BIG PHARMA'S DARK PAST

BY ALEC ZECK

MRNA VACCINE CLINICAL TRIALS

Primary Efficacy Endpoint (PEE): the main result that is measured at the end of a study to see if a given treatment worked

The PEE for the Pfizer & Moderna COVID vaccines was symptom reduction

SOURCE: PFIZER & MODERNA CLINICAL TRIAL DATA

MRNA VACCINE CLINICAL TRIALS

The reported efficacy for Pfizer was **95%**

The reported efficacy for Moderna was **94%**

This was a clever statistical manipulation.

SOURCE: PFIZER & MODERNA CLINICAL TRIAL DATA

MRNA VACCINE CLINICAL TRIALS: PFIZER

A COVID case was defined as a **positive PCR test with one or more of the following symptoms:** fever, new or increased cough, new or increased shortness of breath, chills, new or increased muscle pain, new loss of taste or smell, sore throat, diarrhea, or vomiting.

170 total participants were considered a COVID case.

In the experimental group, there were **8** COVID cases >7 days post 2nd dose.

In the placebo group, there were **162** COVID cases >7 days post 2nd dose.

8/170 vs. 162/170. Seems pretty effective, right?

SOURCE: PFIZER & MODERNA CLINICAL TRIAL DATA

MRNA VACCINE CLINICAL TRIALS: PFIZER

Relative Risk Reduction (RRR) was used to calculate efficacy.

The RRR equation does not account for the total number of participants in the clinical trials.

There were a total of **43,448** participants in the Pfizer trials:
21,720 BNT162b2 (Pfizer) and **21,728** placebo.

Absolute Risk Reduction (ARR) does, however, account for the total number of participants, reflecting the true risk and true reduction of risk.

SOURCE: PFIZER & MODERNA CLINICAL TRIAL DATA

MRNA VACCINE CLINICAL TRIALS: PFIZER

Placebo group: 162/21,728 = 0.74% risk

Experimental group: 8/21,720 = .03% risk

ARR is 0.7%

In other words, the true effectiveness at **reducing symptoms of illness** across a population is **0.7%.**

SOURCE: PFIZER & MODERNA CLINICAL TRIAL DATA

MRNA VACCINE CLINICAL TRIALS: MODERNA

The same trick was used with Moderna:

14,134 participants in experimental group, 11 COVID cases.
14,073 participants in placebo group, 185 COVID cases.

