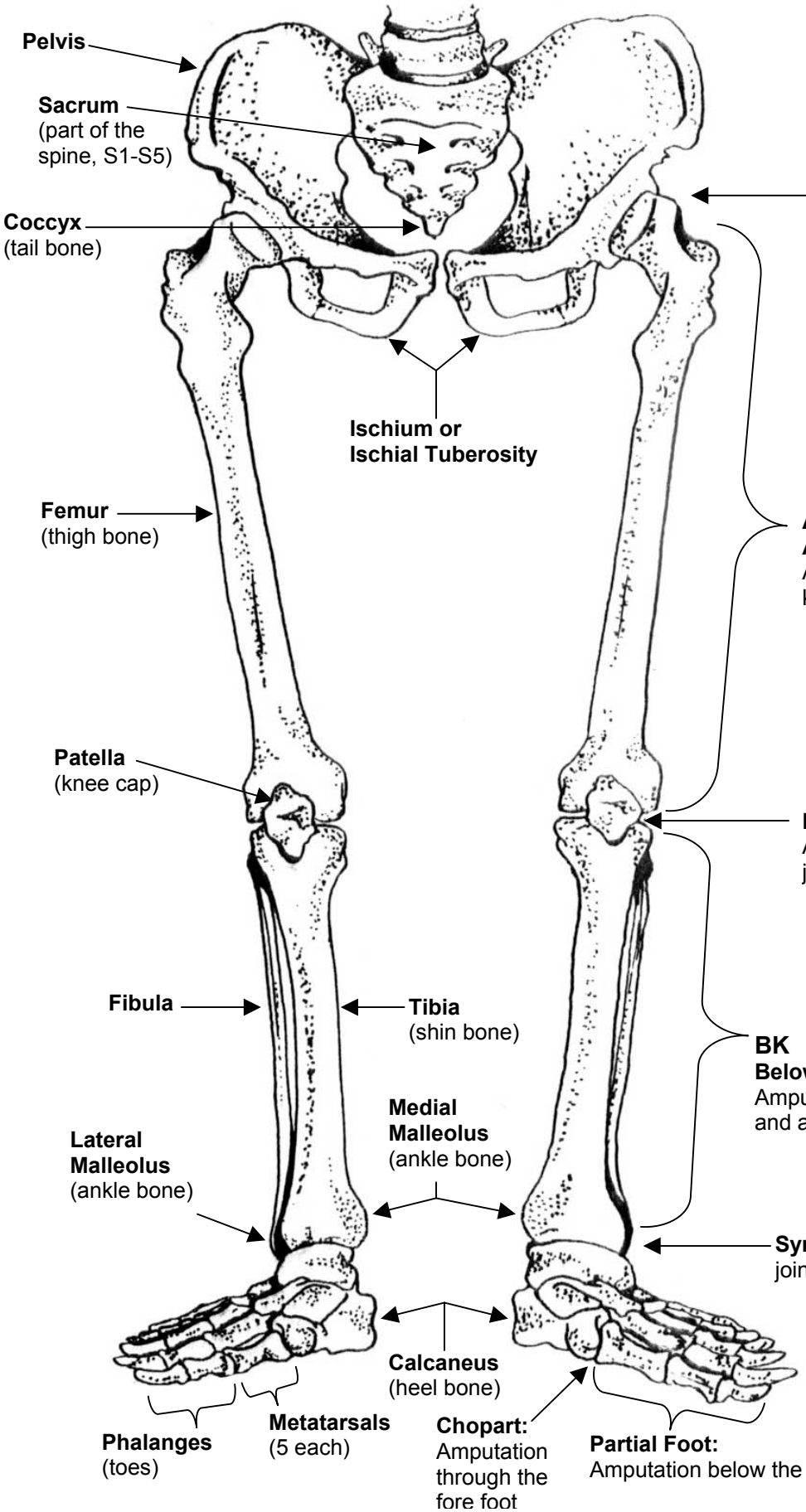
SPS

1

Terminology

		Levels of Orthotic Bracing
	Foot Orthosis	Orthosis for whole or part of the foot.
	Ankle-foot orthosis	Brace for the ankle and foot.
	Knee orthosis	Brace for the knee.
	Knee-ankle foot orthosis	Brace for the knee, ankle and foot.
	Hip orthosis	Brace for the hip.
	Hip-knee-ankle-foot orthosis	Brace for the hip, knee, ankle and foot.
	Hand orthosis	Orthosis for whole or part of the hand.
	Wrist-hand orthosis	Brace for the wrist and hand.
	Elbow orthosis	Brace for the elbow.
	Elbow-wrist-hand orthosis	Brace for the elbow, wrist and hand.
	Shoulder orthosis	Brace for the shoulder.
	Shoulder-elbow orthosis	Brace for the elbow.
	Shoulder-elbow-wrist-hand orthosis	Brace for the shoulder, elbow, wrist and hand.
	Lumbo-sacral orthosis	Brace for the lower back; lower back; covers the sacrum and lumbar.
	Thorac-lumbo-sacral orthosis	Brace for the back; lower back and shoulders; covers the sacrum, lumbar and thoracic.
	Cervical orthosis	Brace for the neck.
	Halo	Brace that fixtures to the skull to stabilize the cervical spine fractures; for broken neck.
		Abbreviations for Levels of Orthotic Bracing
	AFO	**A**nkle-**F**oot **O**rthosis.
	KAFO	**K**nee-**A**nkle-**F**oot **O**rthosis.
	HKAFO	**H**ip-**K**nee-**A**nkle-**F**oot **O**rthosis.
	HO	**H**and **O**rthosis.
	WHO	**W**rist-**H**and **O**rthosis.
	EWHO	**E**lbow-**W**rist-**H**and **O**rthosis.
	SEWHO	**S**houlder-**E**lbow-**W**rist-**H**and **O**rthosis.
	SEO	**S**houlder-**E**lbow **O**rthosis.
	LSO	**L**umbo-**S**acral **O**rthosis.
	TLSO	**T**horac-**L**umbo-**S**acral **O**rthosis.

Lower Extremity Levels of Amputation



Hip Disarticulation: Amputation through the hip joint; no bone is cut.

