UNIVERSITY OF LEEDS

CARE-Mayku Mask

The CARE-Mayku Mask is a vacuum formed reusable protective mask with a removable, disposable filter, designed for use in the COVID-19 pandemic.

PROJECT CARE

COVID Africa Rapid Entrepreneurs

Supporting African Engineering entrepreneurs to make and supply PPE that is effectively used in hospitals and clinics in sub-Saharan Africa.

Category

COVID-19 Resources

Non-Software (HEBCI)

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The CARE-Mayku Mask has been designed as an emergency response for use during the COVID-19 pandemic. It is a vacuum formed, reusable protective mask consisting of (a) an impermeable flexible body vacuum formed from recyclable PTEG, which can be tightly fitted to the user's face, and (b) a removable, disposable filter segment through which all the inhaled and exhaled breath flows when the mask is properly fitted to the user's face. The CARE-Mayku Mask is the result of extensive design and testing to the standards for filtration and breathability set out in in BS EN 14683 for medical face masks and BS EN 149 and BS EN 1827 for respirators.

Once local hospital management and clinicians have checked the quality of their supply of CARE-Mayku Masks, the masks may, at clinician's discretion, be used where WHO guidelines require the use of an EN 14683-compatible disposable Medical Face Mask, i.e. where aerosol generating procedures (AGPs) are not being performed.

All information and support documents required to enable manufacture and distribution of CARE-Mayku Masks are provided including g-codes for 3D-printing the moulds and cutting tools, manufacturer, user and hospital instructions, and standards, testing and use.

Protocols for the mask can also be accessed through our mobile web app at projectcare.gitlab.io

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