

Paul Cornes:

The importance of Gastrointestinal Cancers in Europe – and why biosimilars matter.



Comparative Outcomes Group, Bristol, UK

ESO Task Force Advisory Board on Access to Innovative Treatment in Europe

European School of Oncology



Dr Paul Cornes

Disclosures

- Honoraria received:
 - Accord Healthcare
 - Amgen
 - Astro Pharma
 - Biogen
 - European Commission
 - Generics& Biosimilar Medicines Association Australia
 - Global Academy of Health Sciences
 - Medicines for Europe/European Generics Association
 - Merck Serono
 - Mylan
 - Napp
 - Pfizer/Hospira
 - Sandoz
 - Teva



Why are we here?





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Publication

Countries

Programmes

Governance

About WHO

Essential medicines and health products

Access to essential medicines as part of the right to health

Access to essential medicines as part of the right to the highest attainable standard of health ("the right to health") is well-founded in international law. The right to health first emerged as a social right in the World Health Organization (WHO) Constitution (1946)* and in the Universal Declaration of Human Rights (1948)*. The binding International Covenant on Economic, Social, and Cultural Rights (ICESCR) of 1966* details the

66 The States Parties to this Constitution declare...

The enjoyment of the highest attainable standard of health is one of the fundamental rights of every human being without distinction of race, religion, political belief, economic or social condition.

progressive realization of the right to health through four concrete steps, including access to health facilities, goods and services.

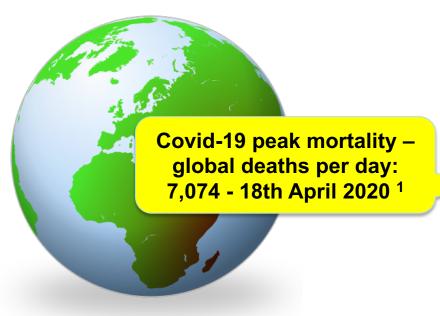
The authoritative General Comment 14 (2000)* further applies the principles of

Why Cancer still matters today

Even in the current crisis – cancer remains the greatest global threat to life Covid-19 peak mortality global deaths per day: 7,074 - 18th April 2020 ¹

Why Cancer still matters today

 Even in the current crisis – cancer remains the greatest global threat to life



Cancer - 26,040 global deaths per day ²

Coronary heart disease - 25,840 deaths per day ²

Diabetes - 4,400 deaths per day ²

Mosquito born infections - 1,205 deaths per day ²





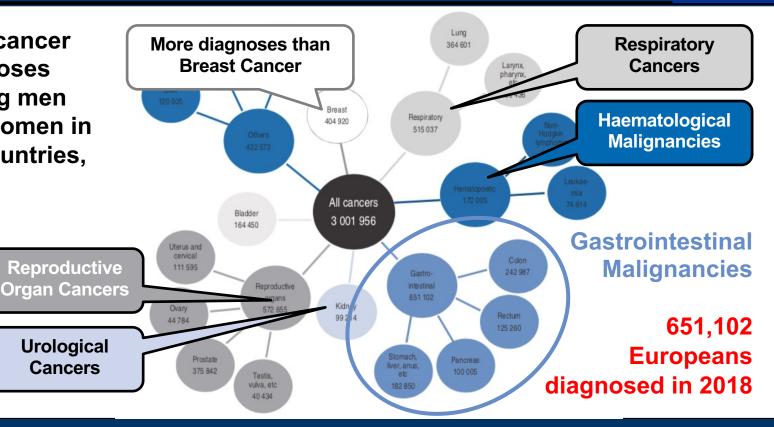




What's the cost of GI cancer in Europe?



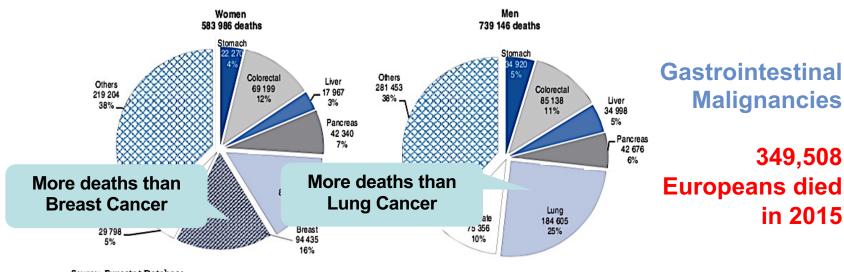
 Main cancer diagnoses among men and women in EU countries, 2018



What's the cost of GI cancer in Europe?



