

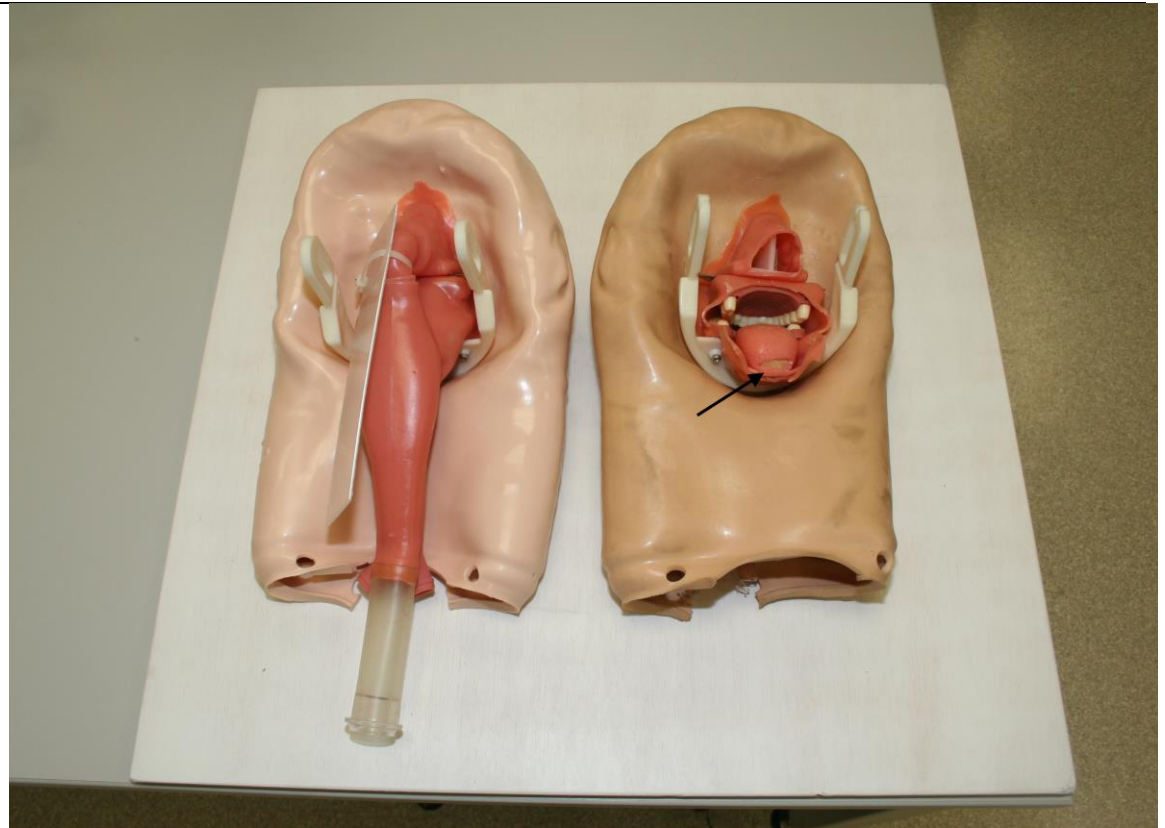
Development of a Novel Ultrasound-guided Peritonsillar Abscess Model for Simulation Training

