

The Pharmaceutical Industry in Figures

Key Data ***** 2019





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 – from the possibilities offered by personalised medicines, to the potential offered by harnessing the power of big data. 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, complimented by many smaller steps, have allowed for reductions in mortality, for instance from HIV/AIDS-related causes and a number of cancers. High blood pressure and cardiovascular diseases can be controlled with antihypertensive and cholesterollowering 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 orphan diseases.



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



Source: HIV/AIDS surveillance in Europe 2018, WHO Regional Office for Europe & European Centre for Disease Prevention and Control (ECDC), November 2018

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	2017	2018
	Production	127,504	199,400	250,868	260,000 (e)
	Exports (1) (2)	90,935	276,357	396,036	410,000 (e)
	Imports	68,841	204,824	294,632	305,000 (e)
E \$	Trade balance	22,094	71,533	101,404	105,000 (e)
	R&D expenditure	17,849	27,920	35,318	36,500 (e)
223	Employment (units)	554,186	670,088	760,795	765,000 (e)
28	R&D employment (units)	88,397	117,035	114,655	115,000 (e)
	Total pharmaceutical market value at ex-factory prices	89,449	153,685	208,949	220,000 (e)
	Payment for pharmaceuticals by statutory health insurance systems (ambulatory care only)	76,909	129,464	133,775	137,000 (e)

Values in € million unless otherwise stated

- (1) Data relate to EU-27, Norway and Switzerland 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-28 intra-trade (double counting in some cases)

Source: EFPIA member associations (official figures) - (e): EFPIA estimate; Eurostat (EU-28 trade data 2000-2018)

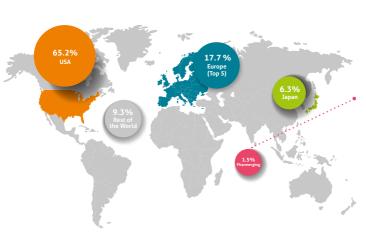
MAIN TRENDS

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 2018 it invested an estimated \in 36,500 million in R&D in Europe. It directly employs some 765,000 people and generates about four times more employment indirectly – upstream and downstream – than it does directly. 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 2014-2018 the Brazilian, Chinese and Indian markets grew by 11.4%, 7.3% and 11.2% respectively compared to an average market growth of 5.0% for the top 5 European Union markets and 7.8% for the US market (source: IQVIA MIDAS, May 2019).

- In 2018 North America accounted for 48.9% of world pharmaceutical sales compared with 23.2% for Europe. According to IQVIA (MIDAS May 2019), 65.2% of sales of new medicines launched during the period 2013-2018 were on the US market, compared with 17.7% 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 €5,408 million (value at ex-factory prices) in 2017.

GEOGRAPHICAL BREAKDOWN (BY MAIN MARKETS) OF SALES OF NEW MEDICINES LAUNCHED DURING THE PERIOD 2013–2018

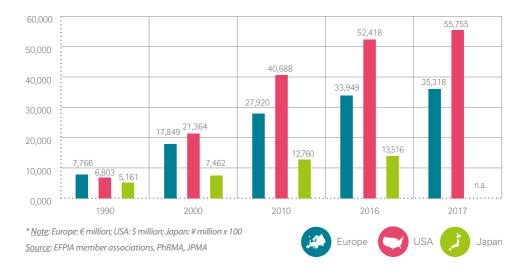


<u>Note</u>: New medicines cover all new active ingredients marketed for the first time on the world market during the period 2013-2018

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

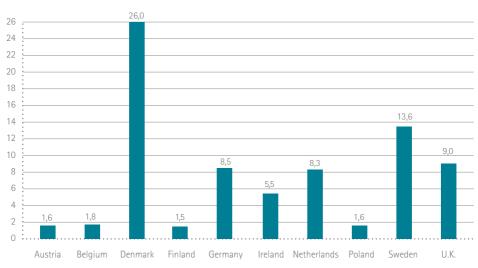
Pharmerging comprises 21 countries ranked by IQVIA as high-growth pharmaceutical markets (Algeria, Argentina, Bangladesh, Brazil, Colombia, Chile, China, Egypt, India, Indonesia, Kazakhstan, Mexico, Nigeria, Pakistan, Philippines, Poland, Russia, Saudi Arabia, South Africa, Turkey and Vietnam)