European cancer mortality, 2015



Source: Eurostat Database.

StatLink | http://dx.doi.org/10.1787/888933834509

HumanWhat's the cost of GI cancer in Europe?



Gastrointestinal Malignancies

651,102 Europeans diagnosed in 2018

349,508 Europeans died in 2015

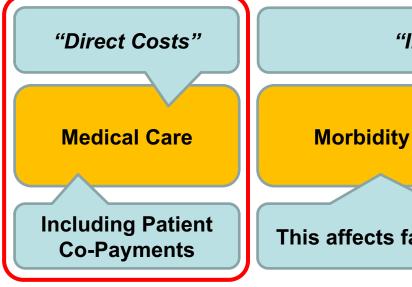
Morbidity

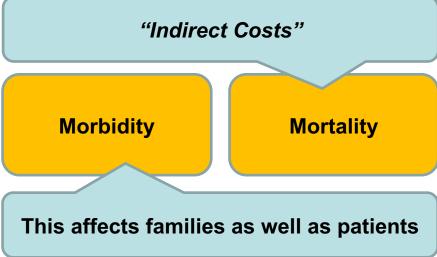
Mortality





The Economic perspective





Gastrointestinal Malignancies

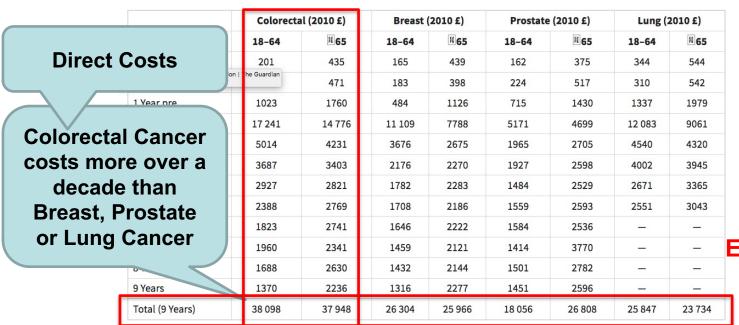
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■ The Economic perspective – NHS England Data ²



Gastrointestinal Malignancies

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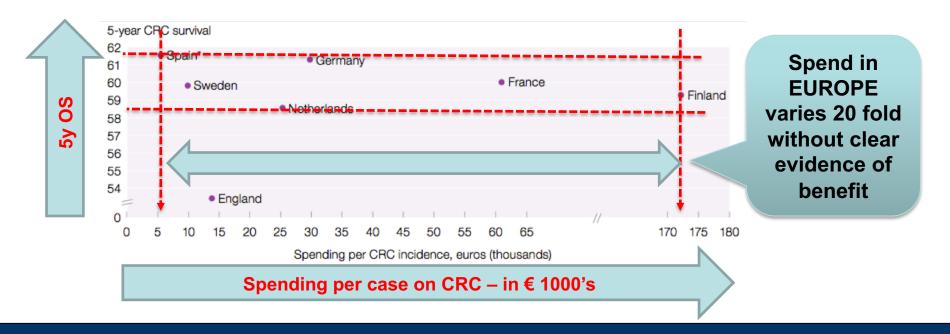
The Economic perspective – USA Data ²