Supplement: Construction Instructions with Pictorial Guide

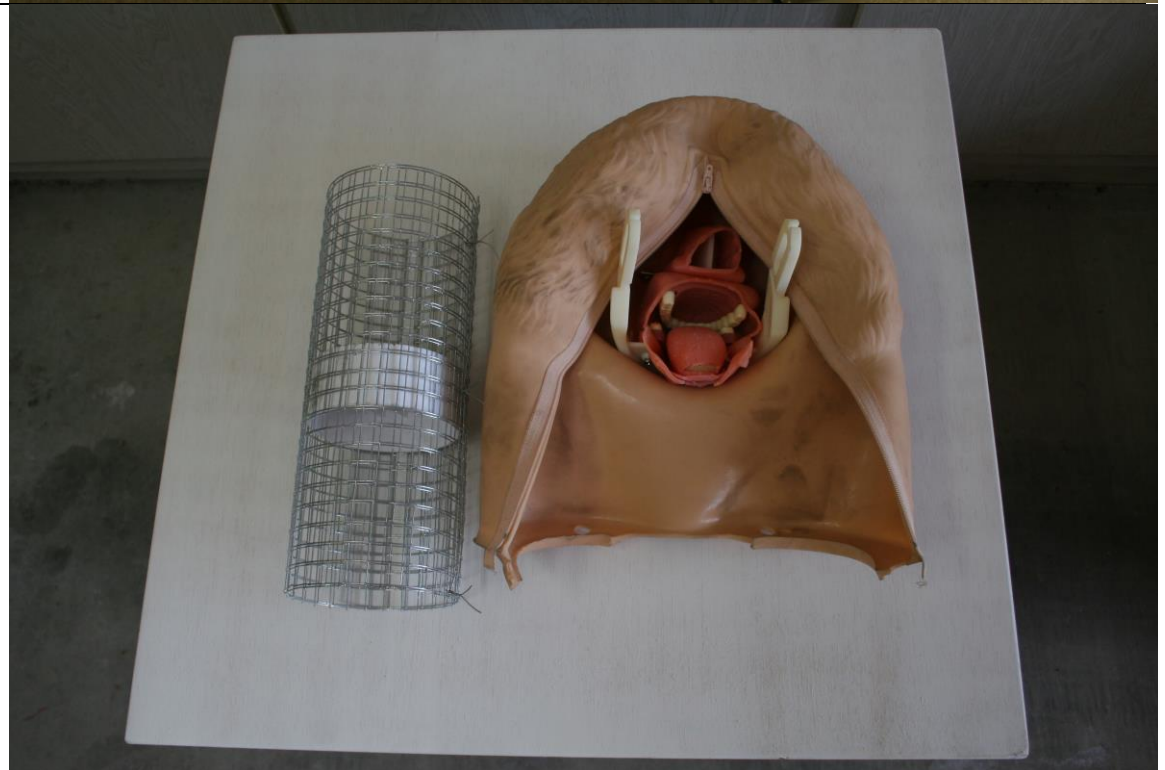
Materials for task trainer heads (see Table 1)



Prepare the
heads skin with slit at
base of tongue (1a)



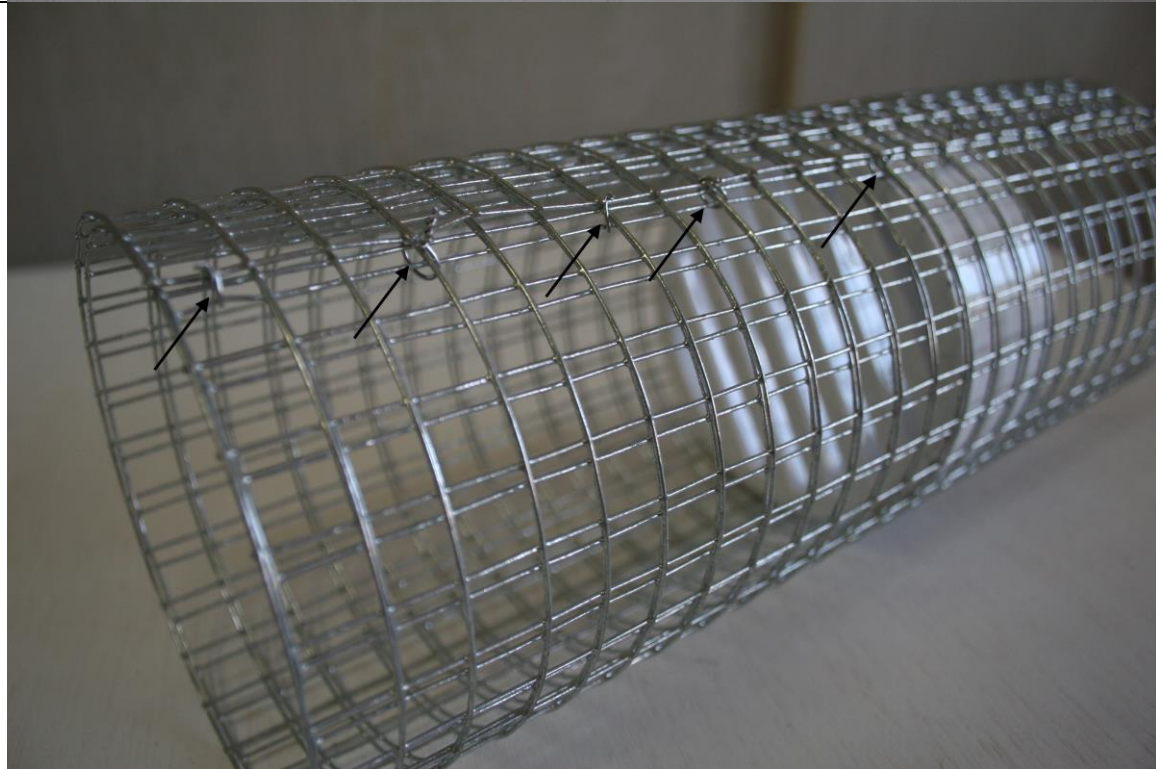
Cut hardware cloth
to height needed for
available heads skin
(2a)



