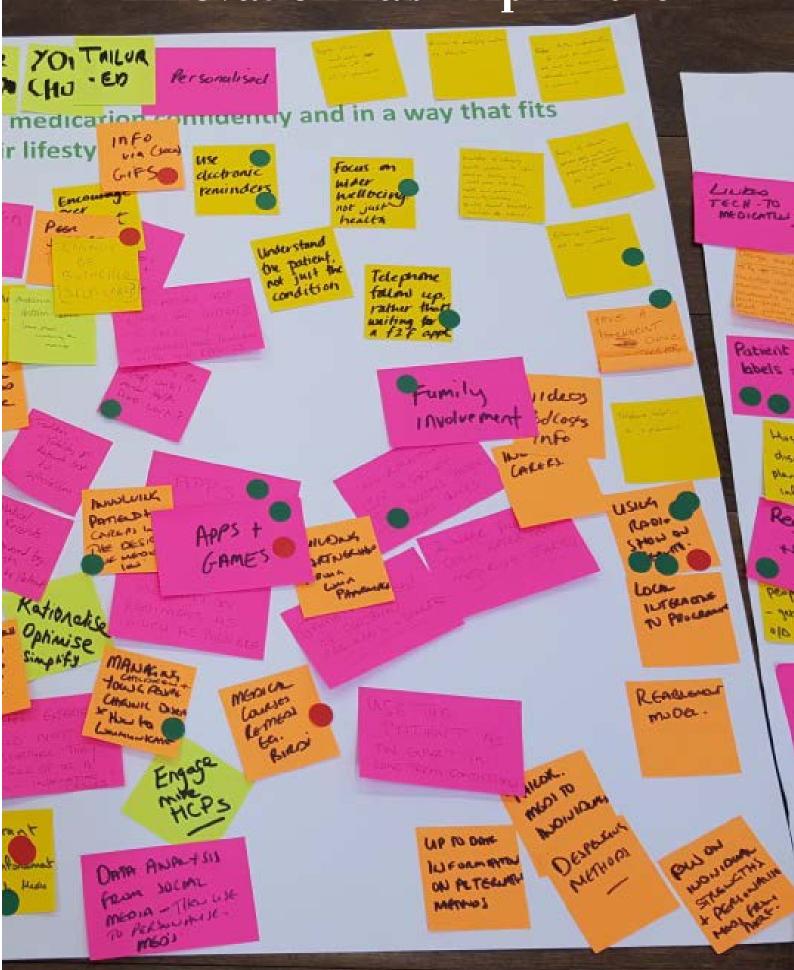
Medicines Optimisation Innovation Lab - April 2016



Innovation Lab NI

The Northern Ireland Public Sector Innovation Lab aims to improve public services by creating a safe space to formulate and test ideas, make mistakes and learn from them. Developing refined, added-value solutions to complex challenges.



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The Challenge

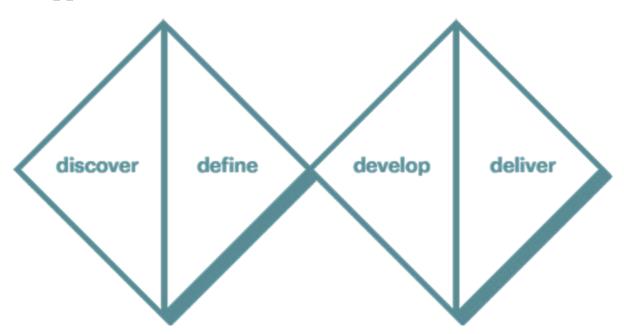
The Department of Health, Social Services and Public Safety (DHSSPS) has developed a Quality Framework for Medicines Optimisation. Medicines Optimisation is defined by NICE as 'a person centred approach to safe and effective medicines use to ensure that people gain the best possible outcomes from their medicines'. Effective patient involvement is a fundamental theme running through the Framework which introduces three new Quality Standards that focus on the patient experience:

- Safer prescribing with patient involvement
- Better information about medicines
- Supporting adherence and independence

The Innovation Lab together with the DHSSPS wanted to understand how to put patients at the centre of the medicines prescribing process and enable them take ownership of their treatment and medication.