European Data shows very different performance between Health Systems



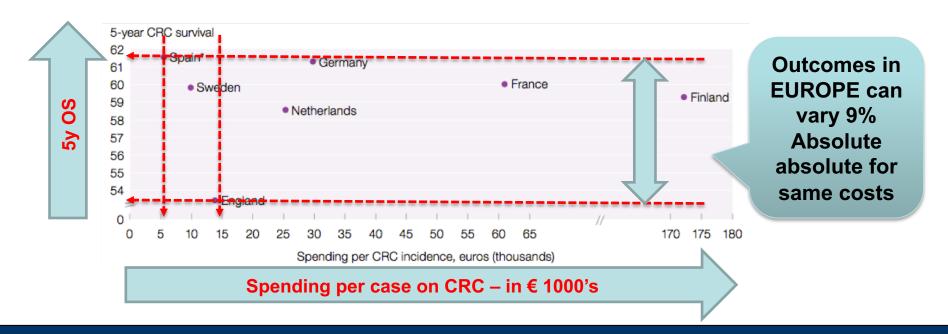
Colorectal cancer (CRC) mortality rates vs spend in 7 European countries ¹



European Data shows very different performance between Health Systems



Colorectal cancer (CRC) mortality rates vs spend in 7 European countries ¹



European Cancer Plan – Launched 3rd February 2021





Available languages: English



Press release | 3 February 2021

Brussels

Europe's Beating Cancer Plan: A new EU approach to prevention, treatment and care

Policy to improve outcomes is simple

1

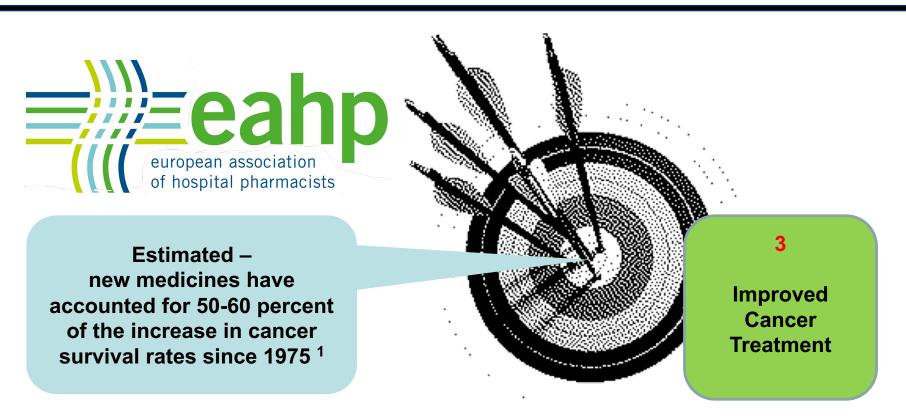
Prevention through lifestyle changes & medicines 2

Early
Diagnosis and
Screening

3

Improved Cancer Treatment

The importance of cancer medicine:



The cost of Innovation for Cancer in Europe: Trends 2008 to 2018

- Innovation in cancer medicine has accelerated
- New approvals by European Regulator ¹
 - 2002 2011
 - 2012 2018

THEN

4 new Cancer Medicines each year 2001–2011 **NOW**

10 new Cancer Medicines each year 2012-2018 2019-2020

109 new
Cancer
Indications
approved in
two years ³

2018: None cost less than \$150,000²

Cost pressures on cancer in Europe: Trends 2008 to 2018 ¹

More cancer patients

More lines of drug treatment for each patient.

> **Higher prices** of new medicines

growing share Spend on Cancer **Medicines** In Europe doubled from

€32.0 billion

From 17% to 31% in 2018. €14.6 billion to

Cancer medicines consume a

of the cancer

budget.

Higher proportion of cancer patients being treated with medicines

Longer duration of drug treatments

Nearly one third of our cancer budget is now spent on medicines

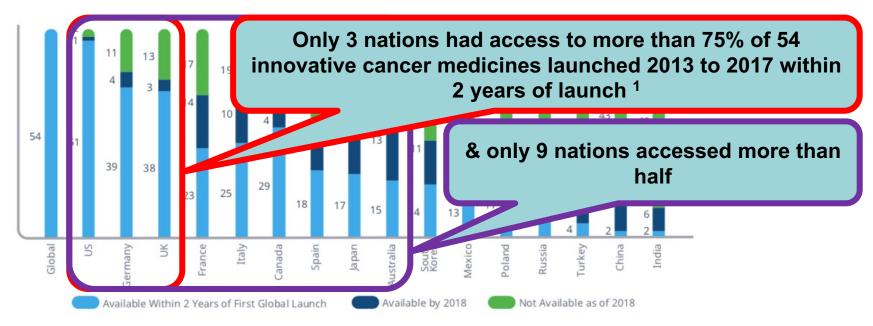
The reality of cancer care now

"We must confront a stark reality: cancer care is not affordable for most patients, many payers, and nearly all governments. This is a real and immediate issue across the world"

