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Brian Smith

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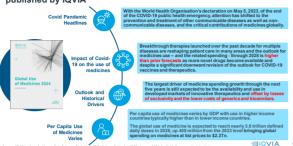


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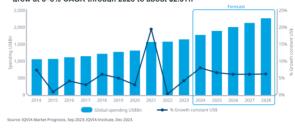
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Key highlights from the Global Use of Medicines 2024 report published by IQVIA



The global medicine market — using invoice price levels — is expected to grow at 5–8% CAGR through 2028 to about \$2.3Tn



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Global spending, including COVID-19 vaccines and therapeutics, is forecast to exceed pre-pandemic outlook by \$1.2Tn to 2028

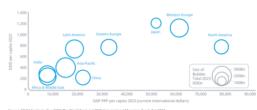
hanges in the historical and projected global medicine spending model due to COVID-19, 2019–2028, US\$Bn



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Per capita use of medicines varies by GDP with use in higher income countries typically higher than lower-income

Japan and Western Europe have more than double the use of most other region



Notes: Chart represents DOW Trainbase estimates of global defined dealy doses (DOC). These estimates are based on DOW, audited data and application of WHO COO Section 10 YM, MONG as well as additional DOC estimation assumptions described by the DOW trainbase (see Section 10 YM, MONG as well as additional DOC estimation assumptions described by the DOW trainbase (see Section 10 YM, MONG as well as additional DOC estimation assumptions described by the DOW trainbase (see Section 10 YM, MONG as well as additional DOC estimation assumptions described by the DOW trainbase (see Section 10 YM, MONG as well as additional DOC estimation assumptions described by the DOW trainbase (see Section 10 YM, MONG as well as additional DOC estimation assumptions described by the DOW trainbase (see Section 10 YM, MONG as well as additional DOC estimation assumptions described by the DOW trainbase (see Section 10 YM, MONG as well as additional DOC estimation assumptions described by the DOW trainbase (see Section 10 YM, MONG as well as additional DOC estimation assumptions).

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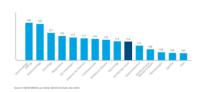
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Medicine use has been growing across therapy areas since 2019, with highest growth in immunology, endocrinology, and oncology

Defined daily doses (DDD) in 2023 across select therapy areas indexed to 2018 values (2018 value = 10



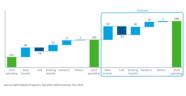
The dramatic growth in patient access to novel medicines is driving higher use of medicines in

immunology has seen expanded access to a variety of biologic and small molecule therapies, but as specialty therapies, access is often

Endocrinology as a group of hormonal regulating therapies, including diabetes, has also grown at double the global average rate of increase in

Oncology, the largest therapy area by spending, increased 21% over the past five years by volume, an average of 3.9% per year, outpacing population growth and indicative of growing rates and durations of cancer treatment. Spending in Europe is expected to increase by \$70Bn through 2028, driven by new brands $\,$

Spending and growth drivers in France, Germany, Italy, Spain, and UK 2018–2028 (const US\$Bn)



It is possible that new brand growth will be lower while older established brands may grow more after they have demonstrated value in the market and negotiated market access; these dynamics represe an area of similar untreatable. Medicine sponding in the lost the European markets is expected oil normales by 900% on the med five years, by forms 500% in the next five years, by forms 500% in the past five years but with large within the past five years but with large within the past five years for years years years for years years

Ukraine conflict.

Innovation is expected to be significantly strong in the next five years despite expected greater scrutiny of the value of new medicines in the form of health technology assessments.

The impact of exclusivity losses will reach \$32Bn over 5 years, with more than half due to the availability of biosimilars

EU4+UK impact of brand losses of exclusivity 2019-2028, (US\$Bn



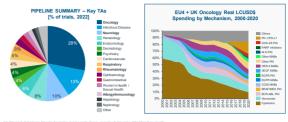
The impact of LOEs in the fine largest European markets (Germany Funce, bills, Spain, and the UK), are expected from one than tiple one on the next file or largest and more than the file or the next file or largest and more than file of the impact is expected to be biologics with \$17.08 or of the \$22.20 th staff impact.