By focusing on patients and their experiences, the goal was to help patients improve their outcomes; take their medicines correctly; avoid taking unnecessary medicines; reduce wastage of medicines; and improve medicines safety.

The Approach



The Innovation Lab uses the double diamond approach for the lab structure. The approach begins with insight gathering (discover) followed by the definition of the challenge (define). A design lab is used for storytelling and idea generation (develop), before the final idea evaluation workshop with the Lab Team (deliver).

The lab took place over four days involving patients, Health Care Professionals, patients, the DHSSPS and third sector participants. Together they generated insights and ideas which were then voted upon and developed into project action plans.

Endometriosis Group

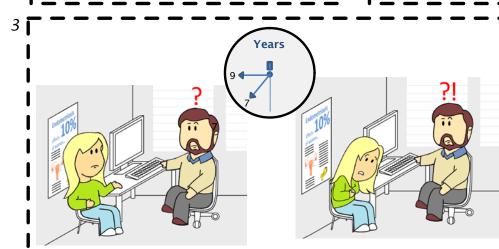
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The Innovation Lab went to speak to the Endometriosis Support Group NI at one of their monthly meetings



The women in the group told us their stories about their diagnosis and medicines





On average it took
7-9 years for the
group to be
diagnosed with
endometriosis after
being misdiagnosed
with IBS and mental
health issues





EVERY member of the support group has ended up in A&E with extreme pain, this is a last resort for these woman



After being administered morphine, many woman have had to spend a night in hospital





There seems to be a lot of inconsistency in prescribing of medication to woman with endometriosis

The endometriosis group feel if they were trusted to manage their own pain medication, they would need to make less visits to A&E and their GP saving the NHS money and time

Defining the Design Challenges

Patient Stories

The Innovation Lab spent two months interviewing patients to hear about their diagnosis and medication. We presented the information in many different ways including cartoon storyboards, long form stories and pen pics.

Insights

We asked our lab group to come up with insights based on the patient stories we shared with them. The group mapped these insights onto a typical patient journey to find gaps in the medicines prescribing service. These gaps formed the basis for the design challenge and objectives to be used for idea generation.

Challenge - rethinking the role of the patient in medication

- 1. Provide an experience which is unique to the individual, from when they start to feel unwell to starting medication
- 2. Enable people to manage their medication confidently and in a way that fits with their lifestyle
- 3. Help people understand how to get the best from their medication
- 4. Ensure that people are on the right medication for them at the right time, throughout their life



Idea Generation and Prototyping

Research & Ideas



The Innovation Lab researched past, present and future initiatives concerning medicines optimisation. The initiatives were displayed around the room during our design lab and we asked the participants to vote on the most insightful aspects with a blue dot.

After the participants read and discussed the displayed information, each group was asked to generate ideas based on the defined design challenge and objectives followed by voting on which ones they thought were the best.

Prototyping



Six ideas were selected for prototyping during the design lab. The groups used card, crayons, markers and other materials to help visual the idea.

The prototypes included a role-play, a training plan, a 3D decision wheel and a service map.

Refinement of Ideas

The six prototyped ideas were presented to the lab team during the refinement stage of the process.

