

MEDICAL EQUIPMENT REQUEST
MEDICAL EQUIPMENT OR CONSUMABLES

Division	Medicine	Department	Respiratory / Sleep Unit
Your name	Ruth Kingshott	Tel:	07599913138
Lead Clinician	Heather Elphick	Tel:	271 7000 bleep 235

Product Name and Description	1 x Pulse Oximeter Radical Masimo Radical 7 touch screen monitor with docking station and 10ft red LNCS cable for SpO2. 
	1 x Reusable Masimo SpO2 paediatric probe: Masimo LNCS YI multisite reusable sensor 
	Single Use Masimo SpO2 infant probes Masimo LNCS single use infant sensors 

1 x Pulse Oximeter Viamed

Viamed VM-2160 with SMART sat, battery powered

**1 x Reusable Viamed SpO2 paediatric probe:**

Paediatric Silicone Wrap P/N:0014592

**Single Use Viamed SpO2 infant probes**

Infant disposable plaster SpO2 sensor P/N:0014995

**1 x Battery Powered Data Logger**

Battery powered microcontroller unit (see Appendix 1)

10 x SD Cards

10 x MB SD cards to record anonymous research data

Quantity	2 x oximeters, 2 x reusable probes, 2 x boxes of disposable infant sensors, 1 x data logger, 10 x SD cards	Suggested Supplier	Viamed are supplying the Masimo and the Viamed oximeters, sensors and data logger for the research study so that the algorithms can be set up identically and they know the batch numbers of the sensors
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ID Number _____					
				used.	
Purchase cost per item – Masimo oximeter	Exc. VAT	No cost – on loan	Inc. VAT	£	
Purchase cost per item – Masimo SpO2 probe & disposables	Exc. VAT	No cost – on loan	Inc. VAT	£	
Purchase cost per item – Viamed oximeter	Exc. VAT	No cost – on loan	Inc. VAT	£	
Purchase cost per item – Viamed SpO2 probe & disposables	Exc. VAT	No cost – on loan	Inc. VAT	£	
Purchase cost per item – Battery powered data logger (from Viamed)	Exc. VAT	No cost – on loan	Inc. VAT	£	
Total purchase cost (cost per item x quantity)	Exc. VAT	£0	Inc. VAT	£0	

Medical Equipment Only	☒	New / Additional / Replacement	Additional
Medical Equipment With Consumables	☐	Trial (Prior to purchase) / Loan	Trial for research rather than prior to purchase
Consumables Only	☐	Date required MM/YY	ASAP
Reason for Trial / Loan	☐ Intent to purchase ☐ Sets/consumables deal ☒ Clinical trial/research ☐ Specific procedure	FOR REPLACEMENT ONLY Original date/s of purchase or age of equipment to be replaced. Use separate sheet of paper if necessary.	n/a
Other:	☒ Loan research kit		

Reason for purchase (in brief):	Support/parts withdrawn – obsolete	☐
Prof Heather Elphick has been awarded an SBRI (Small Business Research Initiative) phase 1 grant along with Viamed to design a wearable paediatric oximetry probe with paediatric specific algorithms and the ability to cope with movement artefact.	Uneconomical to repair	☐
	Equipment lost or not returned to Dept.	☐
	Cost saving alternative	☐
	Technological advancement	☐
	Reduction in procedure/recovery time	☐
	Increase in service activity	☐
	New service/development	☐