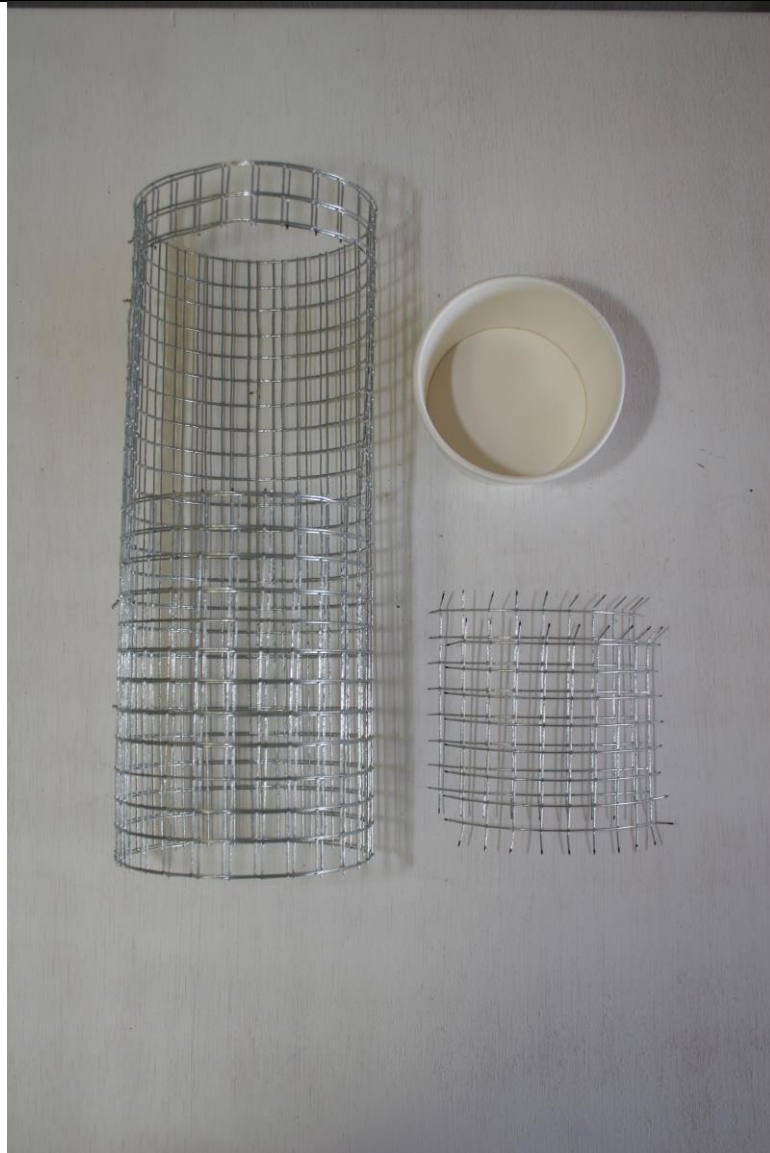
Wrap hardware cloth around PVC sewer and drain fitting. Two layers are suggested for added stability. (2a)



Secure cylinder with bailing wire (2a)



Remove posterior cylinder section. Position of opening is determined by position of mouth opening in headskin. Size of opening is determined by size of cups being used. (2b)