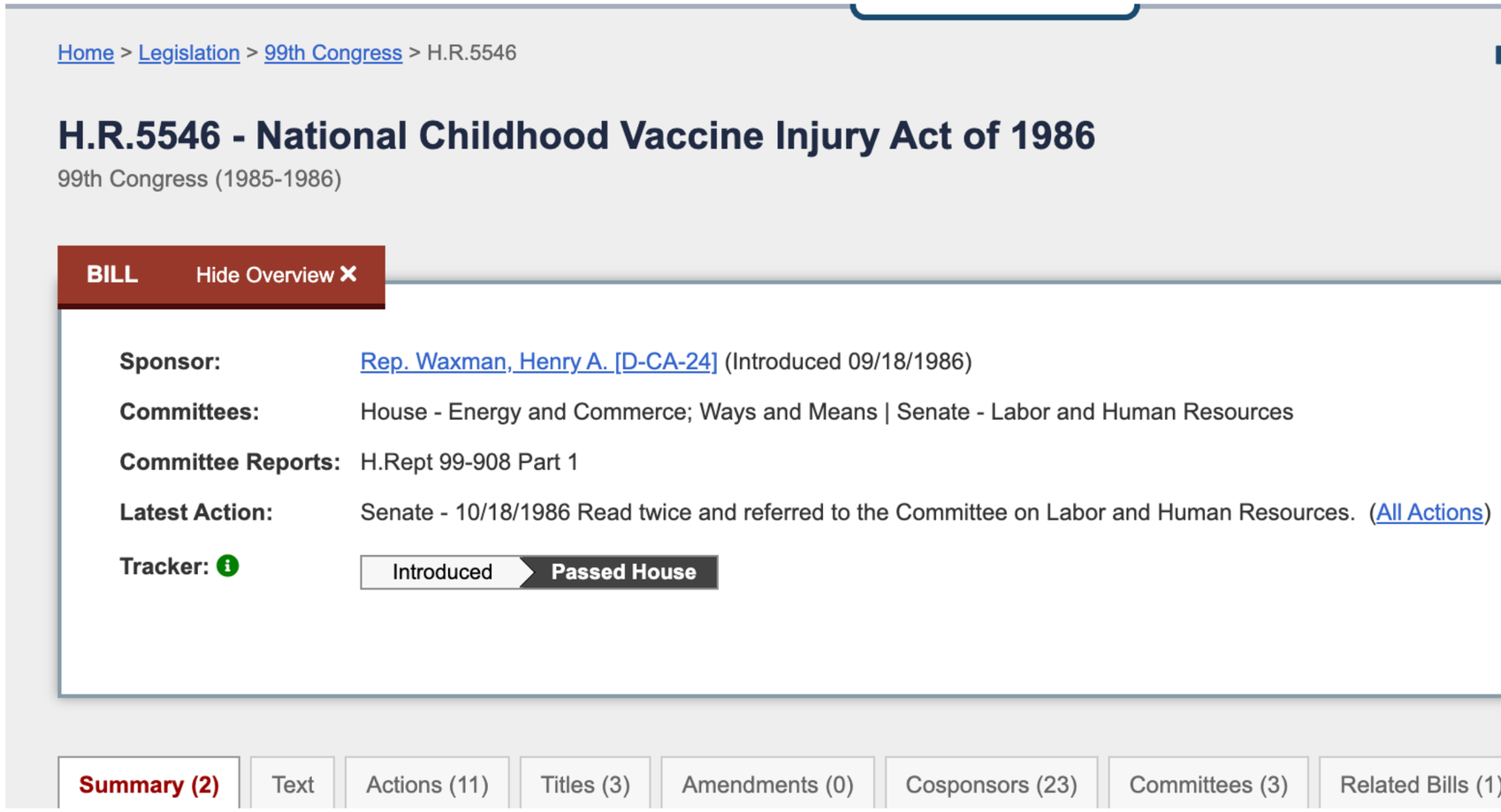
Reported Efficacy (RRR): 94%

Efficacy across a population (ARR): 1.2%

SOURCE: PFIZER & MODERNA CLINICAL TRIAL DATA

THE NATIONAL CHILDHOOD VACCINE INJURY ACT OF 1986

"Provides that no vaccine manufacturer shall be liable in a civil action for damages arising from a vaccine-related injury or death: (1) resulting from unavoidable side effects; or (2) solely due to the manufacturer's failure to provide direct warnings."

