

European Innovation Partnership on Active and Healthy Ageing Medicines Management Best Practice

Northern Ireland

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Athens

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THREE STAR STATUS

What has been achieved

Time line

- * 2000-2004 Integrated Medicines Management (IMM)-patients over 65 years of age
- * 2005-present Pharmaceutical Clinical Effectiveness
- * 2006 - Safer Patient Initiative (International Healthcare Improvement (IHI))
- * 2010- present Innovation Programme
- * 2014 - Medicines Optimisation Policy

Medicine Optimisation Objectives

Right Drug

- * Selection
- * Matrix methodology
- * STEPSelect (Safe Therapeutic Economic Pharmaceutical Selection) optimise acquisition cost
- * Formulary management
- * Guideline development

Medicine Optimisation Objectives

Right Patient

- * Re-engineered clinical pharmacy services in the hospital setting (older patients)(EPICS-Electronic Pharmacist Clinical Intervention System)
- * Focus on admission ,inpatient stay and discharge
- * Medicines appropriateness index
- * Consultant care of the elderly pharmacists in intermediate and nursing home settings
- * Predictive risk modelling in the elderly

Medicine Optimisation Objectives

Right Dose

- * Medicines reconciliation between sectors (Writemed software)
- * Medicines reconciliation between professionals
- * Medicines reconciliation at all transitions of care
- * Development of the Emergency Care Summary(ECS) and then Emergency Care Record(ECR)

Medicine Optimisation Objectives Right Time

- * Commitment to EIP –AHA to improve adherence to prescribed treatments
- * HSC assessment tools
- * Adherence solutions both technological and patient focussed
- * e -health strategy
- * Development of a technology supported intervention via the Small Business Research Initiative(SBRI)

Results (1)

- * Reduced length of stay by 2 days
- * Reduced readmission rate
- * Reduced length of stay on readmission 5.8 days
- * Improved Medicines Appropriateness Index (17.48 to 5.69)
- * Reduction in 4.2 errors per admission kardex

Results (2)

- * Reduced medicines administration error rate(8.3% to 1.3%)
- * Reduced discharge error rate from 22% to less than 1%
- * PCE programme achieved 168 million Euro of efficiency gains
- * Improved satisfaction with the system by patients

Results –Current Consultant Prescribing Pharmacists

- * **Nursing home:**
- * Four interventions per patient
- * Improved MAI
- * Reduced costs of £48 per month per patient
- * Reduced ED attendances
- * **Intermediate Care :**
- * Data collected and analysed for 453 patients
- * Significantly improved medication appropriateness
- * 2.5 interventions made per patient (84%>grade 4)
- * 2 year savings £328.5k -£560K

Efficiency Effectiveness Sustainability

- * 211 pharmacists and technicians have been trained across sectors
- * Northern Trust has a multi faceted adherence service
- * Software developments have improved the efficiency and effectiveness
- * In place for 13 years
- * Adoption in other countries
- * Learning visits testify to the recognition of the effectiveness and efficiency

Competitiveness Market Growth Economy

- * ENABLING TECHNOLOGIES;
- * STEPSelect - Digitalis Ltd Amsterdam
- * EPICS(Electronic Pharmacist Clinical Intervention System) –Yarra Software Ltd Belfast
- * Writemed (Medicines reconciliation software programme) - Yarra Software Ltd Belfast
- * Bespoke locker development -Hospital Metalcraft England

Scalability -Transferring Success

- * Regional in Northern Ireland
- * Numerous Trusts in England
- * Uppsala in Sweden
- * Skane in Sweden
- * Tallaght Hospital in Southern Ireland
- * Drogheda Hospital In Southern Ireland
- * Trondheim in Norway

Competitiveness, Market Growth Economy

- * Clinical rules – Digitalis and Orbisch Medisch Centrum Sittard Netherlands
- * Intelligent Alerts - Yarra Software Ltd Belfast
- * Local Automated Microbiology Pharmacy Surveillance System (LAMPS) Yarra Software Ltd Belfast
- * Other HCAI related , Iskus Health- Dublin, Arran Healthcare – Dublin, Goldshield- USA
- *

Education and Training

- * **Colleagues from**
- * Sweden
- * Norway
- * South of Ireland
- * England
- * Jordan
- * Australia
- * Erasmus programme with Poland
- * Exchange programme with the Spanish Hospital Pharmacists Association
- * Exchange programme with Orbisch Medisch Centrum, Sittard , The Netherlands

Small Business Research Initiative (SBRI)

- * For individual use
- * For the use of people living in their own homes
- * Tailored to the individual's needs
- * Easy to use
- * Supported by monitoring and data tracking
- * Capable of incorporation into patient care pathways
- * Capable of interface with HSC ICT systems

Three Star to Four Star Status

- * -Valuable potential collaborators to complete the gap closure
- * -Building of links with other groups in this specific area via EIP members
- * -awareness and dissemination
- * -working with industry
- * -Enabling technology
- * -Formulate research questions
- * -Horizon 2020 bids

Horizon 2020

- * CO-ORDINATOR –reference site groups
- * -Collage Group –Cork –Ireland
- * -Valencia Health Authority- Spain
- * -Galicia Health Authority – Spain
- * -Emilio Romagna Health Authority-Italy
- * -Skane County Council-Sweden

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