> <u>Source</u>: IQVIA (MIDAS May 2019)



PHARMACEUTICAL R&D EXPENDITURE IN EUROPE, USA AND JAPAN (MILLION OF NATIONAL CURRENCY UNITS*), 1990-2017

SHARE OF PARALLEL IMPORTS IN PHARMACY MARKET SALES (%) - 2017



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

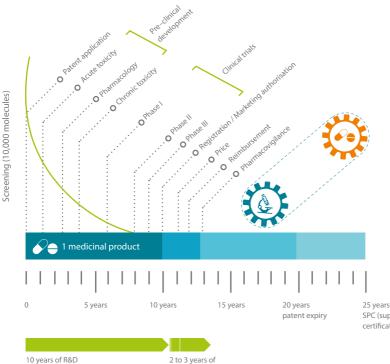
EFPIA 🌟 Key Data | 2019

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 was estimated at € 1,926 million (\$ 2,558 million in year 2013 dollars) in 2014 (DiMasi et al, Journal of Health Economics, January 2016);
- 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



administrative procedures

SPC (supplementary protection certificate) max. + 5 years

PHARMACEUTICAL INDUSTRY RESEARCH AND DEVELOPMENT IN EUROPE

FPIA 2017	€ million
Austria	294
Belgium	3,508
Bulgaria	n.a
Croatia	40
Cyprus	85
Czech Rep.	77
Denmark	1,632
Estonia	n.a
Finland	201
France	4,451
Germany	6,918
Greece	42
Hungary	176
Iceland	n.a
Ireland	305
Italy	1,530

	€ million
Latvia	n.a
Lithuania	n.a
Malta	n.a
Netherlands	642
Norway	126
Poland	340
Portugal	100
Romania	101
Russia	856
Slovakia	n.a
Slovenia	180
Spain	1,147
Sweden	1,104
Switzerland	6,105
Turkey	66
U.K.	5,292
	35,318

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<u>Note</u>:

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

Slovenia, Turkey: 2016 data; Austria, France, Greece, Norway, Sweden: 2015 data; Cyprus, Ireland: 2013 data;

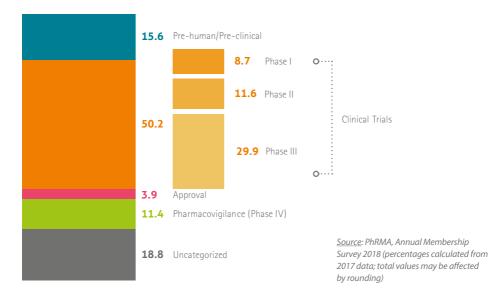
Czech Republic: 2012 data; Croatia, Netherlands: 2011 data

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

Source: EFPIA member associations (official figures)

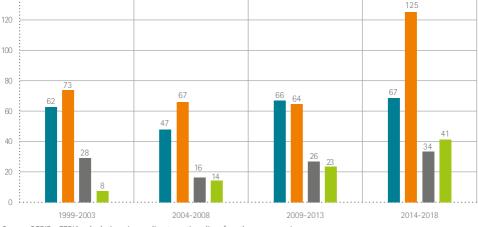


ALLOCATION OF R&D INVESTMENTS BY FUNCTION (%)



NUMBER OF NEW CHEMICAL OR BIOLOGICAL ENTITIES (1999-2018)





<u>Source</u>: SCRIP – EFPIA calculations (according to nationality of mother company)

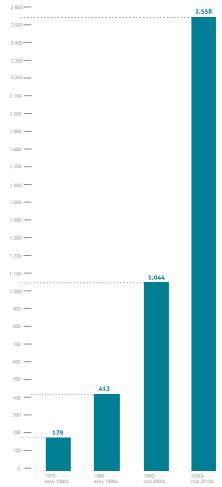
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IMPORTANCE OF PHARMACEUTICAL R&D

In 2017 the pharmaceutical industry invested more than \in 35,300 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. Additionally, Europe is now facing increasing competition from emerging economies: rapid growth in the market and research environments in countries such as Brazil and China are contributing to the move of economic and research activities to non-European markets. The geographical balance of the pharmaceutical market – and ultimately the R&D base – is likely to shift gradually towards emerging economies.