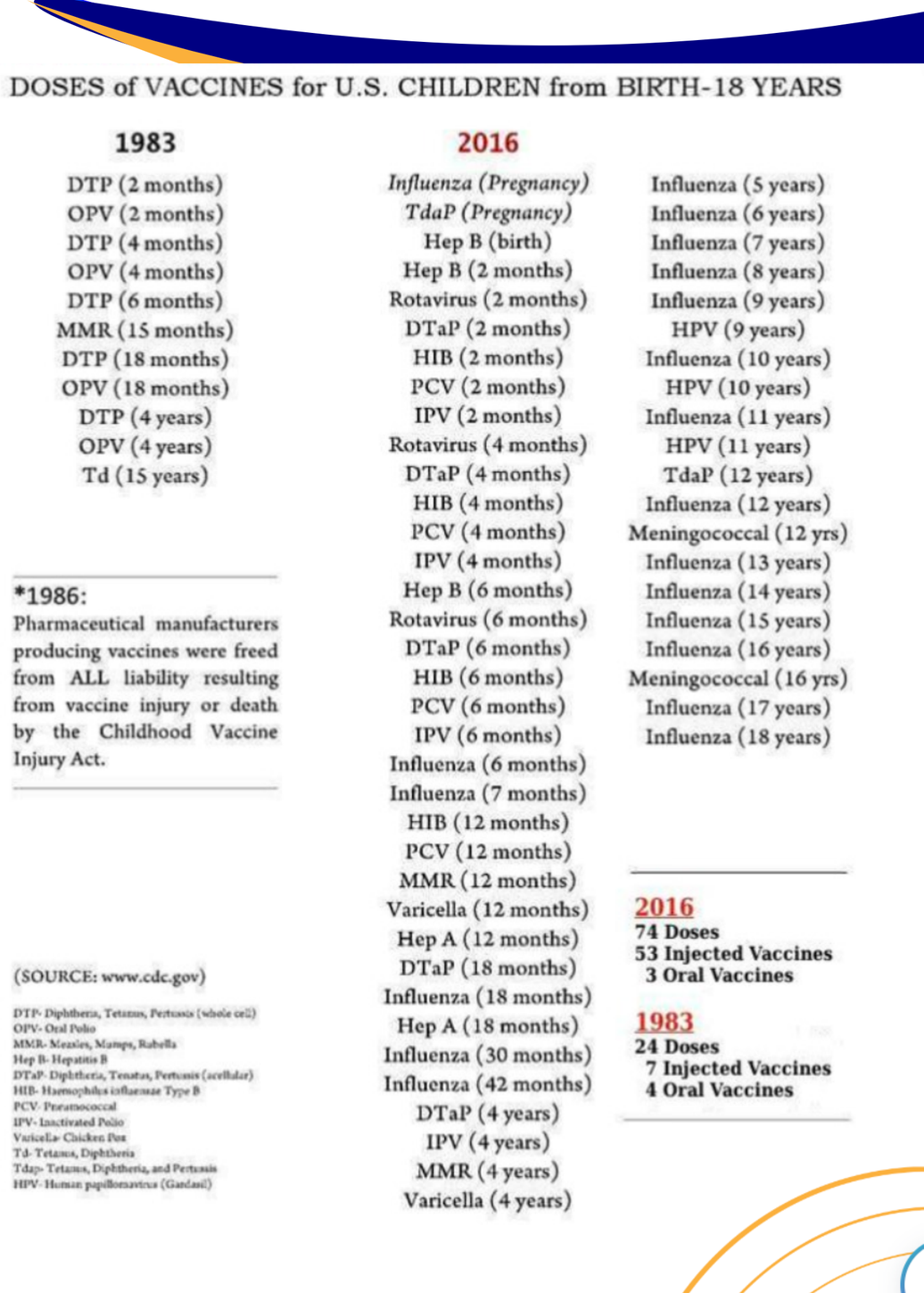


SOURCE: https://www.congress.gov/bill/99th-congress/house-bill/5546

THE DRAMATIC INCREASE OF THE CDC CHILDHOOD VACCINATION SCHEDULE

Clear, strong correlation between the increase in the childhood vaccination schedule and the increase in chronic diseases, neurological conditions, learning disabilities, Sudden Infant Death Syndrome, etc.

Please check out the website VACCINE.GUIDE



VACCINE SCHEDULE FACTS

- No vaccine on the **CDC's schedule** has been subjected to a **double-blind** randomized **placebo controlled** study.
  - Placebo used in vaccine safety studies is typically another vaccine on the schedule rather than an inert substance.

- There are no studies on record determining the safety of multiple shots given in one sitting.