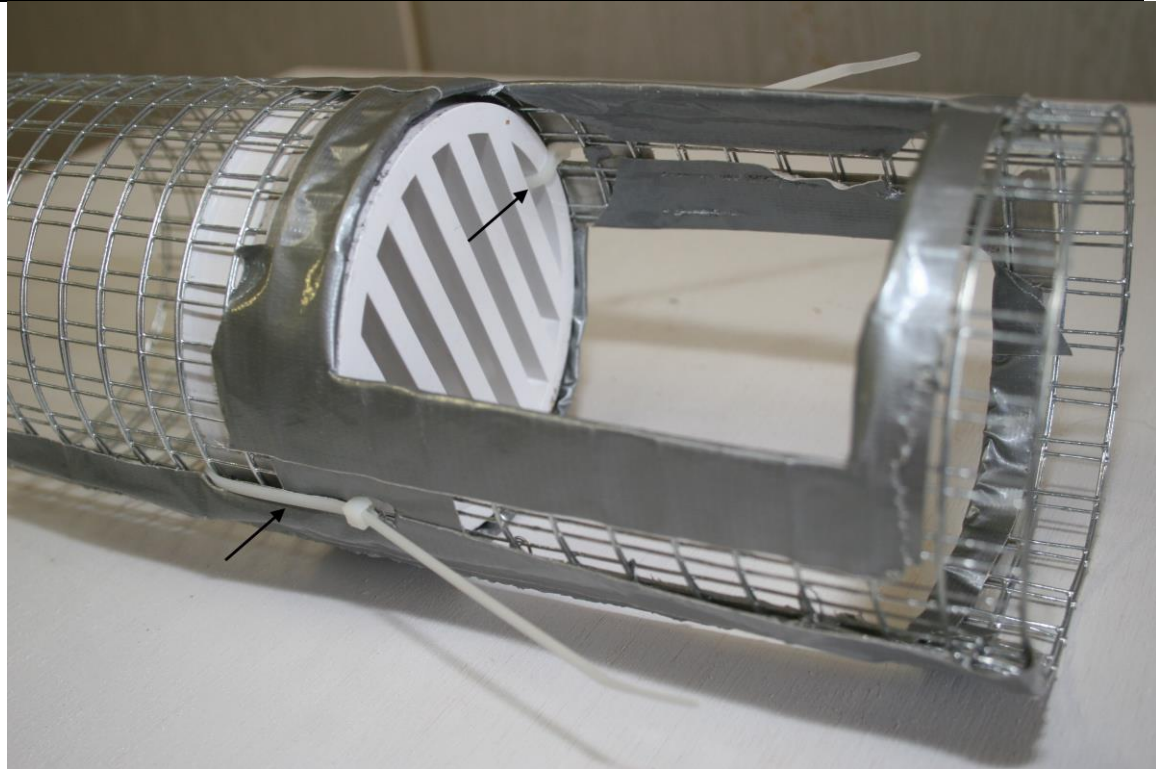
Remove anterior
cylinder section
(2b)



Affix duct tape to cover sharp edges
(2b)



Position sewer and drain fitting, aligning with the base of the tongue, such that it can serve as a platform on which the PTA cup is placed. Secure with zip ties. (2c)

