

Ann will also approach Ferranti and Motor Design Wrexham on Monday morning to explore plan B on motor and fan if needed.

Regards,

NR

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From: James Davies <jdavies@industrywales.com>

Sent: Sunday, March 22, 2020 9:27:01 AM

To: Davis, Dickie (ESNR - B&R - Thematic & Foundation) <Dickie.Davis@gov.wales>;

Name Redacted

Name Redacted

Cc: Hamer, Duncan ESNR-Sectors&Business-Entrepreneurship&Delivery <Duncan.Hamer@gov.wales>

Subject: FW: Rapid Patient Evaluation on Welsh Covid Ventilator (CEPAP)

We may have our new and highest priority other than the masks. Ifan and I received excellent news from Dr Rhys this am on the patient trial in Glangwili

Dear James,

Good news. We had a very successful trial of the device yesterday on a very sick Covid patient in Prince Phillip Hospital Llanelli.

The patient improved significantly on our device. In fact, the patient is still on our device as the staff would not let us take it back!

I believe we have proof of concept but this also supports our strategy in that CEPAP should be the mainstay of treatment for these patients not an ITU ventilator. Covid patients have a complete failure of Oxygenation but unusually have very compliant lungs. I have never seen this pattern before, but CPAP is the ideal tool for improving oxygenation.

This has a number of advantages in that you don't need specialist staff, no ITU ventilators and it reduces contamination in the room as it filters the air as it works (it has a 3x viral filters 99.998% effective, better than any face mask). This is quite important as the staff currently don't have PPE.

Yours, Rhys Thomas

We have asked him to confirm via his route in SBDH to NHS Wales etc I presume WG CMO needs to sign it off or approve it. He has told us that it is known and has a level of approval already.

But min. we are making for his hospital at min. and perhaps SBHB until NHS Wales give green light etc. (Ifan, your advice appreciated(I am gently working on Maurice to open the design a bit more so we can support him (we need to find a reward system fast for when we take this design to make it in many places...) and will set up a supply route for them and others.