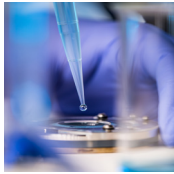




European Federation of Pharmaceutical
Industries and Associations

The Pharmaceutical Industry in Figures

Key Data * 2024



THE PHARMACEUTICAL INDUSTRY: A KEY ASSET TO SCIENTIFIC AND MEDICAL PROGRESS

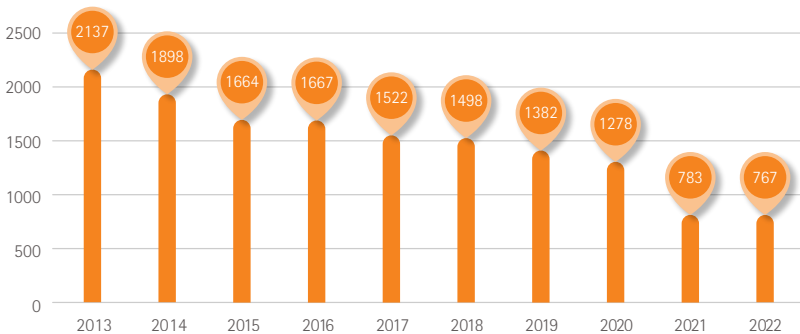
Thanks to advances in science and technology, the research-based pharmaceutical industry is entering an exciting new era in medicines development. Research methods are evolving and we have many promising prospects on the horizon, with groundbreaking cell and gene therapies being increasingly available*. The innovative pharmaceutical industry is driven by, and drives, medical progress. It aims to turn fundamental research into innovative treatments that are widely available and accessible to patients.

Already, the industry has contributed to significant improvements in patient well-being. Today's European citizens can expect to live up to 30 years longer than they did a century ago. Some major steps in biopharmaceutical research, complemented by many smaller steps, have allowed for reductions in mortality, for instance from HIV/AIDS-related causes and several cancers. High blood pressure and cardiovascular diseases can be controlled with antihypertensive and cholesterol-lowering medicines; knee or hip replacements prevent patients from immobility; and some cancers can be controlled – or even cured – with the help of new

targeted treatments. European citizens can expect not only to live longer, but to live better quality lives. Yet major hurdles remain, including Alzheimer's, Multiple Sclerosis, many cancers, and rare diseases.



TOTAL NUMBER OF DEATHS AMONG AIDS CASES IN EUROPE (TOTAL EU/EEA)



Source: HIV/AIDS surveillance in Europe 2023 (2022 data), WHO European Region & European Centre for Disease Prevention and Control (ECDC), 28 November 2023

*https://www.efpia.eu/media/676661/iqvia_efpia-pipeline-review_final-report_public-final.pdf

THE PHARMACEUTICAL INDUSTRY: A KEY ASSET TO THE EUROPEAN ECONOMY

As well as driving medical progress by researching, developing and bringing new medicines that improve health and quality of life for patients around the

world, the research-based pharmaceutical industry is a key asset of the European economy. It is one of Europe's top performing high-technology sectors.



INDUSTRY (EFPIA total) 2000 2010 2020 2022 2023

	2000	2010	2020	2022	2023
 Production	127,504	199,730	290,309	363,300	390,000 (e)
 Exports (1) (2)	90,935	276,357	509,828	683,375	680,000 (e)
 Imports	68,841	204,824	347,124	475,277	480,000 (e)
 Trade balance	22,094	71,533	162,704	208,098	200,000 (e)
 R&D expenditure	17,849	27,920	39,442	47,010	50,000 (e)
 Employment (units)	556,506	699,059	846,282	894,406	900,000 (e)
 R&D employment (units)	88,397	116,253	121,717	123,465	130,000 (e)
 Total pharmaceutical market value at ex-factory prices	89,449	153,685	236,401	269,965	290,000 (e)
 Payment for pharmaceuticals by statutory health insurance systems (ambulatory care only)	76,909	129,464	145,262	163,813	175,000 (e)

Values in € million unless otherwise stated

(1) Data relate to EU-27, Norway, Switzerland and United Kingdom since 2005 (EU-15 before 2005); Croatia and Serbia included since 2010; Turkey included since 2011; Russia included since 2013

(2) Data relating to total exports and total imports include EU-27 intra-trade (double counting in some cases)

Source: EFPIA member associations (official figures) - (e): EFPIA estimate; Eurostat (EU-27 trade data 2000-2023)

MAIN TRENDS

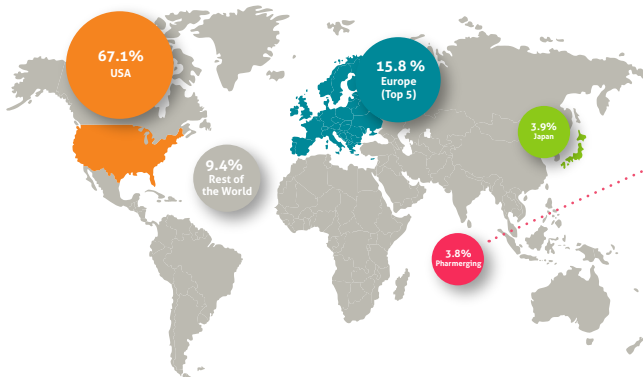
The research-based pharmaceutical industry can play a critical role in restoring Europe to growth and ensuring future competitiveness in an advancing global economy. In 2023 it invested an estimated € 50,000 million in R&D in Europe. It directly employs some 900,000 people and generates about three times more employment indirectly – upstream and downstream – than it does directly (PwC, Economic and societal footprint of the pharmaceutical industry in Europe, June 2019). However, the sector faces real challenges. Besides the additional regulatory hurdles and escalating R&D costs, the sector has been severely hit by the impact of fiscal austerity measures introduced by governments across much of Europe since 2010.

* There is rapid growth in the market and research environment in emerging economies such as Brazil, China and India, leading to a gradual migration of economic and research activities from Europe to these fast-growing markets.

During the period 2018-2023 the Brazilian, Chinese and Indian markets grew by 12.3%, 5.4% and 9.9% respectively compared to an average market growth of 7.4% for the top 5 European Union markets and 8.4% for the US market (source: IQVIA MIDAS, May 2024).

- * In 2023 North America accounted for 53.3% of world pharmaceutical sales compared with 22.7% for Europe. According to IQVIA (MIDAS May 2024), 67.1% of sales of new medicines launched during the period 2018-2023 were on the US market, compared with 15.8% on the European market (top 5 markets).
- * The fragmentation of the EU pharmaceutical market has resulted in a lucrative parallel trade. This benefits neither social security nor patients and deprives the industry of additional resources to fund R&D. Parallel trade was estimated to amount to €6,366 million (value at ex-factory prices) in 2022.

GEOGRAPHICAL BREAKDOWN (BY MAIN MARKETS) OF SALES OF NEW MEDICINES LAUNCHED DURING THE PERIOD 2018-2023



Note:

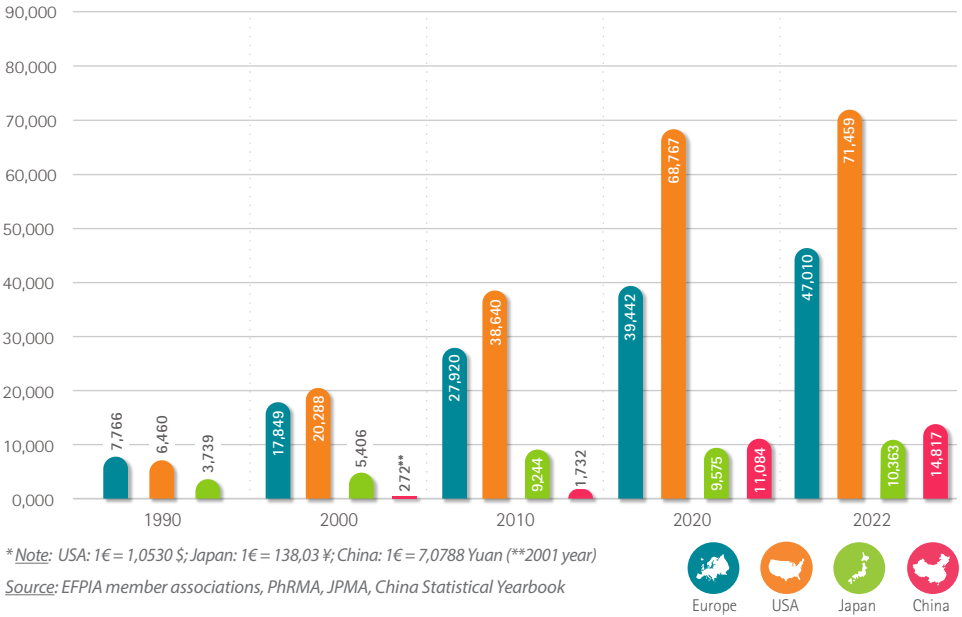
New medicines cover all new active ingredients marketed for the first time on the world market during the period 2018-2023

