A Scotland-wide Data Linkage Framework for Statistics and Research

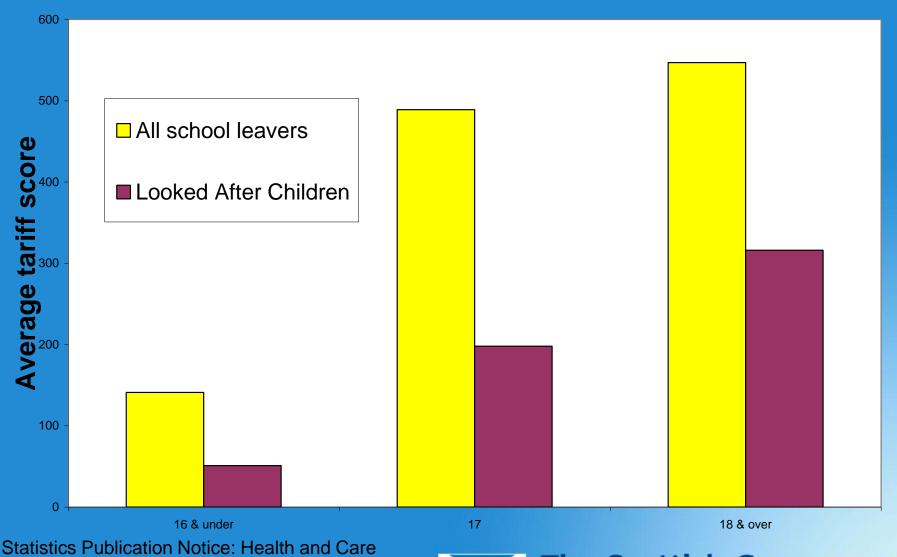
Sara Grainger

Office of the Chief Statistician and Performance





Increase power of official statistics



Statistics Publication Notice: Health and Care Series: Educational Outcomes for Scotland's Looked After Children, 2009/10



Allow low cost longitudinal research

SHeS self-report data on

use of tricyclic antidepressants medication history of heart disease

linked with 8 subsequent years of National Register data on

CVD death

non-fatal myocardial infarction

coronary surgical procedures

stroke

heart failure

increased risk of Cardiovascular disease in adults taking tricyclic antidepressants was not explained by existing mental illness

→ this medication is associated with an excess disease burden

Hamer, G. David Batty, Adrie Seldenrijk, and Mika Kivimaki Antidepressant medication use and future risk of cardiovascular disease: the Scottish Health Survey Eur Heart J (2011) 32(4): 437-442



Why a strategic framework?

- 1. Piecemeal developments
- 2. Nervousness about sharing data
- 3. Incomplete data



Premise

it is in the public interest both to safeguard individual's right to privacy and to make efficient use of data for statistical and research purposes

Objectives

help every-one involved in data linkage to balance these values

provide the public with assurance that personal data is being shared and used safely and appropriately

provide data owners with assurance that data can be shared when the appropriate safeguards are in place

increase capacity and efficiencies for linkages



Emerging framework

STEERING GROUP

DATA LINKAGE CENTRE

PRIVACY ADVISORY COMMITTEE / SERVICE

PRINCIPLES



PRINCIPLES

Based on SHIP Guiding Principles

(Laurie and Sethi, Edinburgh Law School)

- Public Interest
- 2. Governance and Public Transparency
- 3. Privacy
- 4. Removal of names and direct identifiers
- 5. Consent
- 6. Security
- Access and Personnel
- 8. Clinical Trials
- 9. Data sharing agreements and sanctions



A Scotland-wide Data Linkage Framework for Statistics and Research

Consultation Paper on the Aims and Guiding Principles

Published today

www.scotland.gov.uk/datalinkage

Responses welcome by 15 June

Reporting September





Consultation Questions

- Are there other benefits of data linkage for statistical and research purposes?
- Are there other challenges or barriers preventing more effective and efficient data linkages?
- Are the guiding principles sufficient and appropriate?
- Are the objectives set out for a Privacy Advisory Service the right ones?
- Are the functions that will be led by the National Data Linkage Centre the right ones?



Framework timeline

Next 6 months:

- Consultation on aims and principles
- Public acceptability testing
- Appoint programme manager to develop data linkage centre

Next 2 years:

- Establish Data Linkage Centre
- Consult on Data Linkage Centre logistics and procedures
- Consult on Privacy Advisory Service
- Clarify investment needed data, skills

Longer-term:

- Legislation?
- Establish Privacy Advisory Service
- Invest in data