The major signad is seen in 1023, 2025 and 2026 with parter carry of remarksmalls (Lucentif in) 1702, and 1900 part of the parter carry of remarksmalls (Lucentif in) 1702, and 1900 parter carry of the parter carry of remarksmalls in the suggest in the world, with the first boominal standards in the largest in the world, with the first boominal standards on 200 followings approved of belowings based on as solid and robust legist pathway prior duced in 2005, since then, the process has followed in special carry of the similar process has 60 of the highest number of lossinals.

re of overall impact. □IQVIA

Oncology continues to dominate the clinical pipeline

In recent years, the number of major mechanisms of action have increased from 3 to 15



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Other Key Therapy Areas

Global biotech spending is set to exceed \$890Bn by 2028, with growth slowing to 9.5–12.5% due to the impact of biosimilars

Specialty medicines will represent 43% of global spending in 2028 and more than 55% of total spending in leading developed markets.

The two leading global therapy areas — oncology and immunology — are forecast to grow 14–17% and 2–5% CAGR, respectively, through 2028.

Oncology is projected to add 100 new treatments over five years, contributing to an increase in spending of \$224Bn to a total of more than \$440Bn in 2028 and facing limiting new losses of exclusivity.

Treatments for autoimmune disorders are forecast to reach \$192Bn globally by 2028, driven by steadily increasing number of treated patients and new products, and offset after 2023 due to biosimilars.

Diabetes spending growth is slowing to low single digits in most developed markets and declining in some, especially net of rebates.

Global obesity spending has accelerated in the past two years from novel drugs with upside if more widely reimbursed.

New therapies in Alzheimer's and anxiety / depression are expected to drive spending growth in neurology.

The outlook for next-generation biotherapeutics includes significantly uncertain clinical and commercial prospects for cell, gene and RNA therapies, which will grow to \$33Bn in spending by 2028.

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NHS Priorities

The NHS has several short / medium term priorities to address in addition to achieving the long-term plan



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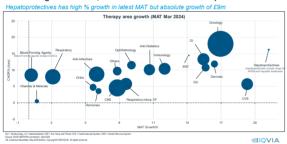
The UK Picture

 Retail market growth (MAT) +7.1% in value (+3.5% in volume) vPY, Hospital volume +3.3% despite a value growth at list price of 12.1%

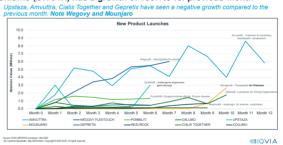


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Oncology is the fastest growing therapy area in the UK with an absolute growth of £1,329m in the MAT Mar 24 vs previous MAT



Mounjaro (£2656K) has largest growth of 291.8% vs. previous month, Oxlumo (£1764K) has a growth of 183.1% vs. previous month



20 21

On Moreon - Primite 2 Propriet - Value

Roche has highest share of UK market (5.9%) in latest quarter with biggest share gain (0.6%) compared to same quarter PY



Keytruda (38.1%) in Total UK Market, Apixaban (72.3%) in Retail and Keytruda (38.1%) in Hospital have highest value growth