Europe (Top 5) comprises France, Germany, Italy, Spain and United Kingdom

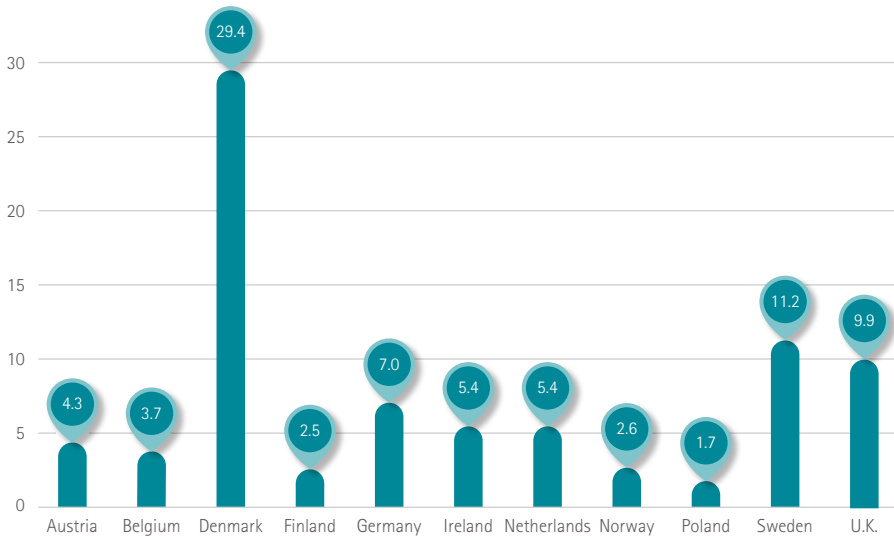
- Pharmerging comprises 21 countries ranked by IQVIA as high-growth pharmaceutical markets (Algeria, Argentina, Bangladesh, Brazil, Colombia, Chile, China, Egypt, India, Indonesia, Kazakhstan, Mexico, Nigeria, Pakistan, Philippines, Poland, Russia, Saudi Arabia, South Africa, Turkey and Vietnam)

Source: IQVIA (MIDAS May 2024)

**PHARMACEUTICAL R&D EXPENDITURE IN EUROPE, USA, JAPAN AND CHINA
(€ MILLION, 2022 CONSTANT EXCHANGE RATE*), 1990-2022**



SHARE OF PARALLEL IMPORTS IN PHARMACY MARKET SALES (%) – 2022



Note: U.K.: in % of pharmacy market sales at reimbursement prices
 Source: EFPIA member associations (estimate)

PHARMACEUTICAL INDUSTRY RESEARCH AND DEVELOPMENT IN EUROPE

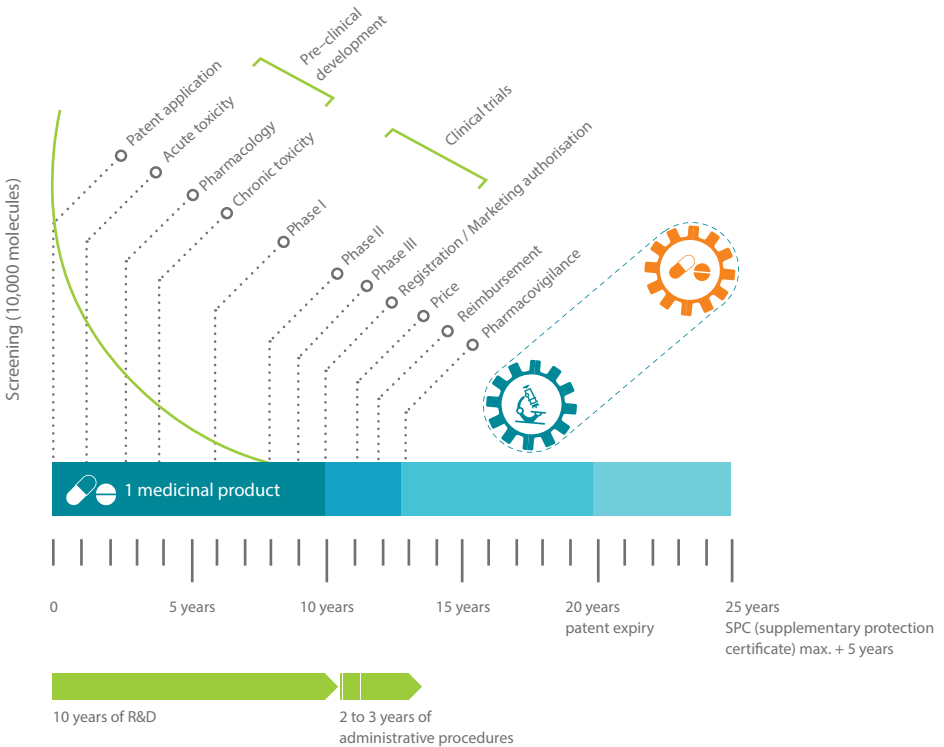
All new medicines introduced into the market are the result of lengthy, costly and risky research and development (R&D) conducted by pharmaceutical companies:

- * By the time a medicinal product reaches the market, an average of 12-13 years will have elapsed since the first synthesis of the new active substance;
- * The cost of researching and developing a new chemical or biological entity is estimated at € 3,130 million (\$ 3,296 million in year 2022

dollars) in 2022 applying the methodology used by Joseph A. DiMasi in its 1991, 2003 and 2016 Tuft Center for the Study of Drug Development studies (Wild, C. and Fabian, D. (2024), AIHTA, The Role of Public Contributions to the Development of Health Innovations, HTA-Projektbericht 158);

- * On average, only one to two of every 10,000 substances synthesised in laboratories will successfully pass all stages of development required to become a marketable medicine.

PHASES OF THE RESEARCH AND DEVELOPMENT PROCESS



PHARMACEUTICAL INDUSTRY RESEARCH AND DEVELOPMENT IN EUROPE

EFPIA 2022	€ million		€ million
Austria	304	Latvia	n.a
Belgium	5,692	Lithuania	n.a
Bulgaria	98	Malta	n.a
Croatia	40	Netherlands	900
Cyprus	85	Norway	126
Czech Rep.	106	Poland	1,328
Denmark	1,495	Portugal	99
Estonia	n.a	Romania	110
Finland	263	Russia	706
France	4,451	Slovakia	35
Germany	9,372	Slovenia	257
Greece	92	Spain	1,395
Hungary	298	Sweden	1,104
Iceland	n.a	Switzerland	9,556
Ireland	305	Turkey	71
Italy	1,865	U.K.	6,857
TOTAL			47,010

Note:

The figures relate to the R&D carried out in each country.