The aim of this phase 1 grant is to look at existing clinical pathways and existing gold standard oximetry (Masimo) that is used within the sleep service and collect paediatric algorithm data in our respiratory population. For this small evaluation project the following is being done: Respiratory and sleep patients undergoing Masimo oximetry for clinical purposes in the wards, home and sleep unit will be approached and consented to allow the research team to also connect an additional clinical oximeter (Viamed) to the patient (this oximeter is new to the trust but used clinically in other hospitals). Both oximeters will be connected to a battery operated data logger via their isolated USB ports and all kit complies with electrical safety and patient isolation requirements. An SD card will be present in the data logger to retrieve a time stamp and the anonymous clinical data from both oximeters (Appendix 1). Ethics approval is currently being applied for (submission date Jan 15th for a panel meeting in Rotherham on 26th Jan). The anonymous data of SpO2 values and pulse rates, along with alarm status and recovery periods will be passed onto Viamed on the SD card. In addition a data sheet with the age at test, gender, ethnicity, site and type of probe are being anonymously shared (Appendix 2). Viamed have worked in the field of oximetry for 40 years. The clinical information will provide Viamed with paediatric data to enhance current algorithms and obtain approval and certification from the British Standards Institution (BSI) approved neonatal and adult algorithms.	Meets current legislation/guidelines	☐
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	Yes	No	If yes, please complete and attached the relevant form
Is this equipment or consumables standard within your area?	☒	☒	Masimo is standard, Viamed is new to SCH Data logger is new to SCH
Is this equipment or consumables standard within the Trust?	☒	☒	Masimo is standard Viamed is new to SCH Data logger is new to SCH
Is this equipment new to the Trust?	☒	☐	Risk Assessment for Viamed oximeter & data logger attached
Are consumables required?	☒	☐	Consumables Information Consumables will be provided by company so N/A
Will a trial be undertaken prior to purchase?	☐	☒	Medical Equipment Evaluation Not purchasing equipment, just using in research trial
Is this a new procedure?	☐	☒	Introduction of New Interventional Procedures Checklist
Is this a variation on a current procedure?	☐	☒	
Is training required for the safe use and decontamination of	☐	☒	Training for Use and

			ID Number
the equipment?			Decontamination
Does this equipment require any IT hardware?	☐	☒	Already have Masimo download software.
Does this equipment require a PAC's connection?	☐	☒	Contact PACS x 60813
Does the equipment capture patient identifiable data?	☐	☒	No data is anonymous and only labelled at download (& only the clinical Masimo data will be downloaded and then named at SCH as per usual clinical protocol).
Is this a new service or a service development?	☐	☒	Mini/Full Business Case
Are you requesting for funding greater than £100,000?	☐	☒	Capital Project Form
Are you applying to the Charity Ward/Departmental Funds?	☐	☒	Ward/Dept. Charity Fund
Are you applying to The Children's Hospital Charity for funds?	☐	☒	Special Projects Grant
Are your colleagues in full agreement with this request?	☒	☐	

All forms can be located on the Intranet or contact Sian Sumner for a copy to be e-mailed.

CASE OF NEED

Description of use (what does the equipment do?)	Measure pulse oximetry by measuring SpO2 oxygen saturation values and pulse rate values.
Does this request have to be compatible with other medical equipment (incl. already owned, intending to purchase or trial)?	No
Which Departments and/or Specialities will use this equipment?	Paediatric Respiratory Team
Which other areas (if any) will the purchase of this equipment affect?	No other areas
Have you liaised with the other relevant departments/committees to get their approval/feedback regarding this purchase? Particularly for Radiology equipment or Point of Care Testing. Please provide details.	N/A
What are the benefits to patients of this purchase? How many patients will benefit and for how long?	The benefits are for research rather than purchase. The research benefits will be to inform the creation of paediatric algorithms to better calculate SpO2 and pulse values in children undergoing routine oximetry.
How will this purchase benefit the Trust (incl. efficiency savings)?	No purchase. Eventually, the research will provide more accurate SpO2 recordings and better clinical interpretation of overnight SpO2

	values.
How will this purchase impact on expenditure and income to the Trust?	None as no purchase.
What will be the impact of not purchasing this equipment to your department/service, patients and the Trust?	None as no purchase. Research will not be undertaken.
If you feel this request is eligible for Charity funding, what does the equipment do; that is above and beyond the basic NHS level of care?	N/A

