From efficacy to effectiveness: the Salford Lung Study

Andrew Roddam

March 2016



Luna Stud

RF/RESP/0042/16 14 March 2016

Evidence needed for medicines in today's world



Efficacy Risk / Benefit Effectiveness

Value for money

Individual and Community





RF/RESP/0042/16









Efficacy to Effectiveness

Gold standard science to answer specific questions

Randomised Controlled <u>Trials</u>

Double blind Double dummy Strict inclusion criteria Exclusions Adherence encouraged Frequent reviews Drugs provided Traditional Efficacy Endpoints Evidence representing medicines in the real world

Effectiveness

Open label Broad population All comers Set in normal care No extra review Drugs prescribed and collected in usual way Health Outcome and Utilisation Endpoints i.e. Real life

Salford Lung Study Ambition

Study is as near to usual care ("real world") as possible using a pre-license medicine

- embrace heterogeneity of patient population
- normalise the patient experience as much as possible
- pragmatic "usual care" in each arm
- relevant endpoints collected

Maintain Scientific Rigour

- Interventional
- Randomised
- Controlled





Study outline for COPD



Constant real-time data collection of all HC interventions/safety monitoring

RF/RESP/0042/16 14 March 2016

Challenges and Solutions

- How to recruit patients?
 - "all comers"
 - broad inclusion criteria
 - pragmatic diagnostic criteria
 - few exclusions
- How to ensure "normal" care of patients during the study?
 - minimal study procedures
 - normal prescribing and dispensing practices
- How to monitor patients without carrying out frequent reviews?
 - minimize "Hawthorne" effect
 - ensure patient safety
 - ensure robust collection of end points

 Recruit patients through primary care

- No additional review
- No change to "care as usual"
- Study drug accessed through "high street" community pharmacy network
- Integrated electronic patient record (EMR) with real-time access ensures that data is complete wherever and whenever patient accesses healthcare

How the data is gathered







How will this look in the future?

- Partnerships NHS, Industry, Patients
- Culture of research physicians and patients
- Operationally complex opportunity to simplify
- Data Flows how do we scale? Quality & Reliability
- Improving the care of patients through evidence



RF/RESP/0042/16

14 March 2016

