

This is the P-FIB (PVC Frame Intubation Box) The PFIB costs less than \$15 dollars a unit and can be built with mostly standard supplies. I developed the PFIB in collaboration with DR Loren Rauch, DR Mike Gertz and a COVID 19 Task Force of doctors and aerospace engineers in California. Loren Rauch is an Emergency Medicine doctor at Antelope Valley Hospital, Lancaster, CA where the first prototype is already in service. Each floor of the Antelope Valley Hospital will have a P-FIB box wrapped for Code Blue responses: tuck the patient's head inside, poke attendants arms and suction canula through shrink wrap, continue resuscitation with a rapid reduction in aerosols, protecting staff, speeding Code response. Once the patient is stabilized the PFIB can be quickly sanitized by disposing of the shrink wrap and disinfecting all the PVC parts. There is no glue used in the construction so the unit easily breaks down for cleaning. The first 2 of the PFIB units are currently in the Antelope Valley Hospital ER to use as needed for respiratory and airway procedures.

The PFIB can be produced without the use of laser cutters, CNC routers, expensive acrylic or any moving mechanical parts. All the components are easily sourced from hardware stores and can be assembled by people with very little technical skill. Please push this drawing out to anyone in the medical profession who is in need. We have managed to 'Flatten the curve' in California but in other places where the virus is surging and the medical resources are being challenged the PFIB can be a cost effective easily accessible solution to containing the virus during the resuscitation and intubation of patients. We are currently gearing up to supply Highland Hospital in Oakland and other Bay Area hospitals. Please reach out if you have questions.