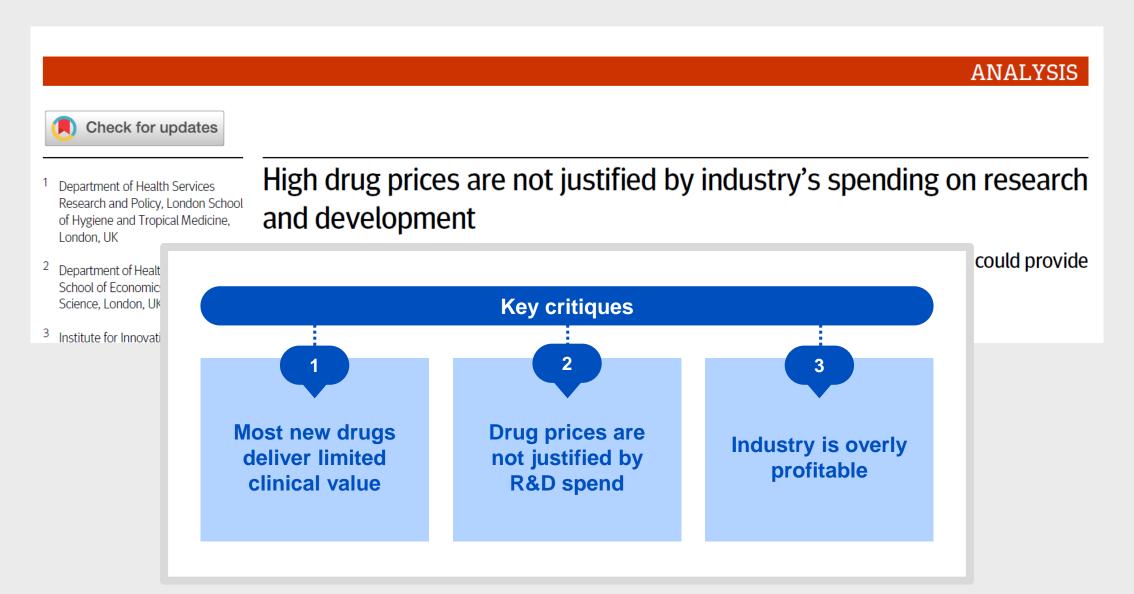
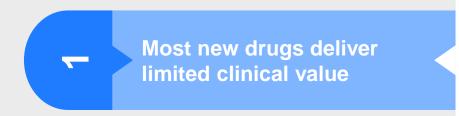
DOLON

A critique of the critique: Pharmaceuticals value, price and profitability

Emilie Neez, Associate Director

Angelis et al. BMJ editorial

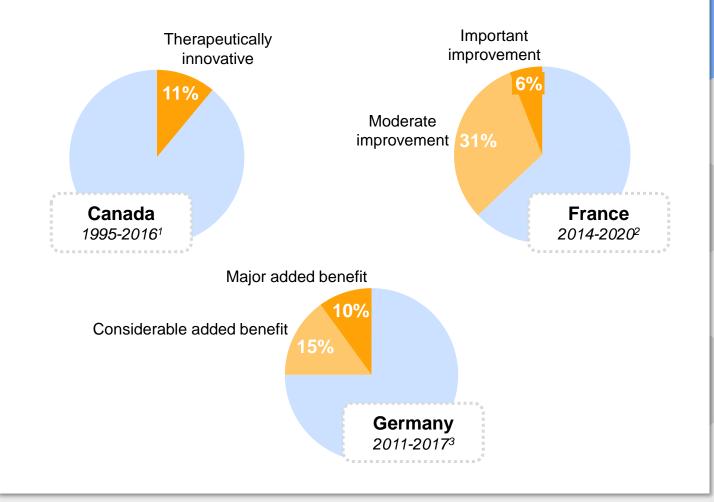




Industry is overly profitable

Payers are sceptical

Selected systematic reviews of added therapeutic value ratings of new drugs



Sources. 1. Lexchin (2018). 2. Kergall (2021). 3. Wieseler (2019).

Most new drugs deliver limited clinical value

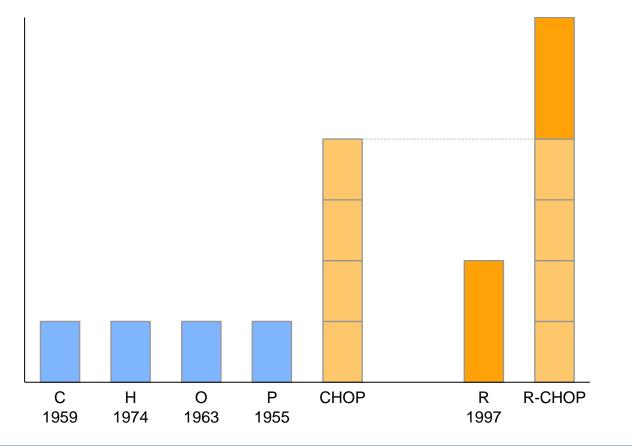
Drug prices are not justified by R&D spend

