Significant benefit of OMPs

Industry views

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Positive benefits of Orphan Medicines regulation in the EU

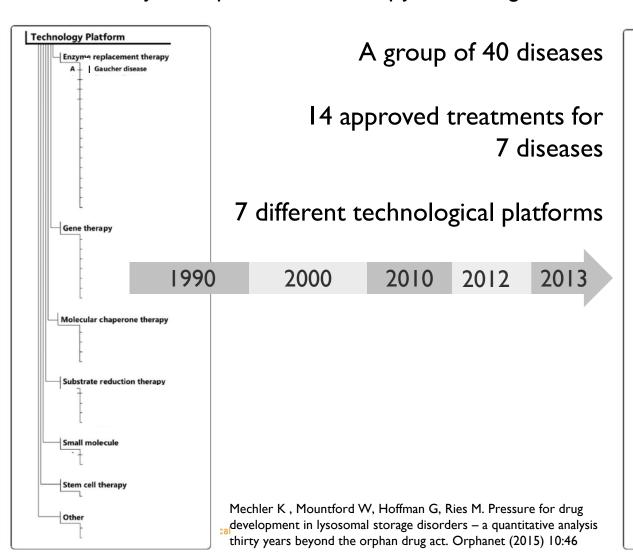
- Industry values the Orphan Medicinal Product Regulation (EC)
 141/2000
- Incentives have corrected a market failure and allowed industry to develop over 100 OMPs in 81 conditions
- The current framework has:
 - Incentivised research in exceptional cases and outliers from which a lot of scientific knowledge has emerged
 - Facilitated breakthrough advances in care and in novel technology platforms
 - Enabled applications of novel technology platforms in other rare diseases
 - Encouraged continued innovation in rare diseases with an approved therapy with long-term improvements in patient care

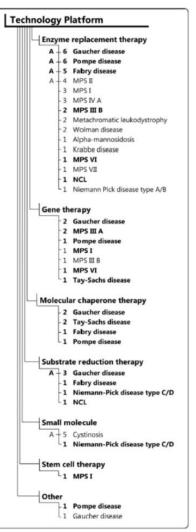




Lysosomal storage disorders

Enzyme replacement therapy for fatal genetic diseases





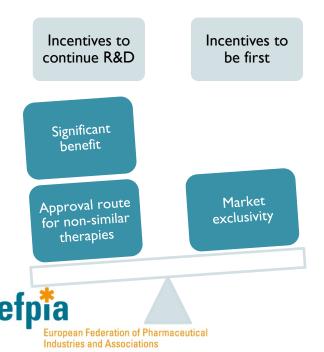
What does significant benefit mean to companies developing orphan medicines?

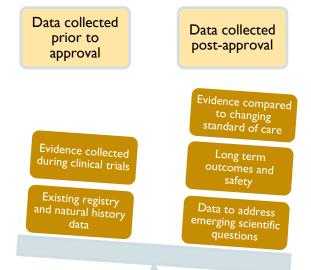
 We are looking for an environment that properly balances two sets of issues:

I. Incentives to be first vs incentives to continue to advance knowledge and care

AND

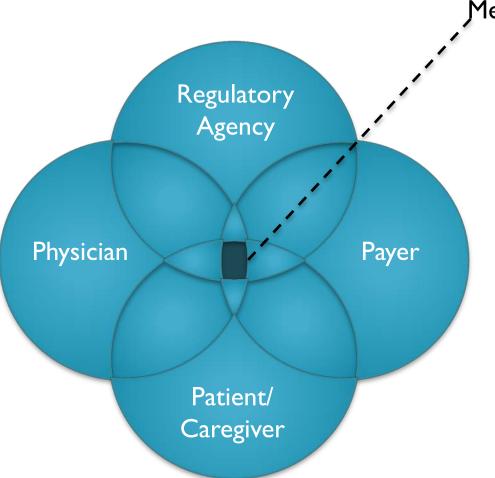
2. Data collected prior to approval vs data to be collected post-launch







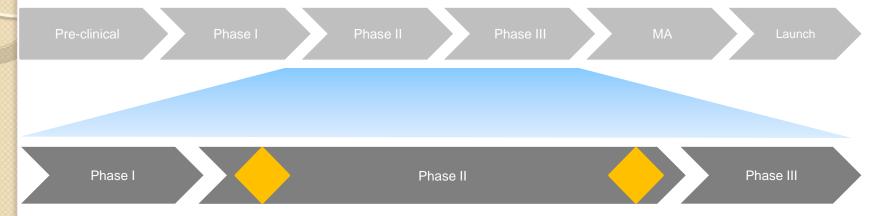
Delivering data that is meaningful to everyone can be far from easy



Meaningfulness to All

- Multi-stakeholder dialogue (e.g. parallel scientific advice) to agree what is achievable
- Opportunities to discuss evolution of evidence over time (e.g. adaptive pathways)

