

Webinar on

## Research and Development of PPEs

Bodysuits for patients to prevent spread of infection

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# Team

## Principal Investigator



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# Technology Showcase

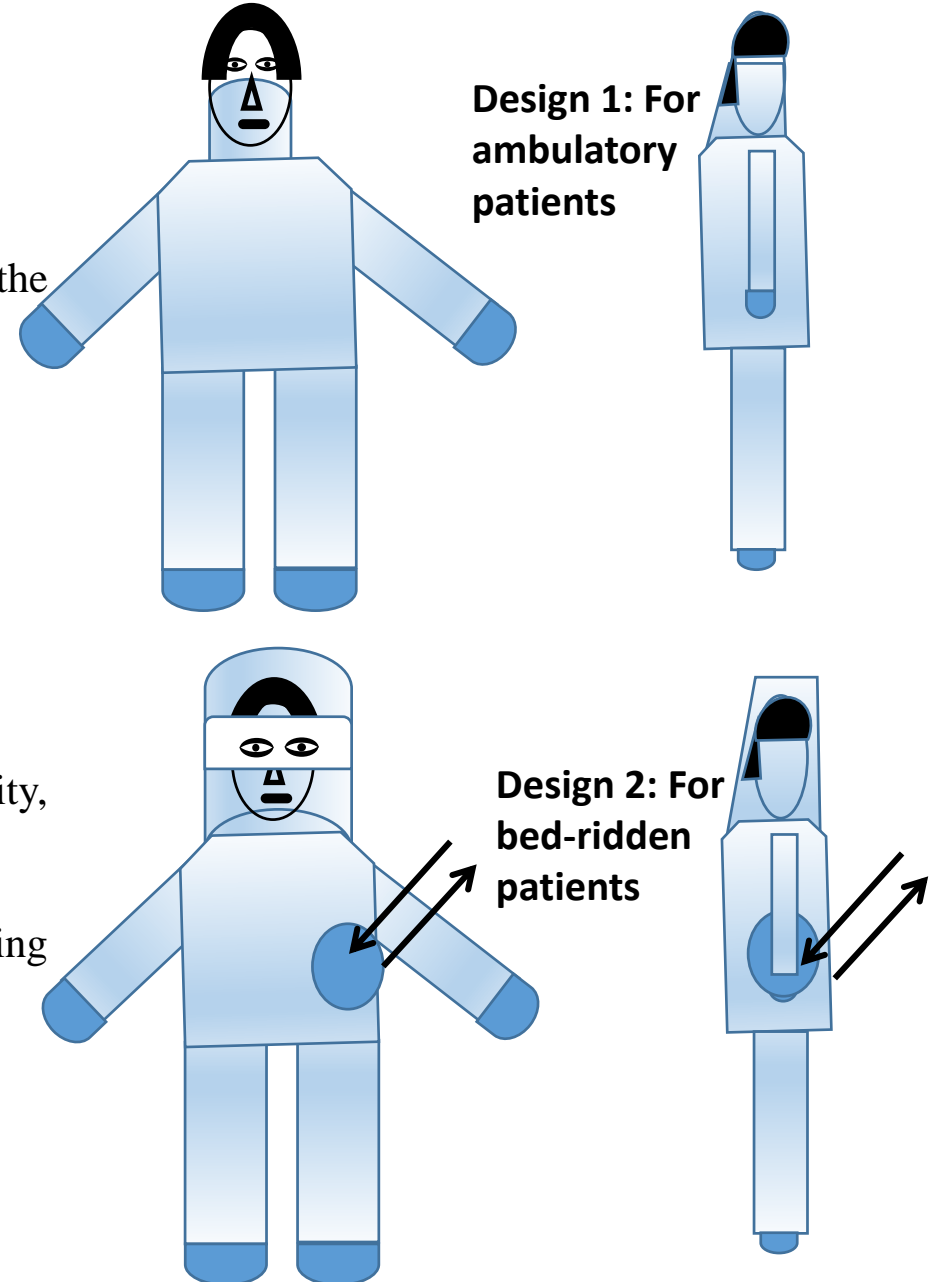
## Problem statement

- Huge scarcity of the PPEs for Healthcare workers. No extra precautions available if PPE compromised in anyway

## Possible solution

- COVID-19 patients dressed in the body suits that can prevent the spread of the virus
- Major source: through cough, sneeze and nasal secretions
- Any suit that can cover the patients:
  - Will require proper air exchange system
  - Should be comfortable and be able to contain the expectoration
  - Coated with antiviral agent
- Polypropylene fabric: non woven textile. Moisture transferability, durability, comfortable, breathable and medium heat retention abilities.
- >70 GSM non-woven polypropylene material perfectly suited for making personal protective gowns or body suits
- Additionally: Medical absorbent pads
- Antiviral coating: Using indigenous anti-viral agents and minerals

Bodysuit coated with indigenous antiviral agent



# Action Plan

Flow chart depicting the plan for designing of antiviral coated body suits with require materials and facilities

