

## **My Clinical Outcomes (MCO) & the Cancer Innovation Challenge at NHS Ayrshire & Arran**

**NHS Ayrshire & Arran are at the forefront of using digital technology to help improve cancer patients' lives.**

The Cancer Innovation Challenge is a £1M project funded by the Scottish Funding Council (SFC) to encourage Innovation Centres to work in partnership with industry to help Scotland become a world leading carer for people with cancer.

My Clinical Outcomes (MCO) is an easy-to-use website that makes it possible to routinely collect and analyse Patient Reported Outcome Measures (PROMs) regularly, remotely and over the long-term in routine clinical practice. These clinically-validated, condition-specific assessments are completed by patients online and quantify the impact of a disease on a patient's life at a point in time. Using MCO helps patients to better understand their own progress, and allows their clinicians to use data to make better ongoing decisions in partnership with patients themselves. Senior clinicians are then able to analyse aggregated data about overall results from the perspective of many patients, see variation between care pathways and take action to make overall care pathways as effective and cost-efficient as possible.

Led by the Clinical Director for Cancer at NHS Ayrshire & Arran, Dr Peter Maclean, MCO has been configured and implemented around the care of patients undergoing chemotherapy for blood cancer at NHS Ayrshire & Arran since February 2018. It was one of the first projects of its kind to be funded through the Cancer Innovation Challenge.

Clinicians are finding the data helpful in revealing more detail about potential toxicity. Where there is minimal toxicity it allows a safe reduction in consultations, while allowing more focussed discussion where toxicities are identified. This allows more time-efficient consultations, while making comparisons between patients easier.

*Dr Maclean said: "This unearths levels of toxicity and side effects that might not have been identified by other methods and it allows more of a direct comparison between patients than was previously available."*

As result, patients have also reported feeling more closely looked after in between appointments and have more time to more fully report their symptoms in detail.

*A longstanding myeloma patient has said about using MCO: “It allows a bit more time for you to think about what there is to convey, and it’s useful in saving a lot of time.... I think if we could use it anyone could use it!”*

*Speaking about the Cancer Innovation Challenge, Dr Catherine Calderwood, Scotland’s Chief Medical Officer, has said: “Getting accurate information from patients about their symptoms at the time they are experiencing them is ...particularly pertinent for people with cancer. How they feel really matters. Patient-reported outcomes... have the potential to enhance the quality of life for patients while they are going through treatment. Ultimately it is about improving services, treatments and outcomes for people with cancer.”*

Initially implemented at University Hospital Crosshouse, MCO is now also in use at University Hospital Ayr, and has been configured with clinicians at The Beatson West of Scotland Cancer Centre for patients with secondary breast cancer. Other centres, such as NHS Greater Glasgow and Clyde, and South East Scotland Cancer Network are now working on pathways in other cancer sub-types and it is hoped that all of these pathways can then be joined up and rolled-out across Scotland to provide comprehensive and systematic PROMs measurement for all cancer patients.

MY CLINICAL OUTCOMES for NHS Ayrshire & Arran

Pre-Chemotherapy Questionnaire

### LYMPHOMA ASSESSMENT

We are interested in some things about your health. Please answer all of the questions yourself by selecting the answer that best applies to you. There are no 'wrong' or 'right' answers.

#### Pre-Chemotherapy Questionnaire

These questions relate to the period of time since your last attendance for chemotherapy.

**BOWELS**  
Have your bowels been normal since your last chemotherapy?

Yes  
 Nearly  
 No

If you have been constipated, how many days longer than your normal did this last?

0 days  
 1 day  
 2 days  
 3 days  
 4 days or more

Figure: MCO patient interface in use at NHS Ayrshire & Arran





# CANCER INNOVATION CHALLENGE

## Funded By



## A collaboration between three innovation centres



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