Thonic Innovation

Thonic Bandage: A new application technique as a first step towards controlled compression?

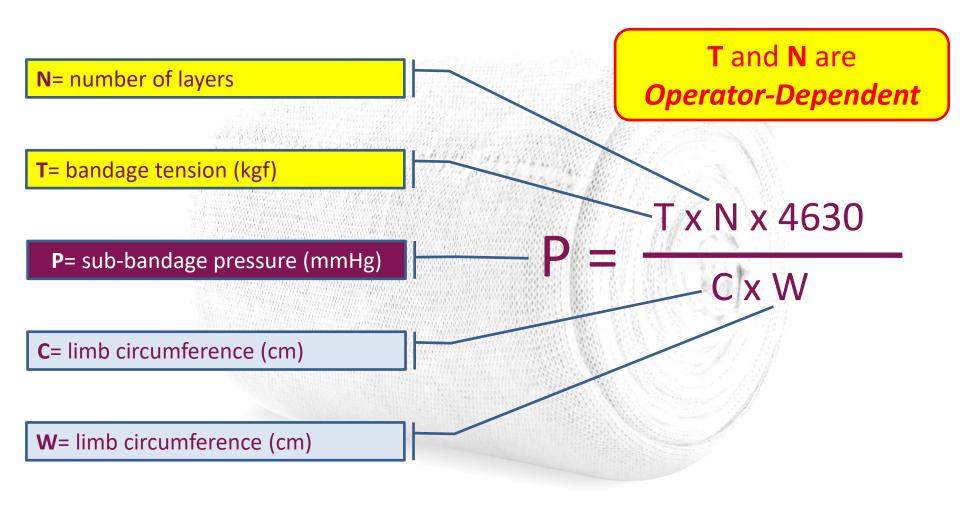
ICC Meeting, Paris - 09/12/2017

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www.thonic.care

The pressure produced by a compression bandage can be predicted according to Laplace's Law *





^{11/12/2017}

^{*} Lymphoedema Framework. Best Practice for the Management of Lymphoedema. International consensus. London: MEP Ltd, 2006.

Conclusion:

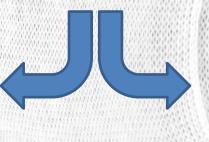


The force of a compression bandage is not in the bandage itself but in the hands of the person applying it.

Average Pressures (Inter-operators)

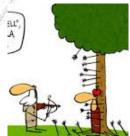






Dispersion (Intra-operators)

