

Information for Clinical Choice

Casting Tapes

Introduction

Information for Clinical Choice (ICC) has been developed to assist Clinicians in the decision-making process when assessing the suitability of a product by providing a clear illustration and description of the features of a range of similar products supplied through NHS Supply Chain. The criteria provided, in the form of a Product Matrix and Support Document, is the result of a product review, conducted by Clinical Engagement and Implementation Managers with support from clinical stakeholders from across the NHS as part of our assurance process.

The aim, alongside delivering savings back into NHS frontline services, is to ensure that clinical choice remains at the forefront of any product switching decision.

Immobilisation and Associated Consumables - Casting Tapes

Extensive engagement with the British Orthopaedic Association (BOA) casting trainers has taken place to improve the framework offering and ensure the information provided aligns with current evidence-based guidelines. At the framework renewal two new suppliers were awarded, one is listed below and the other is pending whilst packaging and IFU's are improved. **All available casting tape products have been evaluated in person by clinicians.**

Casting Tapes are a type of medical tape that are designed to immobilise the limb and protect the area to encourage healing of injuries such as fractures or tendon rupture, to correct deformities e.g., talipes or following surgery. Casting may be used by skilled technicians as an alternative to off-the-shelf or Bespoke Orthotic products, producing removable splints and braces at competitive costs, this would be a trust decision.

Most casting tapes are made from a resin-impregnated fibrous cloth that requires activation in warm water (typically 25 degrees) although some allow humidity in the air to naturally cure. They can provide the same outcome as Plaster of Paris but are considered lighter, stronger, and more adaptable.

Historically products were described as Fiberglass or Non-Fiberglass and then by flexibility (Rigid, Semi-rigid, Flexible), however this did not align to the product characteristics. In agreement with the BOA, descriptions were updated to align to the product characteristics.


1. Rigid	Only fibreglass material casting tapes can be considered as rigid. This type of casting tape is the most suitable for weightbearing applications. The technique of focused rigidity casting requires a rigid product to be used in conjunction with either flexible or semi-rigid products.
2. Flexible	When set, these tapes allow a higher degree of flexibility than the other casting tapes which can help with reducing muscle atrophy which is experienced during a period of immobilisation. All flexible casting tapes must be able to be unwound by hand once set. Tapes can be made from either Fiberglass or Non-Fiberglass materials
3. Semi-Rigid	Semi-Rigid is Strong and lightweight, they have a small degree of flexibility once cured. Can be used independently from other casting tapes.
	Some suppliers have two ranges in this area, to differentiate these ranges we have included the term " with increased flexibility " in the product description. Semi-rigid products require the use of cast removal products and could not be unwound by hand.

Common Application Approach





1. Patient's limb is prepared, cleaned, and dried.
2. Casting Stockinette is applied to the limb.
 - a. Must be non-elasticated and a ribbed material.
 - b. Can be either natural or synthetic material, standard or towelling thickness.
3. Undercast Padding which is self-adherent is applied to the limb.
 - a. Can be either natural or synthetic material which comes either sterile, non-sterile, with or without waterproof properties.
 - b. The cast padding is there to provide a cushion between the limb and the cast tape. It also helps to keep the limb comfortable during wear and reduces heat exposure from the tape curing process.
4. Casting Tape is applied using appropriate technique for the outcome desired. The curing can take 20-30min to harden which allows weight bearing depending on variety of tape used.

N.B. There are variety of Casting Accessories to enhance functionality of the product, this includes, edging tape, hook and loop fixings, hinges, and waterproof covers.




1. Rigid Casting Tapes

Supplier Brand	3M Scotchcast Plus				BENECARE MEDICAL BeneCast Fibreglass				BSN MEDICAL LTD Delta-Lite Plus				TLB MEDICAL SUPPLIES Senolo			
Picture																
UOI	10				10				10				10			
UOI Description	Pack				Pack				Pack				Pack			
Product information	Size	Supply Route	# of colours	Colours Available	Size	Supply Route	No of colours	Colours Available	Size	Supply Route	No of colours	Colours Available	Size	Supply Route	No of colours	Colours Available
	2.5cm x 1.8m	Stocked BD eDirect	1	White	2.5cm x 1.8m	Stocked BD eDirect			2.5cm x 1.8m	Stocked BD eDirect	1	White	2.5cm x 1.8m	Stocked BD eDirect		
	5cm x 3.6m	Stocked	4	White, Blue, Purple, Red	5cm x 3.6m	Stocked	2	White, Blue	5cm x 3.6m	Stocked	8	White, Black, Blue, Deep Blue, Green, Pink, Purple, Red	5cm x 3.6m	Stocked		
		BD	4	Pink, Green, Light Blue, Yellow		BD	1	Yellow		BD						
		eDirect				eDirect	5	Green, Black, Red, Yellow, Pink		eDirect				eDirect	11	White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow
	7.5cm x 3.6m	Stocked	5	White, Blue, Purple, Red, Pink	7.5cm x 3.6m	Stocked	3	White, Blue, Purple	7.5cm x 3.6m	Stocked	8	White, Black, Blue, Deep Blue, Green, Pink, Purple, Red	7.5cm x 3.6m	Stocked		
		BD	4	Black, Green, Light Blue, Yellow		BD	2	Orange, Yellow		BD						
		eDirect				eDirect	4	Green, Black, Red, Pink		eDirect				eDirect	11	White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow
	10cm x 3.6m	Stocked	2	White, Black	10cm x 3.6m	Stocked	1	White	10cm x 3.6m	Stocked	8	White, Black, Blue, Dark Blue, Green, Pink, Purple, Red	10cm x 3.6m	Stocked		
		BD	5	Blue, Red, Purple, Pink, Green		BD	1	Yellow		BD						
		eDirect				eDirect	5	Blue, Pink, Purple, Red, Green		eDirect				eDirect	9	White, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow
	12.5cm x 3.6m	Stocked			12.5cm x 3.6m	Stocked	1	White	12.5cm x 3.6m	Stocked	1	White	12.5cm x 3.6m	Stocked		
		BD	1	White		BD				BD						
		eDirect				eDirect				eDirect				eDirect	11	White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow
	15cm x 3.6m	Stocked			15cm x 3.6m	Stocked			15cm x 3.6m	Stocked			15cm x 3.6m	Stocked		
		BD				BD				BD						
		eDirect				eDirect				eDirect				eDirect	11	White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow