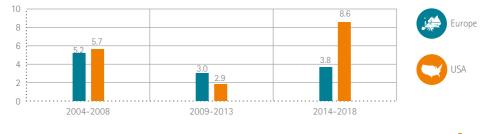
ESTIMATED FULL COST OF BRINGING A NEW CHEMICAL OR BIOLOGICAL ENTITY TO MARKET (\$ MILLION - YEAR 2013 \$)

Source: Joseph. A. DiMasi, Henry G. Grabowski, Ronald W.Hansen, Innovation in the pharmaceutical industry: New estimates of R&D costs, Journal of Health Economics, 47 (2016), 20-33



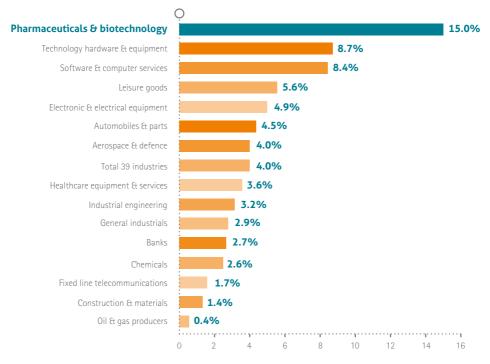
PHARMACEUTICAL R&D EXPENDITURE - ANNUAL GROWTH RATE (%)

<u>Note</u>: USA: data relating to period 2014-2017 Source : EFPIA, PhRMA



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RANKING OF INDUSTRIAL SECTORS BY OVERALL SECTOR R&D INTENSITY (R&D AS PERCENTAGE OF NET SALES – 2018)



<u>Note</u>:

Data relate to the top 2,500 companies with registered offices in the EU (577), Japan (339), the US (778), China (438) and the Rest of the World (368), ranked by total worldwide R&D investment (with investment in R&D above € 25 million). <u>Source</u>: The 2018 EU Industrial R&D Investment Scoreboard, European Commission, JRC/DG RTD

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 2018 EU Industrial R&D Investment Scoreboard the pharmaceutical and biotechnology sector amounts to 18.9% of total business R&D expenditure worldwide.

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PHARMACEUTICAL PRODUCTION

EFPIA 2017	€ million		€ million
Austria	2,712	Latvia	157
Belgium	10,768	Lithuania	n.a
Bulgaria	121	Malta	n.a
Croatia	585	Netherlands	6,180
Cyprus	180	Norway	1,072
Czech Rep.	n.a	Poland	3,172
Denmark	14,391	Portugal	1,694
Estonia	n.a	Romania	655
Finland	1,766	Russia	5,052
France	21,900	Slovakia	356
Germany	30,555	Slovenia	2,083
Greece	954	Spain	15,199
Hungary	3,044	Sweden	7,686
Iceland	89	Switzerland	44,944
Ireland	19,305	Turkey	4,439
Italy	31,200	U.K.	20,609
TOTAL			250,868

Note:

All data based on SITC 54

Iceland, Turkey: 2016 data; Bulgaria: 2015 data; Ireland: 2014 data; Romania: 2013 data; Cyprus, Netherlands: 2010 data Croatia, Denmark, France, Ireland, Italy, Netherlands, Norway, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland: estimate Bulgaria, Croatia, Cyprus, France, Germany, Hungary, Ireland, Latvia, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Sweden: veterinary products excluded

Source: EFPIA member associations (official figures)



