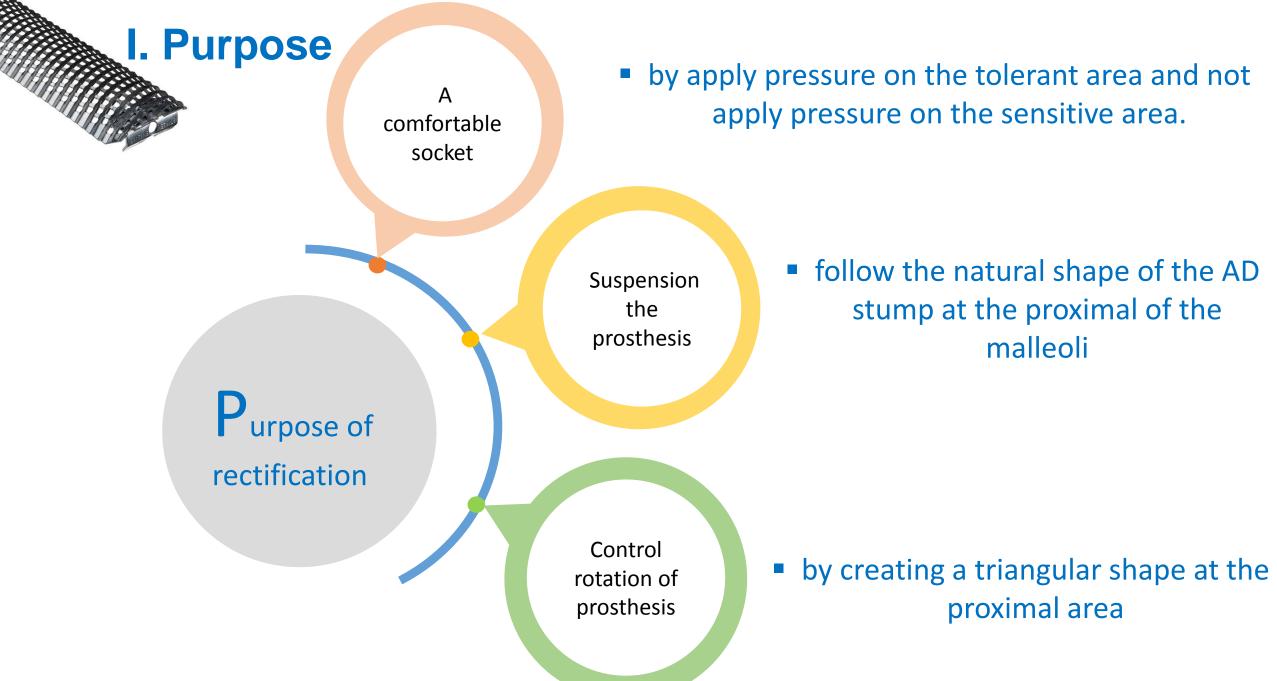


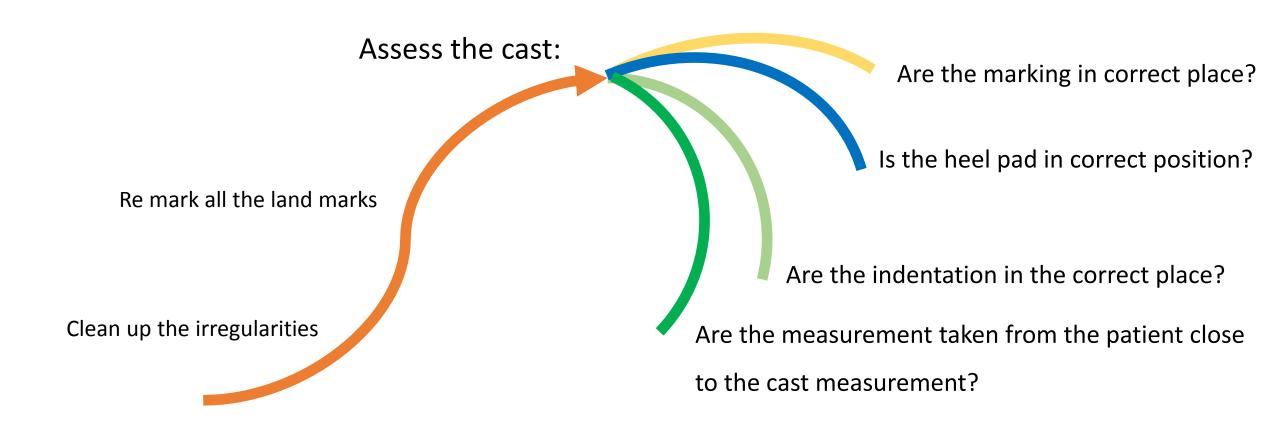


- III. Plaster removal
- IV. Plaster addition
- V. Summary





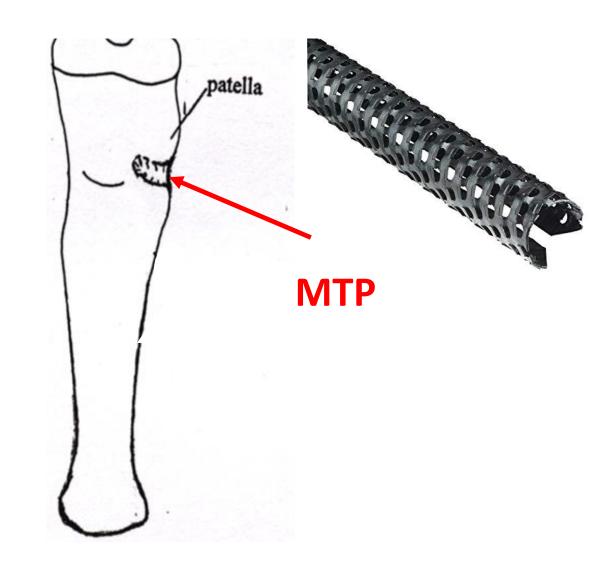
II. Rectification Procedure





Not modify as deep as TT model but it is not as deep as TT model for the stump that has end bearing and modify deeply as TT model in case for non end bearing stump

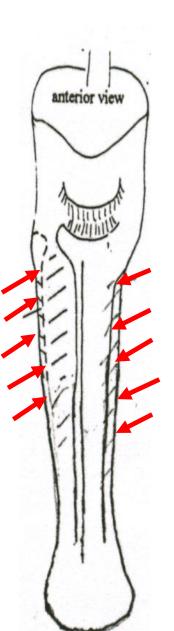
The contour the cast in the area distal to patella, so that the patella will be cradled by the socket this will help to stabilize the prosthesis by locking onto the patella.



Tibial Flares

Remove plaster along the medial tibial flare & tibialisanterior (for distribute weight bearing and control rotation).