Industry is overly profitable

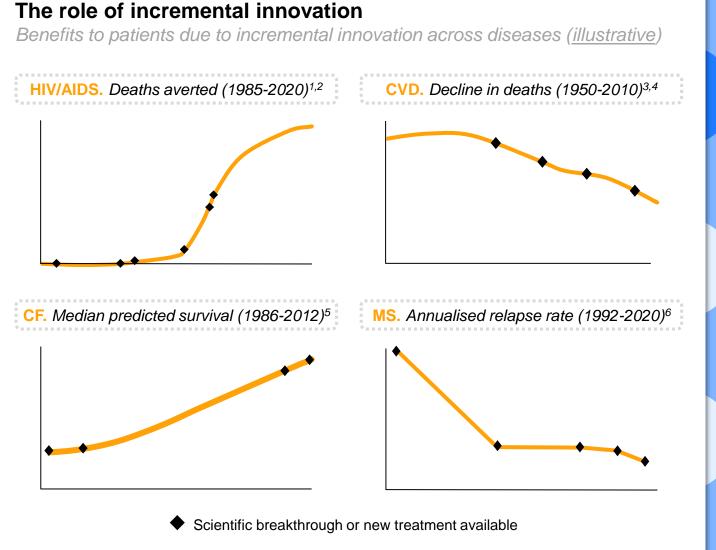
No magic bullet: the case of DLBCL

Benefits to patients due to incremental innovation across diseases (illustrative)

Patient outcomes

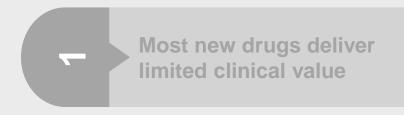






Sources, 1, Dadonaite (2019), 2, Villaluz (2020), 3, NHLBI (2012), 4, Kishore (2018), 5, Mogayzel (2014), 6, Yang (2022),

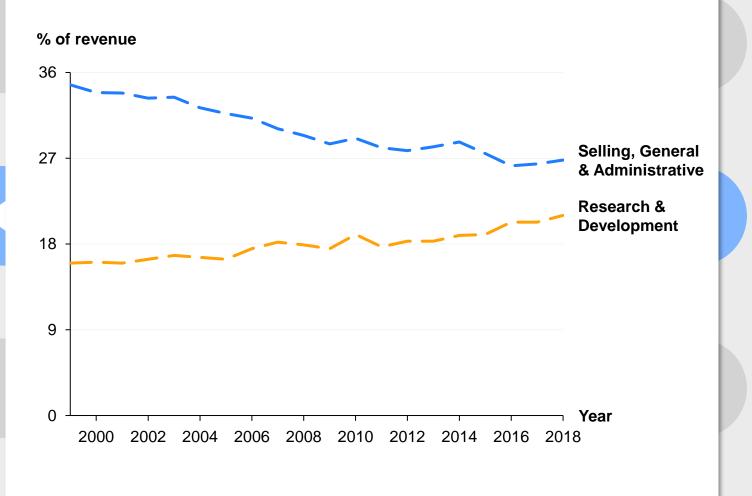
D D L D N



Industry is overly profitable

Industry priorities: it's not R&D?

Average SG&A and R&D spending for the 15 largest pharmaceutical companies1



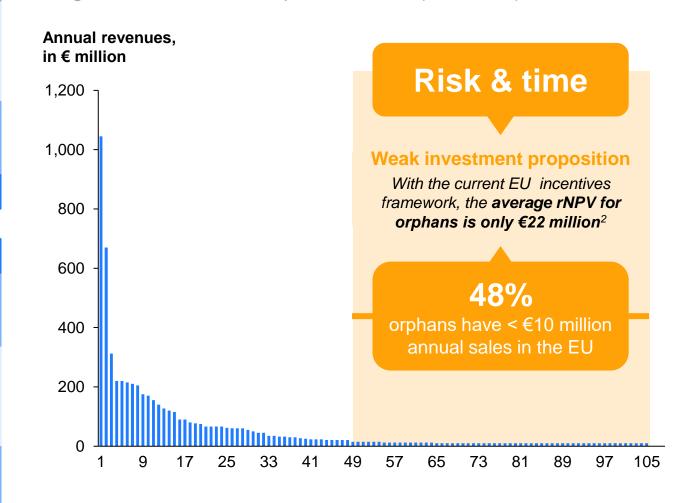
Sources. 1. Angelis (2023).