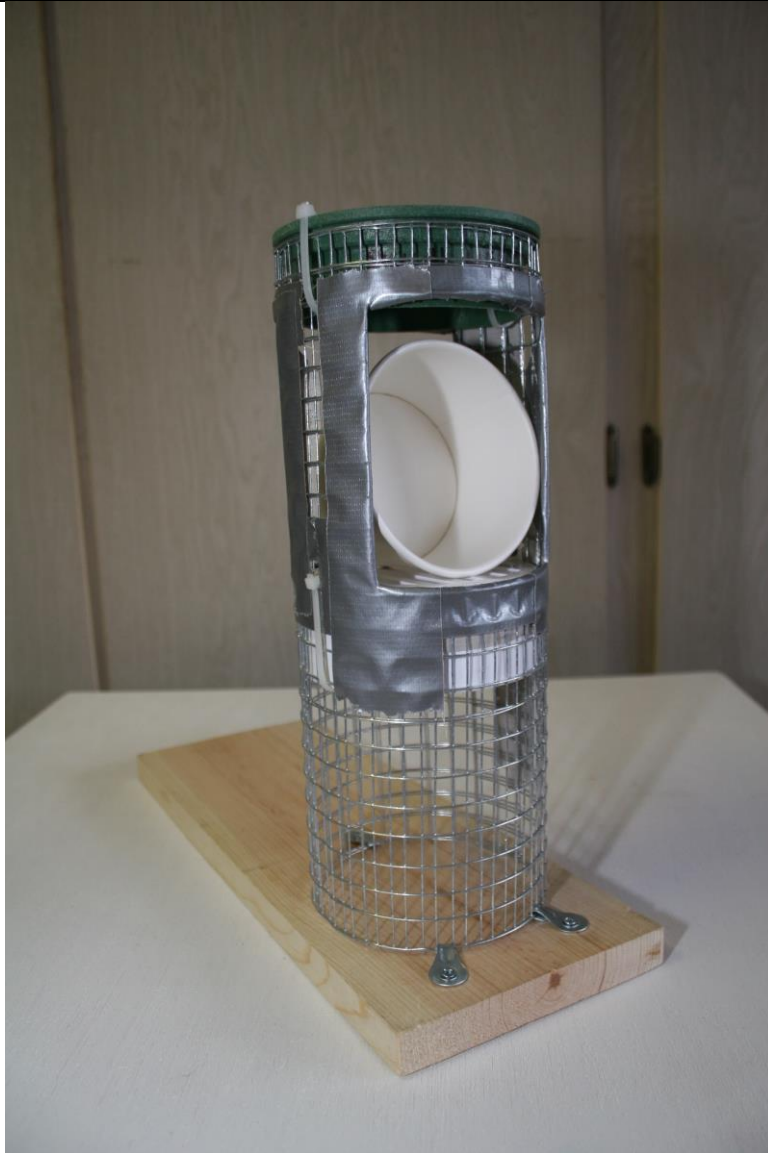


Cap with NDS drain grate and secure with zip ties (2c)

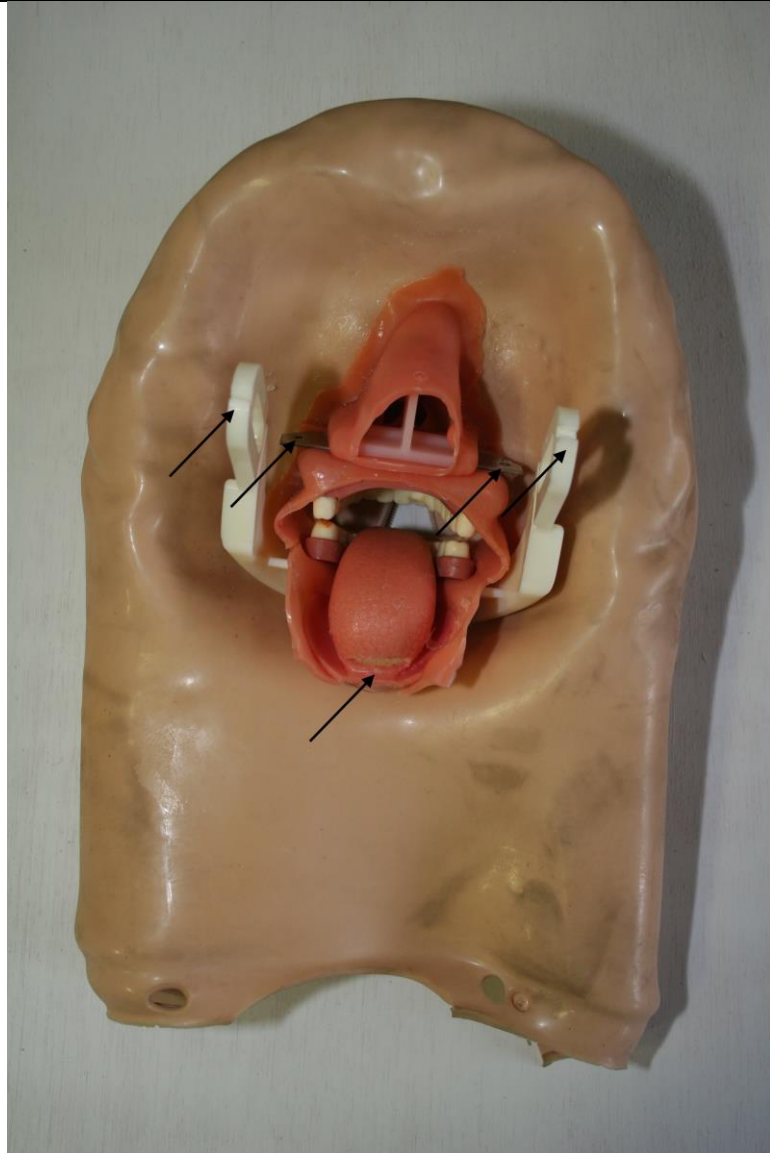


Affix to plywood
with utility hook
hangers and screws
or similar (2d)