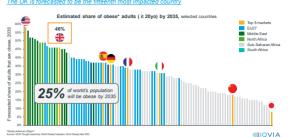
	Total UK Market		Retail Market			Hospital Market			
Product	MAT Mar 2024 Value	Growth% vs PY	Product	MAT Mar 2024 Value	Growth% vs PY	Product	MAT Mar 2024 Value	Growth? vs PY	
Keytruda	767.2 m	38.1%	Lipitor	465.8 m	36.2%	Keytruda	767.2 m	38.1%	
Eylea	660.0 m	-10.6%	Fostair	290.3 m	-0.5%	Eylea	660.0 m	-10.6%	
Kaftrio	619.6 m	-5.2%	Forxiga	285.9 m	65.8%	Kaftrio	619.6 m	-5.2%	
Kalydeco	590.8 m	-7.4%	Lixiana	267.0 m	47.9%	Kalydeco	590.6 m	-7.4%	
Lipitor	466.5 m	36.1%	Xarelto	261.2 m	-5.1%	Amgevita	458.4 m	25.0%	
Amgevita	458.4 m	25.0%	Freestyle Libre 2	251.7 m	47.4%	Xtandi	403.9 m	11.9%	
Xtandi	430.8 m	13.7%	Apixaban	196.7 m	72.3%	Stelara	355.8 m	19.7%	
Stelara	355.9 m	19.7%	Jardiance	183.3 m	24.7%	Darzalex	341.7 m	15.0%	
Darzalex	341.7 m	15.0%	Trimbow	158.8 m	26.6%	Hemilbra	334.1 m	11.9%	
Hemibra	334.1 m	11.9%	Lyrica	158.7 m	-18.8%	Phesgo	287.7 m	7.0%	

Pipeline Highlights 1

Obesity



Obesity is a major global health crisis, which is estimated to affect 2 Billion people by 2035



24 25

There is a wide range of global financial impacts



Anti-obesity therapy horizon scan

N, SC, other

Oral

Undisclosed

N= 63 agents

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Position | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

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Pro-clinical Phase one Phase three Marketed

Pro-clinical Phase

26 27

Majority of therapies are injectable combinations



Publicly funded markets will be more restrictive – understanding consumer behaviour is key

UK example: Currently, over 95% of Wegovy Rx are out of pocket – can evidence change this?



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Despite recent supply issues GLP-1 demand continues to grow particularly with dulaglutide and semaglutide



Wegovy® Uptake Feb 2024

Based on NHSE Data and IQVIA Proprietary Supply Chain Manager (SCM) Data

Region	Packs supplied			
Northern Ireland	1240			
Wales	5840			
Scotland	12642			
North of England	38796			
Midlands and East	23143			
London	15781			
South of England	11417			
NHSE Prescriptions (by items)	287			
NHS Hospitals (HPA)	620			
IQVIA Community Pharmacy Panel	52724			

SCM data shows Wholesaler sell pharmacies. Total UK activity is 108859 packs, with England totaling 89137 packs. NHS activity is low on both total of 907 packs (est).

This shows massive (>99%) uptake in the private market ≡IQVIA

31

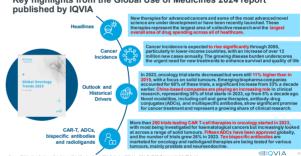
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Pipeline Highlights 2 Oncology

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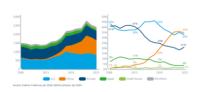


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32

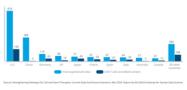
Oncology trials from China-headquartered companies have risen to 35% of total starts, up from only 5% a decade ago



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There are 522 hospitals accredited with international standards for the administration of CAR-T therapies globally

by country, Q3 2023



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Spending on oncology medicines

Cancer medicine spending rose to \$223Bn globally in 2023 and is expected to reach \$409Bn by 2028.

Growth in oncology spending was driven by protected brand volume and new products launched over the last five years and offset by losses of exclusivity across both small molecules and biologics.

Oncology biosimilar uptake has been greater than 50% across major markets, and biosimilars saved \$7.18n in 2023 and \$198n since 2017.

Six of the top 10 tumours had double-digit spending growth over the last five years, all areas of significant numbers of breakthrough new medicines and expanded patient access to care.

PD-1/PD-L1 inhibitors are used across most solid tumours reaching \$528n in spending globally in 2023 and expected to grow to over \$598n in 2028. The outlook for next-generation biotherapeutics in oncology includes significantly uncertain clinical and commercial success, with the potential to grow from the current \$48n in global spending to \$238n by 2028.

The outlook for oncology medicine spending includes an incremental 83% increase in spending over five years driven by innovation as more patients around the world get access to better medicines.

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37



36