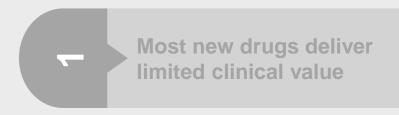
Industry is overly profitable

Look at revenue, not price

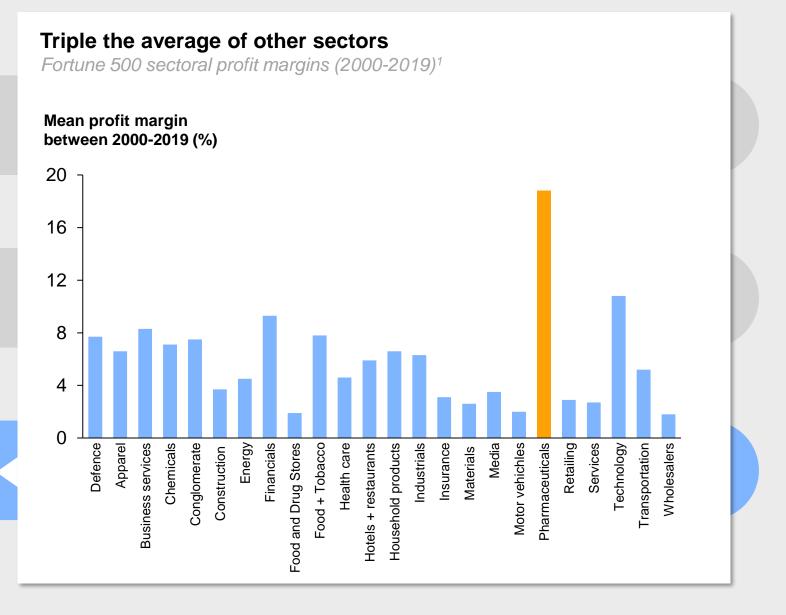
Average annual revenues for orphan medicines (2008-2016)¹



Sources. 1. European Commission (2020). 2. Dolon (2023).



Industry is overly profitable



1. Hawksbee (2022).

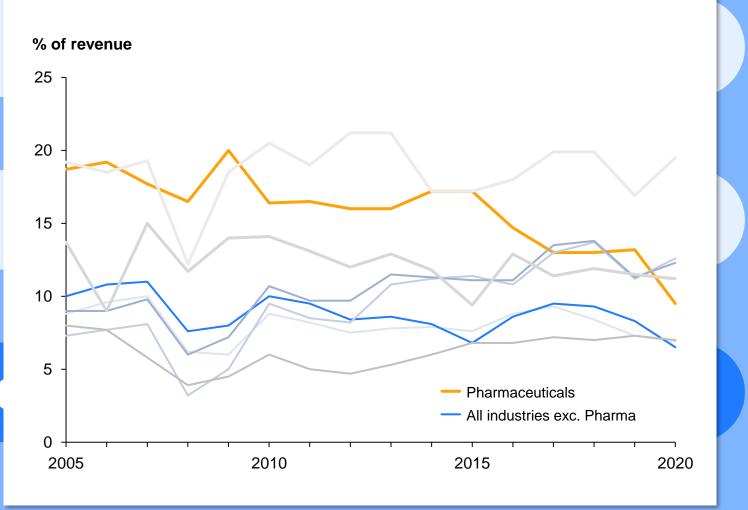
Most new drugs deliver limited clinical value

Drug prices are not justified by R&D spend

Industry is overly profitable

No longer so profitable

Aggregate net operating margin in the pharmaceutical and other industries^{1*}



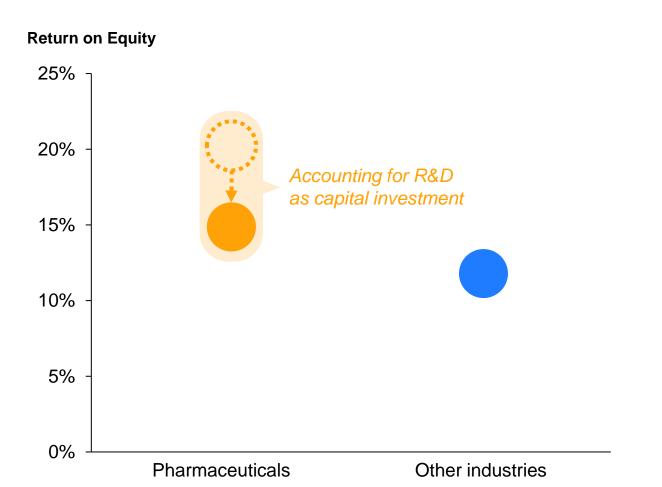
*Additional industries shown in the graph include: manufacturing; computer, electronic & optical products; other high-tech industries; construction; medical & dental instruments, and software. 1. OECD (2023)



ndustry is overly profitable

Use the right measure

Return on equity of 320 US pharmaceutical firms vs other industries (2001-2020)1



. Goncharov (2023).

BMJ authors recommendations



Link patents
systems to added
therapeutic value



Require
comparative
evidence for
regulatory approval



Clarify R&D
priorities and use
public research
funds to support
them



Retain (partial)
ownership where
public funds
contribute to R&D



Reform P&R systems to reward more clinical benefits

Akin to European Commission direction of travel



Orphan medicines bring tremendous value to patients, carers, and society



Rare disease space presents a challenging economic proposition in Europe

Thank you!



Industry profitability is in line with that of other industries



Understanding the dynamics of biopharmaceutical innovation requires nuance



Policymaking based on oversimplifications comes with high risks for Europe