

## **Dr Shane Gannon, Sector Lead for Pharma and Life Science Consulting - PwC Ireland**



Shane is the sector lead for pharma and life science consulting in PwC Ireland and has led engagements in Europe, the US and Ireland focusing on M&A, strategy and large-scale transformational change.

Shane is a former research scientist and holds a Ph.D. in Pharmacology from University College Dublin and a B.Sc. in Biotechnology from Dublin City University.

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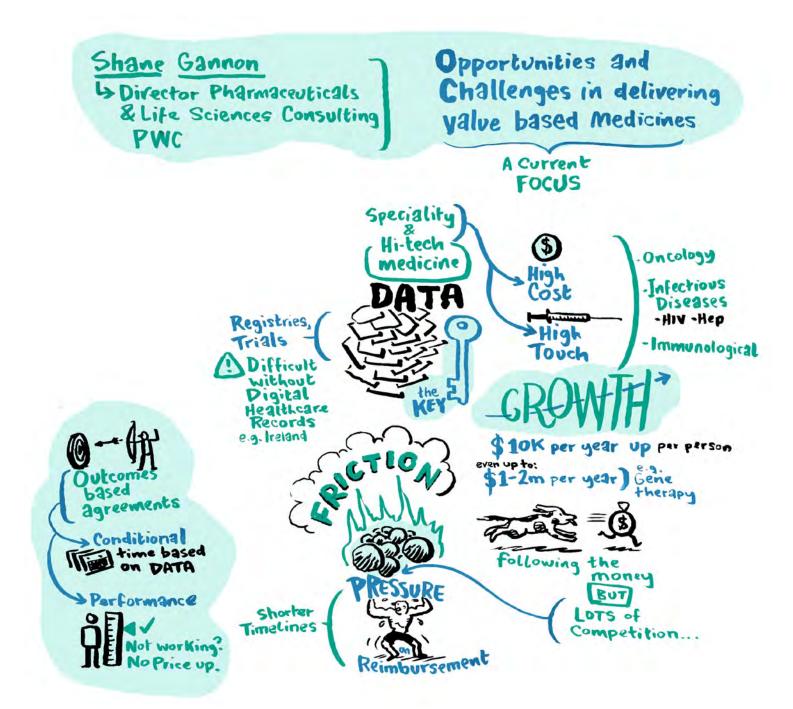












## Focusing on value

Opportunities and challenges in delivering value based medicines





# A focus on value for all stakeholders will be increasingly important given current trends in the industry



The innovator pharmaceutical industry is increasingly focused on developing high tech specialty medicines



Specialty medicines are often used to treat more serious diseases and are more expensive than traditional therapies



Drug development pipelines and accelerated access programmes are increasingly focused on these indications



Ensuring timely access and value for money for new treatments will increasingly require the use of additional data to validate effectiveness

# Several large pharma companies have identified high tech or specialty medicines as a core driver of growth



New GSK to deliver step-change in growth and performance over next ten years driven by high-quality Vaccines and Specialty Medicines portfolio



Our strategy is to build a leading, focused medicines company powered by advanced therapy platforms and data science.



Our R&D pipeline positions us with a clear focus on becoming a global specialty innovator in oncology, immuno-oncology, neurology, and immunology



We focus on researching, developing and marketing specialty-focused innovative medicines that provide significant clinical benefit and value

## What are specialty medicines?

### What are specialty medicines



#### **Highly complex:**

- Treatment often initiated by specialists
- Generally injectable and/or not self-administered
- Often biologics



#### High touch

- Require extensive or in-depth monitoring/patient counselling
- Require an additional level of care in the supply chain (e.g. refrigeration, specialised handling and distribution)