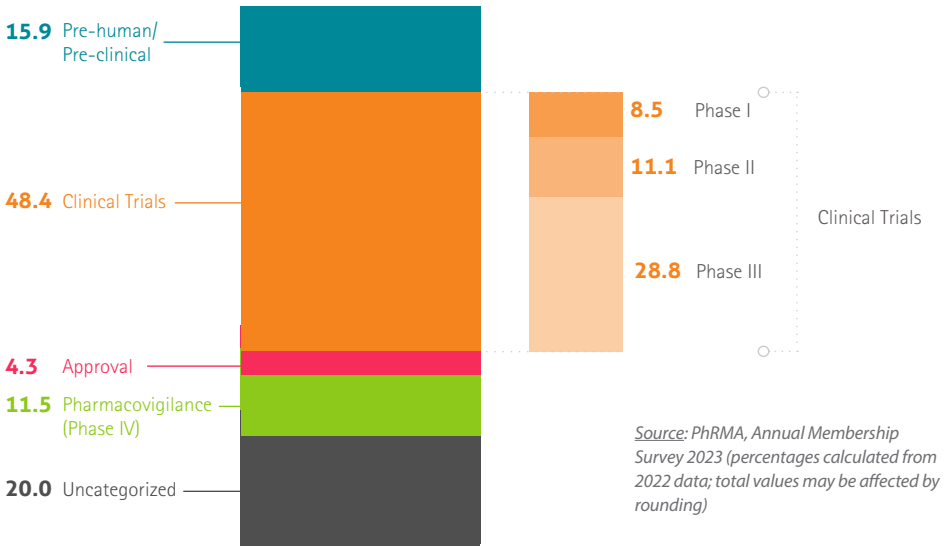
Netherlands, Poland, Slovenia, U.K.: 2021 data; Hungary, Russia, Slovakia, Turkey: 2020 data; France: 2017 data; Norway, Sweden: 2015 data; Cyprus, Ireland: 2013 data; Croatia: 2011 data

Belgium, Croatia, Denmark, France, Greece, Ireland, Italy, Netherlands, Norway (LMI members), Poland, Romania, Slovenia, Sweden (LIF members), Switzerland (Interpharma members), Turkey: estimate

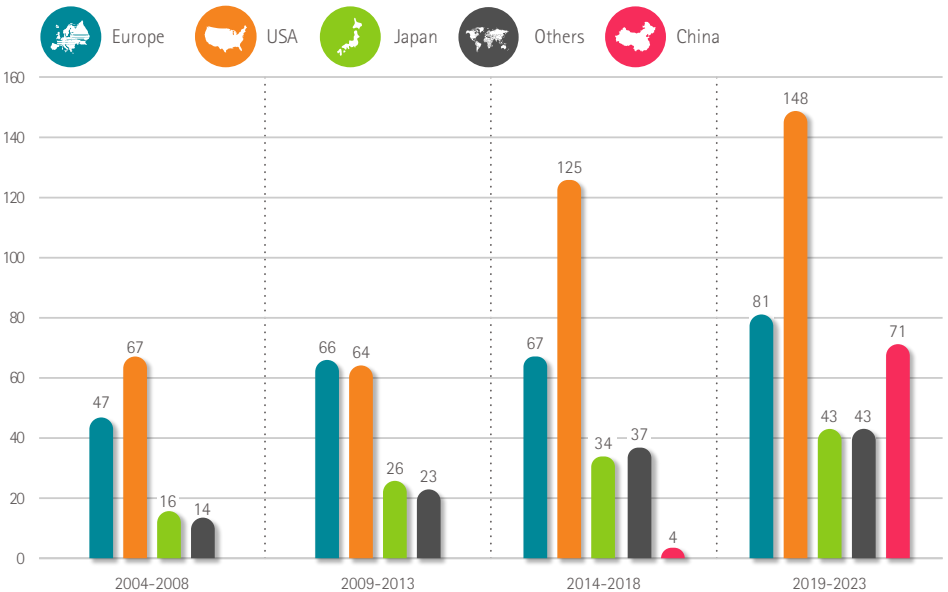
Source: EFPIA member associations (official figures)



ALLOCATION OF R&D INVESTMENTS BY FUNCTION (%)



NUMBER OF NEW CHEMICAL AND BIOLOGICAL ENTITIES (2004-2023)



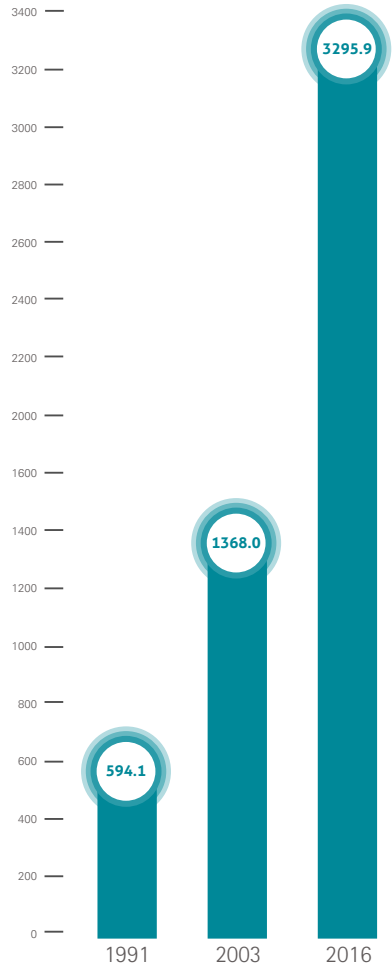
*Source: CITELINE April 2024 & SCRIIP – EFPIA calculations (according to nationality of mother company)
 Note: Up to 2017 China is included under 'Others'*

IMPORTANCE OF PHARMACEUTICAL R&D

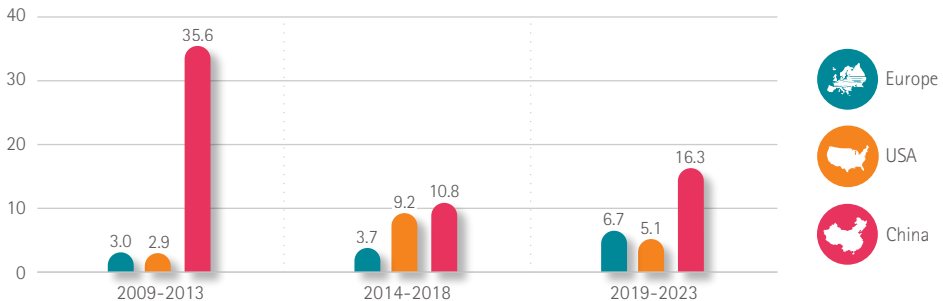
In 2022 the pharmaceutical industry invested more than € 47,000 million in R&D in Europe. A decade of strong US market dominance led to a significant shift of economic and research activity towards the US during the period 1995-2005, a trend that has been exacerbating since 2015. Additionally, Europe is now facing increasing competition from emerging economies: rapid growth in the market and research environments in countries such as China and Korea are contributing to the move of economic and research activities to non-European markets. In 2023 China outpaced Europe as originator of new active substances launched for the first time on the world market, with respectively 25 and 17 new substances, the US still leading with 28 on a total of 90. After having lost its crown as the top innovation region in the world in 2000, Europe has now moved to the third place on the podium as originator of new molecules. The geographical balance of the pharmaceutical market – and ultimately the R&D base – is likely to shift gradually towards those fast-growing emerging economies.

ESTIMATED FULL COST OF BRINGING A NEW CHEMICAL OR BIOLOGICAL ENTITY TO MARKET (\$ MILLION – YEAR 2022 \$)

Source: Wild, C. and Fabian, D. (2024), AIHTA, The Role of Public Contributions to the Development of Health Innovations, HTA-Projektbericht 158



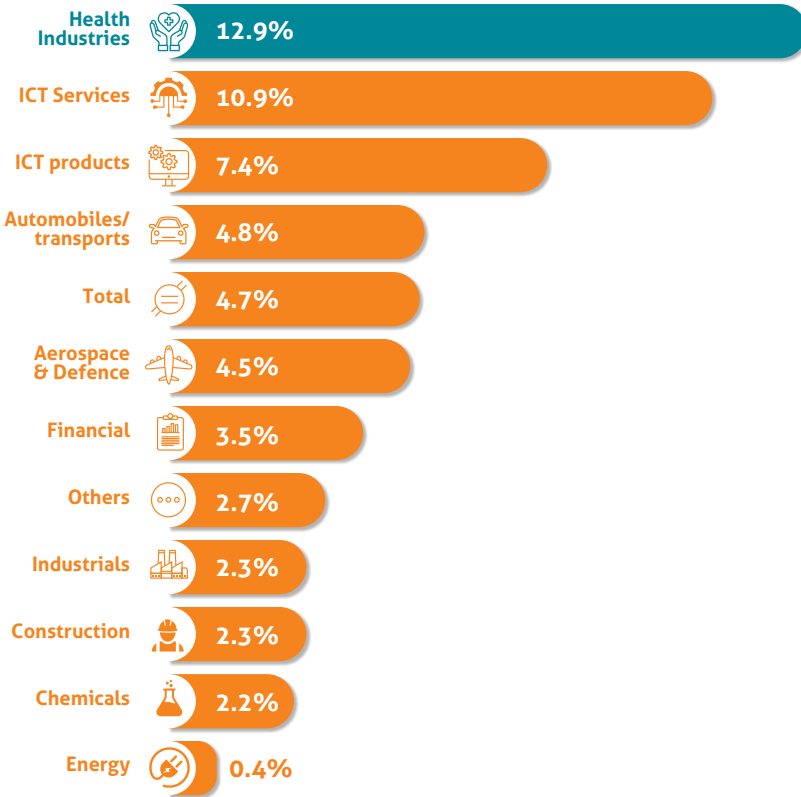
PHARMACEUTICAL R&D EXPENDITURE ANNUAL GROWTH RATE (%)