2. Flexible Casting Tape

Supplier Brand	3M Soft Cast				BENECARE MEDICAL BeneCast Flex				BSN MEDICAL LTD Delta-Cast Soft				TLB MEDICAL SUPPLIES Senolo MyoFlex					
Picture																		
UOI	10				10				10				10					
UOI Description	Pack				Pack				Pack				Pack					
Product information	Size	Supply Route	No of colours	Colours Available	Size	Supply Route	No of colours	Colours Available	Size	Supply Route	No of colours	Colours Available	Size	Supply Route	No of colours	Colours Available		
	2.5cm x 1.8m	Stocked		1	White	2.5cm x 1.8m	Stocked			2.5cm x 1.8m	Stocked		White	2.5cm x 1.8m	Stocked			
		BD		3	Blue, Red, Purple		BD				BD	1				BD		
		eDirect					eDirect				eDirect					eDirect		
	5cm x 3.6m	Stocked		4	White, Blue, Purple, Red	5cm x 3.6m	Stocked		4	White, Blue, Pink, Purple	5cm x 3.6m	Stocked			5cm x 3.6m	Stocked		
		BD		2	Black, Pink		BD			BD		7	White, Black, Blue, Pink, Red, Paw Print, Heart Print	BD				
		eDirect					eDirect		4	Green, Black, Red, Yellow		eDirect				eDirect	11	White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow
	7.5cm x 3.6m	Stocked		4	White, Blue, Purple, Red	7.5cm x 3.6m	Stocked		4	White, Blue, Pink, Purple	7.5cm x 3.6m	Stocked			7.5cm x 3.6m	Stocked		
		BD		2	Black, Pink		BD			BD		7	White, Black, Blue, Pink, Red, Paw Print, Heart Print	BD				
		eDirect					eDirect		4	Green, Black, Red, Yellow		eDirect				eDirect	11	White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow
	10cm x 3.6m	Stocked		1	White	10cm x 3.6m	Stocked			10cm x 3.6m	Stocked			10cm x 3.6m	Stocked			
		BD		3	Blue, Red, Purple		BD				BD	5	White, Black, Blue, Pink, Red		BD			
		eDirect					eDirect		5		White, Blue, Pink, Purple, Red	eDirect				eDirect	11	White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow
	12.5cm x 3.6m	Stocked				12.5cm x 3.6m	Stocked			12.5cm x 3.6m	Stocked		White	12.5cm x 3.6m	Stocked			
		BD					BD				BD	1				BD		
		eDirect		1	White		eDirect		1		White	eDirect				eDirect	11	White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow
	15cm x 3.6m	Stocked				15cm x 3.6m	Stocked			15cm x 3.6m	Stocked			15cm x 3.6m	Stocked			
		BD					BD				BD				BD			
		eDirect					eDirect				eDirect				eDirect	11	White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow	