#### **High Cost**

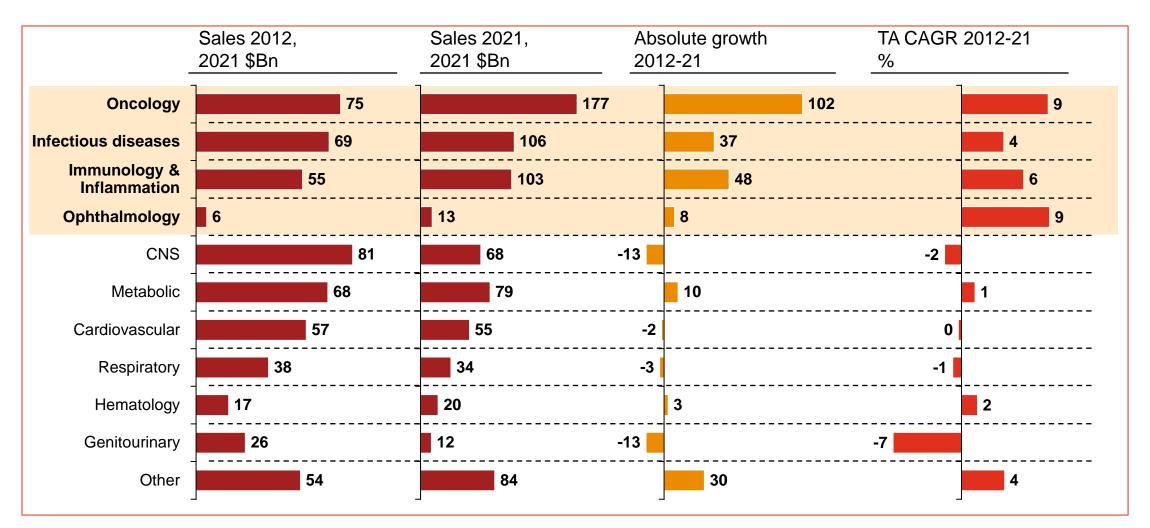
- Typically very expensive in both total and per patient cost
- Often used to treat very costly diseases

## **Leading specialty medicine areas**

- Oncology
- Rare diseases
- Cell and gene therapies
  - Neurodegeneration
  - Inherited retinal dystrophy
- Immunology and inflammation
  - Multiple Sclerosis
  - Psoriasis
  - Rheumatic disease
- Infectious diseases
  - Viral hepatitis
  - HIV antivirals
- Ophthalmology
  - Macular degeneration

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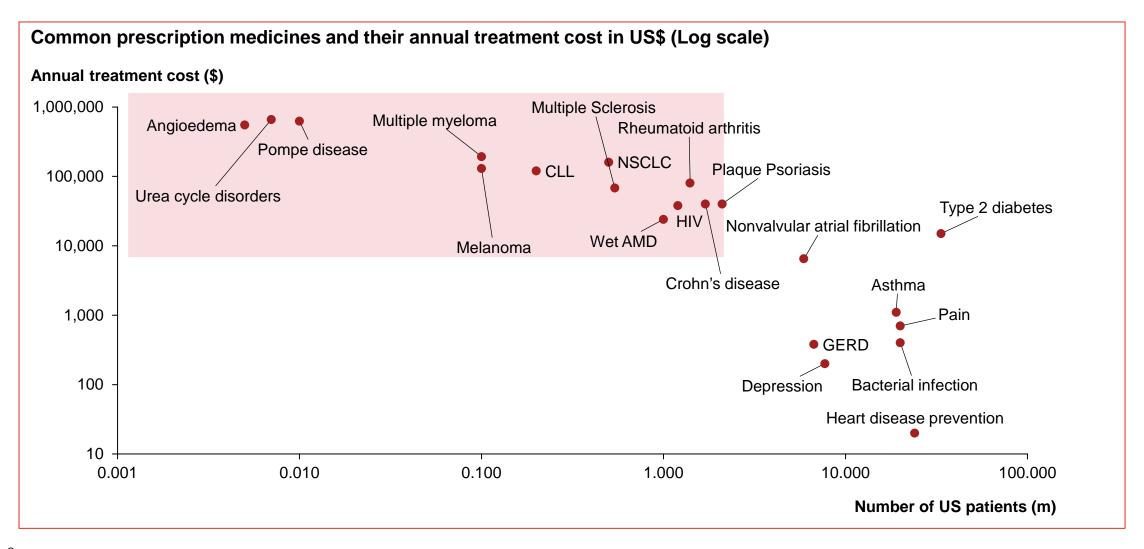
## Specialty indications have been significant industry growth drivers in the last decade