Note: USA, China: data relating to period 2019-2022

Source: EFPIA, PhRMA, China Statistical Yearbook 2002-2023

**RANKING OF INDUSTRIAL SECTORS BY OVERALL SECTOR R&D INTENSITY
(R&D AS PERCENTAGE OF NET SALES – 2022)**



Note:

Data relate to the top 2,500 companies with registered offices in the EU-27 (367), Japan (229), the US (827), China (679) and the Rest of the World (398), ranked by total worldwide R&D investment (with investment in R&D above € 53 million).

Companies are distributed by main sector according to the International Classification Benchmark (ICB); health industries include pharmaceuticals, biotechnology, medical equipment, healthcare equipment & services, healthcare providers and medical supplies.

Source: The 2023 EU Industrial R&D Investment Scoreboard, European Commission, JRC/DG R&I

According to EUROSTAT data, the pharmaceutical industry is the high technology sector with the highest added value per person employed, significantly higher than the average value for high-tech and manufacturing industries. The pharmaceutical industry is also the sector with the highest ratio of R&D investment to net sales.

According to the 2023 EU Industrial R&D Investment Scoreboard, health industries invested about €261.4 billion in R&D in 2022, accounting for 20.9% of total business R&D expenditure worldwide.

PHARMACEUTICAL PRODUCTION

EFPIA 2022	€ million		€ million
Austria	1,453	Latvia	330
Belgium	40,959	Lithuania	n.a
Bulgaria	322	Malta	307
Croatia	553	Netherlands	6,180
Cyprus	253	Norway	1,432
Czech Rep.	800	Poland	2,903
Denmark	21,501	Portugal	2,334
Estonia	n.a	Romania	655
Finland	1,964	Russia	6,459
France	32,773	Slovakia	356
Germany	37,405	Slovenia	6,955
Greece	1,876	Spain	22,957
Hungary	3,136	Sweden	11,910
Iceland	40	Switzerland	56,641
Ireland	19,305	Turkey	3,497
Italy	49,000	U.K.	29,044
TOTAL			363,300

Note:

All data based on SITC 54

Malta: 2021 data; Norway, Russia, Turkey: 2020 data; Cyprus: 2018 data; Slovakia: 2017 data; Ireland: 2014 data; Romania: 2013 data; Netherlands: 2010 data

Croatia, Denmark, France, Ireland, Italy, Netherlands, Norway, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland: estimate
Bulgaria, Croatia, Cyprus, France, Hungary, Ireland, Latvia, Lithuania, Norway, Poland, Portugal, Romania, Slovenia: veterinary products excluded

Source: EFPIA member associations (official figures)



EMPLOYMENT IN THE PHARMACEUTICAL INDUSTRY

EFPIA 2022	Units		Units
Austria	17,915	Latvia	2,681
Belgium	43,501	Lithuania	1,220
Bulgaria	15,750	Malta	1,370
Croatia	6,318	Netherlands	20,000
Cyprus	2,220	Norway	4,500
Czech Rep.	18,000	Poland	30,021
Denmark	39,815	Portugal	8,900
Estonia	380	Romania	33,550
Finland	6,118	Russia	n.a
France	95,867	Slovakia	2,287
Germany	123,475	Slovenia	13,090
Greece	32,637	Spain	50,600
Hungary	34,800	Sweden	15,000
Iceland	900	Switzerland	47,600
Ireland	45,000	Turkey	42,291
Italy	68,600	U.K.	70,000
TOTAL			894,406

Note:

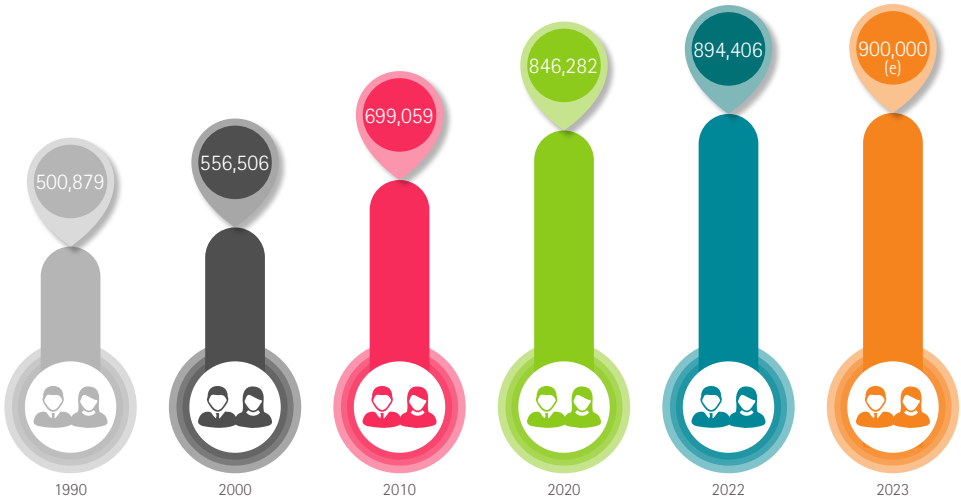
*Hungary, U.K.: 2021 data; Netherlands, Turkey: 2020 data; Slovakia: 2017 data; Estonia: 2016 data; Lithuania: 2013 data
Belgium, Bulgaria, Croatia, Estonia, France, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Romania, Slovenia, Sweden,
Switzerland, Turkey, United Kingdom: estimate*

Source: EFPIA member associations (official figures)

The research-based pharmaceutical industry is one of Europe’s major high-technology industrial employers. Recent studies in some countries showed that the research-based pharmaceutical industry generates about three times more employment indirectly – upstream and downstream – than it does directly (PwC, Economic and societal

footprint of the pharmaceutical industry in Europe, June 2019). Furthermore, a significant proportion of these are valuable skilled jobs, for instance in the fields of academia or clinical science, which can help maintain a high-level knowledge base and prevent a European “brain drain”.

EMPLOYMENT IN THE PHARMACEUTICAL INDUSTRY (1990-2023)

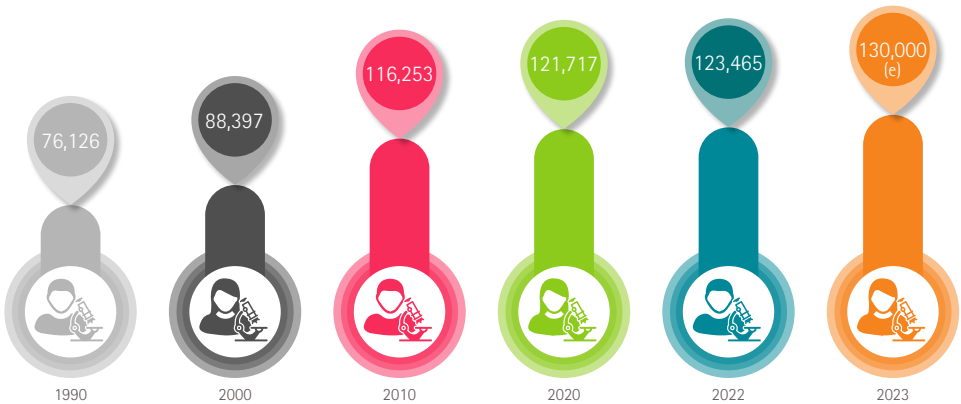


Note:

Data includes Iceland (since 2017), Croatia, Lithuania and Turkey (since 2010), Bulgaria, Estonia and Hungary (since 2009), Czech Republic (since 2008), Cyprus (since 2007), Latvia, Romania & Slovakia (since 2005), Malta, Poland and Slovenia (since 2004)

Source: EFPIA member associations (official figures) - (e): EFPIA estimate

EMPLOYMENT IN PHARMACEUTICAL R&D (1990-2023)



Note:

Data includes Iceland (since 2017), Greece & Lithuania (since 2013), Bulgaria and Turkey (since 2012), Poland (since 2010), Czech Republic, Estonia and Hungary (since 2009), Romania (since 2005) and Slovenia (since 2004)

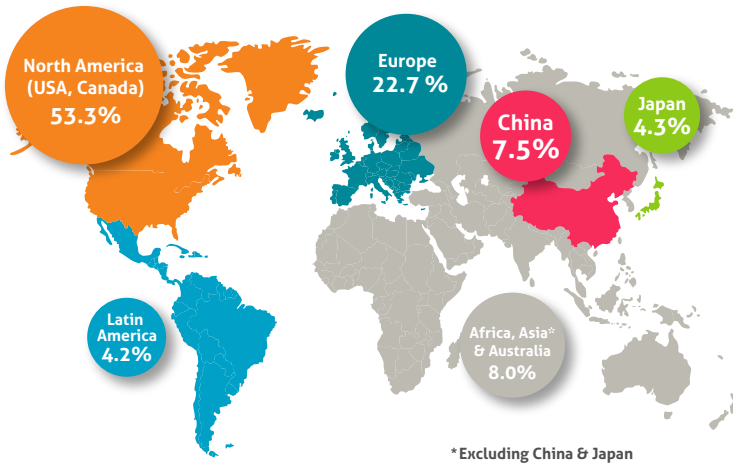
Croatia, Cyprus, Latvia, Malta, Russia, Serbia, Slovakia: data not available

Source: EFPIA member associations - (e): EFPIA estimate

PHARMACEUTICAL SALES

The world pharmaceutical (prescription) market was worth an estimated € 1,288,299 million (\$ 1,393,038 million) at ex-factory prices in 2023. The North American market (USA & Canada) remained the world's largest market with a 53.3% share, well ahead of Europe, China and Japan.

BREAKDOWN OF THE WORLD PHARMACEUTICAL MARKET – 2023 SALES



Note:
Europe includes Belarus, Turkey, Russia and Ukraine; percentages might not add up due to rounding

Source: IQVIA MIDAS (audited sales) Q4 2023 MAT, May 2024; data relate to the 2023 global retail and hospital pharmaceutical market (prescription only) at ex-factory prices.

PRICE STRUCTURE

Distribution margins, which are generally fixed by governments, and VAT rates differ significantly from country to country in Europe. On average, approximately one third of the retail price of a medicine reverts to distributors (pharmacists and wholesalers) and the State.

BREAKDOWN OF THE RETAIL PRICE OF A MEDICINE, 2022 (%)



Note:
Non-weighted average for Europe (average estimate for 26 countries)

Source: EFPIA member associations

PHARMACEUTICAL MARKET VALUE (at ex-factory prices)

EFPIA 2022	€ million		€ million
Austria	5,719	Lithuania	752
Belgium	7,064	Luxembourg	322
Bulgaria	1,724	Malta	196
Croatia	1,253	Netherlands	7,675
Cyprus	437	Norway	3,424
Czech Rep.	3,191	Poland	8,911
Denmark	3,561	Portugal	4,194
Estonia	432	Romania	5,749
Finland	2,991	Russia	18,398
France	35,328	Serbia	1,118
Germany	50,609	Slovakia	1,739
Greece	4,965	Slovenia	861
Hungary	2,666	Spain	19,572
Iceland	231	Sweden	5,017
Ireland	2,741	Switzerland	7,027
Italy	25,808	Turkey	6,985
Latvia	452	U.K.	28,853
TOTAL			269,965

Note:

Medicinal products as defined by Directive 2001/83/EC

Cyprus, Denmark, Finland, Iceland, Latvia, Lithuania, Netherlands, Norway, Russia, Slovenia, Sweden: pharmaceutical market value at pharmacy purchasing prices

Belgium, France, Germany, Greece, Ireland, Italy, Norway, Spain, U.K.: estimate

Source:

EFPIA member associations (official figures); Lithuania, Serbia: IQVIA; Russia: 2020 data; Malta: 2019 data

The figures above are for pharmaceutical sales, at ex-factory prices, through all distribution channels (pharmacies, hospitals, dispensing doctors, supermarkets, etc.), whether dispensed on prescription or at the patient's request. Sales of veterinary medicines are excluded.



VAT RATES APPLICABLE TO MEDICINES

The table below shows the VAT rates applied to medicines in European countries as of 1 January 2024.

Country	Standard VAT rate (%)	VAT rates applied to medicines	
		Prescription (%)	OTC (%)
Austria	20,0	10,0	10,0
Belgium	21,0	6,0	6,0
Bulgaria	20,0	20,0	20,0
Croatia	25,0	5,0	5,0
Cyprus	19,0	5,0	5,0
Czech Rep.	21,0	10,0	10,0
Denmark	25,0	25,0	25,0
Estonia	20,0	9,0	9,0
Finland	24,0	10,0	10,0
France (1)	20,0	2,1	10,0
Germany	19,0	19,0	19,0
Greece	24,0	6,0	6,0-13,0
Hungary	27,0	5,0	5,0
Iceland	24,0	24,0	24,0
Ireland (2)	23,0	0-23,0	0-23,0
Italy	22,0	10,0	10,0
Latvia	21,0	12,0	12,0
Lithuania (3)	21,0	5,0	21,0
Luxembourg	17,0	3,0	3,0
Malta	18,0	0,0	0,0
Netherlands	21,0	9,0	9,0
Norway	25,0	25,0	25,0
Poland	23,0	8,0	8,0
Portugal	23,0	6,0	6,0
Romania	19,0	9,0	19,0
Russia	20,0	10,0	10,0
Serbia	20,0	10,0	10,0
Slovakia	20,0	10,0	20,0
Slovenia	22,0	9,5	9,5
Spain	21,0	4,0	4,0
Sweden	25,0	0,0	25,0
Switzerland	8,1	2,6	2,6
Turkey	20,0	10,0	10,0
U.K. (4)	20,0	0-20,0	20,0

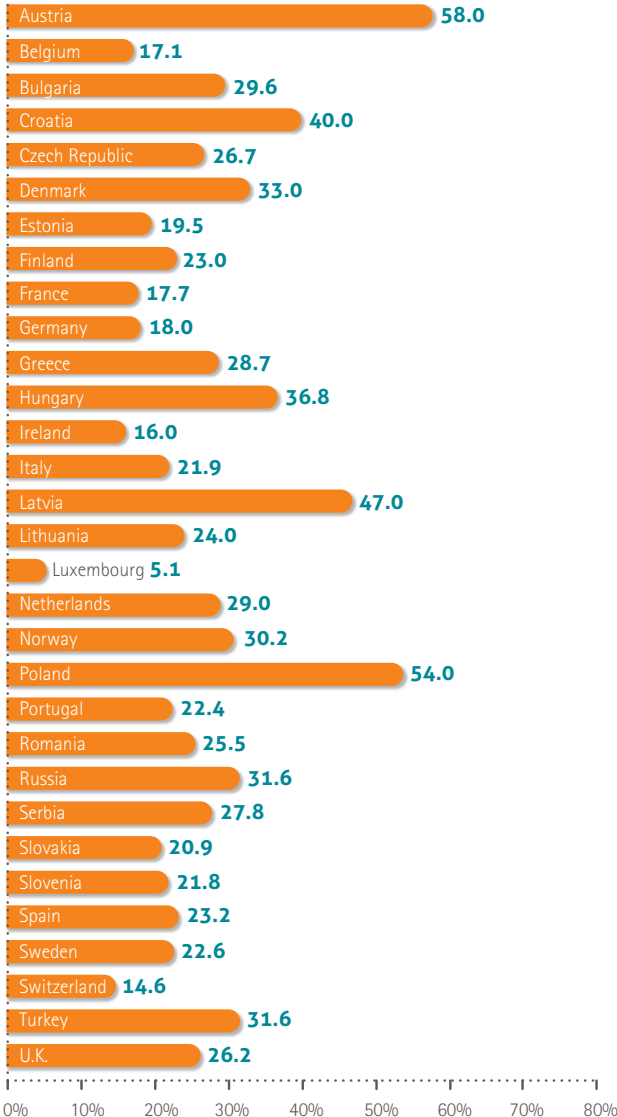
(1) France: reimbursable medicines 2.1%; non-reimbursable medicines 10.0% (2) Ireland: oral medication 0%; other medication 23%

(3) Lithuania: reimbursable medicines 5.0%; non-reimbursable medicines 21.0% (4) U.K.: 0% for prescription medicines dispensed in the Community; 20% for prescription medicines consumed in the hospital setting

GENERICS AND BIOSIMILARS

Generics and biosimilars are usually produced by a manufacturer who is not the inventor of the original chemical or biological substance. They can be marketed after expiry of the intellectual property

protection rights of the innovative product. Data might not be strictly comparable across countries due to differences in procurement and reimbursement practices.



