

Project definition: Design and make a silicone face to cover the head of a model used for intubation and feeling the carotid pulse

Problem definition: Peeling back the silicone face of models repeatedly damages the face; thus, the aim is to create a flexible and resilient face

Existing solutions:

Intubation models come with peel-back faces. Some are continuous with the entire model and some include the face and the neck.

Figure 1



Main customer demands:

Create a silicone face – a facial skin layer (only the skin layer is needed – no other structures). This should fit the intubation model we have in the laboratory

1. This may be male or female – even a mould of your own face
2. The face should be strong, not-tear, and be suitable for repeated use (peeling on and off) without damage

Bibliography:

1. Intubation model <https://laerdal.com/gb/products/skills-proficiency/airway-management-trainers/laerdal-airway-management-trainer/> How do you frame this in mechanics?