3a. Semi Rigid

Supplier	BENECARE MEDICAL				BSN MEDICAL LTD				TLB MEDICAL SUPPLIES					
Brand	BeneCast Poly				Delta-Cast Elite				Senolo					
Subset	Standard				Standard				Standard					
Classification	Standard				Standard				Standard					
Picture														
UOI	10				10				10					
UOI Description	Pack				Pack				Pack					
Product information	Size	Supply Route	No of colours	Colours Available	Size	Supply Route	No of colours	Colours Available	Size	Supply Route	No of colours	Colours Available		
	2.5cm x 1.8m	Stocked				2.5cm x 1.8m	Stocked			2.5cm x 1.8m	Stocked			
		BD					BD				BD			
		eDirect					eDirect				eDirect			
	5cm x 3.6m	Stocked	8		White, Black, Blue, Green, Orange, Pink, Purple, Red	5cm x 3.6m	Stocked	5	White, Black, Dark Blue, Purple, Red	5cm x 3.6m	Stocked			
		BD					BD	4	Light Blue, Green, Orange, Paink		BD			
		eDirect	1		Yellow		eDirect				eDirect	11		White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow
	7.5cm x 3.6m	Stocked	8		White, Black, Blue, Green, Orange, Pink, Purple, Red	7.5cm x 3.6m	Stocked	5	White, Black, Dark Blue, Purple, Red	7.5cm x 3.6m	Stocked			
		BD					BD	4	Light Blue, Green, Orange, Paink		BD			
		eDirect	1		Yellow		eDirect				eDirect	11		White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow
10cm x 3.6m	Stocked	7		White, Black, Blue, Green, Pink, Purple, Red	10cm x 3.6m	Stocked	5	White, Black, Dark Blue, Purple, Red	10cm x 3.6m	Stocked				
	BD					BD	4	Light Blue, Green, Orange, Paink		BD				
	eDirect	2		Yellow, Orange		eDirect				eDirect	11		White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow	
12.5cm x 3.6m	Stocked	1		White	12.5cm x 3.6m	Stocked	1	White	12.5cm x 3.6m	Stocked				
	BD					BD				BD				
	eDirect					eDirect				eDirect	11		White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow	
15cm x 3.6m	Stocked				15cm x 3.6m	Stocked			15cm x 3.6m	Stocked				
	BD					BD				BD				
	eDirect					eDirect				eDirect	11		White, Black, Blue, Blue Camo, Green, Light Blue, Orange, Pink, Purple, Red, Yellow	

3b. Semi Rigid – Increased Flexibility

Supplier	BENECARE MEDICAL				BSN MEDICAL LTD			
Brand	BeneCast Advanced Conformable				Delta-Cast Conformable			
Subset	Post setting increased Flexibility				Post setting increased Flexibility			
Classification	Post setting increased Flexibility				Post setting increased Flexibility			
Picture								
UOI	10				10			
UOI Description	Pack				Pack			
Product information	Size	Supply Route	No of colours	Colours Available	Size	Supply Route	No of colours	Colours Available
	2.5cm x 1.8m	Stocked			2.5cm x 1.8m	Stocked		
		BD				BD	1	White
		eDirect				eDirect		
	5cm x 3.6m	Stocked	3	Purple, Blue, Pink	5cm x 3.6m	Stocked	8	White, Black, Blue, Green, Pink, Purple, Red, Yellow
		BD				BD		
		eDirect	4	White, Black, Green, Red		eDirect		
	7.5cm x 3.6m	Stocked	6	White, Black, Blue, Pink, Purple, Red	7.5cm x 3.6m	Stocked	8	White, Black, Blue, Green, Pink, Purple, Red, Yellow
		BD				BD		
		eDirect	1	Green		eDirect		
	10cm x 3.6m	Stocked	3	White, Black, Pink	10cm x 3.6m	Stocked	8	White, Black, Blue, Green, Pink, Purple, Red, Yellow
		BD				BD		
		eDirect	4	Blue, Green, Purple, Red		eDirect		
	12.5cm x 3.6m	Stocked	1	White	12.5cm x 3.6m	Stocked	1	White
		BD				BD		
		eDirect				eDirect		
	15cm x 3.6m	Stocked			15cm x 3.6m	Stocked		
		BD				BD		
		eDirect				eDirect		

National Guidance / Bibliography

These papers were reviewed as part of this ICC development.

<https://www.nice.org.uk/guidance/ng19/resources/diabetic-foot-problems-prevention-and-management-pdf-1837279828933>

- Cohen et al, 2001 - **Focused rigidity casting: a prospective randomised study**. Journal of the Royal College of Surgeons of Edinburgh; Oct 2001; vol. 46 (no. 5); p. 265-270
- Inglis et al, 2013 - **Synthetic versus plaster of Paris casts in the treatment of fractures of the forearm in children: a randomised trial of clinical outcomes and patient satisfaction**. The Bone & Joint journal; Sep 2013 (no. 9); p. 1285-1289
- Kowalski et al, 2002 - **Evaluation of fiberglass versus plaster of Paris for immobilization of fractures of the arm and leg**. Military medicine; Aug 2002; vol. 167 (no. 8); p. 657-661
- Milne N, Miao M, Beattie E. **The effects of serial casting on lower limb function for children with Cerebral Palsy: a systematic review with meta-analysis**. BMC Pediatr. 2020 Jul 2;20(1):324. doi: 10.1186/s12887-020-02122-9. PMID: 32615954; PMCID: PMC7330971.

Analysis of Spend Comparison Service data and Savings Opportunities.

A detailed search was undertaken on Spend Comparison Service identifying Direct Spend and analytics of usage across product ranges. The data identified has been used to provide National Impact Analysis. This information is available via your Customer Relationship Managers, for further information please speak with your liaison.

There are several potential switching opportunities available which will be included in the National Impact Analysis.

If you have any questions, would like further information, or have feedback to share, please contact:

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