WISH foundation report



Access to innovative cancer medicines is a global problem:

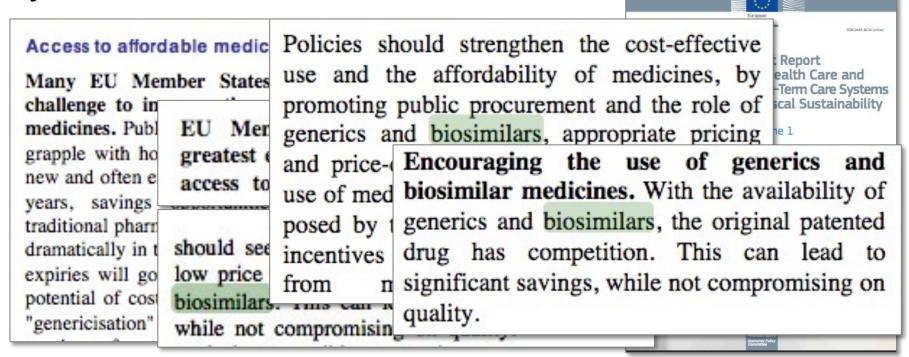


Only patients in the United States, Germany and United Kingdom have access to more than 40 of the 54 oncology medicines initially launched between 2013 and 2017, due to manufacturers not filing for regulatory approval, delays or denials of approval, or manufacturers awaiting the results of reimbursement negotiations prior to launching the drug in the country

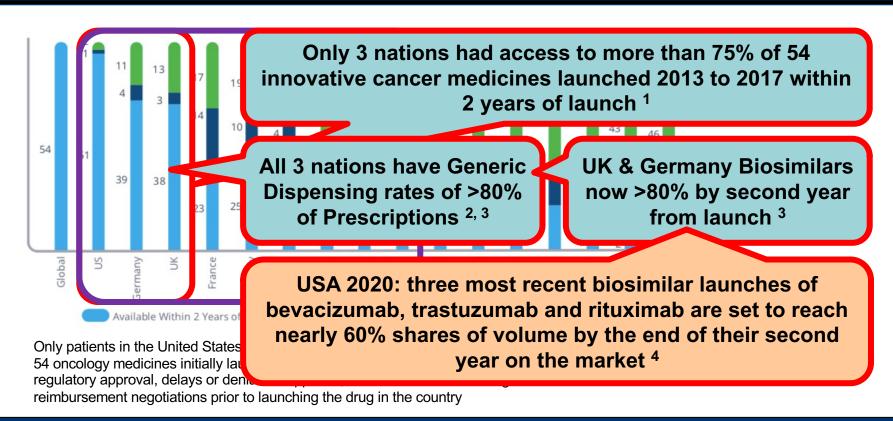




Key recommendations include



Access to innovative cancer medicines is a global problem:



Sustainable Innovation – funded through biosimilars

- £320M Annual savings from UK Biosimilar and Generic programme for just ten medicines
 €353M
- Annual Cost of the UK Cancer
 Drugs Fund to ensure access to innovative medicines £340M
 €375M







Targeted Therapies

- Bevacizumab
- Ramucirumab
- Ziv-aflibercept
- Cetuximab
- Panitumumab
- Trastuzumab

Immunotherapies

- Ipilimumab
- Nivolumab
- Pembrolizumab

Biologic drugs indicated in GI Cancers ¹



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Furopean Patents expired before January 2021

Bevacizumab – 3 biosimilars already approved and 5 under review by European Regulators





Targeted Therapies

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- Trastuzumab



Immunotherapies

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European Patents expired or expiring 2024





Targeted Therapies

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European Patents expired or expiring 2026

What practical targets will a Hospital Pharmacist set for biosimilars?