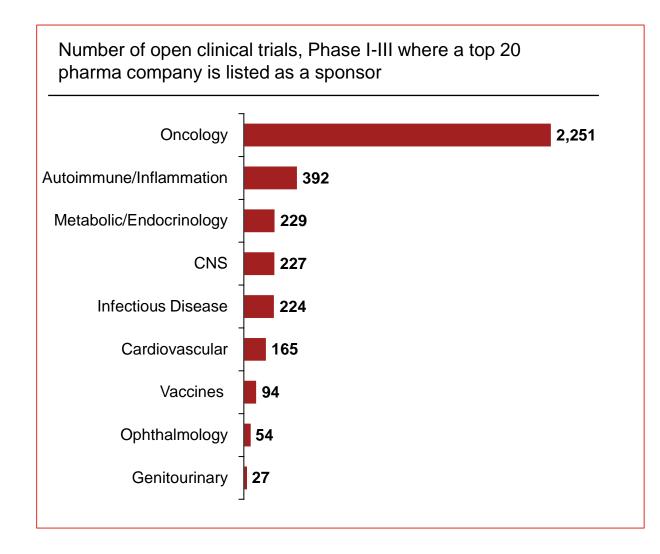
#### Notes:

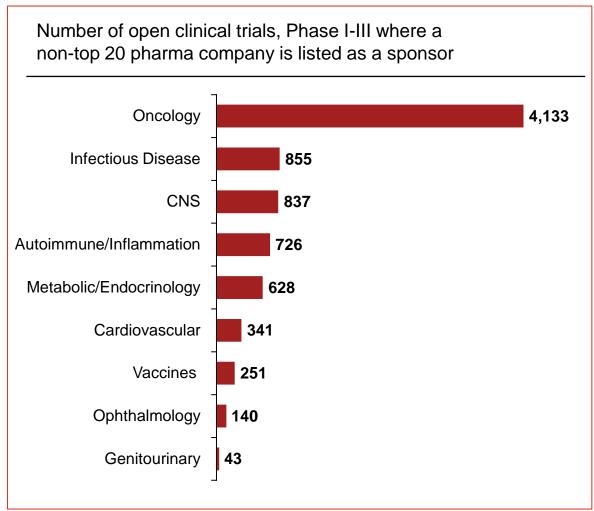
- Projections exclude COVID vaccines and therapeutics
- Other category includes: musculoskeletal, gastroenterology, toxins and legacy product portfolios