AK
Above Knee or Trans-femoral: Amputation between the hip and knee joint

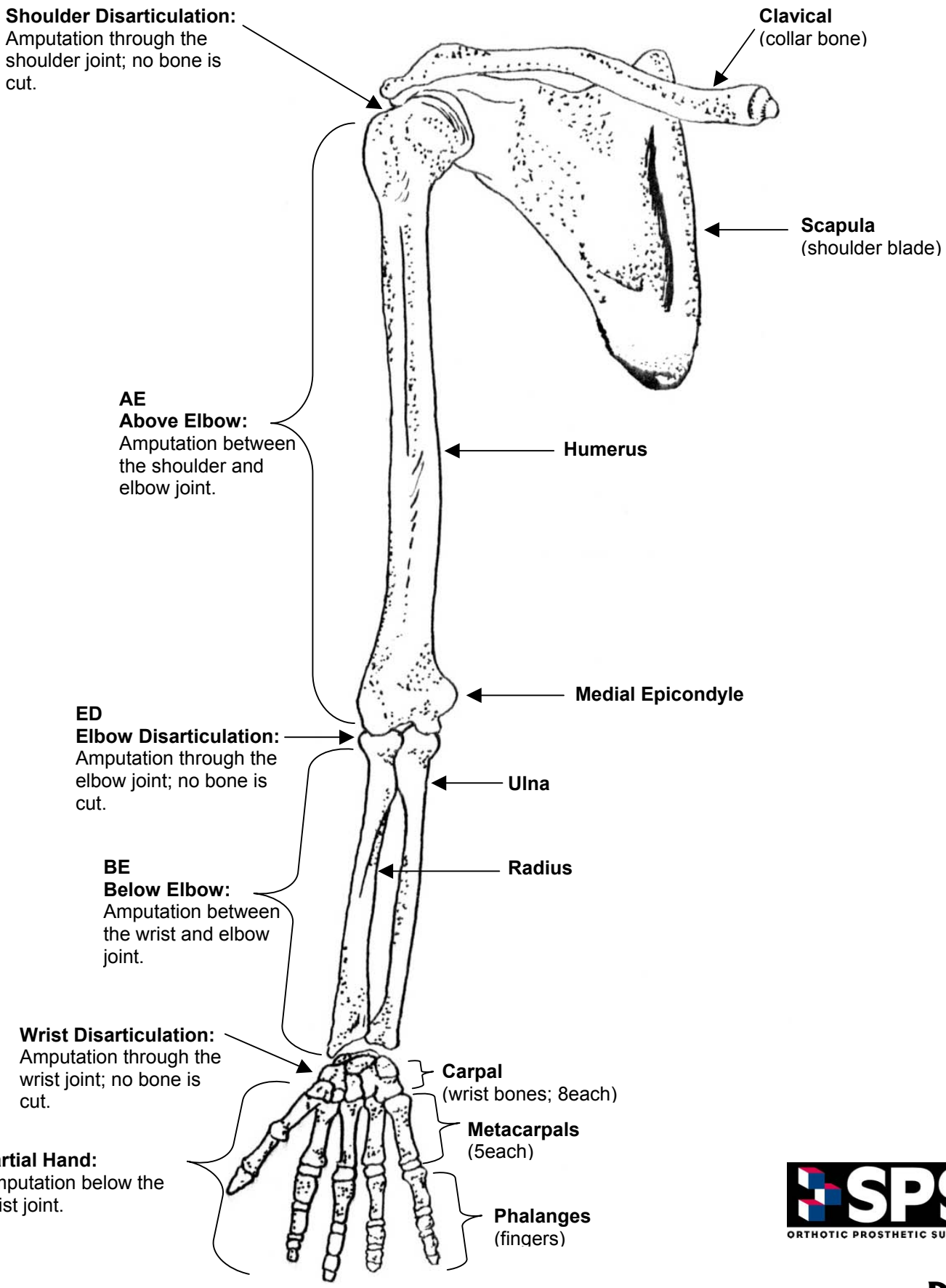
Knee Disarticulation: Amputation through the knee joint; no bone is cut.

BK
Below Knee or Trans-tibial: Amputation between the knee and ankle joint.

Symes: Amputation through the ankle joint with very little bone cutting.