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EMPLOYMENT IN THE PHARMACEUTICAL INDUSTRY

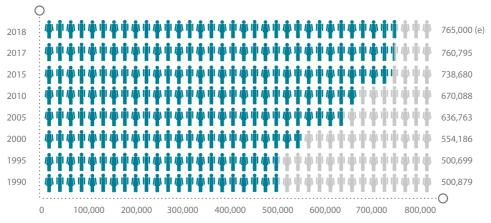
EFPIA 2017	Units		Units
Austria	14,860	Latvia	2,154
Belgium	35,711	Lithuania	1,220
Bulgaria	11,500	Malta	1,057
Croatia	5,474	Netherlands	17,900
Cyprus	1,140	Norway	3,800
Czech Rep.	10,083	Poland	29,873
Denmark	26,963	Portugal	7,700
Estonia	380	Romania	30,000
Finland	4,722	Russia	n.a
France	98,786	Slovakia	2,287
Germany	117,013	Slovenia	9,954
Greece	19,700	Spain	42,687
Hungary	29,400	Sweden	11,012
Iceland	500	Switzerland	46,503
Ireland	29,766	Turkey	20,000
Italy	65,400	U.K.	63,250
TOTAL			760,795

<u>Note</u>:

Estonia, Netherlands, Norway, Turkey: 2016 data; Sweden: 2014 data; Denmark, Lithuania: 2013 data; Cyprus: 2007 data Austria, Belgium, Bulgaria, Croatia, Estonia, France, Ireland, Italy, Malta, Netherlands, Norway, Poland, 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 four times more employment indirectly - upstream and downstream - than it does directly. 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".

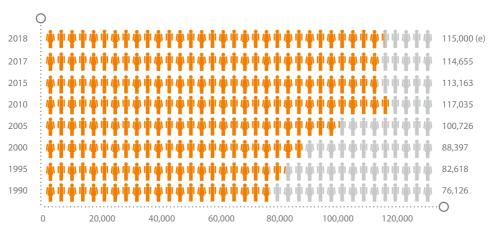


EMPLOYMENT IN THE PHARMACEUTICAL INDUSTRY (1990-2018)

<u>Note</u>:

Data includes Iceland (since 2017), Turkey (since 2011), Croatia and Lithuania (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 (1990-2018)

Note:

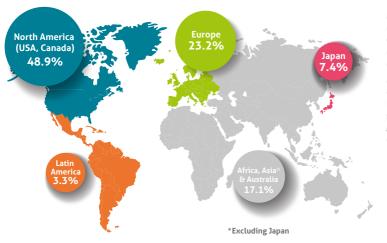
Data includes Iceland (since 2017), Greece & Lithuania (since 2013), Bulgaria and Turkey (since 2012), Poland (since 2010), Czech Republic, Estonia and Hungary (since 2009), Romania (since 2005) and Slovenia (since 2004) Croatia, Cyprus, Latvia, Malta, Serbia, Slovakia: data not available

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

PHARMACEUTICAL SALES

The world pharmaceutical market was worth an estimated €845,235 million (\$ 998,223 million) at ex-factory prices in 2018. The North American market (USA & Canada) remained the world's largest market with a 48.9% share, well ahead of Europe and Japan.

BREAKDOWN OF THE WORLD PHARMACEUTICAL MARKET - 2018 SALES



<u>Note</u>: Europe includes Turkey and Russia; percentages might not add up due to rounding

Source: IQVIA (MIDAS), May 2019 (data relate to the 2018 audited global retail and hospital pharmaceutical market 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, 2017 (%)



PHARMACEUTICAL MARKET VALUE (at ex-factory prices)

EFPIA 2017	€ million
Austria	4,213
Belgium	5,067
Bulgaria	1,089
Croatia	764
Cyprus	189
Czech Rep.	2,578
Denmark	2,584
Estonia	301
Finland	2,373
France	28,419
Germany	32,525
Greece	5,141
Hungary	2,242
Iceland	147
Ireland	2,013
Italy	26,945
Latvia	277

	€ million
Lithuania	602
Malta	77
Netherlands	5,086
Norway	2,273
Poland	6,352
Portugal	3,056
Romania	2,522
Russia	16,253
Serbia	652
Slovakia	1,287
Slovenia	613
Spain	16,028
Sweden	3,990
Switzerland	5,250
Turkey	7,752
U.K.	20,289

TOTAL

208,949

<u>Note</u>:

Medicinal products as defined by Directive 2001/83/EEC

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

Turkey: 2016 data; Malta: 2007 data

Belgium, France, Germany, Ireland, Italy, Malta, Norway, Spain, United Kingdom: estimate

Source:

EFPIA member associations (official figures) – Latvia, Norway, Slovakia: IQVIA

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 2019.