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1. QSE

Biosimilars must be
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Quality, Safety and
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They must have no significant difference in immunogenicity – enabling brand switching with each new drug tender cycle

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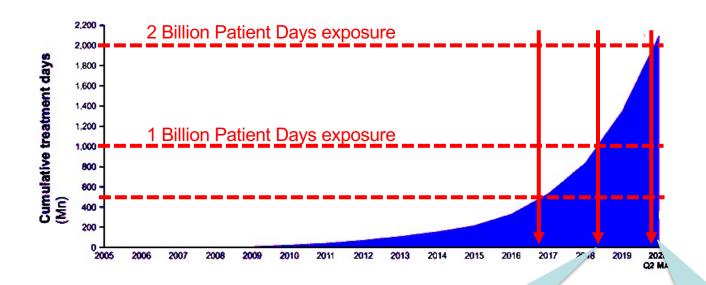
2. Switching

They must have no significant difference in immunogenicity – enabling brand switching with each new drug tender cycle

3. Extrapolation

They must match the potency of the Reference drug in all modes of action – enabling pharmacies to potentially stock only one brand for all approved indications

Real world experience with European Approved Biosimilars



1 Billion Patient Days Exposure reached 2018

2 Billion Patient Days Exposure reached 2020

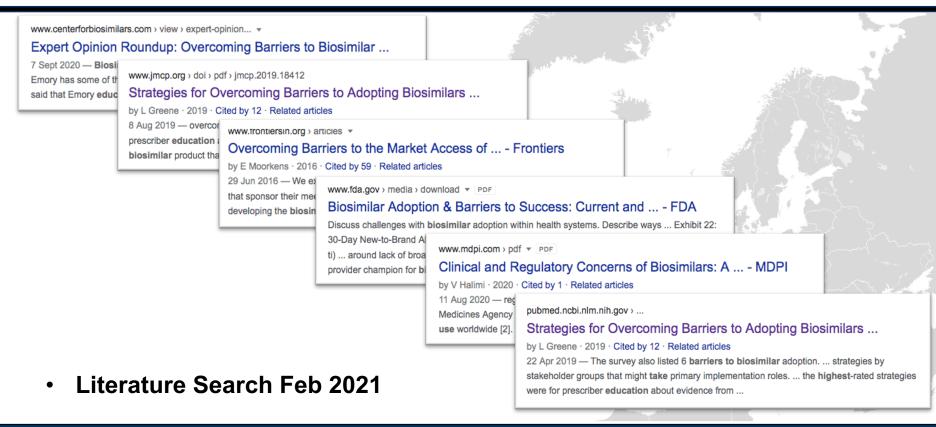
What do we expect from European Approved Biosimilars?

- More than 14 years use in Europe ¹
- More than 70 Biosimilars approved & marketed
- More than 2 Billion documented Patient Days ² Exposure
- Safety of switching to biosimilars has been validated in more than 170 clinical studies³
- For many European Nations, biosimilar use now far outnumbers originator brand prescriptions each year²
- European approved biosimilars have all maintained approval without showing a different risk or benefit profile to the reference drug ^{2,4}

Clinically Similar

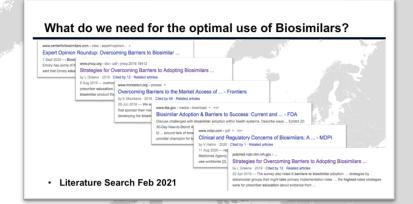
Economically Different

What do we need for the optimal use of Biosimilars?



What do we need for the optimal use of Biosimilars?