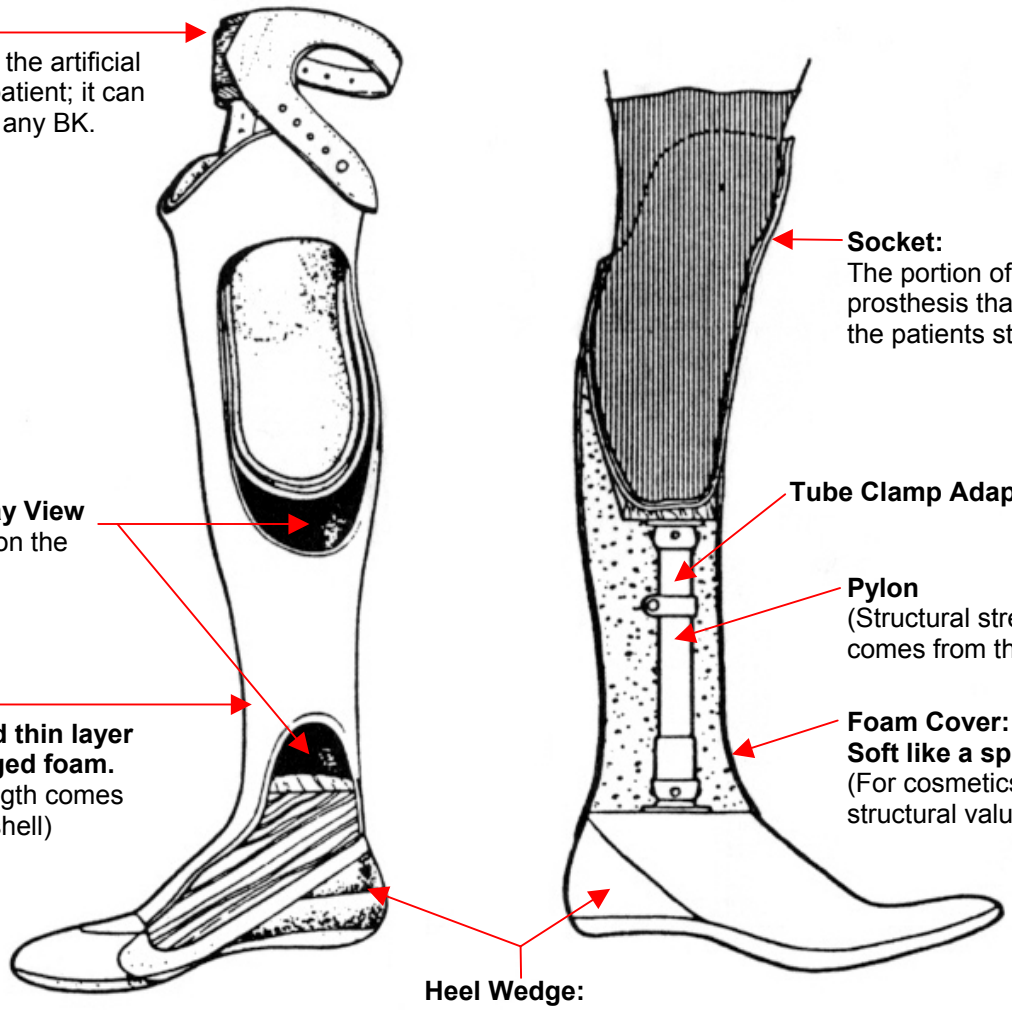
SPS
ORTHOTIC PROSTHETIC SUPPLIES

Upper Extremity Levels of Amputation



SPS
ORTHOTIC PROSTHETIC SUPPLIES

Endoskeletal & Exoskeletal



PTB Strap:
Used to hold the artificial limb on the patient; it can be riveted to any BK.

Socket:
The portion of a prosthesis that receives the patients stump.

Cutaway View
Hollow on the inside.

Tube Clamp Adapter

Pylon
(Structural strength comes from this pylon)

Outer Shell:
Lamination and thin layer of wood or ridged foam.
(Structural strength comes from this outer shell)

Foam Cover:
Soft like a sponge.
(For cosmetics only; no structural value)