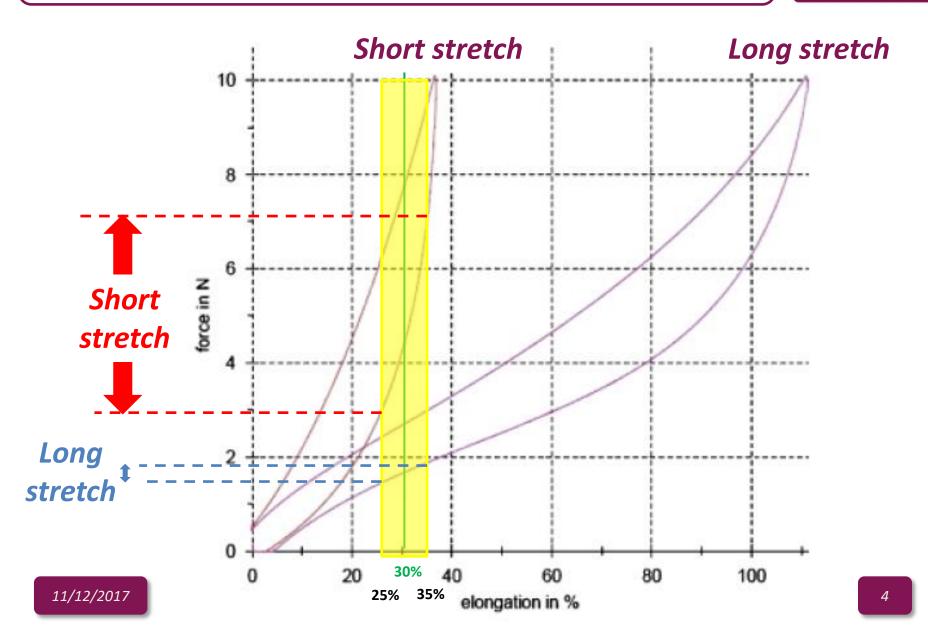




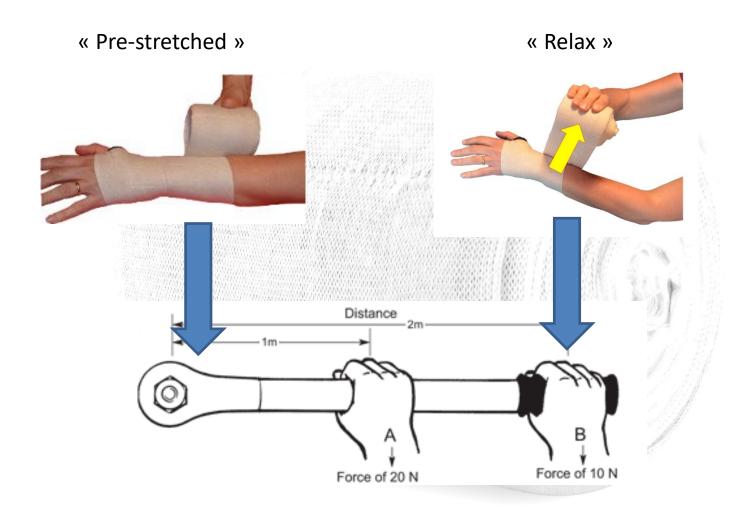
Dosage ?

Short stretch vs Long stretch (theory)





Application techniques - Torque



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		4 Groups of applicators				
Bandages (8cm)		First- timers	Patients	Primary care staff	Secondary care staff	
Long stretch	LS1	3 applications (Force 2)				
	LS2	3 applications (Force 2)				
Short stretch	SS1	3 applications pre-stretched 3 applications not pre-stretched				
	SS2	3 applications pre-stretched 3 applications not pre-stretched				

	Force 1		Force 2	
Bandages	Stretch	Overlap	Stretch	Overlap
LS1	40%	50%	40%	75%
LS2	30%	50%	50%	50%

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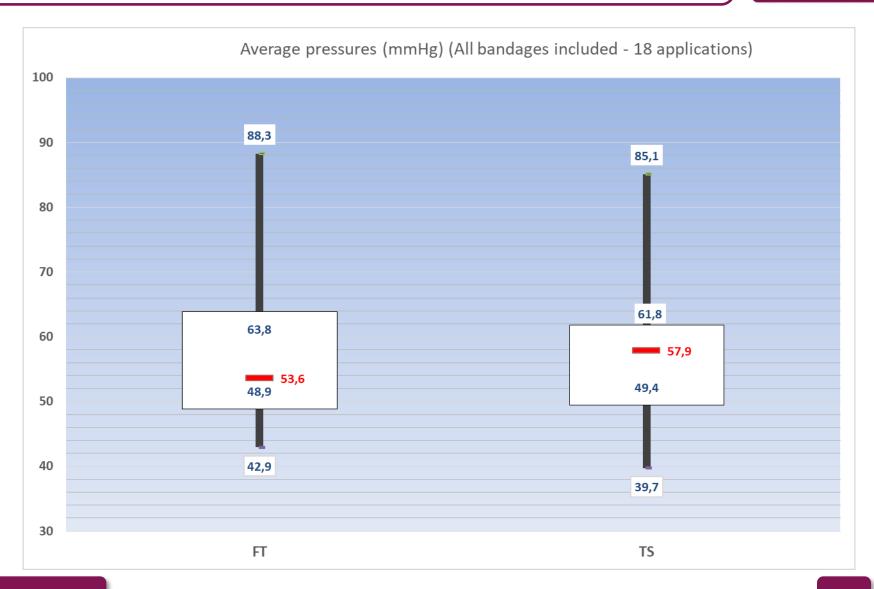
Reminders