A triangular shape in the cross section between the medial tibial flare and tibialisanterior will help to control rotation by locking the prosthesis onto the tibia.

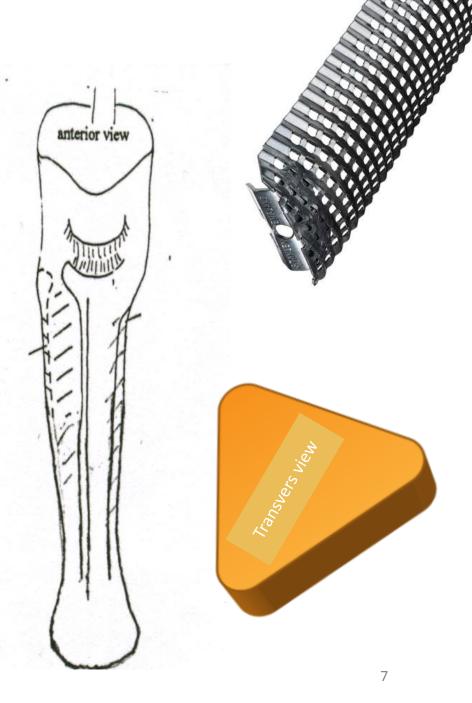




Tibial Flares

A triangular shape in the cross section between the medial tibial flare and tibialisanterior will help to control rotation by locking the prosthesis onto the tibia.

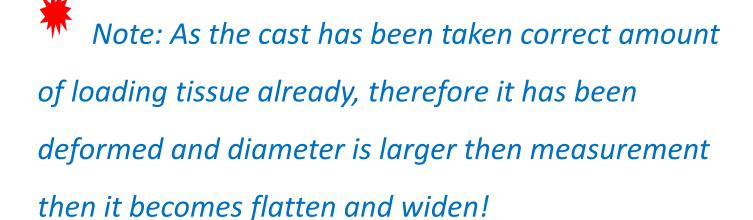
Be careful not to over rectify. Often the AD stump has thin stump due to muscle of the ankle movement atrophy.

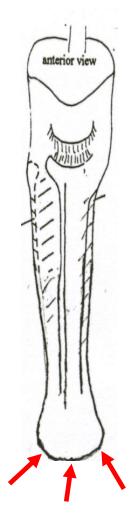






- ✓ the main load bearing area
- ✓ the end pad is loads, so it become flatter and wider.