APPROVAL

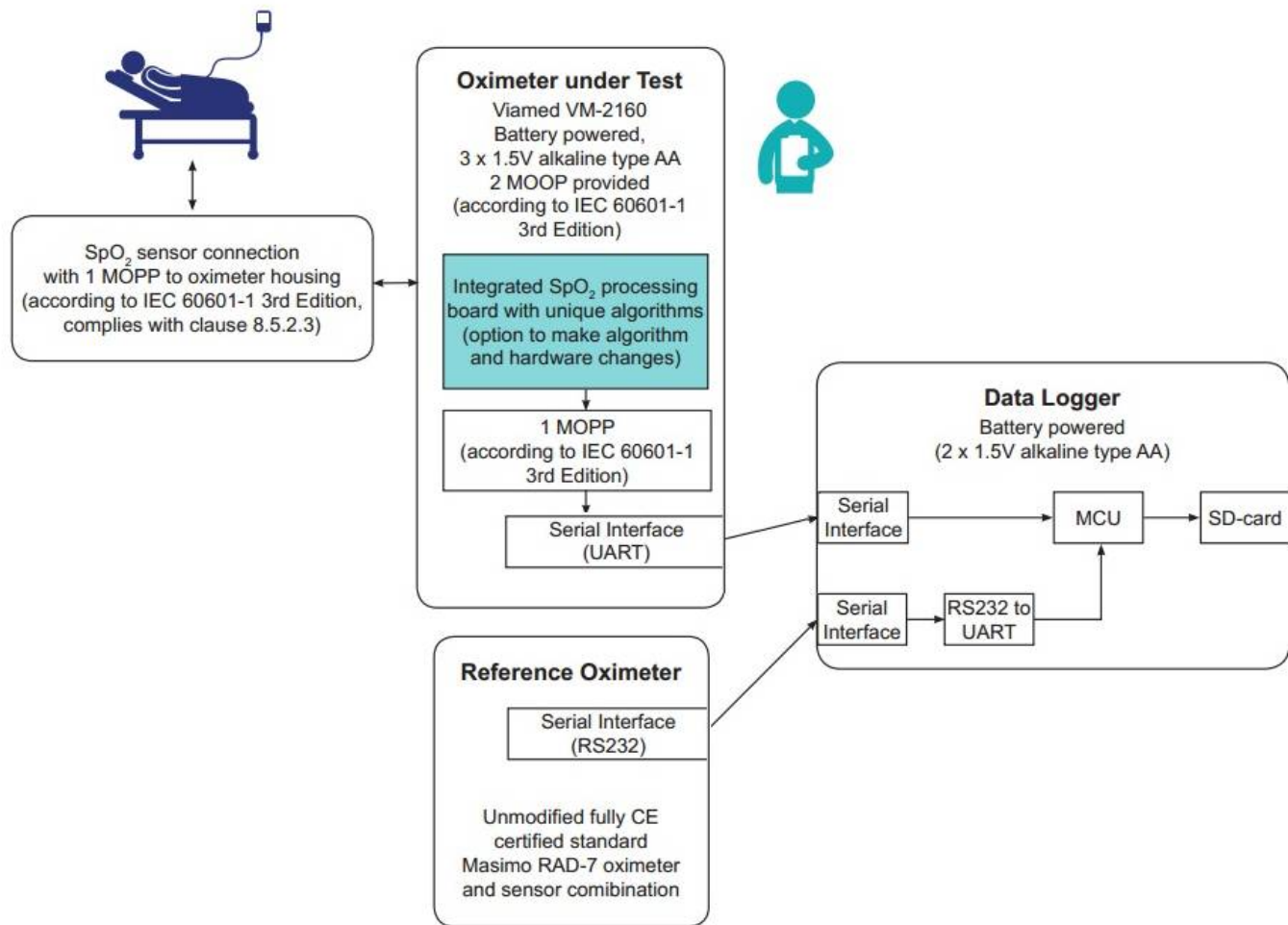
Authorities	Signature	Date
Ward/Dept. Head/Manager	Heather Elphick 	03/01/2017
Associate Director		
*Clinical Director		
Relevant Dept./Committee		
MEMG		

Funding Source	
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****If the procedure is new or a variation on a current procedure, the Clinical Director must approve this request.***

