



The \$6 Vascular Trainer  
or  
Need cost effective surgical simulation?  
Send a resident to the hardware store.

Kevin W. Sexton, MD



83% of residents would be comfortable demonstrating competency on the simulator.

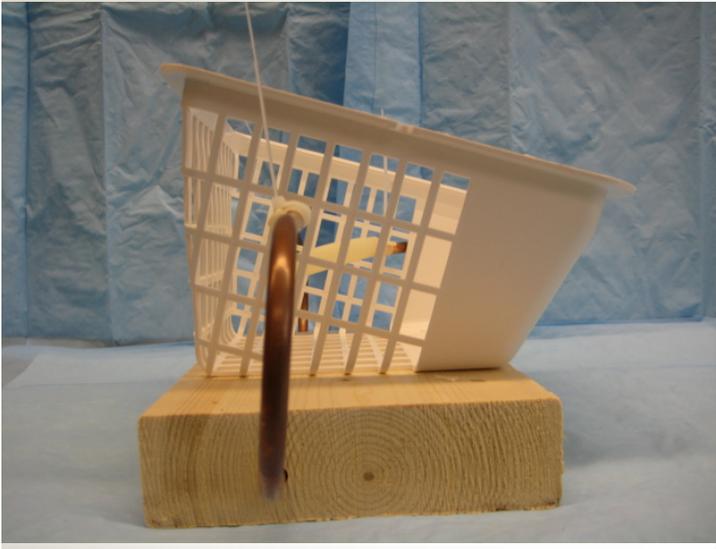
100% of residents surveyed wanted a simulator for personal use

2/3 of residents were willing to pay for the simulator out of pocket

The average price they would pay was \$25  
(range \$5 to \$100)