SHARE (ESTIMATE - IN %) ACCOUNTED FOR BY GENERICS AND BIOSIMILARS IN PHARMACEUTICAL MARKET SALES VALUE (AT EX-FACTORY PRICES), 2022

Note:

Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, Hungary, Luxembourg, Slovenia, U.K.: share of generics in pharmacy market sales

Austria, Belgium, France, Germany, Greece, Italy, Netherlands, Portugal, Spain: share of generics in reimbursable pharmacy market sales

Ireland, Latvia, Lithuania, Norway, Poland, Romania, Russia, Serbia, Slovakia, Sweden, Switzerland, Turkey: share of generics in total market sales

Lithuania, Russia: 2020 data; Cyprus, Iceland, Malta: data not available

France: data relate only to those active substances listed on the official list of medicines

Source: EFPIA member associations

PHARMACEUTICAL EXPORTS

EFPIA 2022	€ million		€ million
Austria	13,735	Latvia	688
Belgium	98,946	Lithuania	1,030
Bulgaria	1,152	Luxembourg	138
Croatia	1,039	Malta	378
Cyprus	383	Netherlands	52,957
Czech Republic	3,724	Norway	885
Denmark	21,219	Poland	5,314
Estonia	126	Portugal	1,955
Finland	1,203	Romania	1,006
France	36,734	Slovakia	692
Germany	119,965	Slovenia	14,696
Greece	2,568	Spain	27,581
Hungary	7,434	Sweden	13,089
Iceland	40	Switzerland	97,256
Ireland	79,133	Turkey	1,645
Italy	46,726	United Kingdom	29,938
TOTAL			683,375

Note: All data based on SITC 54

Source: Eurostat (COMEXT database – May 2024)

Iceland: OECD; Norway: LMI; Switzerland: Swiss Federal Customs Administration; Turkey: Turkish Statistical Institute; UK: ONS Trade in goods



PHARMACEUTICAL IMPORTS

EFPIA 2022	€ million		€ million
Austria	12,599	Latvia	933
Belgium	76,690	Lithuania	1,530
Bulgaria	1,874	Luxembourg	618
Croatia	1,738	Malta	363
Cyprus	448	Netherlands	41,786
Czech Republic	6,812	Norway	3,050
Denmark	5,870	Poland	9,971
Estonia	742	Portugal	3,768
Finland	2,479	Romania	4,618
France	33,453	Slovakia	2,536
Germany	77,826	Slovenia	8,603
Greece	4,126	Spain	23,693
Hungary	5,556	Sweden	6,244
Iceland	238	Switzerland	47,612
Ireland	11,601	Turkey	4,628
Italy	37,283	United Kingdom	35,989
TOTAL			475,277

Note: All data based on SITC 54

Source: Eurostat (COMEXT database – May 2024)

Iceland: OECD; Norway: LMI; Switzerland: Swiss Federal Customs Administration; Turkey: Turkish Statistical Institute; UK: ONS Trade in goods



PHARMACEUTICAL TRADE BALANCE

EFPIA 2022	€ million		€ million
Austria	1,136	Latvia	-245
Belgium	22,256	Lithuania	-500
Bulgaria	-722	Luxembourg	-480
Croatia	-699	Malta	15
Cyprus	-65	Netherlands	11,171
Czech Republic	-3,088	Norway	-2,165
Denmark	15,349	Poland	-4,657
Estonia	-616	Portugal	-1,813
Finland	-1,276	Romania	-3,612
France	3,281	Slovakia	-1,844
Germany	42,139	Slovenia	6,093
Greece	-1,558	Spain	3,888
Hungary	1,878	Sweden	6,845
Iceland	-198	Switzerland	49,644
Ireland	67,532	Turkey	-2,983
Italy	9,443	United Kingdom	-6,051
TOTAL			208,098

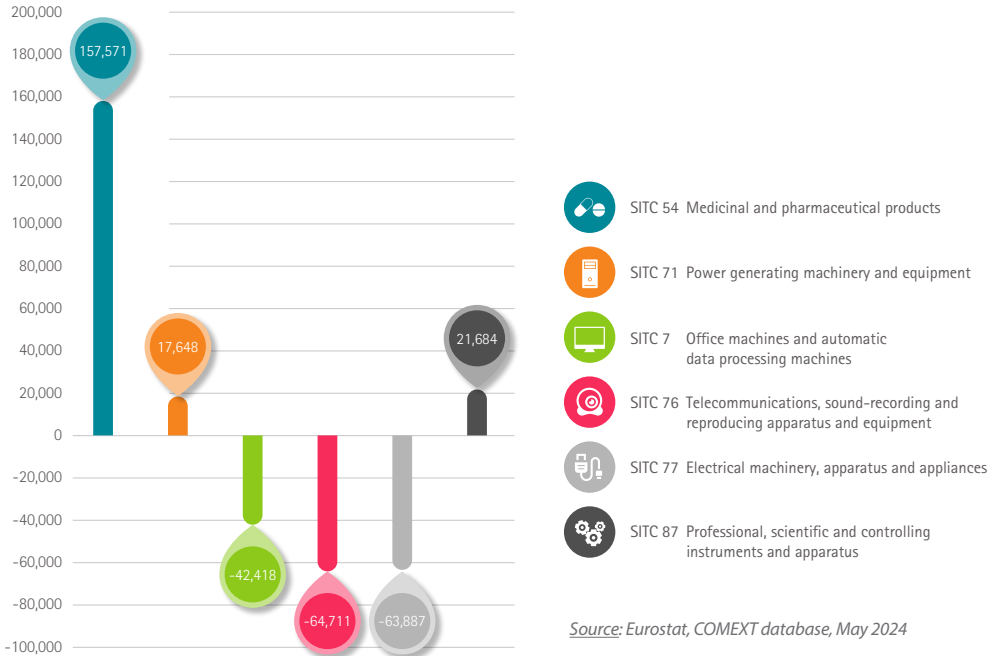
Note: All data based on SITC 54

Source: Eurostat (COMEXT database – May 2024)

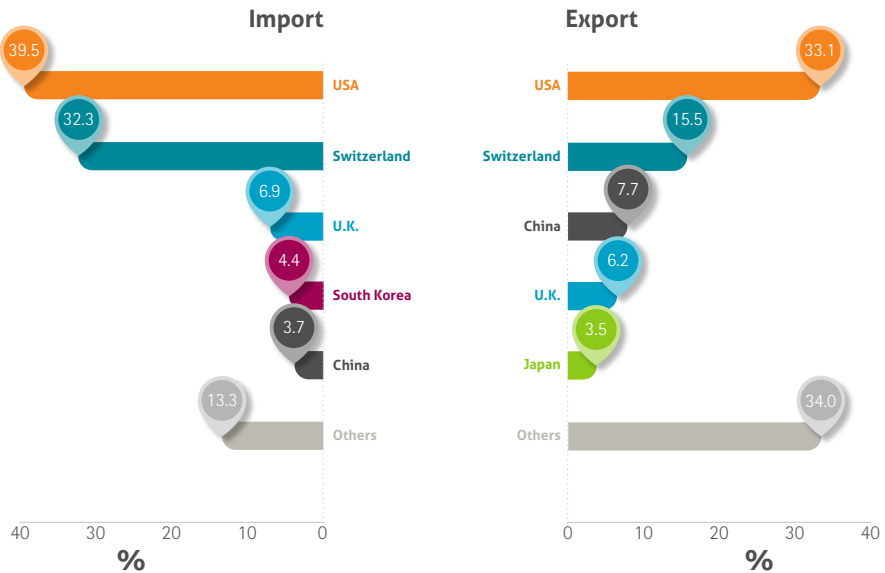
Iceland: OECD; Norway: LMI; Switzerland: Swiss Federal Customs Administration; Turkey: Turkish Statistical Institute; UK: ONS Trade in goods