## Specialty medicines tend to be more expensive and focused on smaller patient populations

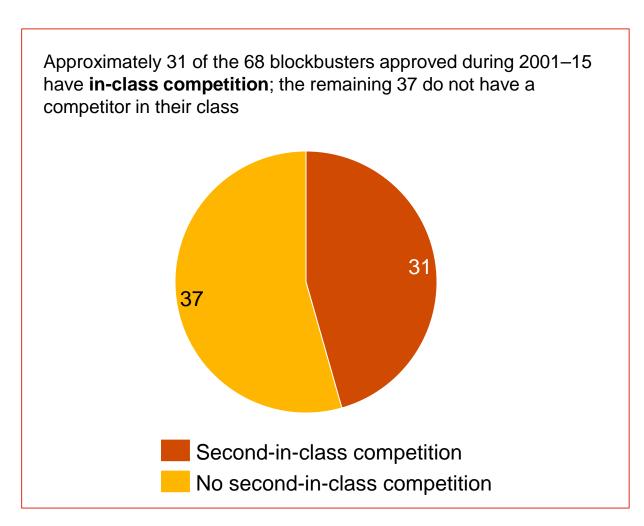


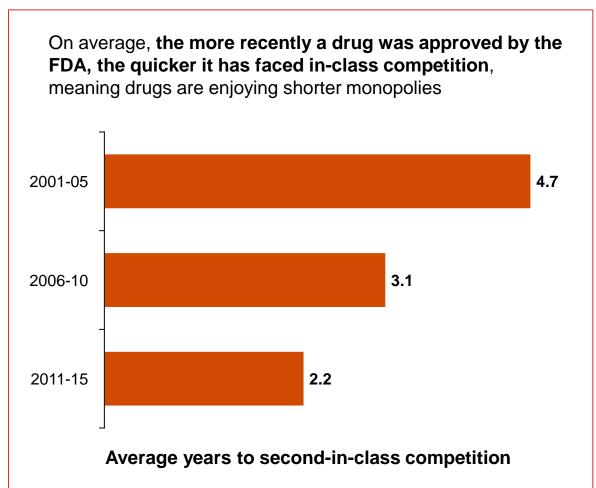
## This has led to significant R&D competition particularly in Oncology





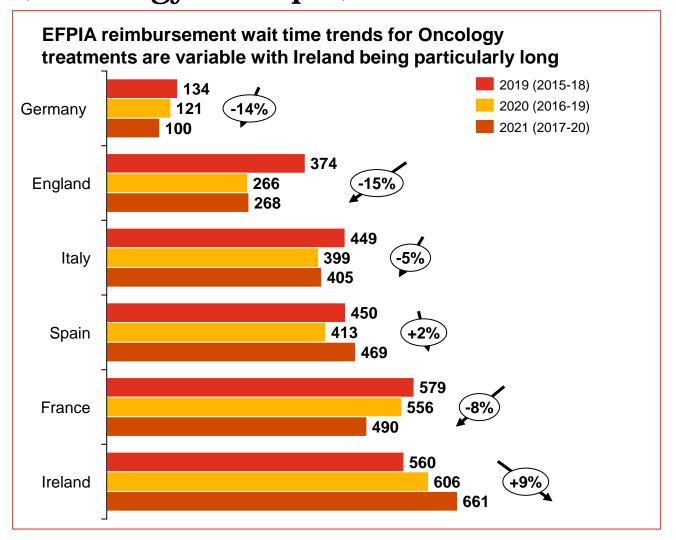
# This competition is contributing to falling market exclusivity periods for many first in class products

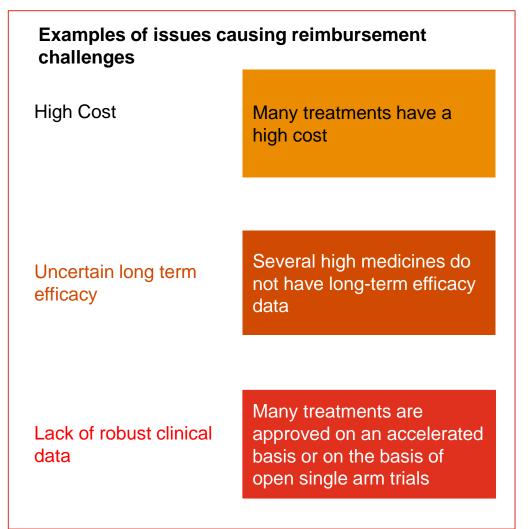




Source: Informa Pharmaintelligence

## Securing access in Europe can be a time consuming process (Oncology example)





Source: EFPIA; IQVIA

# Challenges in reimbursement have led to the increased use of managed access agreements

Finance based agreements		Outcomes based agreements	
Population level	Patient level	Conditional coverage	Performance based
Simple discount or rebate	Dose cap	Coverage with evidence development	Full or partial repayment of costs in patents where treatment outcomes
Free stock	Limit on treatment duration		
Cap on overall reimbursement costs	Per-patient cost threshold		
Price/volume agreements			

# Outcomes based agreements are becoming popular in the case of Cell and Gene Therapies

Country	Primary Reimbursement model	Price approach	Data collection for reimbursement
France	price adjustments possible	based on subsequent clinical performance	Based on existing registries in place
United Kingdom			Long term clinical trial data and routine clinical data collected by the NHS
Germany		individual patient response to treatment	Generally not disclosed or based on existing registries in place
Italy			Dedicated government registry/tool
Spain			