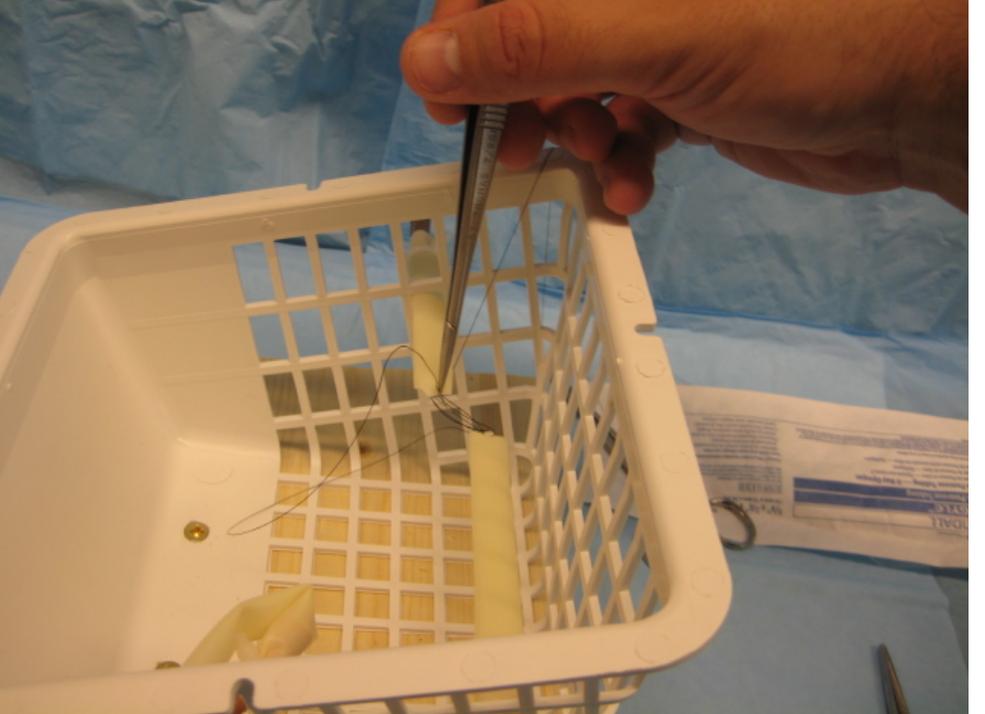
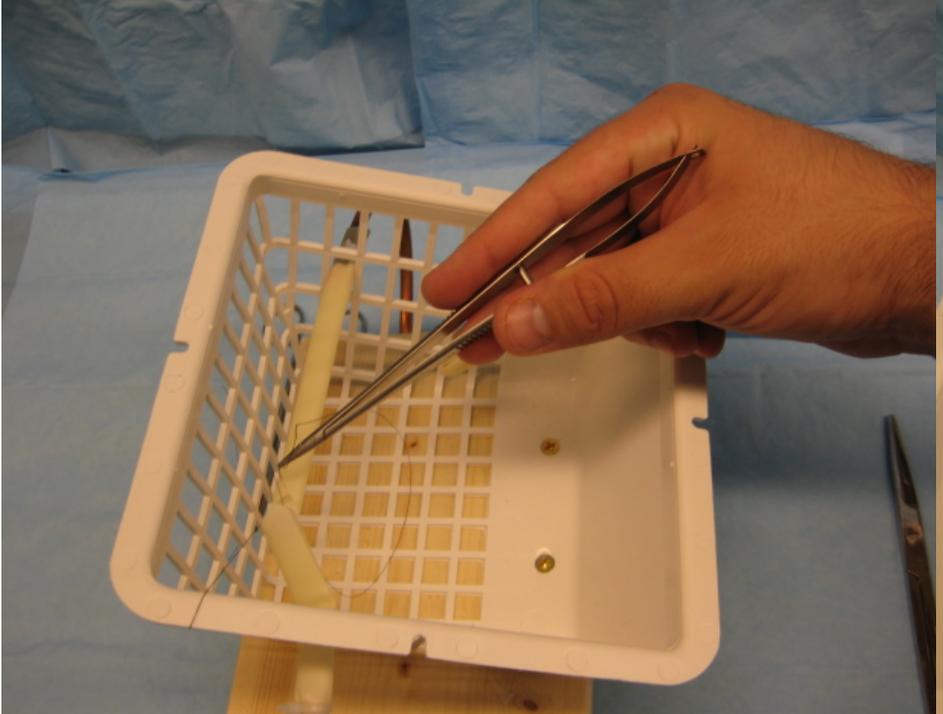
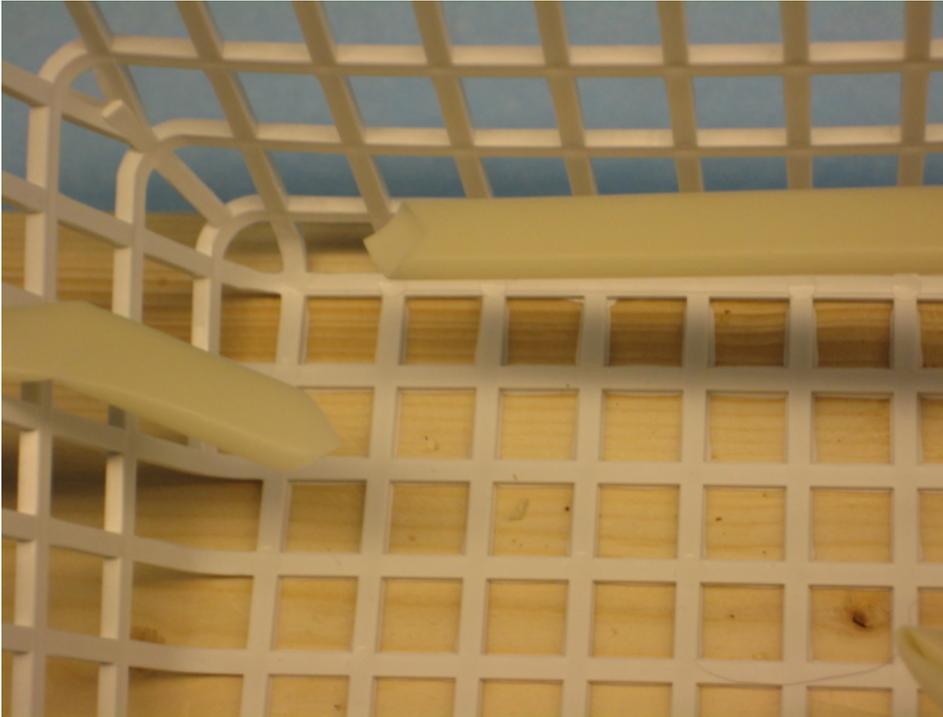
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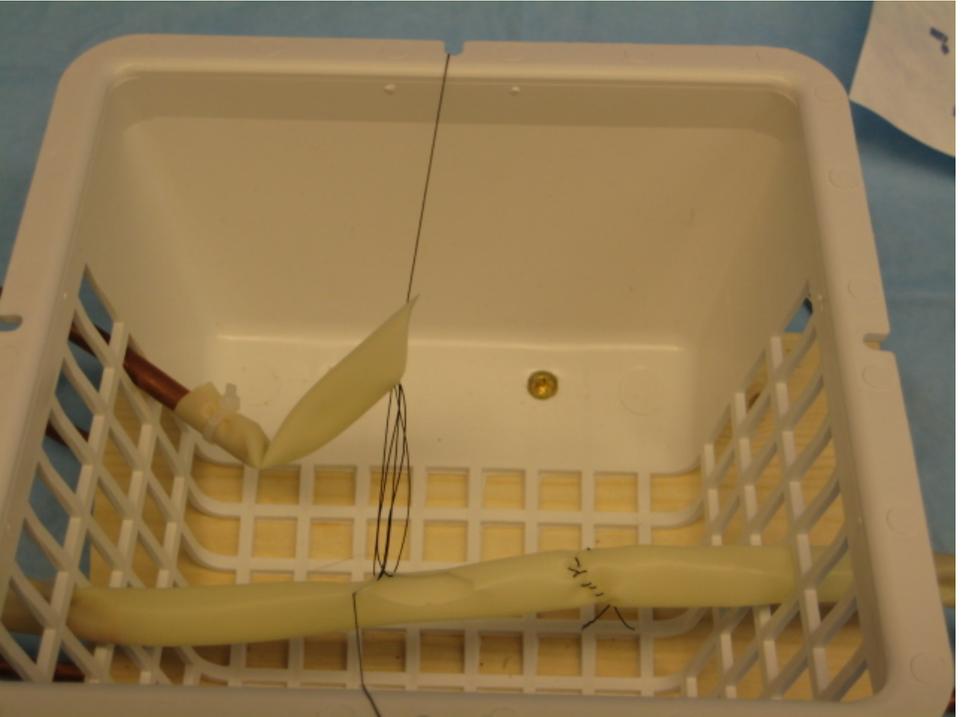