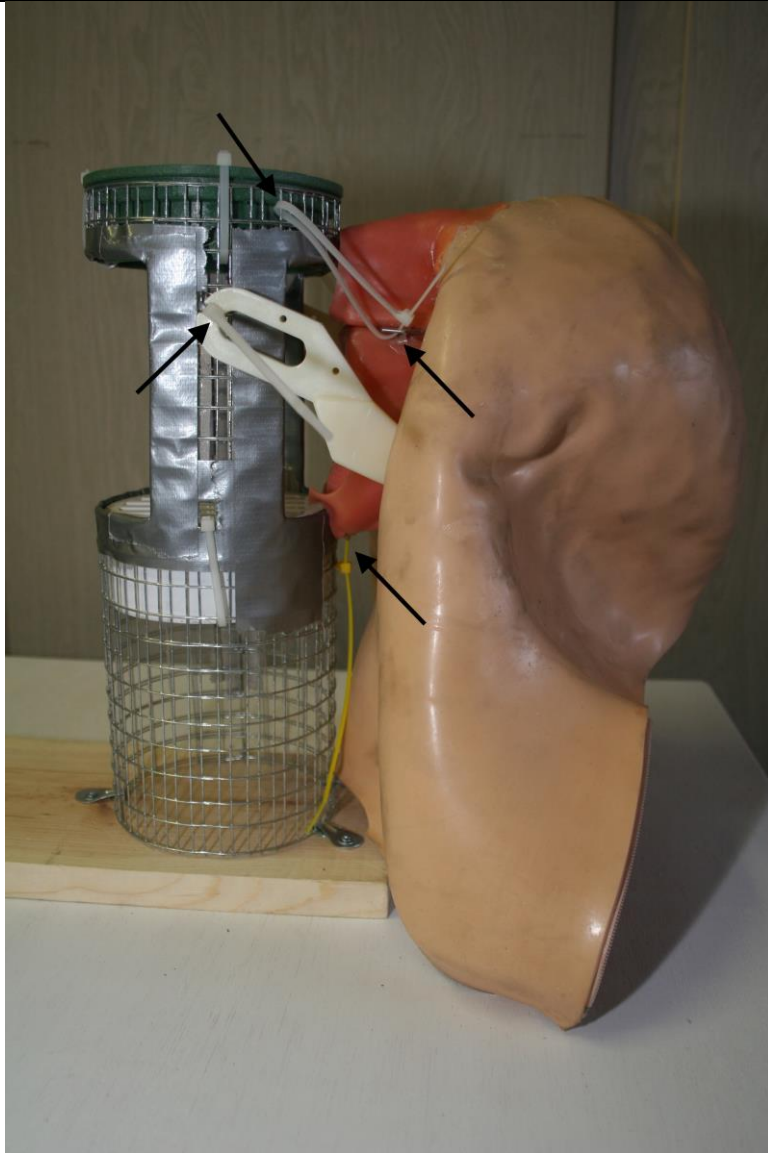




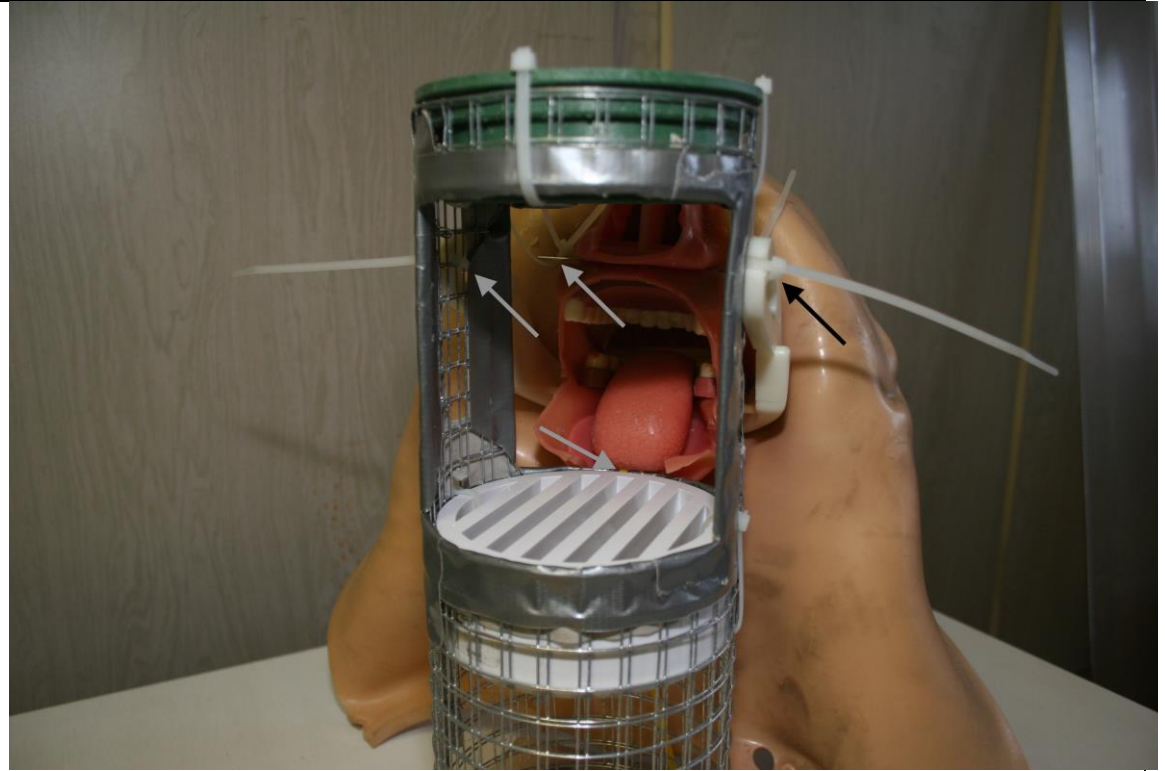
Secure cylinder to
headskin with zip
ties (2d)



Internal view with arrows marking zip tie locations



Lateral View, Right Side



Posterior View

