Starting a casting program

Lindsay Andras MD



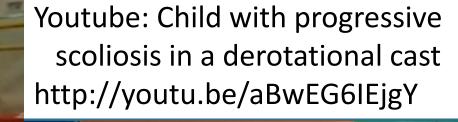


- 1. Preparing the parents
- 2. Supplies
- 3. Preparing the team
- 4. Pitfalls to avoid





Preparing the parents



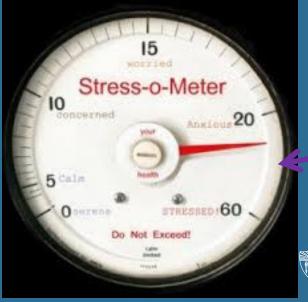






Preparing the parents

Website for infantile scoliosis outreach program http://www.infantilescoliosis.org/index.html (instructions on cast care and tips from parents)



caring for a toddler in a cast





Preparing the parents

- Instructions on changing jerseys
 - youtube video: http://youtu.be/dJKzjCxYX0M
 - handout



- Purchasing jerseys directly from knit-rite
- email them for a provider code (\$30/jersey)





Supplies

Slides down for casting





Robert Eldridge Pillar Orthopedic Design L.L.C. 360-773-8779

http://www.pillarorthopedicdesign.com/

Supplies

- Jerseys
- Stockinette (Standard)
- Head Halter
- Synthetic Cast Padding
- Felt
- Cellona plaster (large and small rolls)
- Fiberglass(Standard)
- Staple gun (1/4" staples)







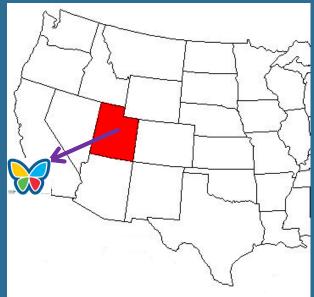
Supplies

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Item	Vendor	Item#	Phone #
Head Halter-12 Per Box	Zimmer	0912	(801) 266-9292
		JT21=1/4" (VERY	
Arrow Staples	Home Depot	IMPORTANT)	
Cotton Undercast Padding 2", Specialist 100, Blue Package	BSN Medical	9082	
Cotton Undercast Padding 4", Specialist 100, Blue Package	BSN Medical	9084	(800) 552-1157
1/4" Felt Padding	Cascade Orthopedic Supply	WPF-250, order by the yard	(800) 888-0865
1/8" Felt Padding	Cascade Orthopedic Supply	WPF-125, order by the yard	(800) 888-0865
Torso Interface, Turtleneck with X- Static, Size Small	Knit-Rite	1BX1BTSM	(800) 821-3094
Torso Interface, Turtleneck with X- Static, Size Medium	Knit-Rite	1BX1BTMD	(800) 821-3094
Cellona Extra Creamy Plaster Bandages, 4"	Cascade Orthopedic Supply	91162	(800) 821-3094
Cellona Extra Creamy Plaster Bandages, 24"	Cascade Orthopedic Supply	20302	(888) 938-7828

Preparing the team

Find out who is going to do the anesthesia and have them talk to an anesthesiologist at a place that casts regularly







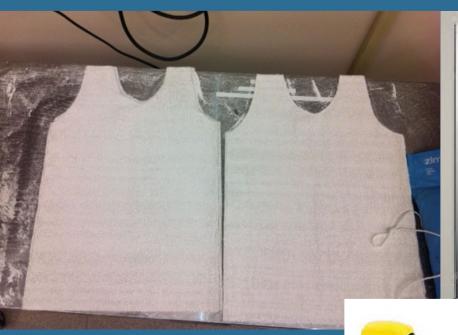


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Preparing the team

Lay out supplies and Write Out Steps



- 1. 2 layers stockinette
- 2. Transfer to casting table
- 3. Tie hips to table (cross over iliac crest)
- 4. Apply head halter traction
- 5. Secure arms- concave higher than convex
- 6. Felt pads
- 7. Wrap with cast padding
- 8. Practice Mold
- 9. Plasters sheaths on front and back
- 10. Wrap with plaster rolls
- 11. 3 person mold
- 12. Overwrap with fiberglass
- 13. Overwrap with wet Ace
- 14. Transfer back to bed
- 15. Cut out abdominal window, bottom, neck, arms, back window
- 15. Staple and moleskin







