

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

LNCS Inf
Infant SpO2 Adhesive Sensor, 18 in
Single Patient Use, Replaceable Tape Available
3-20 kg

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



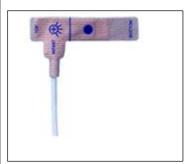
1 x Reusable Viamed SpO2 paediatric finger probe:

Paediatric Silicone sensor P/N:0014751



Single Use Viamed SpO2 infant probes

Infant disposable plaster SpO2 sensor P/N:0014995



ID Number

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	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, 3 x reusable probes, 2 x boxes of disposable infant sensors, 1 x data logger, 10 x SD cards	Suggested	Supplier	Masimo and oximeters, s data logger f study so that can be set u and they know	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 used.		
Purchase cost per ite	m – Masimo oximeter	Exc. VAT	No cost – on loan	Inc. VAT	£		
Purchase cost per ite 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 probes & 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 Equipm	nent Only	New / Additional / Replacement	Additional
Medical Equipment With Consumables		Trial (Prior to purchase) / Loan	Trial for
			research
			rather than
			prior to
			purchase
Consumables C	Only	Date required MM/YY	ASAP
	Intent to purchase	FOR REPLACEMENT ONLY	n/a
Reason for	Sets/consumables deal	Original date/s of purchase or age	
Trial / Loan Clinical trial/research		of equipment to be replaced. Use	
	Specific procedure	separate sheet of paper if	
Other:	Loan research kit	necessary.	

Reason for purchase (in brief):	Support/parts withdrawn – obsolete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

ID Number The aim of this phase 1 grant is to look at existing Meets current legislation/guidelines 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

	Yes	No	If yes, please complete and attached the relevant form
Is this equipment or consumables standard within your area?	\boxtimes	\boxtimes	Masimo is standard, Viamed is new to SCH Data logger is new to SCH
Is this equipment or consumables standard within the Trust?		\boxtimes	Masimo is standard Viamed is new to SCH Data logger is new to SCH
Is this equipment new to the Trust?	\boxtimes		Risk Assessment for Viamed oximeter & data logger attached
Are consumables required?	\boxtimes		Consumables Information Consumables will be provided by company so N/A
Will a trial be undertaken prior to purchase?		\boxtimes	Medical Equipment Evaluation Not purchasing equipment, just using in research trial
Is this a new procedure?			Introduction of New
Is this a variation on a current procedure? Minor Major			Interventional Procedures Checklist

British Standards Institution (BSI) who have already approved Viamed's neonatal and adult

algorithms.

ID Number

			12 (14)(15)
Is training required for the safe use and decontamination of the equipment?			Training for Use and Decontamination
Does this equipment require any IT hardware?		\boxtimes	Already have Masimo download software.
	 \perp		download software.
Does this equipment require a PAC's connection?		\boxtimes	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?		\boxtimes	Mini/Full Business Case
Are you requesting for funding greater than £100,000?		\boxtimes	Capital Project Form
Are you applying to the Charity Ward/Departmental Funds?		\boxtimes	Ward/Dept. Charity Fund
Are you applying to The Children's Hospital Charity for funds?		X	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	None as no purchase. Research will not be undertaken.

ID Number

Trust?	
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

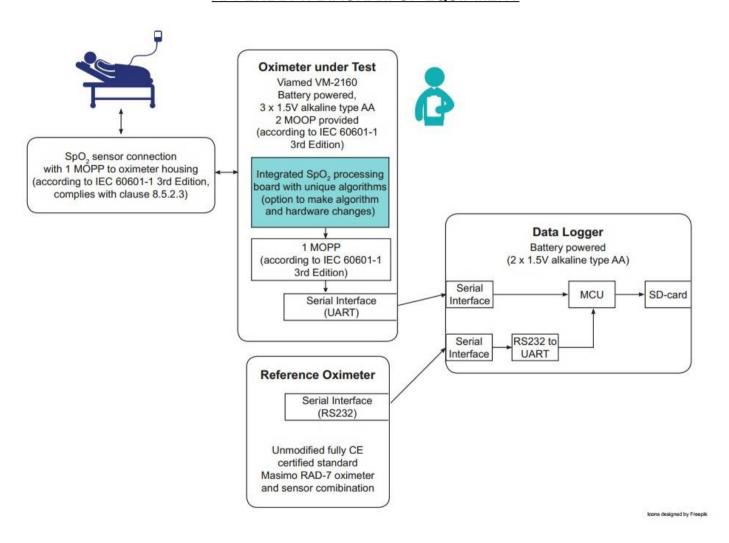
Authorities	Signature	Date		
Ward/Dept. Head/Manager	Heather Elphick	03/01/2017		
	ucid			
Associate Director				
*Clinical Director				
Relevant Dept./Committee				
MEMG				

Funding Source	

*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



APPENDIX 2: DATA COLLECTION FORM

ID Number	
Sheffield Children's	NHS
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)	7	
New site of sensor (please circle sensor site on diagram)		
Time monitoring stopped		