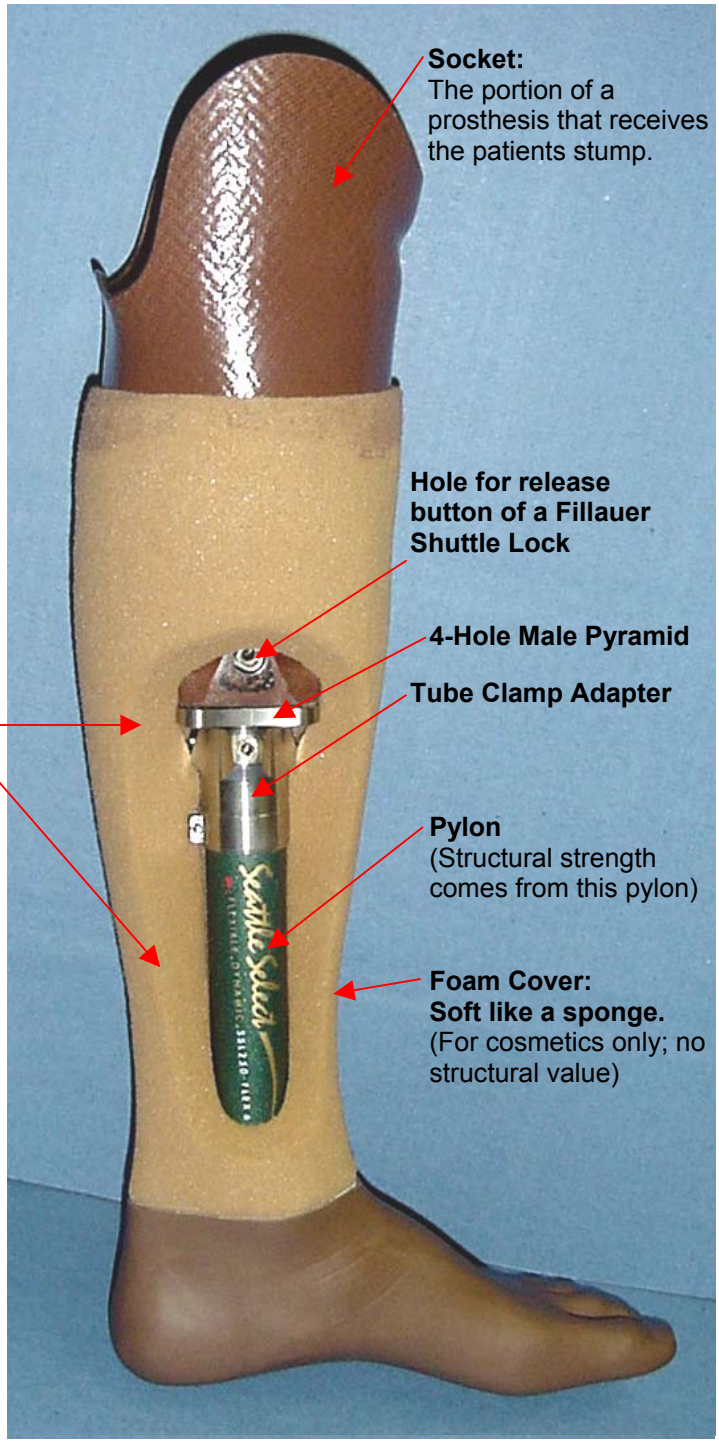
Heel Wedge:
Made of soft material for cushion at heel strike.

