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Ian Rudd NHS Highland





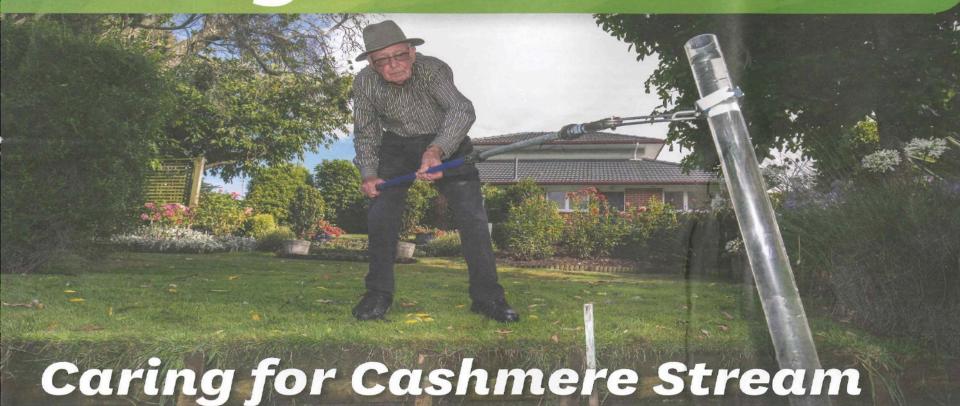
Pharma Waste – why are we interested?

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The newsletter of Environment Canterbury

living here

March 2016







NHS Highland – 2016/17



Community Pharmacy

- 30L waste bins 96 uplifted
- 60L waste bins 918 uplifted

Dispensing GPs accept and dispose of pharmaceutical waste in the same way as community pharmacy.

Waste leaves Highland for incineration and landfill elsewhere in Scotland.

That leaves most of the remaining

pharmaceutical waste entering our

waterways

By providing more information to our patients and public on the impact of pharmaceuticals in the environment can we

Protect our environment and economy?

Protect our health?

Protect our health services?



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Sharon Pfleger Consultant



Paddling upstream to prevent pharma harm

Sharon Pfleger
Consultant in Pharmaceutical Public Health, NHS Highland

National Clinical Lead, Area Drug and Therapeutics Committee (ADTC) Collaborative, Healthcare Improvement Scotland

Pharmaceutical Public Health approach today

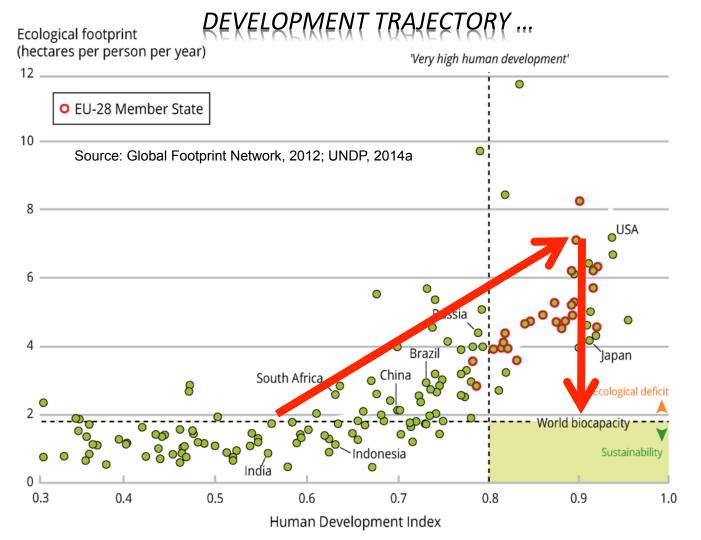
- Global perspective on circular economy
- Why do medicines matter?
- What can we do?
- What are we doing in Highland/ Scotland?
- What next?

GLOBAL USE OF NATURAL



A taste of the 21st Century environment

- Increasing evidence of the climate change threat
- 60% of ecosystems already degraded or used unsustainably
- 33% of soil is moderately to highly degraded due to erosion, nutrient depletion, acidification, salinization, compaction and chemical pollution



GLOBAL USE OF NATURAL RESOURCES IN CRISIS OR NOT?

- For the first time in a human history we face emergence of a single, tightly coupled human social-ecological system of planetary scope.
- Environmental consequences caused by excessive and irresponsible use of resources, in the future more responsible use of resources will be central
- It is about system change which needs leadership and improved global governance.
- Transition to a new economic model integrating all pillars of sustainability should be in the centre of our attention.
- Circular Economy is an excellent concept to operationalise it in practice.
- We should refocus our efforts from addressing the consequences (migration, security ...) to the reasons leading to them (economic, social, environmental ... imbalances).

Why do medicines matter?

- More than 600 pharmaceuticals and their metabolites have been found in the environment worldwide.
- They enter the environment (through water, soil, sludge, and organisms) at all stages of their life cycle and can end up in drinking water, and accumulate in fish, vegetables, and livestock.

Use of medicines is increasing

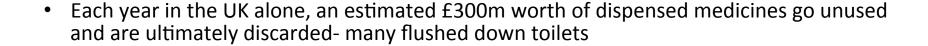
- Growing population
- More older people
- Technological advances
- Pill for every ill culture
- Waste also increasing

How do medicines get into the environment?