Please send the completed form to the Medical Equipment Officer, E52 Orange Wing

APPENDIX 1: DIAGRAM OF EQUIPMENT



Icons designed by Freepik

APPENDIX 2: DATA COLLECTION FORM

ID Number _____

Sheffield Children's 
NHS Foundation Trust

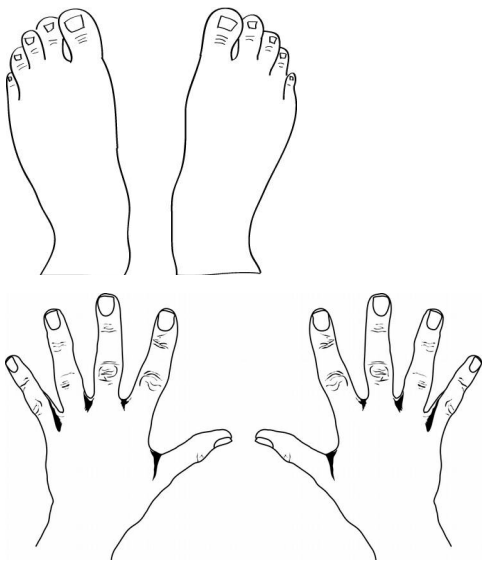
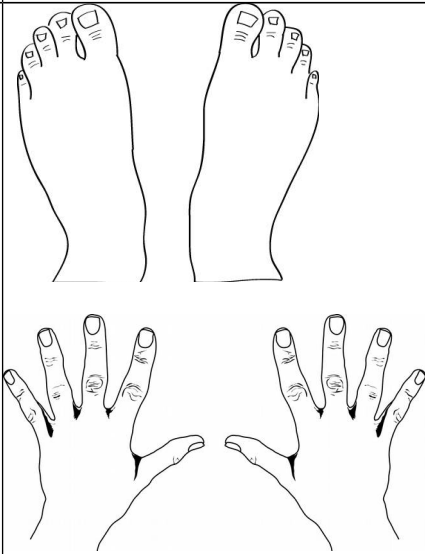
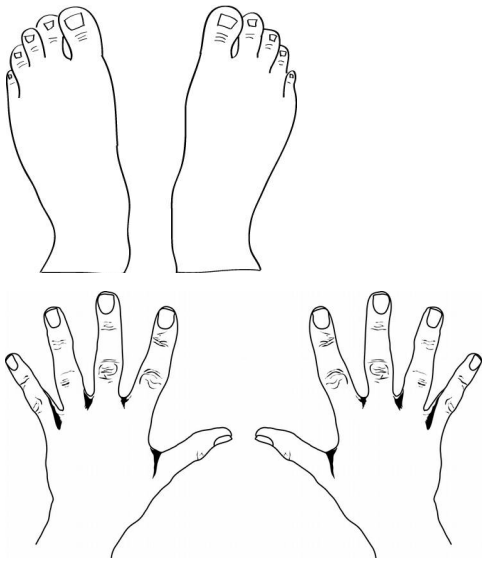
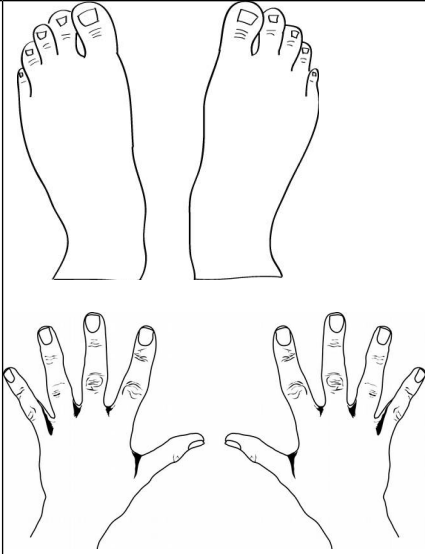
Study ID: _____

Oximetry Data Collection Form – Information to be shared with Viamed

Variable	Value
Date of oximetry	
Age (2dp) at time of oximetry (yrs)	
Height	
Weight	
Gender	
Reason for oximetry	
Co-morbidities	
Ethnicity	
Is this their first oximetry?	

Study ID: _____

Oximetry Data Collection Form – Information to be shared with Viamed

Variable	Viamed oximeter	Masimo oximeter
Sensor type and model number		
Algorithm used		
Monitoring time started		
Site of sensor (please circle sensor site on diagram)		
Time of sensor repositioning (if appropriate)		
New site of sensor (please circle sensor site on diagram)		
Time monitoring stopped		