Collecting evidence to substantiate significant benefit at time of MA



- Promising early data can accelerate launch plans e.g. PhII data
- With a more complete programme, it can easily be 3-4 years from scientific advice/finalising data collection plan to MA
 - Other products being developed for the same disease may succeed (or fail)
 - New end points or patient relevant outcome measures may be developed/agreed
 - Standard of care (based on reimbursed practice in Europe) may change





Sources of evidence for significant benefit

 RCTs are undertaken in rare diseases, but not always appropriate or achievable:

Feasibility challenges to randomisation and control groups in trials*

Small patient population

Poor prognosis/no alternative treatment

Lack of equipoise

Outcomes occur in the distant future

Small adaptation of an intervention

Extension of the indication

- Problems where multiple therapies are being in developed in parallel
- Hard to quantify or compare outcomes in therapies with long duration of treatment effect (cell and gene therapy)





Sources of evidence for clinical benefit - indirect comparisons

Publications and experience of anchor-based indirect comparisons:





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For rare diseases, fewer studies and single-arm studies more likely:



• Even here, simulated treatment comparisons and matching adjusted indirect comparisons have sometimes been used successfully

Disease	Treatment evaluated	Single- arm	Method(s)	Publically- available HTA
Renal cell carcinoma	Axitinib	Υ	STC, MAIC	Y
Multiple myeloma	Bortezimib	Υ	MAIC	Υ
Pancreatic neuroendocrine tumors	Everolimus	Υ	MAIC	Y
Non-small cell lung cancer	Ceritinib	Υ	MAIC	
Mantle cell lymphoma	Ibrutinib	Υ	MAIC	
Cystic fibrosis	Tobramycin	Υ	MAIC	

Sources of evidence for clinical benefit - indirect comparisons

- Multiple methods and growing experience. Can be very effective and best option BUT:
 - "The choice of methodology is context specific and should be based on an objective assessment of the quality and quantity of the direct and indirect evidence, the comparability of the selected studies, and of the fundamental assumptions in the different models"
 - Heterogeneity is a big problem indirect comparisons introduce less uncertainty when study populations, end points, study duration, treatment settings etc are aligned
 - What conclusions to draw if indirect comparison shows no benefit?
- More fundamentally, is relative efficacy always the right question?
 - Additional options in oncology treatment pathways
 - Dissimilar interventions or target populations within a disease (mutation-specific vs all patients)
 - HTA and regulatory perspectives and decision-contexts differ



Measuring major contribution to patient care

- Positive experiences of consortium work led by patient groups and academics to develop guidelines and new measures (PPMD, Telethon, IRDiRC workshop on PROs)
- Some items may be better measured in a real world setting (e.g. adherence)
- Need evidence standards to be proportionate depends on disease, therapy and state of knowledge
- Availability of baseline data on current treatment (esp if new)?

Patient preferences elicited outside clinical study

Feedback from patients in a study

Quantitative measures directly about patients in a study

Quantitative measures of consequences of treatment outcomes

- E.g. Discrete choice experiments on reformulation/oral vs IV
- E.g. Disease specific questionnaires or clinical functioning reports
- E.g. Patient-relevant outcomes measures designed for that disease; generic QoL measures (sometimes age-specific)
- E.g. Measures of carer burden, health and social care resource use, return to work



What are companies optimistic about?

- Options to tackle some rare diseases in an even more meaningful way than we have in the past
 - Novel therapies that target specific mutations to make progress in hard-to-treat diseases
 - New therapeutic modalities (gene and cell therapy, immuno-oncology and combination therapy)
- Potential to establish continuum of evidence collection and good examples to test and try new trial design and analytical techniques to meet stakeholder needs over time
 - Opportunities for early dialogue via Parallel Scientific Advice, Adaptive Pathways
 - Collaborations on research and PRO development and registries





What are companies worried about?

- Bringing HTA questions and evidence standards into regulatory framework
 - Decision context and consequences are different
 - Problems in applying uniform standards across diverse rare diseases
- Having additional methods available ≠ having sufficient evidence to accurately apply methods to show or quantify significant benefit.
 - Higher evidence hurdles and more regulatory risk likely to limit investments in research that could deliver incremental but important benefits to patients
 - Quantifying relative effectiveness of some new therapeutics will be really challenging
- How to respond to signals?
 - Single products in a TA or competition between companies working on emerging technologies?
 - Dialogue, quality and evidence commitments over time or gamble on being first?
- Novel therapies with long-term treatment effect or definite outcomes and statistical certainty?

2003/C 178/02 JO 29.7.2003 Industry suggested areas for clarification

- Flexibility for clinical trial designs and clinical development program
- Alignment between COMP, CHMP and SAWG
- 3. Clarity on re-evaluation of designation criteria
- 4. Communication of significant benefit