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## Knot Tying Feedback





## Materials

<b>Item</b>	<b>Cost</b>
2x6x14 -makes 28 boards	\$7.50
Universal Bird Guard (Lambro or Deflect-o)	\$2.50
3/8 inch Soft Copper Refrigeration Coiled Pipe -8 inch segment (20 ft. coil makes 10 boxes)	\$16.80
Zip Ties (1000 ct)	\$19.97
Wood Screws (100 ct)	\$4.00
Penrose Drain	\$1.50
<b>Per unit cost \$6.00 with Penrose Drain</b>	



## Instructions

- Trim the 2x6x14 into 6 inch segments.
- Drill 3/8 inch holes (or whatever size pipe you are using) into the side of the board.
- You will need 2 on one side (each about 1.5 inches from the outer edge) and one on the other (about 1.5 inches from one edge)
- A drill press is a great tool for this job, but it can be done with a hand drill and some vice grips.







Next attach the Bird guard to the  
2x6 using the wood screws.



Screws



- Cut the copper pipe into pieces approximately 8 inches long.
- Now bend the pieces of copper pipe gently into a C shape.
- Insert the pipe into each side.



**Commercial Electric**  
1000  
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**4 inch Cable Ties**  
• Indoor Use  
• Meets Military Specs  
• Flexible Nylon Material

**10.16 cm Amarras para Cables**  
• Uso para interiores  
• Cumple con especificaciones militares  
• Material de nylon flexible



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Latex Pressure Tubing — X-Rayopaque

- Tubing de Presión de Aire — Opaco a los Rayos X
- Conductor/Presión de Aire — Radiopaco
- Tubo de Presión con Opacidad en Aire — Radiopaco

\*Material of the tubing is made of 100% latex.  
Para mayor información consulte el prospecto.  
\*Material of the tubing is made of 100% latex.  
For more information consult the prospectus.  
\*Material of the tubing is made of 100% latex.  
Für weitere Informationen lesen Sie bitte den Prospektus.  
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**5/8" x 1/8" x 12'**  
154 mm x 32 mm x 3.66 m

**STERILE**

Sealed & ready to use. Do not use if the seal is broken or if the tubing is damaged. Do not use if the tubing is contaminated. Do not use if the tubing is expired. Do not use if the tubing is damaged. Do not use if the tubing is contaminated. Do not use if the tubing is expired. Do not use if the tubing is damaged. Do not use if the tubing is contaminated. Do not use if the tubing is expired.