EU-27 TRADE BALANCE – HIGH TECHNOLOGY SECTORS (€ MILLION) – 2023



THE EUROPEAN UNION'S TOP 5 PHARMACEUTICAL TRADING PARTNERS – 2023



TOTAL SPENDING (PUBLIC AND PRIVATE) ON HEALTHCARE AS A PERCENTAGE OF GDP AT MARKET PRICES

Country	1980	1990	2000	2010	2020	2022
Austria	7.0	7.7	9.2	10.2	11.4	11.4
Belgium	6.2	7.1	8.0	10.2	11.2	10.9
Czech Republic	-	3.7	5.7	7.6	9.2	9.1
Denmark	8.4	8.0	8.1	10.6	10.6	9.5
Estonia	-	-	5.2	6.6	7.6	6.9
Finland	5.9	7.3	7.1	9.1	9.6	10.0
France	6.8	8.0	9.6	11.2	12.1	12.1
Germany	8.1	8.0	9.9	11.1	12.7	12.7
Greece	-	6.1	7.2	9.6	9.5	8.6
Hungary	-	-	6.8	7.4	7.3	6.7
Iceland	5.9	7.4	8.9	8.4	9.6	8.6
Ireland	7.5	5.6	5.9	10.5	7.1	6.1
Italy	-	7.0	7.6	8.9	9.6	9.0
Latvia	-	-	5.4	6.1	7.2	8.8
Lithuania	-	-	6.2	6.8	7.5	7.5
Luxembourg	4.8	5.3	5.9	6.7	5.7	5.5
Netherlands	6.5	7.0	7.7	10.2	11.2	10.2
Norway	5.4	7.1	7.7	8.9	11.2	7.9
Poland	-	4.3	5.3	6.5	6.5	6.7
Portugal	4.8	5.5	8.6	10.0	10.5	10.6
Slovakia	-	-	5.3	7.7	7.1	7.8
Slovenia	-	-	7.8	8.6	9.4	8.8
Spain	5.0	6.1	6.8	9.1	10.7	10.4
Sweden	7.7	7.2	7.3	8.3	11.3	10.7
Switzerland	6.4	7.6	9.1	9.9	11.7	11.3
Turkey	2.4	2.4	4.6	5.0	4.6	4.3
United Kingdom	5.1	5.1	7.1	9.7	12.2	11.3
Europe	6.1	6.4	7.2	8.7	9.4	9.0
USA	8.2	11.2	12.5	16.2	18.8	16.6
Japan	6.1	5.7	7.0	9.1	11.0	11.5

Note: Europe: non-weighted average (27 countries) – EFPIA calculations

Source: OECD Health Statistics 2023, May 2024

PAYMENT FOR PHARMACEUTICALS BY COMPULSORY HEALTH INSURANCE SYSTEMS AND NATIONAL HEALTH SERVICES (ambulatory care only)

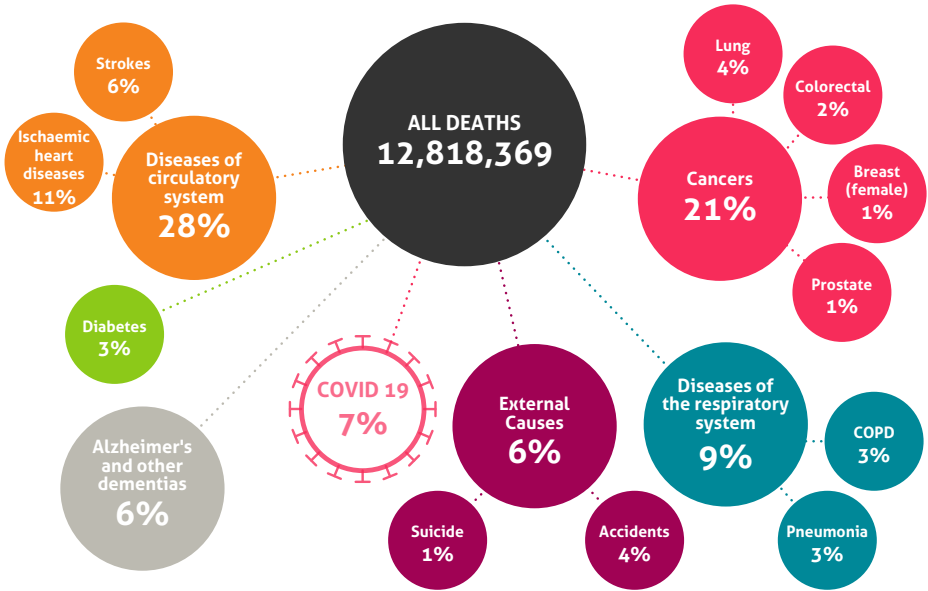
EFPIA 2022	€ million		€ million
Austria	3,598	Lithuania	477
Belgium	6,069	Luxembourg	301
Bulgaria	523	Malta	123
Croatia	507	Netherlands	3,315
Cyprus	210	Norway	1,215
Czech Rep.	1,470	Poland	2,158
Denmark	875	Portugal	1,568
Estonia	191	Romania	1,608
Finland	1,758	Russia	1,500
France	28,325	Serbia	325
Germany	51,297	Slovakia	1,381
Greece	2,108	Slovenia	453
Hungary	1,126	Spain	12,326
Iceland	109	Sweden	2,850
Ireland	2,229	Switzerland	6,873
Italy	7,600	Turkey	5,901
Latvia	192	U.K.	13,252
TOTAL			163,813

Note: Lithuania: 2021 data; Croatia, Netherlands, Russia: 2020 data;

Source: EFPIA member associations (official figures)



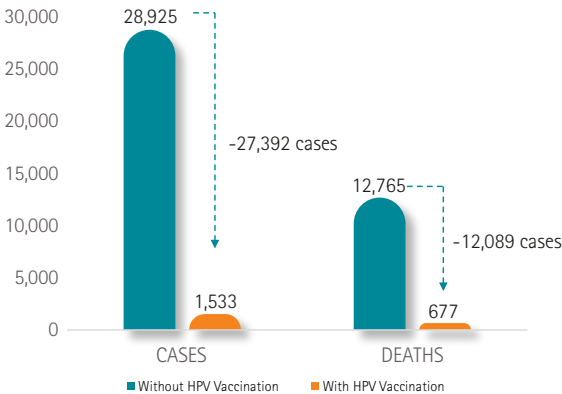
MAIN CAUSES OF MORTALITY ACROSS OECD COUNTRIES, 2021 (OR NEAREST YEAR)



Note: Other causes of death not shown in this figure represent 21% of all deaths.

Source: OECD Health Statistics 2023.

HPV VACCINES ARE AT LEAST 94.7% EFFECTIVE IN PREVENTING HPV INFECTIONS



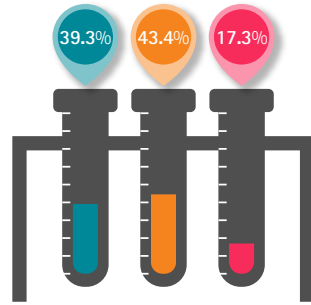
THIS MEANS THAT, EVERY YEAR, OVER 27,000 CASES AND 12,000 CERVICAL CANCER-RELATED DEATHS CAN BE PREVENTED BY HPV VACCINES

1. Kjaer SK, Nygård M, Sundström K, et al. Final analysis of a 14-year long-term follow-up study of the effectiveness and immunogenicity of the quadrivalent human papillomavirus vaccine in women from four Nordic countries. *EClinicalMedicine* 2020; 23:100401.
2. Fernandes A, Viveros-Carreño D, Hoegl J, et al. Human papillomavirus-independent cervical cancer. *International Journal of Gynecologic Cancer* 2022; 32:1-7.