Fill with foam or towels to provide structure to head (2d)



Materials for peritonsillar abscess cups (see Table 1)



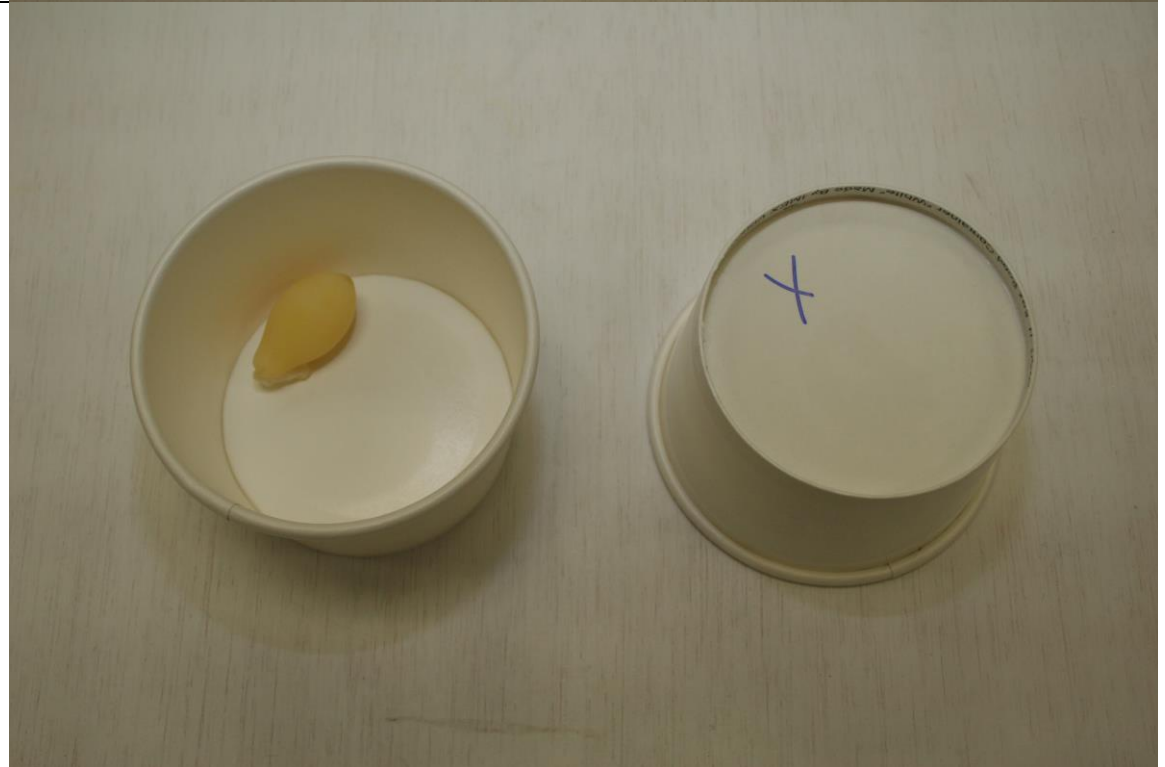
Combine water and barrier lotion to desired viscosity. Ensure material can be aspirated through an 18g spinal needle. (3a)