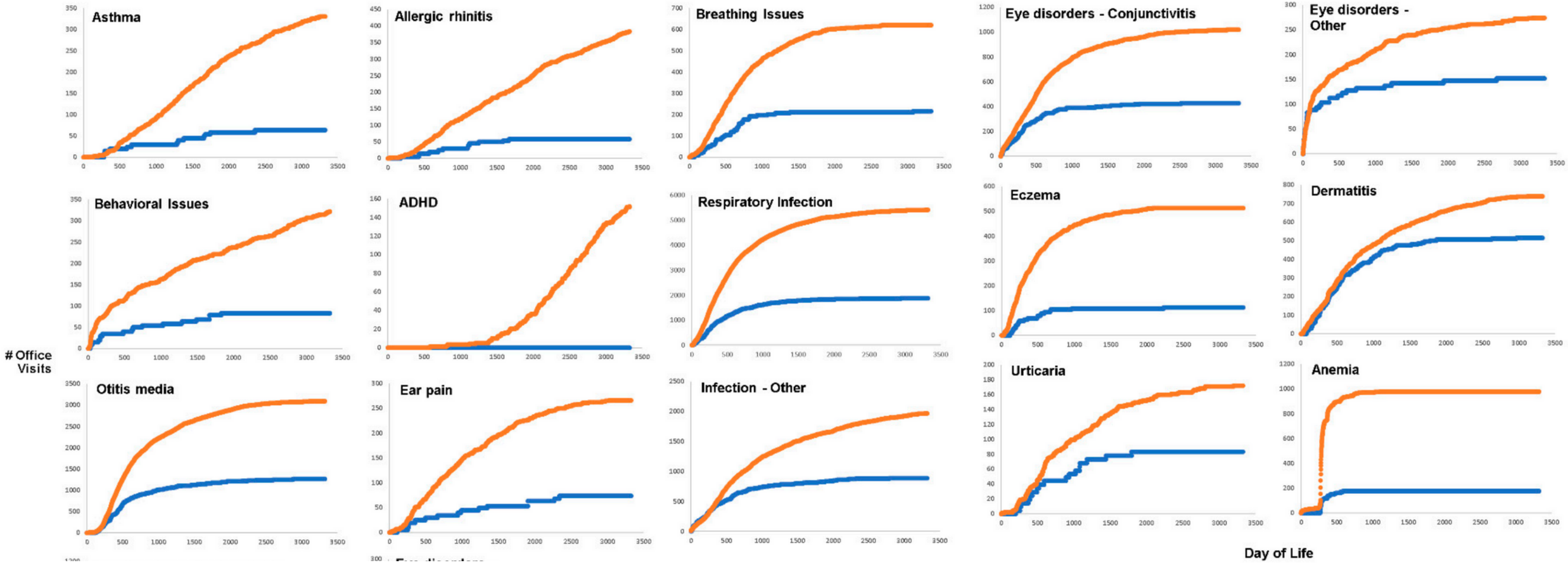
- The CDC childhood schedule has not been tested for safety in its entirety.

- The CDC has no studies on record comparing the health of fully vaccinated vs. fully unvaccinated children.

VACCINATED VS. UNVACCINATED STUDY: DR. PAUL THOMAS

Vaccinated
Unvaccinated

RELATIVE INCIDENCE OF OFFICE VISIT OF 3324 PATIENTS OVER THE COURSE OF 10 YEARS



Source:Thomas, P., et al (2020). Relative Incidence of Office Visits and Cumulative Rates of Billed Diagnoses Along the Axis of Vaccination. International Journal of Environmental Research and Public Health.

OTHER VACCINATED VS. UNVACCINATED STUDIES

Pilot comparative study on the health of vaccinated and unvaccinated 6- to 12-year-old U.S. children

Anthony R Mawson[1*], Brian D Ray[2], Azad R Bhuiyan[3] and Binu Jacob[4]

[1]Professor, Department of Epidemiology and Biostatistics, School of Public Health, Jackson State University, Jackson, MS 39213, USA

[2]President, National Home Education Research Institute, PO Box 13939, Salem, OR 97309, USA

[3]Associate Professor, Department of Epidemiology and Biostatistics, School of Public Health, Jackson State University, Jackson, MS 39213, USA

[4]Former graduate student, Department of Epidemiology and Biostatistics School of Public Health, Jackson State University, Jackson, MS 39213, USA

Health effects in vaccinated versus unvaccinated children, with covariates for breastfeeding status and type of birth

Brian S. Hooker[1*] and Neil Z. Miller[2]

[1]Department of Sciences and Mathematics, Simpson University, Redding, California 96003 USA