Preparing the team Practice Run



Tell them it will take 3 hours (usually takes a little under 2 hrs)

Preparing the team

3. Flexion Derotation

(attending)

2. Hip Mold

1. Counter traction on convex shoulder (least experienced person)

3 people to mold- Practice after cast padding is rolled before plaster





Pitfall 1

Not cutting stockinette long enough to go over head/hair







Pitfall 2 Well padded kids

19 mo with arthrogryposis

Chubby thighs
Above the level of
Iliac crest when sitting=
impossible to mold

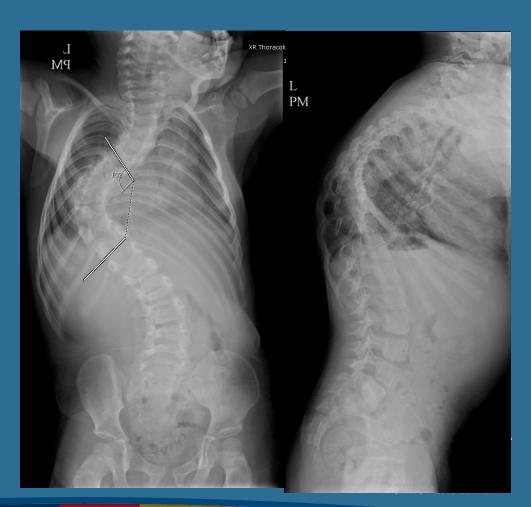


6 yo with Prader Willi that weighs 110lbs= Epic Cast Failure



Pitfall 3 High riding casts

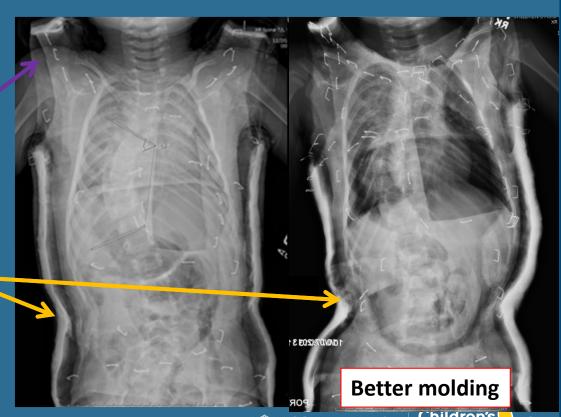
2 yo male with 100 degree thoracic curve (MRI negative)



Pitfall 3 High riding casts

Arms positioned too high when casting

Not enough iliac crest mold







4yo male with VATER syndrome and hemivertebrae at thoracolumbar junction

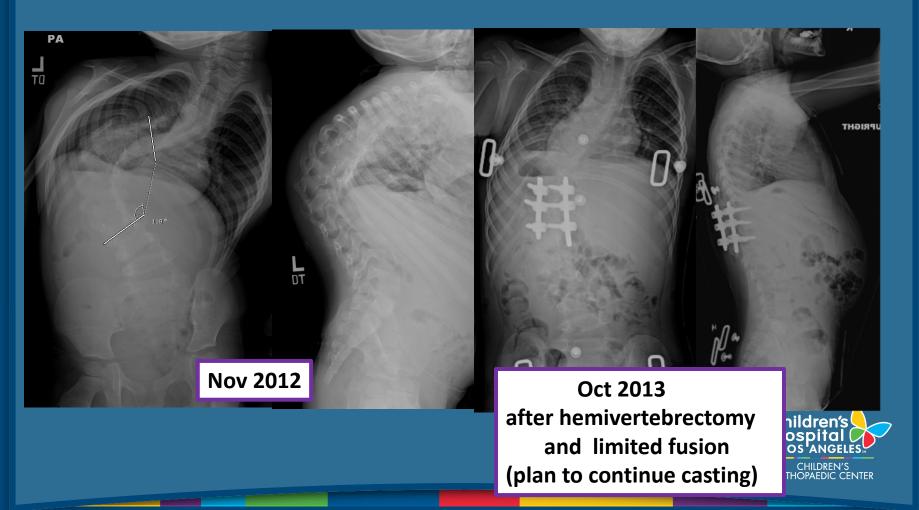


Seen at 6 mo Lost to followup





4yo male with VATER syndrome and hemivertebrae at thoracolumbar junction





THANKS to David Skaggs, Vernon Tolo, Paul Choi and Jacques D'Astous