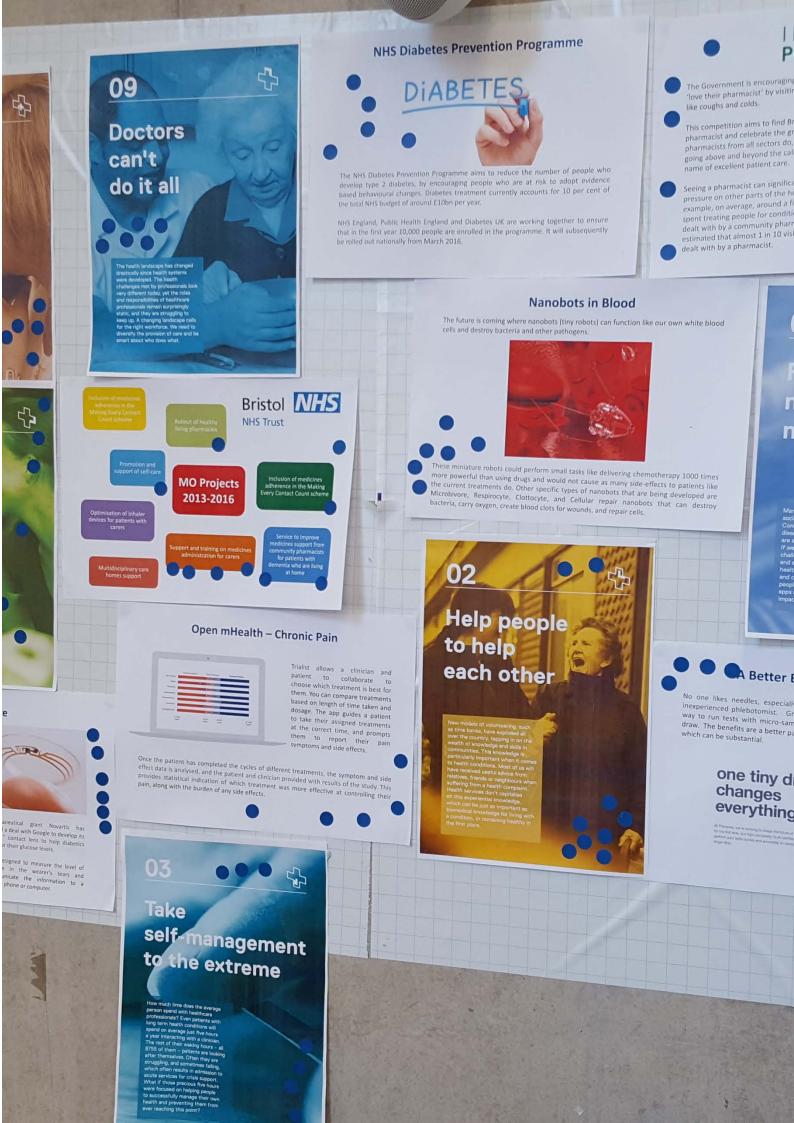
After the evaluation of the six prototyped ideas, five have been taken forward for further action.

- 1. Medicine Review at Community Pharmacy
- 2. Patient Clinical Review
- 3. Family Carer Training Plan
- 4. Promote the Increased Utilisation of other Health Care Professionals
- Good Morning Call Service and Dedicated Medicines Page on NI Direct

There were also several ideas that had a high number of votes but were not selected for prototyping.

These ideas were also evaluated based on their desirability, feasibility and viability by the lab team and four have been taken forward for further action.

- 6. Involve patients in Development of Staff Training
- 7. NICE Supported Pack Information
- 8. Use Big Data
- 9. Medicines Care Plan



Action Plans

Idea	Recommendation	Owner
Medicine Review at Community Pharmacy	A short review by a community pharmacist which evaluates, updates and explains the patient's medicines. This is not an in depth clinical review but will answer patients concerns about their medicines, dosage and side effects. Actions 1. Follow up pharmacist access to Northern Ireland Electronic Care Record (ECR) 2. Plan short term pilot	DHSSPS
Patient Clinical Review	 An in-depth review of patient's condition, diagnosis and medication. Actions Clearly define roles and responsibilities, who should carry out the review, when and how? Research whether the medicine review can trigger a full clinical review 	DHSSPS & HSCB
Family Carer Training Plan	Develop a suite of resources to provide carers with information about medicines Actions 1. Contact trust carers leads and Carers NI to identify existing resources and discuss ideas for proposed solutions.	DHSSPS in partnership with carers associations
Promote the Increased Utilisation of other Health Care Professionals	Develop a system where patients have the information they need to identify an appropriate health care professional to get the right treatment and advice. Actions 1. Review and collate relevant information 2. Engage with relevant stakeholders 3. Develop platforms where patients can access the information	DHSSPS

Idea	Recommendation	Owner
Good Morning Call Service and Dedicated Medicines Page on NI Direct	Expand good morning phone call service already offered by the private sectors to include more information and more platforms for delivery. Actions 1. Assess cost and feasibility of expanding the good morning call service 2. Investigate already existing services and apps 3. Further discussion on appropriate information to be added	DHSSPS

The Innovation Lab NI wish to thank

Belfast Healthy Cities

Community Development and Health Network

Department of Health, Social Services and Public Safety

Health Care Professionals

NI Direct

Patient and Client Council

Patient Representatives

Technical Representatives

Third Sector Participants





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