[2]Institute of Medical and Scientific Inquiry, Santa Fe, New Mexico 87506 USA

SOURCE:
https://expose-news.com/2022/05/20/kids-death-risk-increases-8100percent-covid-vaccination/
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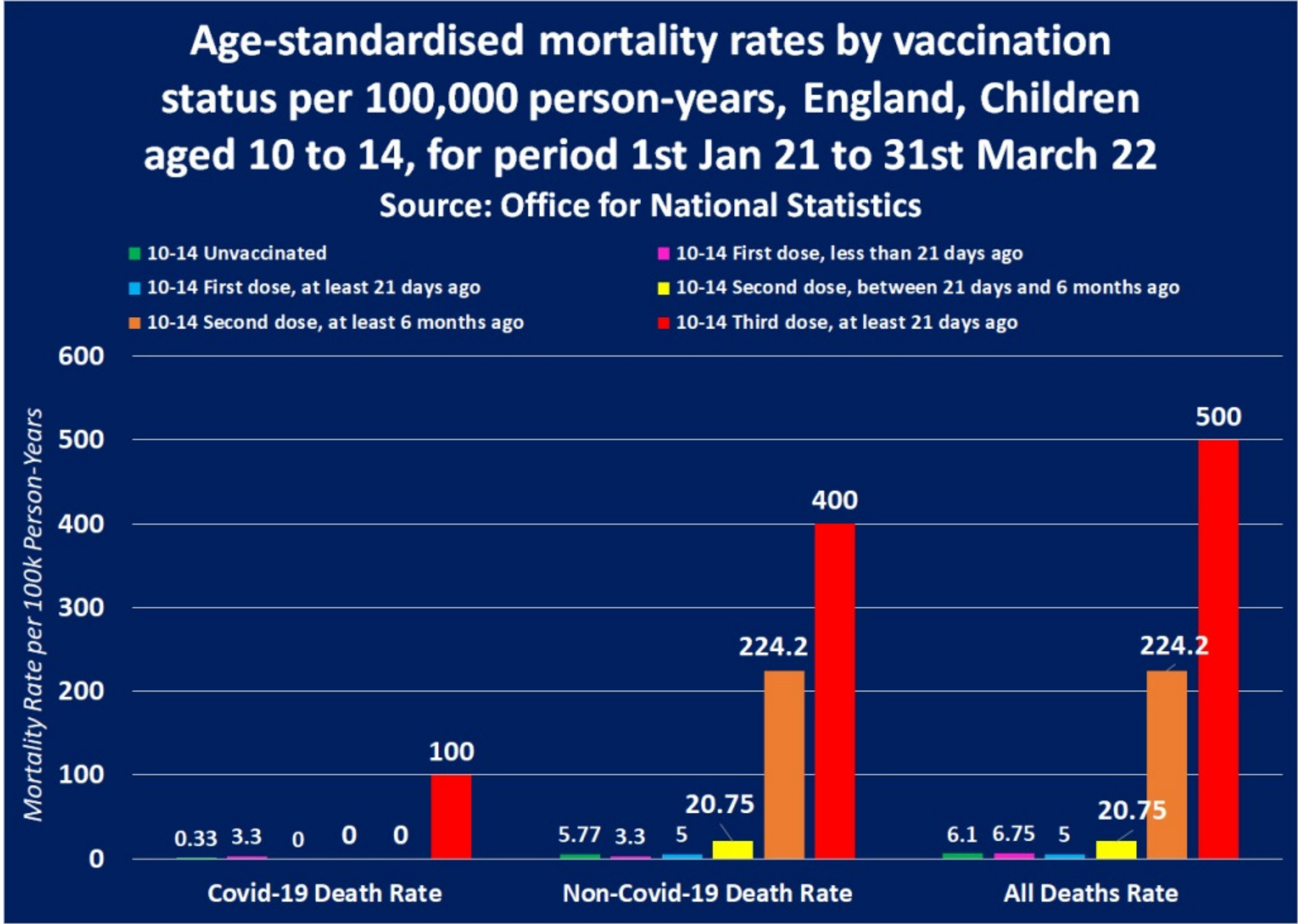

PHARMACEUTICAL CORRUPTION: THE CDC

CDC Members Own More Than 50 Patents Connected to Vaccinations

"CDC members own numerous patents associated with vaccinations and regularly receive funding for their research work from the very same pharmaceutical companies who manufacturer vaccinations which are ultimately sold to the public. This situation creates an obvious conflict of interest, as members of the [CDC's Advisory Committee on Immunization Practices] ACIP committee benefit financially every time a new vaccination is released to the market."