P.T.B.
Exoskeletal

P.T.S.
Endoskeletal

SPS
ORTHOTIC PROSTHETIC SUPPLIES

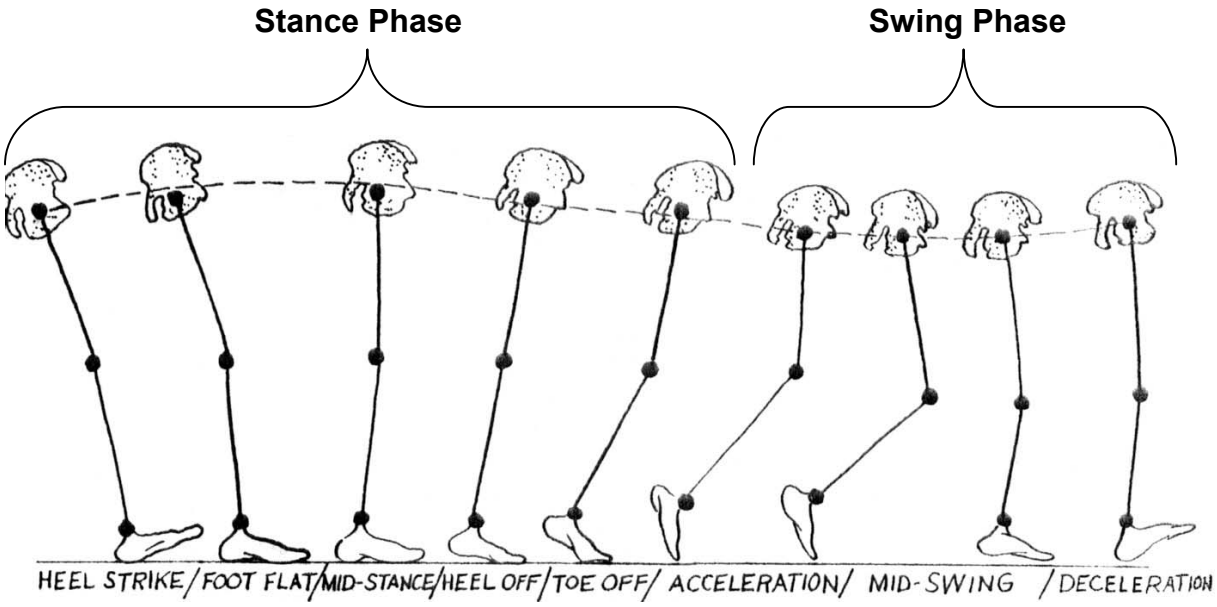
BK Cover



This leg would be finished with pantyhose or some kind of prosthetic skin (example, U-Flate Skin)

