

Seminar H1



New perspectives - hospital pharmacy in primary care

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Disclosure:

Nothing to declare.

David RP Terry

Birmingham



Birmingham



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Birmingham Children's Hospital



354 beds

250 consultants

30 pharmacists

50 techs or assistants

Secondary & Tertiary Care



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Birmingham Children's Hospital



150,000 OP appointments

50,000 ED attenders

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OP Rx's via FP10

36,000 Items
1,300 different pharmacies
£2.4M

Terry DRP, Sinclair AG, Marriott JF et al. Problems dispensing hospital prescriptions in community pharmacy: a survey of primary-care pharmacists. Arch Dis Child. 2011;96:e1 doi:10.1136/adc.2011.211243.4

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Research:

- All pharmacy sectors
- All patient groups
- Novel medicines for children

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Training:

- PharmD
- Research skills
- Pharmacist Independent Prescribing

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#1 Collaboration - Transitions of Care



General practitioner

Hospital

Clinical commissioning groups

Acute Trusts

Problems: Admission, discharge, and at home

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#2 Collaboration - Paediatric on-going medication



General practitioner

Hospital

Clinical commissioning
groups

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Collaboration - Paediatric on-going medication



**Hospital
Pharmacy
in Primary
Care**

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Unlicensed Drugs

Case Study

Electrolyte Soln G – simple soln

Rx'ed by hospital, disp by CP

Rescue-Medication

Takes 4 days to obtain

Made urgently

ULMs – costs are +++



Terry DRP and Sinclair AG, *Children's "specials" need to be more easily available. Pharm J, 2011. 286: p. 196.*

Research



Research

Obtaining ULM in community pharmacy is often delayed

Hospitals often have to 'come to the rescue'.

ULM in community is +++ costly

Products are variable ... increased risk

GPs don't want to prescribe

CPs don't like hospital prescriptions



Innovations



Innovations



TMC – Hospital Pharmacy in the community?

CILT – Commissioning & interface liaison team

Hospital homecare

Pharmacists in Emergency Medicine

To take out medicines – extended supply.



The Medicines Chest

Opened Jan 2013

Provides medicines to Out-Patients

... so what? Nothing new in that!



The Medicines Chest



Innovations:

Staffed by hospital paediatric clinical pharmacists

**Sufficient resource to provide advice to patients-
parents.**

Own range of ULM

Agreed costs to BCH Trust



The Medicines Chest

The Robot

Home delivery ... via CILT

CILT

Commissioning &
Interface Liaison Team

Innovations:

Team of 9 people

Manages long-term medicines for children (>1,000)

Recharges costs to CCGs

Saves +++ money

Supports GPs



Hospital Homecare



Innovations:

Developed & managed by BCH Pharmacy

Provides dispense & deliver (DAD) services to BCH & other patients

Patient collaboration



TTOs – extended supply

Innovations:

On discharge from hospital – 3/12 supply

Allows for agreement between prescribers

Can pass on patients to hospital managed medicines



The image shows a screenshot of a patient's medication list from a hospital system. The list is organized into columns for medication name, strength, frequency, and other details. The patient's name is partially visible at the top. The list includes various medications such as 'ALPHA-1', 'CLOMIPHENE', 'MORPHINE', 'FOLIC ACID', 'VITAMIN B12', 'VITAMIN D3', 'VITAMIN E', 'VITAMIN K1', 'VITAMIN K2', 'VITAMIN K3', 'VITAMIN K4', 'VITAMIN K5', 'VITAMIN K6', 'VITAMIN K7', 'VITAMIN K8', 'VITAMIN K9', 'VITAMIN K10', 'VITAMIN K11', 'VITAMIN K12', 'VITAMIN K13', 'VITAMIN K14', 'VITAMIN K15', 'VITAMIN K16', 'VITAMIN K17', 'VITAMIN K18', 'VITAMIN K19', 'VITAMIN K20', 'VITAMIN K21', 'VITAMIN K22', 'VITAMIN K23', 'VITAMIN K24', 'VITAMIN K25', 'VITAMIN K26', 'VITAMIN K27', 'VITAMIN K28', 'VITAMIN K29', 'VITAMIN K30', 'VITAMIN K31', 'VITAMIN K32', 'VITAMIN K33', 'VITAMIN K34', 'VITAMIN K35', 'VITAMIN K36', 'VITAMIN K37', 'VITAMIN K38', 'VITAMIN K39', 'VITAMIN K40', 'VITAMIN K41', 'VITAMIN K42', 'VITAMIN K43', 'VITAMIN K44', 'VITAMIN K45', 'VITAMIN K46', 'VITAMIN K47', 'VITAMIN K48', 'VITAMIN K49', 'VITAMIN K50', 'VITAMIN K51', 'VITAMIN K52', 'VITAMIN K53', 'VITAMIN K54', 'VITAMIN K55', 'VITAMIN K56', 'VITAMIN K57', 'VITAMIN K58', 'VITAMIN K59', 'VITAMIN K60', 'VITAMIN K61', 'VITAMIN K62', 'VITAMIN K63', 'VITAMIN K64', 'VITAMIN K65', 'VITAMIN K66', 'VITAMIN K67', 'VITAMIN K68', 'VITAMIN K69', 'VITAMIN K70', 'VITAMIN K71', 'VITAMIN K72', 'VITAMIN K73', 'VITAMIN K74', 'VITAMIN K75', 'VITAMIN K76', 'VITAMIN K77', 'VITAMIN K78', 'VITAMIN K79', 'VITAMIN K80', 'VITAMIN K81', 'VITAMIN K82', 'VITAMIN K83', 'VITAMIN K84', 'VITAMIN K85', 'VITAMIN K86', 'VITAMIN K87', 'VITAMIN K88', 'VITAMIN K89', 'VITAMIN K90', 'VITAMIN K91', 'VITAMIN K92', 'VITAMIN K93', 'VITAMIN K94', 'VITAMIN K95', 'VITAMIN K96', 'VITAMIN K97', 'VITAMIN K98', 'VITAMIN K99', 'VITAMIN K100'. The list is quite extensive and appears to be a standard template for a patient's medication list.

Pharmacists in Emergency Department

Innovations:

Study commissioned by HE-WM

Training Pharmacist Independent Prescribers

Front line role in clinical practice in ED / A&E

Second stage training – Advanced clinical practice

Community pharmacists part of scheme.





Thank you for listening!

David RP Terry



Want to know more?

<http://www.aston.ac.uk/lhs/aston-pharmacy-school/academic-practice-unit/>

Some of our research projects:

- Pill-School / Pillglide
- Oral dispersible tablets for children
- Fast-dissolving films as a carrier of medicines
- Paediatric drug dosing database
- Flavouring medicines for children
- Diabetes training for community pharmacists
- Poly-pharmacy in the elderly
- Community pharmacists and adolescents
- Pharmacists in Emergency Departments (A&E)

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