

# My Clinical Outcomes: Cancer PROMS

My Clinical Outcomes (MCO) was founded in 2011 by doctors frustrated at the lack of real-world data about treatment results available to help patients and clinicians make the best decisions throughout care.

We realised that digital technology could allow data to be captured remotely in between appointments and help make care more patient-centred.

While hospitals are generally good at measuring processes of care, such as waiting times or length of stay, or the rate of complications like infections, they are less good at recording the actual results of treatment from the perspective of patients themselves.

The MCO web-based platform links patients with their clinicians to track clinically-validated and patient-specific outcome measures (PROMs and PREMs) regularly and remotely throughout treatment and long-term follow-up. It is a highly configurable, robust and secure platform and is currently in use in around 60 UK NHS and private hospitals with over 30,000 patients registered to over 1,000 clinicians.

In June 2017, Basch et al. presented evidence in the US that patients with advanced cancer whose care was supported by remote, electronic collection of PROMs survived an average of five months longer than other patients. This significant result was better than the vast majority of then recently approved, hugely expensive, chemotherapy drugs.

The explanation for this significant benefit was simply that the remotely collected data could be used by specialist nurses to take action and proactively help individual patients, improving symptoms and side-effects during treatment.

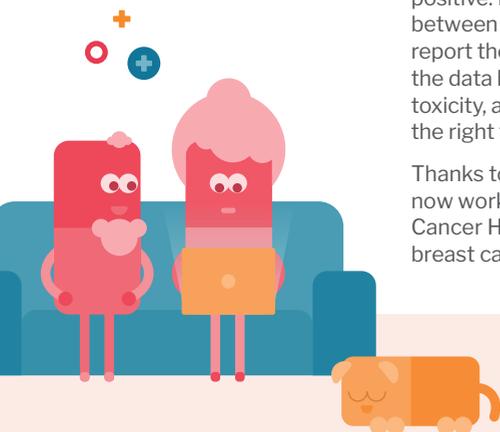
These small interventions added together to help more of these patients receive their full course of chemotherapy and meant that more lived longer as a result. However, prior to the launch of the Cancer Innovation Challenge, the potential of these approaches had yet to be tested in Scotland or the UK.

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During Phase 1 of the Challenge, MCO worked closely with stakeholders from across NHS Scotland to design a solution for capturing patient reported data for any cancer type. This included working closely with the Clinical Director of Cancer Services at NHS Ayrshire and Arran, Dr Peter Maclean, his colleagues and their patients, to design enhancements to allow the solution to be used to support patients with blood cancers undergoing chemotherapy at University Hospital Crosshouse. Phase 2 of the Challenge made it possible to build and implement the solution and start collecting real-world data.

Feedback about the use of the system has been overwhelmingly positive. Patients report feeling more closely looked after in between appointments and have more time to comprehensively report their symptoms in detail. Clinicians, meanwhile, are finding the data helpful in revealing more information about potential toxicity, and that it is allowing them to make clinical decisions at the right time, often during more time-efficient consultations.

Thanks to connections made during Phases 1 and 2, MCO is now working with clinicians at the Beatson West of Scotland Cancer Hospital to design the use of MCO as a service for breast cancer patients.



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