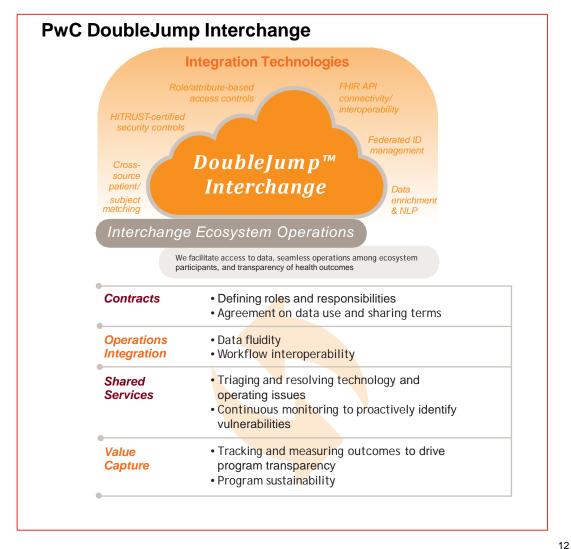
## Examples of data tools include Valtermed and DoubleJump Interchange

# Sistemas de información corporativos en el ámbito de la política farmacéutica: VALTERMED y BUSCADOR DEL ESTADO DE FINANCIACIÓN DE LOS MEDICAMENTOS

Web based tool that is a collaboration between the Spanish MoH, the regions (budget holders), healthcare professionals and the pharmaceutical industry

#### For CAR-T the tool collects:

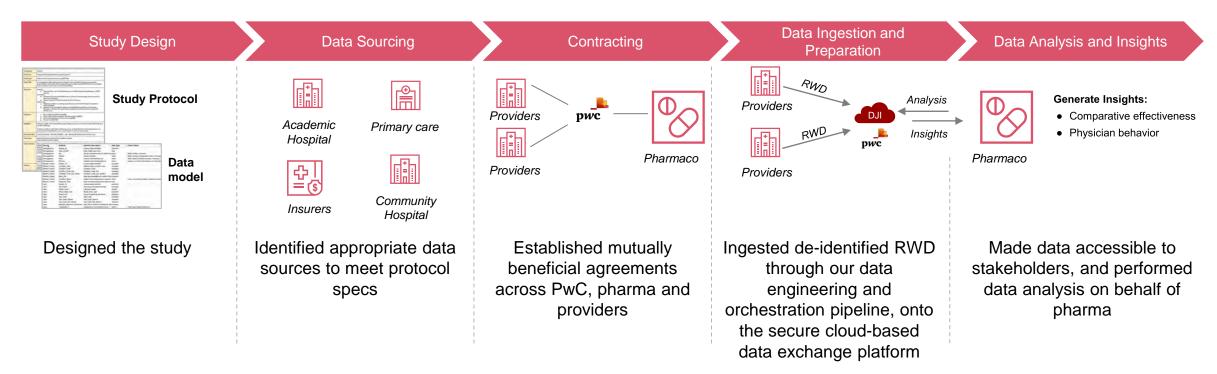
- General patients details
- Disease characterisation at diagnosis and subsequent medical history
- CAR-T production and administration information
- Post infusion monitoring of disease status
  - Response and survival (evaluated using predefined criteria at set times)
  - Safety



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# PwC orchestrated a provider-pharma collaboration to use real world data to reveal comparative treatment outcomes

Clinical trials showed that an oncology treatment was effective as front-line therapy, but it was not being adopted rapidly by clinicians due to a lack of evidence for subsequent therapies. PwC delivered the evidence to address this challenge.



#### **Outcomes**

This study will reveal the full therapeutic sequence for this cancer type that's being used in the real world at both academic and community hospitals. Publication of these results will provide evidence to practicing clinicians that the client's drug can be used effectively with common subsequent therapies.

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