SPS
ORTHOTIC PROSTHETIC SUPPLIES

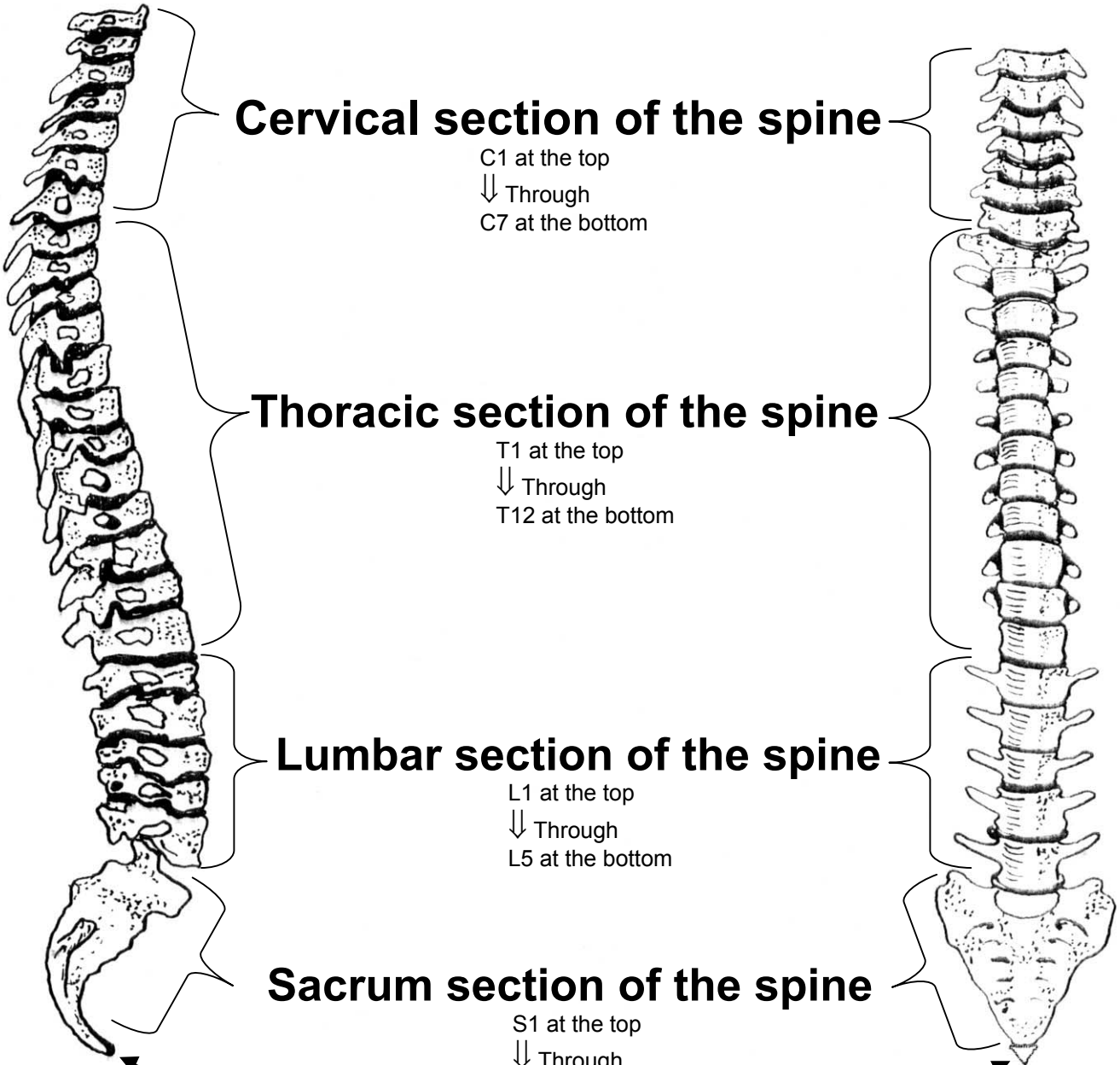
Human Locomotion



SPS
ORTHOTIC PROSTHETIC SUPPLIES

Spine

Side View **Anterior View**



Cervical section of the spine

C1 at the top
⇓ Through
C7 at the bottom

Thoracic section of the spine

T1 at the top
⇓ Through
T12 at the bottom

Lumbar section of the spine

L1 at the top
⇓ Through
L5 at the bottom

Sacrum section of the spine

S1 at the top
⇓ Through
S5 at the bottom
*S1-5 fused together

Coccyx

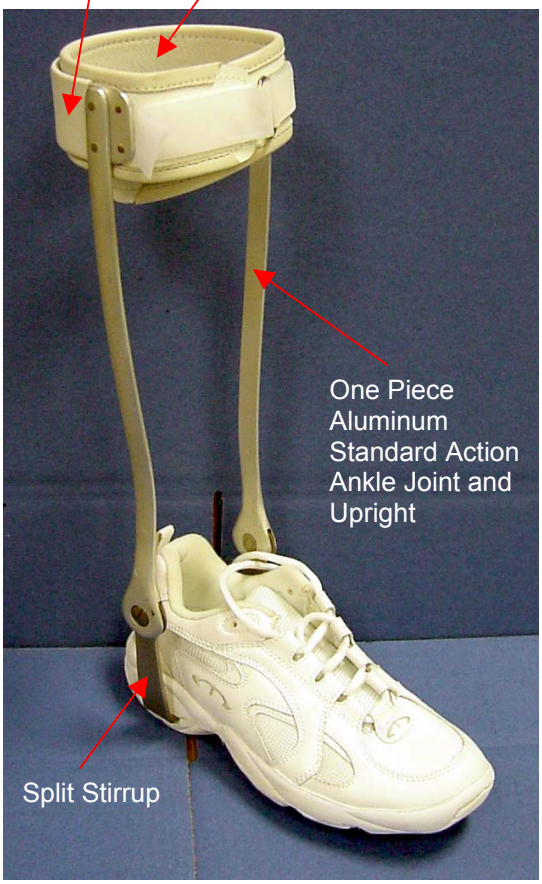
(Tail bone)