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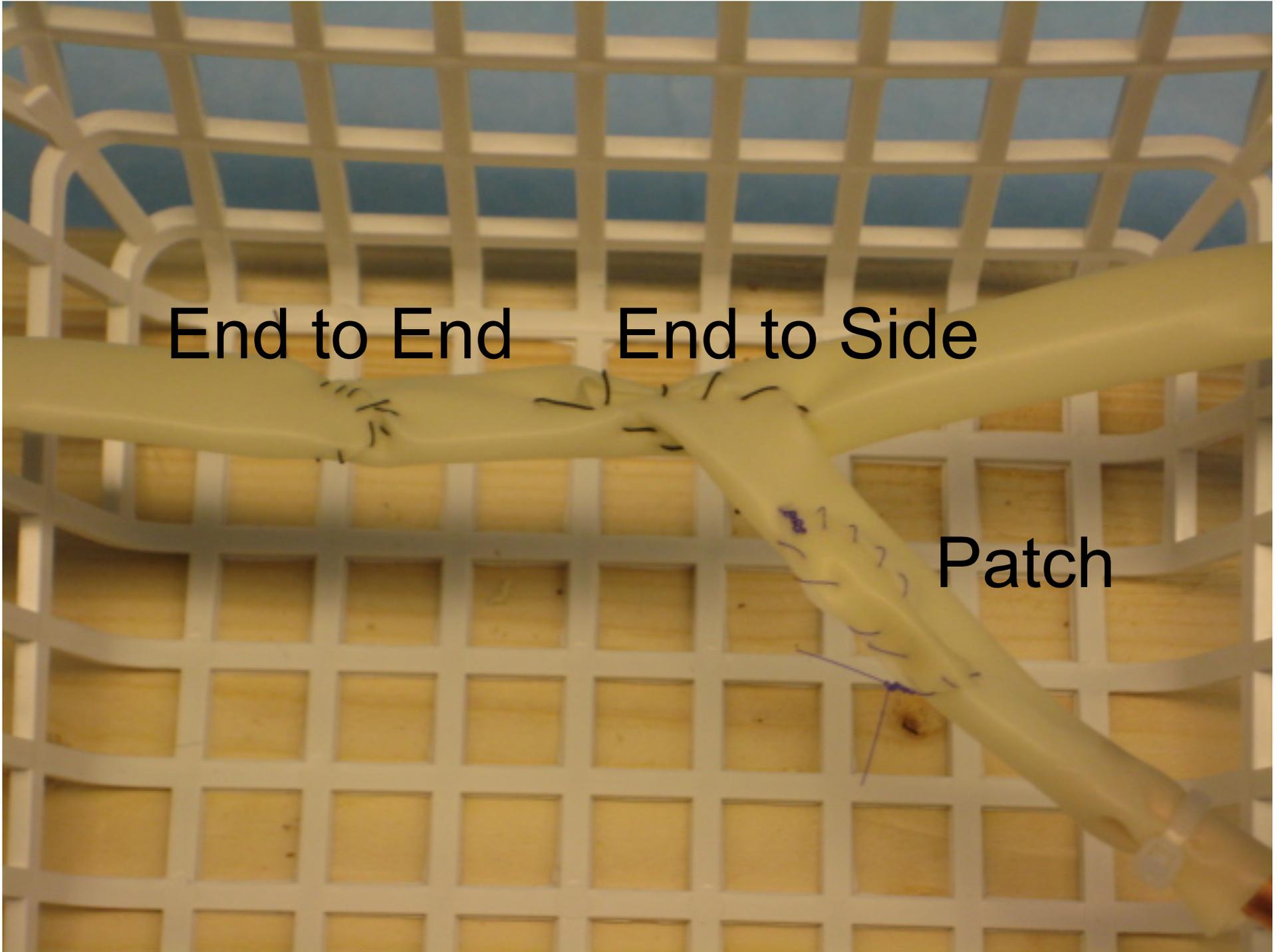
- Now trim the penrose to the size needed to drape from one piece of pipe to the one on the opposite side.
- Affix to the pieces of pipe with zip ties.
- Attach the remainder to the free piece of pipe, then trim as needed.



End to End

End to Side

Patch





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# Voice Thread

