Our £7.6bn drug problem

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Medicines spend - England

The overall NHS expenditure on medicines in 2015/16 was £16.8 billion, an increase of 8.0% from £15.5 billion in 2014/15 and an increase of 29.1% from £13.0 billion in 2010/11

In 2015/16 hospital use accounted for 45.2% (£7.6 billion) of the total cost, up from 43.0% (£6.7 billion) in 2014/15 and up from 32.1% (£4.2 billion) in 2010/11

Approximately 12 - 15% per annum growth in hospital spend



Source: NHS Digital

http://www.content.digital.nhs.uk/catalogue/P UB22302/hosp-pres-eng-201516-report.pdf

Drivers in Hospital Spend

- Technological advancement
 - _mab
 - _nib
 - _vir
 - _cept
 - Lenalidomide
- Genetic testing / genome mapping
- Population demographics

THE TOP TEN COSTLY DRUGS IN 2015/16

Adalimumab - £416,647 million. Used to treat arthritis

Ranibizumab - £248,975 million. Used to treat macular degeneration

Etanercept - £230,588 million. Used to treat arthritis

Aflibercept - £198,268 million. Used to treat bowel cancer

Infliximab - £178,179 million. Used to treat Crohn's disease

Rituximab - £155,893 million. Used to treat arthritis

Trastuzumab - £152,037 million. Used to treat breast and stomach cancer

Lenalidomide - £141,840 million. Used to treat myeloma

Rivaroxaban - £106,586 million. Used as an anticoagulant

Imatinib - £89,067 million. Used to treat leukaemia

http://www.dailymail.co.uk/health/article-4000810/NHSspends-1-billion-just-4-common-drugs-latest-figures-show.html

A SNAPSHOT OF 2014-15



Downward pressures

- Price management mechanisms (\perp PRS, \perp Category C, \perp Daraprim)
- Patient reviews
- Sharing Care
- VAT efficient supply
- Carter review

Further reference:

- (Daraprim) https://www.theguardian.com/business/2016/oct/28/martin-shkreli-daraprim-hiv-drug-price-hike-interview
- (Carter review) https://www.gov.uk/government/news/review-shows-how-nhs-hospitals-can-save-money-and-improvecare

So what was the problem?

- Until 2013 the NHS did not have a system that could show them hospital spend data!
- "Measure what is measurable, and make measurable what is not so."

- Galileo Galilei

Our Journey

- In 2012/3 Rx-info went from 4 alpha sites to 40 beta testers to 145 user sites
- Dealt with just under 200 NHS IT departments
- Standardised the data
- Processed data used in
 - Hospital savings plans
 - Parliamentary Health Select Committee
 - Regional procurement for medicines
 - PHE Antimicrobial Stewardship
 - ► Carter review

Stats and facts



Data platform and business interfaces

	data into information	
₩Define	₩EmBox	₩Vend
		Efavirenz 600mg tablets (Dr Reddy's Labor
₩Refine		7 packs £1,331.82 Voriconazole 200mg/5ml oral suspension 7 1 packs £551.37
		Posaconazole 40mg/ml oral suspension 10 6 packs £2,974.20
₩ADIoS	coming soon	Magnevist 0.5mmol/ml solution for injection 7 packs £121.17
		Levact 25mg powder for concentrate for sol 7 packs £1,823.15
Support	Mapping	Nicorette 15mg Inhalator (McNeil Products

Filter Summary

Date Range: Last Month (Jun 2017 - Jun 2017). Trusts: Custom. Drugs: ATC: M01AB05 - Diclofenac, M01AE01 - Ibuprofen, M01AE02 - Naproxen, Excluding VMP: 12717 - Diclofenac 100mg suppositories, 12843 - Diclofenac 12.5mg suppositories, 12844 - Diclofenac 25mg suppositories, 12858 - Diclofenac 50mg suppositories, 1894 -Diclofenac 75mg/2ml solution for injection vials, 12696 - Diclofenac 75mg/3ml solution for injection ampoules. Specialties: Internal (exc. Stock, Sales) (225 of 230). Prescription Types: All



(Group)

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Filter Summary

Date Range: All Time (Apr 2011 - Jun 2017). Trusts: Custom. Drugs: VMP: 10323 - Infliximab 100mg powder for solution for infusion vials. Specialties: Internal (exc. Stock, Sales) (225 of 230). Prescription Types: All



Filter Summary

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Date Range: All Time (Apr 2011 - Jun 2017). Trusts: Custom. Drugs: VMP: 10323 - Infliximab 100mg powder for solution for infusion vials. Specialties: Internal (exc. Stock, Sales) (225 of 230). Prescription Types: All



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Growth Chart for J01 - ANTIBACTERIALS FOR SYSTEMIC USE

60 40 20 0 Growth % -20 -40 -60 Mean -80 0k 3k 1k 4k 2k 5k 6k 7k 8k 9k 10k 11k DDDs / 1000 Admissions (inc. Day Case)

Figures from period Jul 2016 to Jun 2017 with growth compared to period Apr 2013 to Mar 2014.

Acute Hospital Trust
Teaching Hospital