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# The 'rituximab effect': the challenge of low-cost and off-label comparators in rare diseases

**Richard Sear, Director** 

All opinions my own

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# The 'Rituximab effect'



of rare diseases do not have an approved treatment<sup>1</sup> of rare disease patients have received medicine directly linked to their disease<sup>2</sup>

67%

#### Mainly low-cost off-label treatments?

[1] Spotlight on rare diseases (2019) The Lancet; [2] RARE2030: Foresight in rare disease policy (2021) EURORDIS

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# The 'Rituximab effect'

Non-exhaustive list of orphan indications for which rituximab is named in guidelines/studies<sup>1</sup>



[1] Shinde et al. (2020) Health Advances

**gMG**: Generalised myasthenia gravis; **IgA**: Immunoglobulin A; **ITP**: Immune thrombocytopenia; **NMOSD**: Neuromyelitis optica spectrum disorder; **PPMS**: Primary progressive multiple sclerosis; **SLE**: Systemic lupus erythematosus; **TTP**: Thrombotic thrombocytopenic purpura; **wAIHA**: warm hemolytic anemia

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# The

orphan pricing challenge with low-cost comparators

#### "

There was no room for manoeuvre in discussions [in France for Epidyolex] because the comparators selected were essentially low-cost generics

— Country Manager, Jazz Pharmaceuticals

APM News, Feb 2023





e.g., Haemophilia, Multiple Myeloma, PNH

\*i.e., a return on investment that is broadly aligned with non-orphan medicine

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No agreed pricing framework to account for rarity

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#### ~50% orphan medicines have annual sales of €10 million or less in EU

- EU Technopolis Report 2019



#### Is economic return sufficient to justify early investment in orphan R&D programme?

Estimated % OMPs (2000-2020) economically viable in Europe<sup>2\*\*</sup>

17.2%



#### Estimated rNPV -€6.7 million

\*EU average; \*\*Using revenues from Technopolis report. [1] EFPIA W.A.I.T Indicator 2021 survey (2021); [2] Dolon (2020). Available at: <u>www.dolon.com</u> EU: European Union; OMPs: Orphan medicinal products; rNPV: Risk-adjusted net present value; US: United States

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Need a robust pricing strategy & rationale

Establish pricing principles / internal pricing framework

Triangulate a pricing corridor

2

3

4

5

Define pricing targets & rationale

Identify tactics to 'close the gap'

Instill confidence across the organization



## Why do we need an internal pricing framework ?



To allow companies to **explain** their pricing decisions

To ensure consistency of pricing decisions across portfolio and over time So companies can **engage** in the ongoing debate about how P&R frameworks for orphan drugs should be structured

**P&R:** Pricing and reimbursement



### Pricing principles often based on concepts of value, sustainable innovation and affordability

	Price should reflect <b>Value</b>	Price should ensure Sustainable innovation	Price should consider Affordability
Biogen <sup>1</sup>	Value to patients, value to society, value-based framework	Innovation, shareholder value	Affordability
BMS <sup>2</sup>	Value to patients, value to society	Innovation, investment in R&D, shareholder value	Affordability, sustainability
Gilead <sup>3</sup>	Clinical value	Investment in R&D, cost of R&D	Differential pricing
Sanofi⁴	Value to patients, value to society	Need to support ongoing trials, size of target population	Affordability
Takeda⁵	Value to patients	Commitment to innovation	Affordability, sustainability
Vertex <sup>6</sup>	Benefit to patients	Revenues fund ongoing research, scientific innovation	Access to all eligible patients

[1] Biogen. Available at: <a href="https://www.biogen.com/responsibility/reporting-and-principles.html?accKey=7">https://www.bms.com/about-us/responsibility/position-on-key-issues/pricing.html?accKey=7</a>; [2] BMS. Available at: <a href="https://www.bms.com/about-us/responsibility/position-on-key-issues/pricing.html?accKey=7">https://www.bms.com/about-us/responsibility/position-on-key-issues/pricing.html?accKey=7</a>; [4] Sanofi. Available at: <a href="https://www.bms.com/about-us/responsibility/position-on-key-issues/pricing.html?accKey=7">https://www.bms.com/about-us/responsibility/position-on-key-issues/pricing.html?accKey=7</a>; [5] Takeda. Available at: <a href="https://www.bms.com/about-us/responsibility/position-on-key-issues/pricing.html?accKey=7">https://www.bms.com/about-us/responsibility/position-on-key-issues/pricing.html?accKey=7</a>; [6] Vertex Available at: <a href="https://www.bms.com/about-us/responsibility/position-on-global-pricing-eq.pdf">https://www.bms.com/about-us/responsibility/position-on-key-issues/position-on-key-issues/position-on-key-issues/position-on-key-issues/position-on-key-issues/position-on-key-issues/position-on-key-issues/pos











# Modified ICER approach that incorporates concept of sustainable innovation into the value calculation

ICER thresholds that equalise R&D incentive between rare and non-rare diseases<sup>1</sup>



[1] Adapted from Berdud M. et al. (2020)

HST: Highly specialised technologies; ICER: Incremental cost-effectiveness ratio; QALY: Quality-adjusted life year; R&D: Research and development







### MCDA approach: 'value-based' price relative to analogues from outside the indication



#### Annual cost (accounting for DoT) vs. weighted value score Adjusted for prevalence



DoT: Duration of treatment; MCDA: Multiple-criteria decision analysis





Target price range?



## Approaches to closing the gap



MEAs: Managed entry agreements; P&R: Pricing and reimbursement; WTP: Willingness to pay



## Approaches to closing the gap



WTP: Willingness to pay



**Ensuring internal trust and confidence in the pricing strategy** is especially important in these cases...

Key questions...

What are the principles that underpin your company pricing decisions?

2

What process was taken to define the pricing strategy? What is the rationale for the price?

(e.g., why price X and not Y?)

# Conclusions

Low-cost comparators can create a 'pricing gap' for orphan medicines The lack of agreed rare disease pricing framework creates uncertainty and distrust between payers and manufacturers

A robust pricing strategy and process that is developed around principles of value, sustainable innovation and affordability is needed In addition, need to advocate for European payer frameworks that balance value, affordability and orphan innovation economics

ICER: Incremental cost-effectiveness ratio; MCDA: Multiple-criteria decision analysis; WTP: Willingness to pay