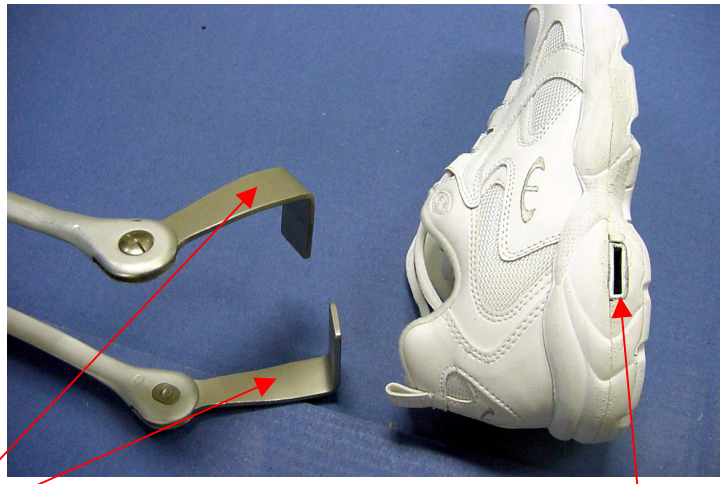
SPS
ORTHOTIC PROSTHETIC SUPPLIES

Metal AFO with Split Stirrup

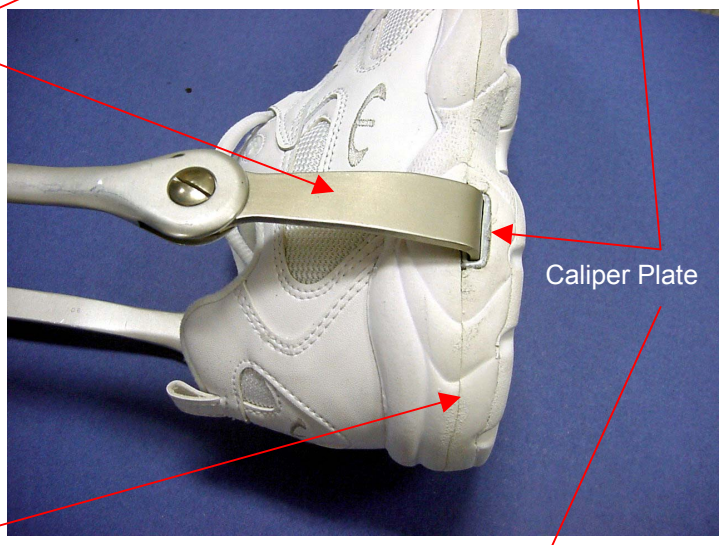
Aluminum Calf Band Covered with Cowhide

Calf band is made of cowhide, smoked elk and a velcro strap. It is riveted inside the aluminum calf band.



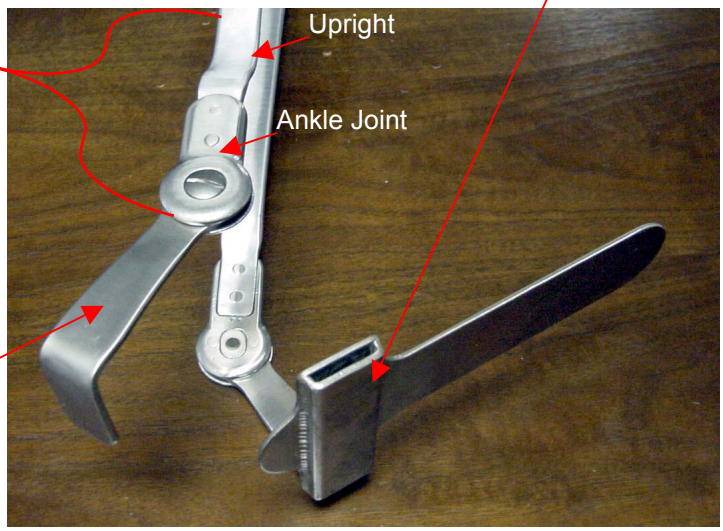


Split Stirrup



This thin glue line is were the shoe was cut and the caliper plate was installed

Modular Standard Action Ankle Joint with Upright Attached



Split Stirrup

The split stirrup, uprights and calf bands you see on this page are finished products ready to be fit on the patient. When you sell them they are straight with no bends. Each split stirrup, upright and calf band is bent custom to fit the shape of each patient's leg.

SPS ORTHOTIC PROSTHETIC SUPPLIES