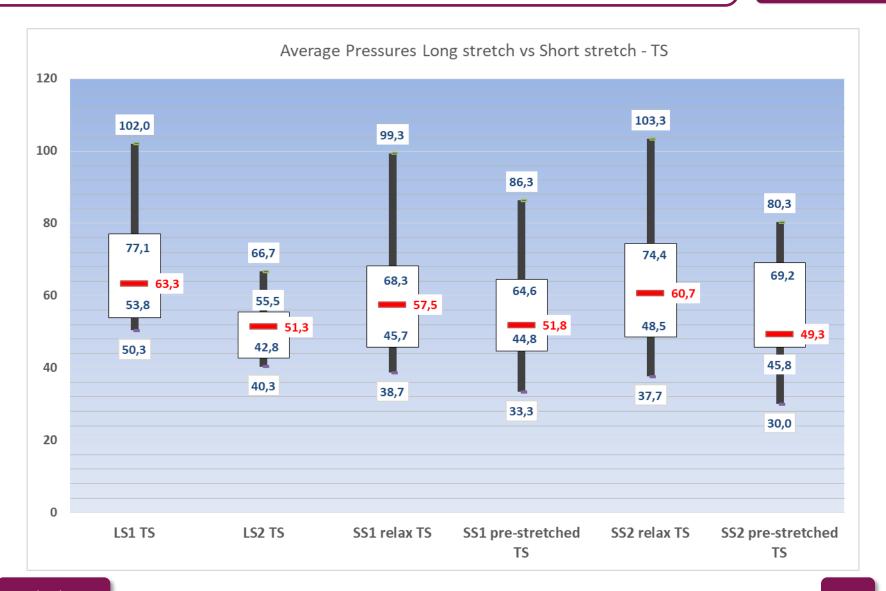
- 1. The pressures are taken on a hard plastic leg which means the pressures measured:
 - √ Have no clinical relevance
 - ✓ Can only be compared with those achieved in this study.
 - ✓ Are static
- 2. Our main criteria is the capacity for an operator to reproduce the same level of pressure with the same bandage. The term **Dispersion** will be used as the difference between the highest and lowest pressure of the 3 measurements.
- 3. The preliminary results presented hereafter are based on the applications by:
 - √ 15 First-timers (FT)
 - √ 12 Secondary Care Trained Staff (TS)
- 4. Additional First-timers and Secondary Care staff as well as Patients and Primary care staff will be included in the next months.