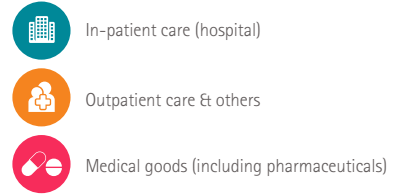
THE ADDED VALUE OF MEDICINES IN HEALTHCARE

BREAKDOWN OF TOTAL HEALTH EXPENDITURE IN EUROPE – 2021

Medicines constitute the smallest part of healthcare costs with, on average, 17.3% of total health expenditure in Europe being spent on pharmaceuticals and other medical goods. In costly diseases such as cancer and rheumatoid arthritis, medicines account for less than 20% of the total disease costs. Medicines can also generate additional savings, for example by substantially reducing costs in other areas of healthcare, including hospital stays and long-term care costs.

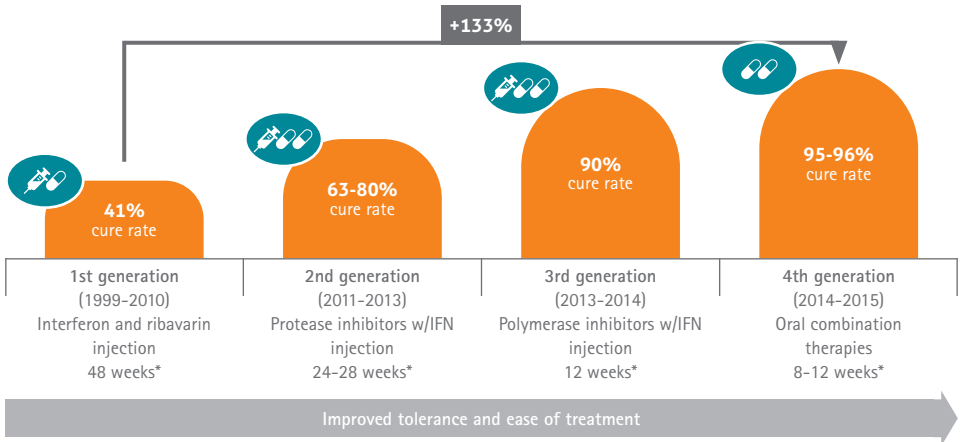


Source: OECD Health Statistics 2022, May 2023 – EFPIA calculations (non-weighted average for 26 EU & EFTA countries)



CHRONOLOGY OF HEPATITIS C TREATMENT (1999–2015)¹

* Hepatitis C is the leading cause of liver transplants and the reason liver cancer is on the rise



* Treatment duration, INF=interferon;

Source: PhRMA, 'Prescription Medicines: International Costs in Context' (2017)

EFPIA MEMBER ASSOCIATIONS

Austria

Fachverband der Chemischen Industrie Österreichs (FCIO)

Belgium

Association Générale de l'Industrie du Médicament (pharma.be)

Denmark

Laegemiddelindustriforeningen

The Danish Association of the Pharmaceutical Industry (Lif)

Finland

Lääketeollisuus ry

Pharma Industry Finland (PIF)

France

Les Entreprises du Médicament (LEEM)

Germany

Verband Forschender Arzneimittelhersteller (VfA)

Greece

Hellenic Association of Pharmaceutical Companies (SFEE)

Ireland

Irish Pharmaceutical Healthcare Association (IPHA)

Italy

Associazione delle Imprese del Farmaco (Farmindustria)

Netherlands

Vereniging Innovatieve Geneesmiddelen Nederland

Norway

Legemiddelindustriforeningen

Norwegian Association of Pharmaceutical Manufacturers (LMI)

Poland

Employers Union of Innovative Pharmaceutical Companies (Infarma)

Portugal

Associação Portuguesa da Indústria Farmacêutica (Apifarma)

Russia

Association of International Pharmaceutical Manufacturers (AIPM)

Spain

Asociación Nacional Empresarial de la Industria Farmacéutica (Farmaindustria)

Sweden

Läkemedelsindustriföreningen

The Swedish Association of the Pharmaceutical Industry (LIF)

Switzerland

Verband der forschenden pharmazeutischen Firmen der Schweiz (Interpharma)

Turkey

Arastırmacı İlaç Firmalari Dernegi (AIFD)

United Kingdom

The Association of the British Pharmaceutical Industry (ABPI)

ASSOCIATIONS WITH LIAISON STATUS

Bosnia-Herzegovina: Association of Research-based Medicine Producers (UIPL)

Bulgaria: Association of Research-based Pharmaceutical Manufacturers in Bulgaria (ARPharM)

Croatia: Innovative Pharmaceutical Initiative (iFI)

Cyprus: Cyprus Association of Pharmaceutical Companies (KEFEA)

Czech Republic: Association of Innovative Pharmaceutical Industry (AIFP)

Estonia: Association of Pharmaceutical Manufacturers in Estonia (APME)

Hungary: Association of Innovative Pharmaceutical Manufacturers (AIPM)

Iceland: Icelandic Association of the Pharmaceutical Industry (FRUMTÖK)

Latvia: Association of International Research-based Pharmaceutical Manufacturers (SIFFA)

Lithuania: The Innovative Pharmaceutical Industry Association (IFPA)

Luxembourg: Innovative Medicines for Luxembourg (IML)

Macedonia: Association of Foreign Innovative Pharmaceutical Manufacturers (HOBA)

Malta: Maltese Pharmaceutical Association (PRIMA)

Romania: Association of International Medicines Manufacturers (ARPIM)

Serbia: Innovative Drug Manufacturers' Association (INOVIA)

Slovakia: Slovak Association of Innovative Pharmaceutical Industry (AIFP)

Slovenia: Forum of International Research and Development Pharmaceutical Industries (EIG)

Ukraine: Association of Pharmaceutical Research and Development (APRaD)

MEMBER COMPANIES

* Full Members

AbbVie

Almirall

Amgen

Astellas

AstraZeneca

Bayer

Biogen

Boehringer Ingelheim

Bristol Myers Squibb

Chiesi

CSL Behring

CSL Vifor

Daichi-Sankyo

Gilead

GlaxoSmithKline

Grünenthal

Ipsen

Johnson & Johnson

LEO Pharma

Lilly

Menarini

Merck

Merck Sharp & Dohme (MSD)

Novartis

Novo Nordisk

Pfizer

Pierre Fabre

Roche

Sanofi

Servier

Takeda

Teva

UCB

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Bial

Eisai

Jazz Pharmaceuticals

Lundbeck

Otsuka

Rovi

Stallergenes

* Small & Medium-Sized Enterprises (SMEs)

AC Immune

AiCuris

AM Pharma

Byondis

ENYO Pharma

Genfit

Idorsia

Imcyse

Kuste Biopharma

Minoryx

ProQR

Spexis

Spero Therapeutics

Transgene



European Federation of Pharmaceutical
Industries and Associations

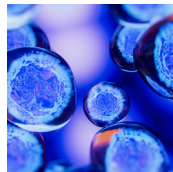
**EFPIA (The European Federation of Pharmaceutical Industries and Associations)
represents the research-based pharmaceutical industry operating in Europe.**

Founded in 1978, its members comprise **37** national pharmaceutical industry associations, **40** leading pharmaceutical companies and **14** small and medium sized enterprises undertaking research, development and manufacturing of medicinal products in Europe for human use.

EFPIA aims to create an environment that enables its members to innovate, discover, develop and deliver new therapies and vaccines for people across Europe, as well as contribute to the European economy. EFPIA's vision is for a healthier future for Europe. A future based on prevention, innovation, access to new treatments and better outcomes for patients.

Through its membership, EFPIA represents the common views of about 2,000 large, medium and small companies including the entire European research-based pharmaceutical sector whose interests also include a significant part of the generics and biosimilars segments. Vaccines Europe (VE) is the specialised vaccine industry group within EFPIA. It represents major innovative research-based global vaccine companies as well as small and medium sized enterprises operating in Europe.

Further details about the Federation and its activities can be obtained from:



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