Country	Standard VAT rate (%)	VAT rates applied Prescription (%)	to medicines OTC (%)
Austria	20,0	10,0	10,0
Belgium	21,0	6,0	0,6
Bulgaria	20,0	20,0	20,0
Croatia	25,0	5,0	5,0
Cyprus	19,0	5,0	5,0
Czech Republic	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	0,8	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	7,7	2,5	2,5
Turkey	18,0	8,0	0,8
U.K.	20,0	0,0	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%

GENERICS

The term 'generic' is widely used but its definition is not always consistent between countries. Generics are usually produced by a manufacturer who is not the inventor of the original product, and are marketed when intellectual property protection rights are exhausted.



PHARMACEUTICAL EXPORTS

EFPIA 2017	€ million		€ million
Austria	9,942	Lithuania	704
Belgium	40,294	Luxembourg	339
Bulgaria	893	Malta	265
Croatia	1,144	Netherlands	31,729
Cyprus	278	Norway	669
Czech Republic	2,291	Poland	4,016
Denmark	12,496	Portugal	1,081
Estonia	82	Romania	749
Finland	752	Russia	313
France	28,653	Slovakia	330
Germany	75,118	Slovenia	2,728
Greece	1,190	Spain	10,740
Hungary	5,015	Sweden	7,556
Ireland	35,451	Switzerland	66,374
Italy	23,855	Turkey	775
Latvia	438	United Kingdom	29,776
TOTAL			396,036

<u>Note</u>:

All data based on SITC 54

Source: Eurostat (COMEXT database – May 2019)

Norway, Turkey: OECD, Harmonised System Chapter 30; Switzerland: Swiss Federal Customs Administration



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PHARMACEUTICAL IMPORTS

EFPIA 2017	€ million		€ million
Austria	8,976	Lithuania	1,013
Belgium	32,663	Luxembourg	486
Bulgaria	1,294	Malta	183
Croatia	1,048	Netherlands	23,520
Cyprus	245	Norway	2,061
Czech Republic	4,082	Poland	6,103
Denmark	3,829	Portugal	2,442
Estonia	359	Romania	2,962
Finland	1,918	Russia	8,015
France	24,694	Slovakia	1,709
Germany	47,672	Slovenia	1,259
Greece	3,092	Spain	13,190
Hungary	3,971	Sweden	3,850
Ireland	9,540	Switzerland	26,680
Italy	23,390	Turkey	3,938
Latvia	598	United Kingdom	29,850
TOTAL			294,632

Note:

All data based on SITC 54

Source: Eurostat (COMEXT database – May 2019)

Norway, Turkey: OECD, Harmonised System Chapter 30; Switzerland: Swiss Federal Customs Administration



PHARMACEUTICAL TRADE BALANCE

FPIA 2017	€ million
Austria	966
Belgium	7,631
Bulgaria	-401
Croatia	96
Cyprus	33
Czech Republic	-1,791
Denmark	8,667
Estonia	-277
Finland	-1,166
France	3,959
Germany	27,446
Greece	-1,902
Hungary	1,044
Ireland	25,911
Italy	465
Latvia	-160

	€ million
Lithuania	-309
Luxembourg	-147
Malta	82
Netherlands	8,209
Norway	-1,392
Poland	-2,087
Portugal	-1,361
Romania	-2,213
Russia	-7,702
Slovakia	-1,379
Slovenia	1,469
Spain	-2,450
Sweden	3,706
Switzerland	39,694
Turkey	-3,163
United Kingdom	-74
	101,404

<u>Note</u>:

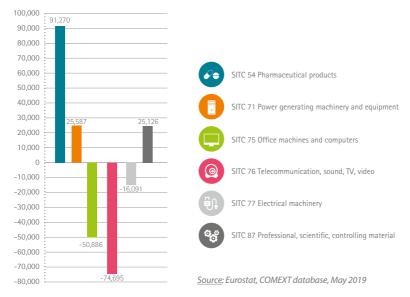
All data based on SITC 54

Source: Eurostat (COMEXT database – May 2019)

Norway, Turkey: OECD, Harmonised System Chapter 30; Switzerland: Swiss Federal Customs Administration