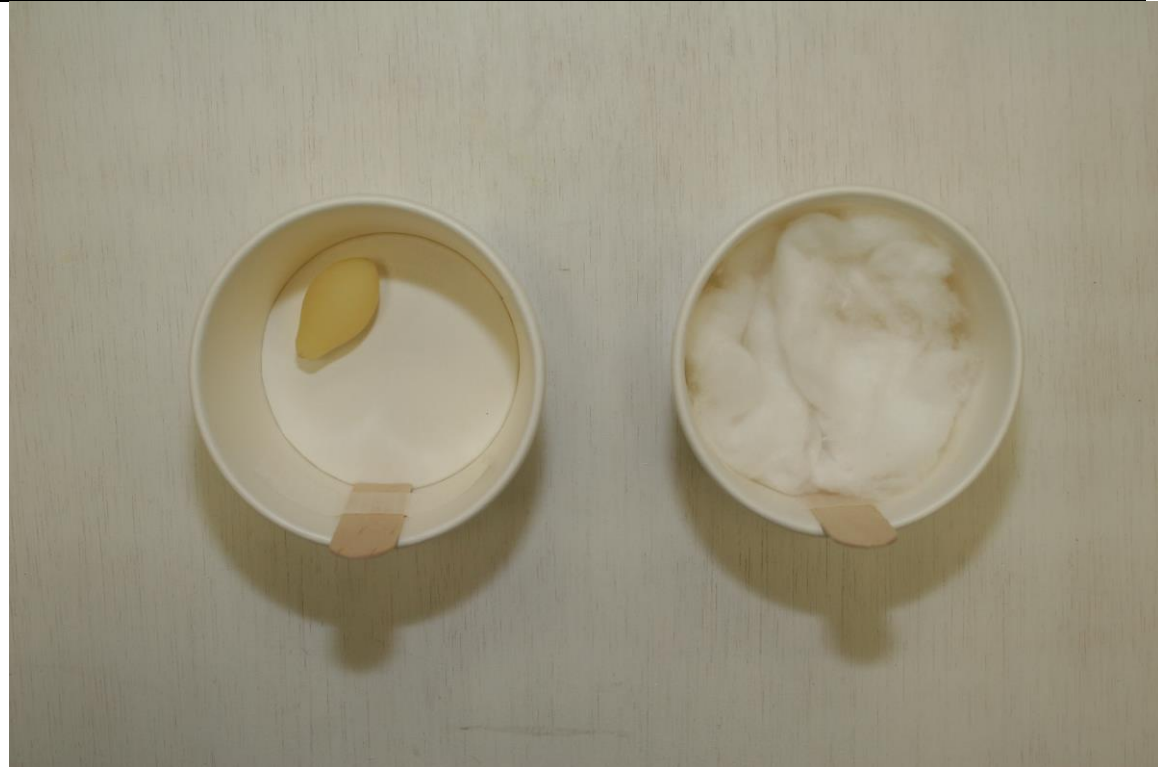
Inject approximately 7ml into small water balloon and tie closed (3a)



Glue balloon to bottom of cup with cyanoacrylate glue and mark location on cup underside (3b)



Tape half of a craft stick to inside of cup inferior to abscess to ensure proper orientation in head and cover with cotton (3c)



Prepare ballistic gelatin. Combine 100g of gelatin powder per 800ml of water in a glass beaker and stir. Place beaker into heated water bath of at least 75C and allow to sit for a minimum of ten minutes while stirring occasionally.

Add approximately 1 drop each of red and yellow food coloring per 800ml to achieve desired flesh color. (3d)





Using heat protective gloves or oven mitts pour gelatin into cup to cover both the balloon and cotton.

Refrigerate for a minimum of two hours to fully set.
(3d)



Paint asymmetric
soft palate and
deviated uvula,
corresponding to
location of balloon
(3e)



Complete task
trainer head with
PTA cup in place
(4)



Oblique Posterior View



Posterior View