Data & the Ageing Revolution

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What is Crowdsourcing?
“We’re living in a culture of crowdsourcing, where more and more people are willing and interested in sharing what they know through social media.”

Joel Gurin. Founder & Editor OpenDataNow.com
The Data: Is Everywhere WE Go
Key Issues

- Authentic
- Guarantee
- Quality

Trust
The Stakeholders are Getting on Board
From National Governments...
To Cities....

Future City Glasgow
In Glasgow we're exploring ways to harness the power of data and technology to make our city a better place to live, work and play.

Here is our story...

DATA ISSY COM

Dubai

21c consultancy
Private Sector ...
Citizens....
A Global Trend Toward Open Data
So What Does this Mean for Public Services?
From Weather ...
And Street Bumps ....
To Space Stations....
And Archives.....
Government is Harnessing the Crowd to.....
Gather Data....
Assess Data....
Innovate with Data!

KEEP CALM AND USE DATA WISELY
Can Crowdsourcing enhance data collection, policy making & monitoring when it comes to the Ageing Revolution?
“Few other countries have information which combines high quality data, consistency, national coverage and the ability to link data to allow patient based analysis and follow up”

NHS Information Services Division
http://www.isdscotland.org/
• Fortunate in Scotland than around 60%-70% of health expenditure is available at patient (individual level).

• All hospital based activity (emergency and elective inpatient and day) available and attributable to individuals.

• Prescribing (drugs) also available at individual level.

• Gaps including health community and primary care.
Scotland

- A range of operational/activity statistics produced by data service for health provider.
  - Waiting times.
  - Infection rates.
  - Number of hospital cancellations.
  - Number of beds.
  - Number of prescribed items.
  - Costs of running NHS.
  - http://www.isdscotland.org/
Scotland - Balance of care (£4.5bn) for 65 plus Institutional (hospital and care homes) and non-institutional (community based settings) – expenditure still predominately in institutional based care.
Scotland - Health and social care expenditure (£4.5bn latest year in chart) for 65 plus
2010/11 – 2013/14 – emergency care (non elective) biggest proportion of overall spend
Scotland – cohort specific analysis — dementia
Those with dementia compared to control use a greater number of services and in one area this was predominantly care homes
Suspected prevalence underestimation based on eurocode

Cost attributable to dementia:

- Day patient: 1%
- Outpatient: 2%
- Inpatient/day case: 28%
- Care Homes: 61%
- Other social care: 1%
- Home Care: 7%

Age specific prevalence:

- QoF only
- All dementia
- Eurocode

Data also available showing:
- Breakdown of differences in activity between dementia and age/sex matched non-dementia population
- Crude population based forecasting

- 5% of 65+ diagnosed with dementia
- Dementia patients consume 25% total H&SC budget for 65+
- Dementia costs - £15,610/person
- Non-dementia costs - £2,880/person
Kazakhstan: Taldau Information and Analysis System