

Vitacam[®]

Scalable, affordable and accurate vital signs
measurement from a camera

Moyeen Ahmad (CEO) | NE Device SW Ltd.

VITACAM MEASURES VITALS USING COMPUTER VISION

Class IIa medical device

Vitacam®



Digital video as input | Cloud processing

- ✓ Takes digital video as input from a smartphone or camera
 - Not tied to specific devices – more affordable than dedicated devices
 - Fast installation
- ✓ Captures Respiratory Rate using computer vision within 3 breaths per minute
 - analyses chest movements to get the respiratory rate
- ✓ Captures Heart Rate pulse within 5 beats per minute
 - analyses changes in the subject's face colouring to obtain the heart rate







Care & Home



Triage

TARGETED PATHWAYS

Vitacam[®]

Formalising as a supplier:

Triggered by NHSX remote monitoring tender



- Registering as a supplier
 - Applying to Spark
- ⇒ Financial/legal docs

Assessment:

- Online questionnaire
 - Submitting more evidence
- ⇒ NHS drivers (interop, CE, data security)

Tendering:

- Procurement process
 - Submitting more evidence
- ⇒ Learning more detailed reqs

First explorations:

Kent Surrey Sussex
Academic Health Science
Network



- F2F networking/DIT visit
 - Market Insight Briefing
- ⇒ NHS value proposition

UK-specific reqs:



- Self-assessment
 - Liability insurances
- ⇒ Min compliance

Crown
Commercial
Service
Supplier

Appointment to Spark

- Direct route to UK public health procurement

Pilot/Studies:



Mar '20 Apr '20 May '20 Jun '20 Jul '20 Aug '20 Sep '20 Oct '20 Nov '20 Dec '21 Jan '21 Feb '21 Mar '21

UK TIMELINE

Does not include discussions with academic institutions and NHS contacts

Value proposition is strengthened by thinking about NHS

Diverse and sophisticated buyers and clinical users: prefer to work directly than thru resellers

Diverse patient population

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UK evidence => published results of UK clinical investigations are highly regarded

Support available (DIT, AHSN, SEHTA, etc)!

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Value proposition:

- What's the benefit? For who?
- Who pays? Why?

⇒ Evidence needed (clinical trials, health economic impact)

Regulatory compliance:

- CE or UKCA
- DCB0129 or DCB0160 (if applicable)
- MHRA registration

⇒ DTAC (in future)

Interoperability:

- FHIR
- SNOMED-CT

⇒ **Capability** to support interoperability (check NHS Digital, INTEROPEN,...)

Data protection:

- NHS entity must be the controller
- Data Protection Impact Assessment

⇒ Showstopper

UK roles:

- UK Responsible Person
- Clinical Safety Officer

⇒ Can be outsourced

UK experience:

- Helps with credibility
- Familiarity with regulations as minimum

⇒ **Networking** possible even with COVID

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