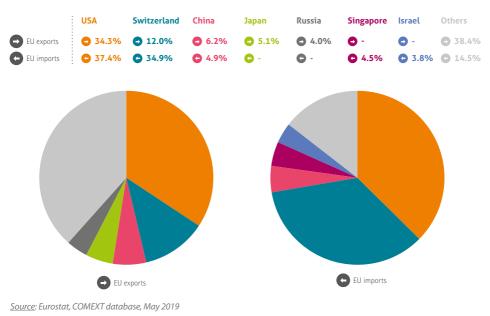


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EU-28 TRADE BALANCE - HIGH TECHNOLOGY SECTORS (€ MILLION) - 2018

THE EUROPEAN UNION'S TOP 5 PHARMACEUTICAL TRADING PARTNERS - 2018



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

Country	1980	1990	2000	2010	2015	2017
Austria	7.0	7.7	9.2	10.2	10.3	10.3
Belgium	6.1	7.1	7.9	9.8	10.1	10.0
Czech Republic	-	3.7	5.7	6.9	7.1	7.1
Denmark	8.4	8.0	8.1	10.3	10.3	10.2
Estonia	-	-	5.2	6.3	6.5	6.7
Finland	5.9	7.2	6.8	8.9	9.7	9.2
France	6.7	8.0	9.5	11.2	11.5	11.5
Germany	8.1	8.0	9.8	11.0	11.1	11.3
Greece	-	6.1	7.2	9.6	8.2	8.4
Hungary	-	-	6.8	7.5	7.1	7.2
Iceland	6.0	7.6	9.0	8.8	8.3	8.5
Ireland	7.5	5.6	5.9	10.5	7.4	7.1
Italy	-	7.0	7.6	9.0	9.0	8.9
Latvia	-	-	5.4	6.1	5.7	6.3
Luxembourg	4.6	5.1	5.9	7.0	6.2	6.1
Netherlands	6.6	7.1	7.1	10.4	10.4	10.1
Norway	5.4	7.1	7.7	8.9	10.1	10.4
Poland	-	4.3	5.3	6.4	6.3	6.7
Portugal	4.8	5.5	8.4	9.8	9.0	9.0
Slovakia	-	-	5.3	7.8	6.9	7.1
Slovenia	-	-	7.8	8.6	8.5	8.0
Spain	5.0	6.1	6.8	9.0	9.1	8.8
Sweden	7.8	7.3	7.4	8.5	11.0	10.9
Switzerland	6.6	7.9	9.8	10.7	11.9	12.3
Turkey	2.4	2.5	4.6	5.1	4.1	4.2
United Kingdom	5.1	5.1	6.0	8.5	9.8	9.6
Europe	6.1	6.4	7.1	8.7	8.6	8.6
USA	8.2	11.3	12.5	16.4	16.8	17.2
Japan	6.2	5.8	7.2	9.2	10.9	10.7

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

Source: OECD Health Statistics 2018, May 2019

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

EFPIA 2017	€ million
Austria	2,821
Belgium	4,180
Bulgaria	408
Croatia	382
Cyprus	93
Czech Rep.	1,246
Denmark	758
Estonia	132
Finland	1,387
France	23,704
Germany	37,703
Greece	1,945
Hungary	1,094
Iceland	69
Ireland	1,579
Italy	8,116
Latvia	147

	€ million
Lithuania	226
Malta	n.a.
Netherlands	2,924
Norway	1,269
Poland	1,941
Portugal	1,213
Romania	1,446
Russia	1,734
Serbia	243
Slovakia	1,172
Slovenia	307
Spain	10,171
Sweden	2,252
Switzerland	5,197
Turkey	6,368
U.K.	11,548

TOTAL

Note:

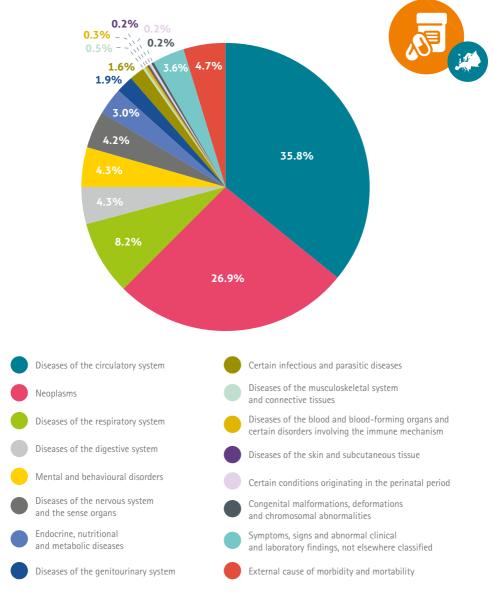
Croatia, Turkey: 2016 data; Cyprus: 2015 data France, Ireland, Netherlands, Norway, Sweden, U.K.: estimate

Source: EFPIA member associations (official figures)



133,775

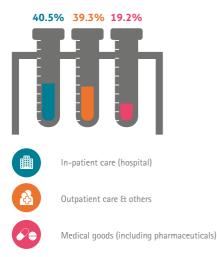
CAUSES OF DEATH BY MAJOR DISEASE AREAS IN EUROPE (EU-28)



Data Source: Eurostat, data relate to year 2016 (non-disease directly related causes of deaths: EFPIA calculations), May 2019

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BREAKDOWN OF TOTAL HEALTH EXPENDITURE IN EUROPE – 2016



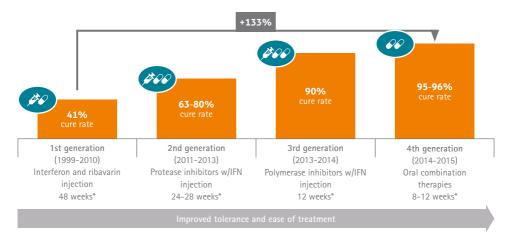
THE ADDED VALUE OF MEDICINES IN HEALTHCARE

Medicines constitute a small part of healthcare costs with, on average, 19.2% 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 even less than 10% 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 2018, May 2019 – EFPIA calculations (non-weighted average for 25 EU & EFTA countries)

CHRONOLOGY OF HEPATITIS C TREATMENT (1999-2015)

* 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 🌟 Key Data | 2019

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)

Groece Hellenic Association of Pharmaceutical Companies (SFEE)

Ireland

Irish Pharmaceutical Healthcare Association (IPHA)

Ital

Associazione delle Imprese del Farmaco (Farmindustria)

Netherlands

Vereniging Innovatieve Geneesmiddelen

Norway Legemiddelindustrien

Norwegian Association of Pharmaceutical Manufacturers (LMI)

Employers Union of Innovative Pharmaceutical Companies (Infarma)

Portugal Associação Portuguesa da Indústria Farmacêutica (Apifarma)

Russia

Association of International Pharmaceutical Manufacturers (AIPM)

Spair

Asociación Nacional Empresarial de la Industria Farmacéutica (Farmaindustria)

Swede

Läkemedelsindustriföreningen

The Swedish Association of the Pharmaceutical Industry (LIF)

Switzerland

Verband der forschender pharmazeutischen Firmen der Schweiz (Interpharma)

Turkey

Arastirmaci Ilac 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 (iF!) **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) Malta: Maltese Pharmaceutical Association (PRIMA) North Macedonia: Association of Foreign Innovative Pharmaceutical Manufacturers (HOBA) **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	
Celgene	
Chiesi	
GlaxoSmithKline	
Grünenthal	
lpsen	
Johnson & Johnson	
LEO Pharma	
Lilly	

Merck
Merck Sharp & Dohme (MSD)
Novartis
Novo Nordisk
Pfizer
Pierre Fabre
Roche
Sanofi
Servier
Shire
Takeda
Teva
UCB

Affiliate Members

Bial	
Daiichi-Sankyo	
Eisai	
Esteve	
Lundbeck	
Otsuka	
Rovi	
Vifor Pharma	





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

Founded in 1978, its members comprise **36** national pharmaceutical industry associations and **39** leading pharmaceutical companies 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 more than 1,900 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. Two specialised groups have been created within EFPIA to address specific issues relating to vaccines (Vaccines Europe) and the needs of biopharmaceutical companies (EBE - European Biopharmaceutical Enterprises).

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





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