Average pressures – Inter-operator



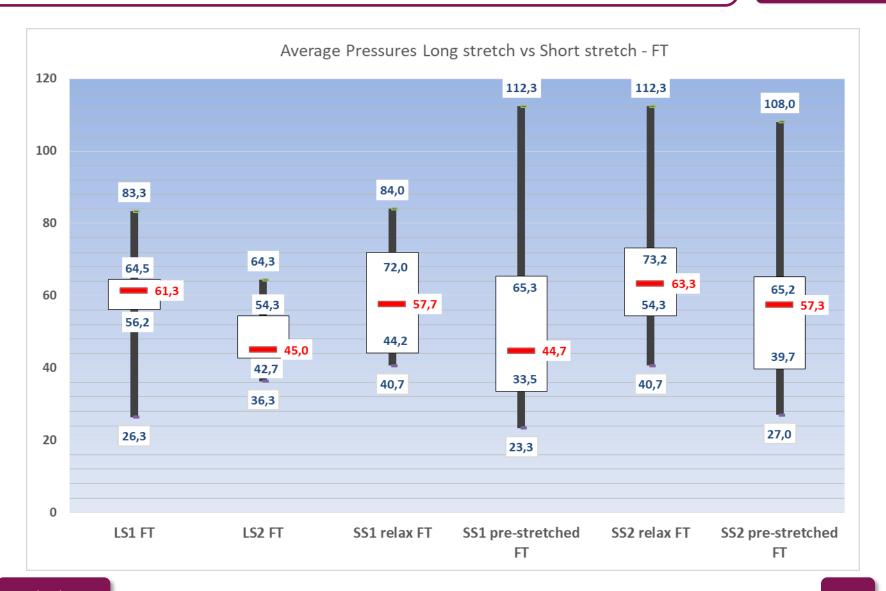






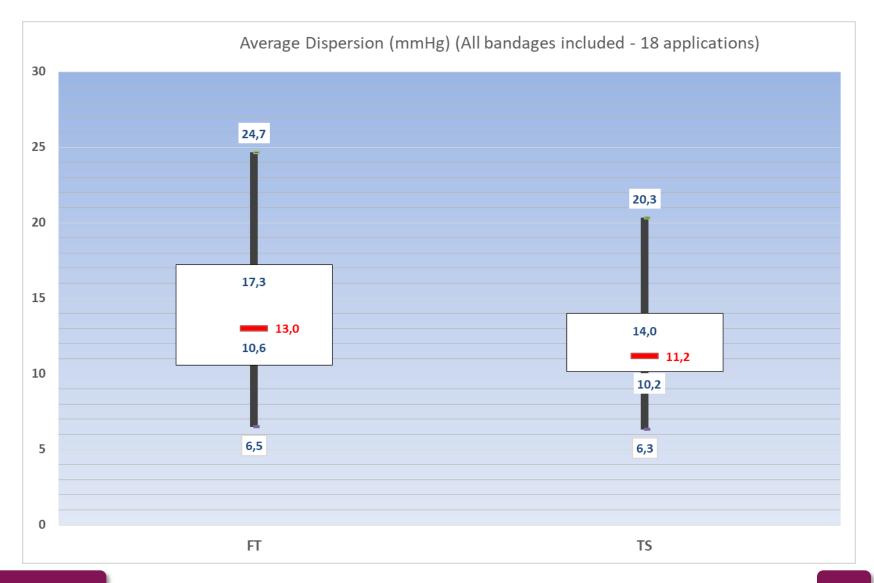
Average pressures – Inter-operator



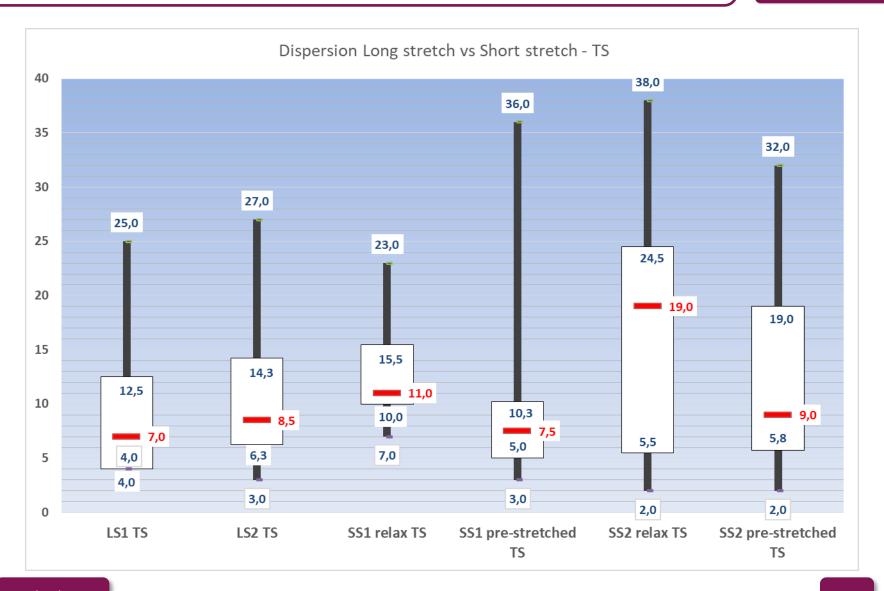


Dispersion – Intra-operator

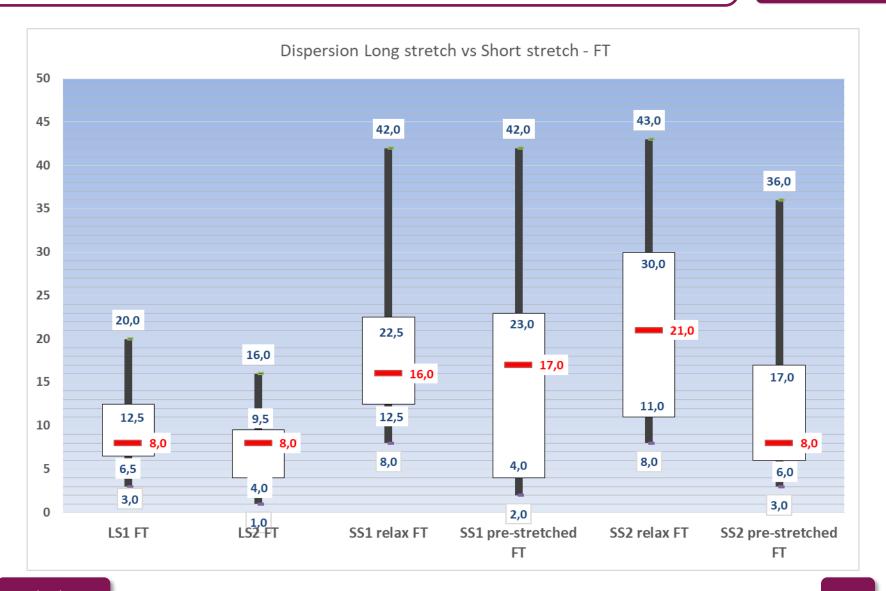
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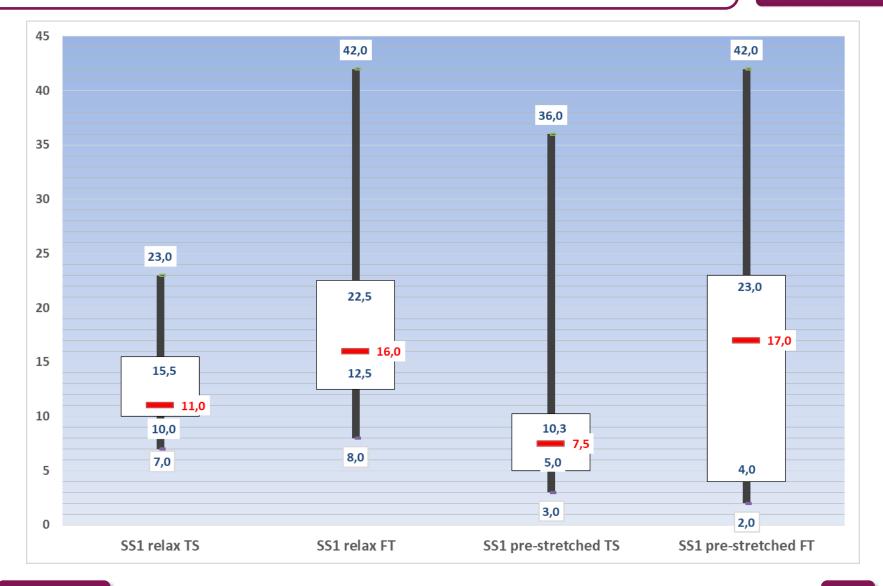


