A low-cost respiratory support device for newborns and children

Preterm birth complications, including respiratory distress, are the leading cause of death for children under 5 worldwide. Estimates show that the widespread use of CPAP with oxygen in low-resource settings could reduce mortality due to respiratory distress by up to 70%

Need

Solution

Develop a bCPAP device specifically for neonates in low-resource settings

• Low-cost: costs a fraction of the price of other bCPAPs
• Easy to use: hospital staff can be trained to use in a day
• Durable: designed to run continuously for years
• Portable: small design allows for easy shipment

**Commercialization**

Hadleigh Health Technologies has secured ISO 13485 registration, and the Pumani bCPAP has received the CE Mark. The Pumani bCPAP is now available for sale worldwide.

For more information, go to: www.Pumani.com

or contact Hadleigh Health Technologies at: info@hadleighhealthtechnologies.com +1 (415) 454-3005

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**Scale-Up**

The Pumani bCPAP is currently being distributed to 27 district and central hospitals throughout Malawi.

We’re also working with partners in South Africa, Tanzania, Zambia, Liberia, Haiti, Pakistan, and Indonesia to distribute and evaluate the Pumani bCPAP.

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**Clinical Evaluation**

A clinical evaluation of the Pumani bCPAP was conducted in Blantyre, Malawi in partnership with:

- Rice 360°: Institute for Global Health Technologies
- Texas Children’s Hospital
- Queen Elizabeth Central Hospital & the Malawi College of Medicine
- Malawi Ministry of Health

Results showed that patients treated with the Pumani bCPAP had a 27% improvement in survival, as compared to patients treated with conventional oxygen therapy[^3].

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