Dear colleagues,

Welcome to the NHSScotland Shared Services Clinical Engineering Programme update. I am delighted to have been appointed the Subject Matter Expert for the Clinical Engineering Programme and provide you with this programme update.

The Programme has been developing quickly with three projects well underway. The Programme Team has been engaged in planning activity with key stakeholders (see planning meeting report) for the three workstreams including the development of project plans, initial data gathering activity and the establishment of Advisory Groups. The inaugural meetings of each of the groups took place throughout July 2017.

Click here to view the Mission Statement for the Clinical Engineering Programme.

Thank you to everyone who has supported the programme thus far. Please share this update with your colleagues and get in touch with the team if you have any thoughts or questions.

Professor David Keating

As the Programme progresses, further updates will be provided. If you would like further information, please email NSS.SharedServicesHealthPortfolio@nhs.net.
Clinical Engineering Programme
The Journey to Safe, Effective, Personalised Care

The Clinical Engineering Programme was launched in December 2016 to consider innovative approaches to healthcare across primary, secondary and community locations and facilitates framework development for safe, effective implementation of new healthcare technology across Scotland. The Clinical Engineering Programme will develop a framework to bring the benefits of technology and innovation to the NHS in Scotland. This framework will deliver on the aspirations of the National Clinical Strategy and Realistic Medicine. It will enable safe, effective, personalised care.

Clinical Engineering is a component part of Medical Physics and has wide-reaching responsibilities including the management of over 100,000 devices. In fact, it has the largest, broadest and deepest reach into clinical services under one national structure.

Working with nominated Clinical Engineering staff from each of the NHS Health Boards, the Clinical Engineering Programme team held a Visioning Workshop on 26 October 2016. The key objectives were to develop a future vision for Clinical Engineering Services and to identify what initiatives stakeholders believed were needed to achieve that aim.

Evaluation from the workshop showed that it was a success, with many attendees providing positive feedback and views that the day, although challenging, was very worthwhile: Please see the Evaluation Paper.

The outputs from the Visioning Workshop helped to inform a Positioning Paper which was approved, and the Clinical Engineering Programme team given a mandate to be more ambitious by Board Chief Executives in December 2016.

The Programme formally launched in April 2017 with the following three Projects:
National Medical Equipment

The National Medical Equipment workstream aims to deliver a Once for Scotland approach to the management of medical equipment.

- **National Medical Equipment Framework Project**

  The project will initially focus on a specific subset of medical equipment, analysing the pathway through the equipment lifecycle to identify areas for best practice, harmonisation, cross boundary collaboration and the benefits of standardisation.

  The project will ensure a safe and cost effective harmonised approach to Medical Equipment Management for Scotland.

  Click here to view the Advisory Group Terms of Reference.

Please email NSS.SharedServicesHealthPortfolio@nhs.net, if you would like a printable poster version of the National Medical Equipment Framework Project Blueprint.
Managed Introduction of New Technologies

The Managed Introduction of New Technologies workstream will provide a robust process for the safe and effective introduction of new technologies into patient care.

- **National 3D Printing Framework Project**

  The first project is ‘The National 3D Printing Framework Project’ aiming to deliver an exemplar that enables a Scotland wide, integrated approach to the use of 3D printing.

Click here to view the Advisory Group [Terms of Reference](#).

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**3D Printing Blueprint**

- ✔ Explore use-cases
- ✔ Properly funded
- ✔ Pool of printers
- ✔ Multiple printer types
- ✔ Economy of scale
- ✔ In-house
- ✔ Single QMS
- ✔ Co-ordinated research collaborations

**From this….**

- 🚫 Knowledge not shared
- 🚫 Single Point of failure
- 🚫 Slow, lower cost printers
- 🚫 Need to buy special models
- 🚫 Lots of outsourcing
- 🚫 Outsourcing is slow
- 🚫 DIY risks and lack of QMS
- 🚫 Limited research potential

Please email [NSS.SharedServicesHealthPortfolio@nhs.net](mailto:NSS.SharedServicesHealthPortfolio@nhs.net), if you would like a printable poster version of the Managed Introduction of New Technologies Project Blueprint.
Health Technology Informatics

The Health Technology Informatics workstream aims to enable data from patient home monitoring devices to be effectively captured and analysed to support clinical decision making across a range of specialties.

- **National Translational Technology Informatics: Type 1 Diabetes Project**

  The National Translational Technology Informatics Project specifically focuses on type 1 diabetes patients aged 13-25. The project aims to deliver an exemplar whereby diabetes patient’s home managed data is transferred instantly from device to a cloud environment. This data is analysed and subsequently fed to the clinician in the form of a dashboard, which will provide notifications and key data to enable informed decision making on prioritisation of patients.

  This personalised approach to care will ensure that the right patients are seen at the right time and efficiencies are improved. This will result in better outcomes for patients.

Click here to view the Advisory Group [Terms of Reference](mailto: NSS.SharedServicesHealthPortfolio@nhs.net).
As a Programme we are currently engaging with over 150 different stakeholders

External groups we have engaged with include Diabetes UK, Healthcare Science, Scottish Government and SCI-Diabetes

We are developing a pilot for remote monitoring with an anticipated cohort of 100 patients

We will shortly be issuing boards with data gathering questionnaires

Health Technology Informatics are planning 3 regional patient engagement events

The Team have attended external events hosted by Healthcare Science, Scottish Diabetes Group and Scottish Health Council

Advisory Groups have been set up and planning meetings held for all 3 projects

Clinical Engineering Programme

SAFE
EFFECTIVE
PERSONALISED CARE

The Clinical Engineering Programme Team can be contacted by emailing: NSS.SharedServicesHealthPortfolio@nhs.net