Dispersion – Intra-operator

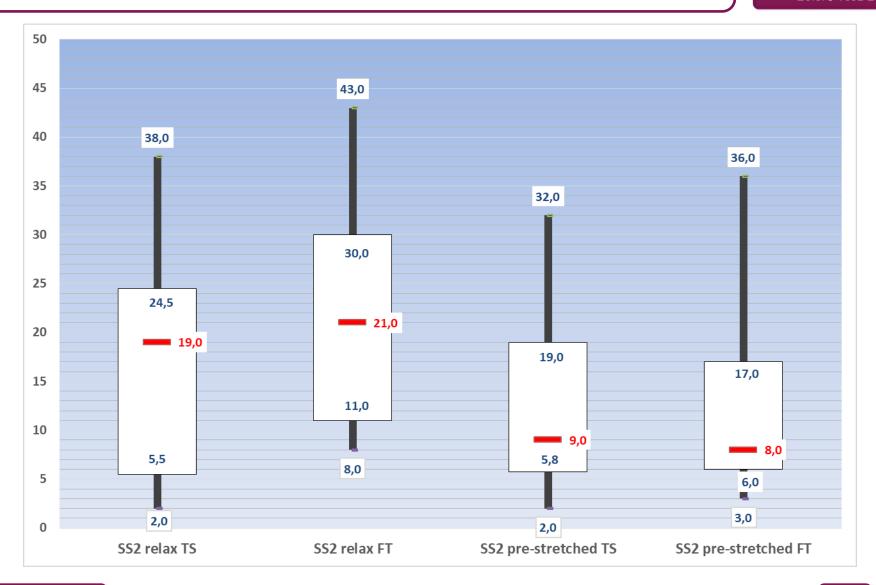


Dispersion – Intra-operator





Dispersion – SS2



Thonic Bandage



To combine the respective **benefits** of **elastic** and **inelastic** materials while **getting rid** of their respective **inconvenients** to design a :

- short-stretch
- single-layer
- multi-component

bandaging system that is simple and safe to apply!

Standard long stretch elastic bandage

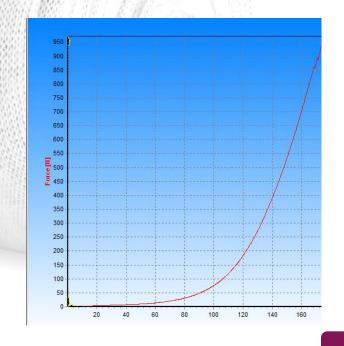
Standard inelastic cotton bandage





Seams





Discussions and Conclusions



- Influence and importance of practice/habits (?)
- Influence and importance of training (?)
- More data needed but the transfer of the compression from the hands of the person applying it to the bandage itself for a more controlled compression seems to be possible

Final conclusion



Thonic Innovation in 2018



Products

- Thonic bandage 2.0 early 2018
- New patent filed last week

Studies

- ReproComp study
- Bandocele study
- Study for Reimbursement in France
- Bariatric patients study

Projects

- Measure
- Dosage





SEE YOU AT THE NEXT ICC MEETING



Thank you very much for your attention!

Please do not hesitate to contact me

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