How does the pharmaceutical industry abpi use patient data?



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useMYdata workshop – Commercial uses of patient data Thursday 12th October, 2017

Discussion points today



- Why is industry interested in patient data?
- What are the sources of patient data?
- Levels of identifiability used by the pharmaceutical industry?
- How is patient data managed in the pharmaceutical industry?
- Other key considerations

Sequential process of drug development ... to date





- Long and uncertain process
- Evidence centred on randomised controlled trials
- Series of decision points and handovers

New drug development lif cycle

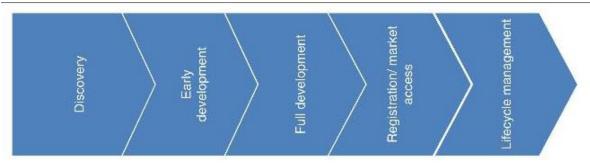
abpi

iterative and distributed

- Discovering targets and leads
 - Not only in the lab but in real world settings
- Evidence and evaluation
 - Data collection and continuous assessment
 - Interventional, observational
- Regulatory review and decision making
 - Adaptive and more complex
- Treatments as combinations and/or services
 - Personalised, diagnostics and devices
 - Advanced therapies cell and gene-based
- Value definition
 - Adaptive
 - More complex

Examples of issues where RWD can be used in the drug development lifecycle





How many people suffer from the condition and also have comorbidities x and y?

What drugs are currently used in the treatment of the condition and to what extent are clinical guidelines being followed? Given efficacy and tolerability results from the early trials, how might current treatment pathways be affected with our new drug?

How costly are the specific areas of unmet need that a drug with this target product profile might address? In designing the Phase III trial, what are the underlying rates of adverse events we expect to see in the trial population?

Where can we modify the eligibility criteria in the Phase III protocol to reduce possible recruitment problems?

What is the likely budget impact of introducing the new drug across different patient segments?

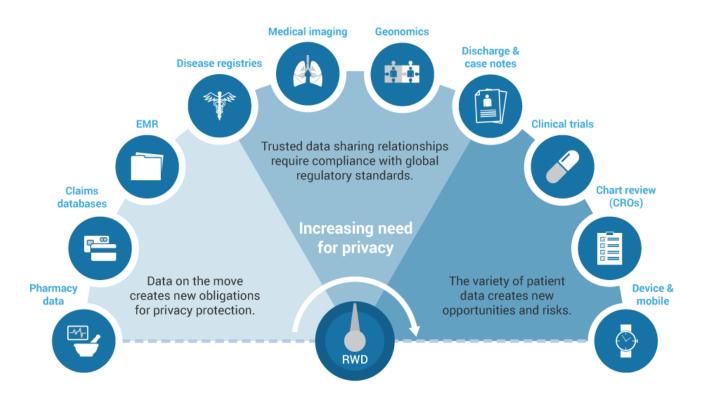
What potential safety issues do we see with the early use of the drug in practice? How can we run a large clinical trial using electronic medical records to show the relative effectiveness of our drug?

In which patient groups are there compliance issues with the drug?

Drug Discovery Today

Sources of patient data





Levels of identifiability used in the pharmaceutical industry



Spectrum of identifiability



*anonymised in accordance with the ICO code of anonymisation

How is patient data managed in the pharmaceutical industry



- Regulatory guidance
 - Good Clinical Practice
- Data management
 - Separate and disparate databases
 - Data security
 - Risk management
- Controlled access
 - Who has access?
- Key-coded patient data
 - Separating patient identifiable information from clinical data about a patient
- Data protection
 - UK Data Protection Act and EU General Data Protection Regulation

Other key considerations



Effective informed consent

Patient privacy

Balancing patient benefits and risks

ABPI Code of Practice

Advertising and promotion of medicines

Sharing Clinical Trial Data

Controlled access, data sharing agreements

Patient engagement

Involve patients in the process

Communication

- Transparency on use of patient data throughout drug development lifecycle
- Highlight use cases to show the benefits of using patient data and how patient risk is managed



THANK YOU!