- In a recent survey of 300 specialty pharmacy professionals ¹
- The highest-rated strategies to overcome barriers to biosimilar adoption were for prescriber education

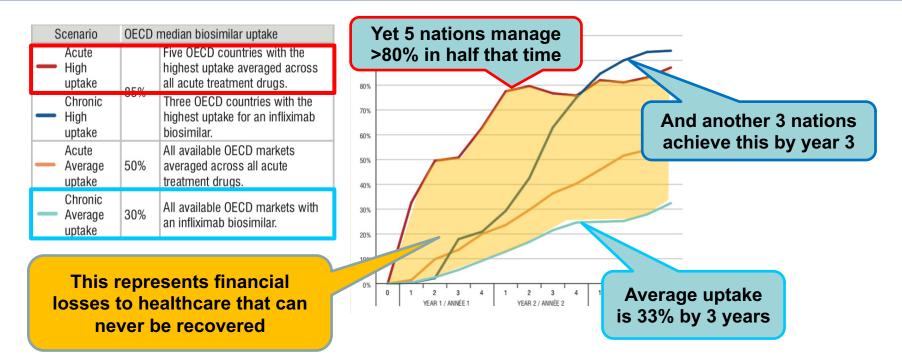


Hospital Pharmacists

Physicians

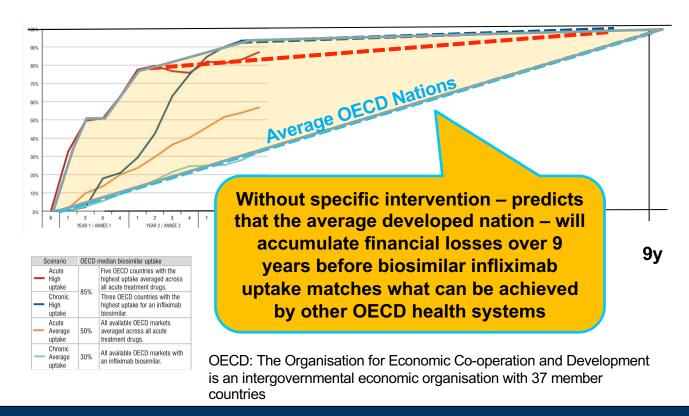


Biosimilar Infliximab – lessons learned from uptake in 37 developed countries

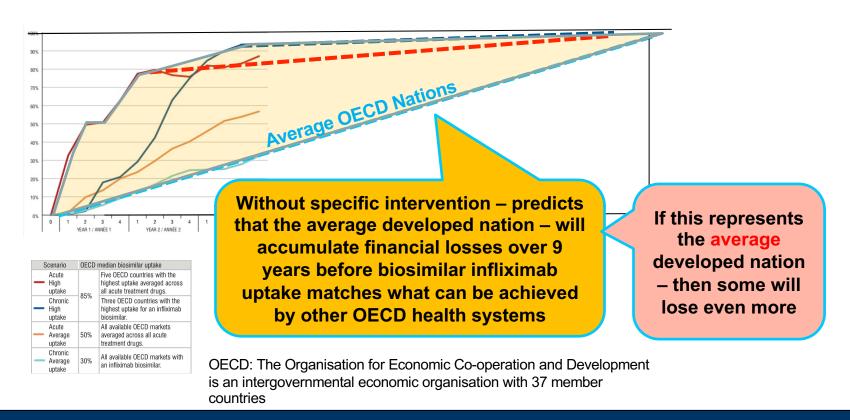


OECD: The Organisation for Economic Co-operation and Development is an intergovernmental economic organisation with 37 member countries

Biosimilar Infliximab – lessons learned from uptake in 37 developed countries



Biosimilar Infliximab – lessons learned from uptake in 37 developed countries



Why every Healthcare system can benefit from biosimilars

Where there is full access

Constraints on the drug budget will decline and headroom for innovation may be created

Where there is partial access or with copayment

Reimbursement may become feasible; direct costs for patients may go down

No access / biologics in general unaffordable

Patients may get access to lifesaving medicines with biosimilars

Conclusions



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Cancer Care is becoming UNAFFORDABLE

the treatment advances we hear of at EAHP

2021 may be implemented in just a few wealthy nations

GI Cancers Matter the Human Cost and Financial Cost is significant

Europe shows 20x variation in costs for no benefit & 9% OS difference without cost

Patents expiring soon

mean that Biosimilar
Brands of GI cancer
drugs are set to deliver
significant savings that
we can reinvest into
improving cancer care