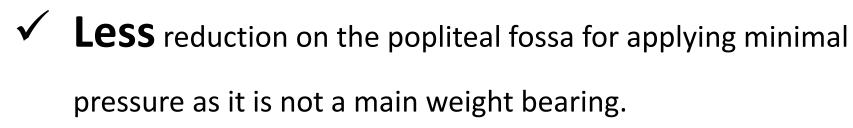












- ✓ This small pressure provide stability to the socket.
- ✓ If you have applied pressure correctly during casting, so

smooth is enough!



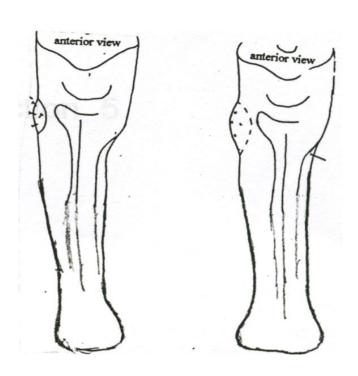
Posterior aspect of the tibia



- ✓ Slightly flattened on the posterior aspect of the tibia, this will adding the triangular shape that can help to control the prosthesis on the stump for all the phase of gait.
- ✓ In case that distal end bearing is not possible. the popliteal area should modified as per a standard PTB design.

The head of fibular

- Building up is the same way as a TT cast.
- Add 3mm on the apex, 1cm distal and 5 mm posterior

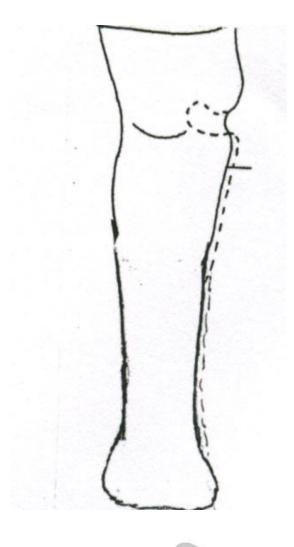




Tibial crest and Tibial tuberosity

- ✓ Add plaster 2-3 along the tibial crest
- ✓ Build up should be greatest on the tibial tuberosity and reduce gradually along the shaft of tibial

(add more plaster on the proximal then less and less to distal of the stump).

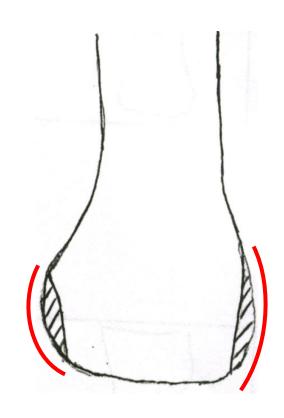




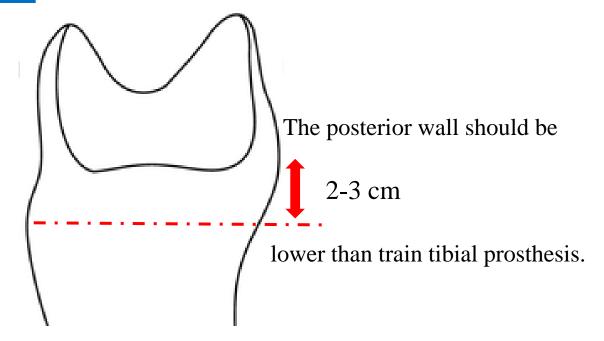
The malleoli

- ✓ Add plaster 2-3mm on both malleoli
- ✓ The diameter of this area is usually larger than the measurement because when the distal end is loaded, there will flatten and widen.

Do not reduce to the measures!!



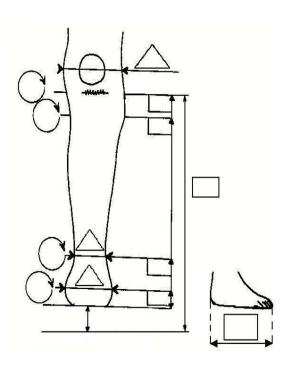
Posterior wall



If the posterior wall too high it will push the socket distal when the knee is flex, but the stump has bulbous at the distal so it cause pressure on the prominence of the malleoli

Any sensitive scar areas have to add plaster too

Re-check all the measurement of the cast



✓ Compare your cast measurement with the measurement chart

✓ Making it smooth and ready for the manufacture.





Why do you need to do cast rectification?

Which area of the AD cast do you need Plaster Removal?

Which area of the AD cast do you need Plaster addition

What is the problem if the posterior is too hight?

What are the triangular shape in the cross section between the medial tibial flare and tibialisanterior will help?