

# Medical equipment for use in resource limited settings The clinician's view

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# What are we looking for?

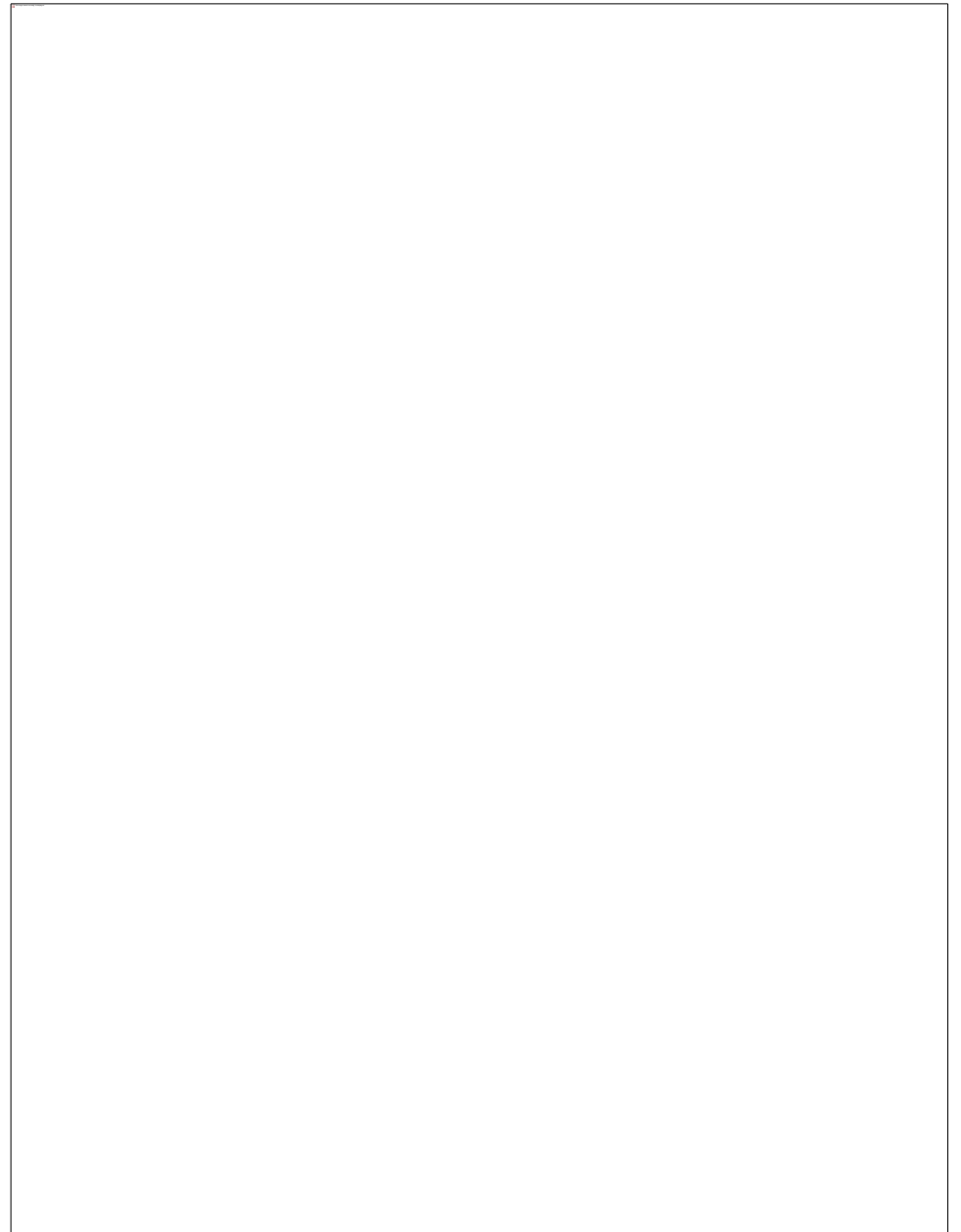
- Easy to use
- Safe
- Robust
- Reliable
- Repairable
- Inexpensive
- Portable
- Cleanable
- Available parts
- Comprehensible manual
- Easy/Quick assembly
- Easy to store away

# Easy to use

- Clearly marked on/off switches
- Clearly marked where to attach which tubes etc
- Large writing or symbols
- Directions on the lid
- Not too many connections

# **Inexpensive !**

Using the principles of high tech equipment  
and applying them to low cost robust  
systems



**Blantyre Hot Cot**

# Pumani CPAP Continuous Positive Airways Pressure



# Scale Up in Malawi

## At Each Hospital

6 Months Baseline  
Mortality Data Collection



Installation and Training



9 Months  
Implementation  
Mortality Data Collection







## PHOTOTHERAPY LIGHTS FOR JAUNDICED BABIES





# Enablers

- Start up funds
- International collaboration
- Local collaboration between clinicians & engineers
- Entering high profile competitions
- Having a clinical forum to showcase the products

# Challenges

- Need to import almost all parts for manufacture  
    —————→ import levies, transport costs
- Our own institutional red tape in accessing funds
- Finding a local manufacturer
- Users want a low cost/high quality product  
But manufacturer wants/needs to make a good profit

**I am your end user  
I am small, easily hurt and infected:  
I need your help**



**Thank you**