Production processes in pharmaceutical industry



- Consumption / use of medicines
- Between 30-90% of an oral dose can be excreted as an active substance in urine
- Improper disposal



Some medicines are worse than others because of their potential to affect people and wildlife



- Antibiotics
- Antidepressants
- Oral contraceptives
- Hormone replacement
- Painkillers
- Anti-inflammatories

Public health approach

Prevention is better than cure



What can we do?

- International agreement to minimise pharmaceutical pollution of our environment
- Cleaner production by pharmaceutical industry
- Raise awareness amongst healthcare professionals about the impact of pharmaceuticals in the environment and what they choose to prescribe
- Help people to understand the impact of pharmaceuticals in the environment and how to safely dispose of unused medicine

Source control

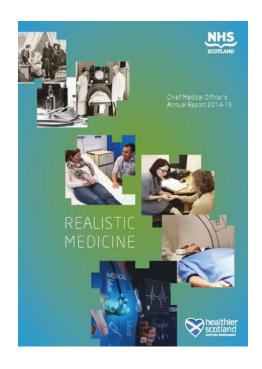
Reducing the quantity of pharmaceuticals that enter sewage systems by:

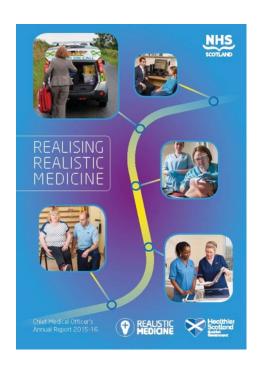
- ✓ Educating people about the possible environmental effects of what they stock in their medicine cabinet
- ✓ Encouraging people to return unused drugs to a pharmacy for proper disposal.
- ✓ Advise not to flush medicines down the toilet

What are we doing in NHS Highland?

- Area Drug and Therapeutics Committee (ADTC)
- Joint formulary for prescribing
- Guidelines linked to formulary
- Antimicrobial management team
- Disposal of unwanted medicines
- Public messages

Realistic medicines





REALISTIC MEDICINE













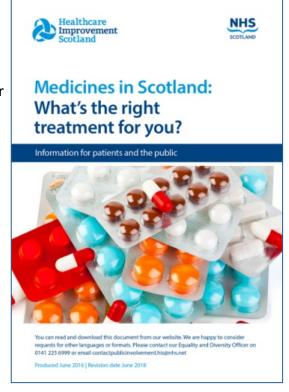
Patients' preferences matter. The Kings Fund.

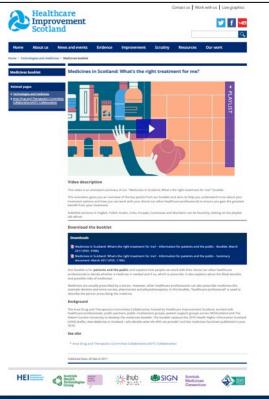
Doctors generally chose less treatment for themselves than they suggest for patients. Patients' preferences matter The Kings Fund

Patients who are fully informed choose less treatment and have less regret

Medicines Booklet

- ✓ Launched June 2016 and revised 2017
- Available electronically and as a video
- ✓ Patient journey starting at consultation
- Explains how healthcare professionals decide whether to prescribe a medicine and which to prescribe
- Potential to underpin conversations between patients and healthcare professionals
- Educate the public on medicines risks and benefits
- ✓ Fulfils NHSScotland quality ambitions
- ✓ Engage patients in shared decision-making
- Higher quality care and better outcomes
- Reduced waste and harm, improved safety



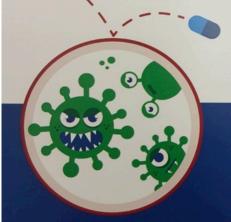




Stop Antibiotic Resistance

Bacteria are becoming resistant to antibiotics. Keep antibiotics working for serious infections.

The best way to treat common colds, coughs or sore throats is plenty of fluids, rest and painkillers if needed, not antibiotics. For more information, or if you are worried, talk to your pharmacist or doctor.



Find out how you can help at Antibioticguardian.com







The commitment – Single National Formulary by 2019



- All medicines
- Tackle health inequalities, ('postcode prescribing')
- Increased safety through continuity of care for crossboard patients
- value-based care
- Streamlined process from SMC to formulary



'REALISTIC'

- HAVING OR SHOWING A SENSIBLE AND PRACTICAL IDEA OF WHAT CAN BE ACHIEVED OR EXPECTED.
- 2. REPRESENTING THINGS IN A WAY THAT IS ACCURATE AND TRUE TO LIFE.

CREATING CONDITIONS









THE VISION

BY 2025, EVERYONE WHO PROVIDES HEALTHCARE IN SCOTLAND WILL DEMONSTRATE THEIR PROFESSIONALISM THROUGH THE APPROACHES BEHAVIOURS AND ATTITUDES OF REALISTIC MEDICINE

Will this be easy?

Albert Einstein when asked why it is that mankind has stretched so far as to discover the structure of the atom, but we have not been able to devise the political means to keep the atom from destroying us he replied:

"That is simple, my friend. It is because politics is more difficult than physics"

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