SOURCE: (2018). CDC Members Own More Than 50 Patents Connected to Vaccinations. LawFirms.com.

PHARMACEUTICAL CORRUPTION: THE CDC

CDC Foundation, a Public-Private Partnership

In 1983, the CDC became authorized to accept "gifts" from industry and other private parties.[3] In 1992, Congress created the non-profit CDC Foundation (a 501(c)(3) organization), which greatly expanded the CDC's ability to accept private funding. It began operations in 1995.[3] As donations to the CDC Foundation started pouring in, the door to conflicts of interest and corruption was opened wide. The CDC Foundation awards grants, forms "collaborative alliances" between the CDC and single private-sector organizations, and engages in "research collaborations" with industry and other entities.[4] A 16 percent administrative fee is built into each grant or other agreement.[4]

2021 Donors:
Johnson & Johnson
Bill & Melinda Gates Foundation
GAVI, The Vaccine Alliance
Merck
Astrazeneca
Thermo Fisher Scientific
Novartis US Foundation
World Health Organization

SOURCE: Huntoon, L. (2020). CDC: Bias and Disturbing Conflicts of Interest. Journal of American Physicians and Surgeons.

PHARMACEUTICAL CORRUPTION: THE CDC

For almost all special Government employees, CDC did not ensure that financial disclosure forms were complete in 2007. CDC certified OGE Forms 450 with at least one omission in 2007 for 97 percent of SGEs. Most of the forms had more than one type of omission.

CDC did not identify or resolve potential conflicts of interest for 64 percent of special Government employees in 2007. Sixty-four percent of SGEs had potential conflicts of interest in 2007 that CDC did not identify and/or resolve before it certified their OGE Forms 450. Specifically, 58 percent of SGEs had potential conflicts of interest that CDC did not identify. In addition, 32 percent of SGEs had potential conflicts of interest that CDC identified but did not resolve. Twenty-six percent of SGEs had both CDC-unidentified and unresolved potential conflicts of interest.

SOURCE: (2009). CDC'S ETHICS PROGRAM FOR SPECIAL GOVERNMENT EMPLOYEES ON FEDERAL ADVISORY COMMITTEES. Department of Health and Human Services.

PHARMACEUTICAL CORRUPTION: THE FDA

Congress enacted the Prescription Drug User Fee Act (PDUFA) in 1992.

This required pharmaceutical companies to pay "user fees" for new drug applications (NDAs.

"As a concession to agreeing to these 'user fees', the pharmaceutical industry was promised that the FDA would reduce review times of NDAs to 12 months for those that were considered 'standard' applications and to 6 months for priority applications that involved significant advances over existing treatments."

SOURCE: Lamattina, J. (2018). The Biopharmaceutical Industry Provides 75% Of The FDA's Drug Review Budget. Is This A Problem? Forbes.

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Jun 28, 2018, 07:42am EDT

The Biopharmaceutical Industry Provides 75% Of The FDA's Drug Review Budget. Is This A Problem?

John LaMattina Contributor

Healthcare

I cover news on drugs and R&D in the pharma industry

SOURCE: Lamattina, J. (2018). The Biopharmaceutical Industry Provides 75% Of The FDA's Drug Review Budget. Is This A Problem? Forbes.

PHARMACEUTICAL CORRUPTION: THE FDA

"The authorization of user fees in 1992 has turned drug companies into the FDA's prime clients, deepening the regulatory and cultural capture of the agency. Industry has demanded shorter average review times and, with less time to thoroughly review evidence, increased hospitalizations and deaths have resulted. Meeting the needs of the drug companies has taken priority over meeting the needs of patients. Unless this corruption of regulatory intent is reversed, the situation will continue to deteriorate."

"The pharmaceutical industry has corrupted the practice of medicine through its influence over what drugs are developed, how they are tested, and how medical knowledge is created."

"One in every five drugs approved ends up causing serious harm, while one in ten provide substantial benefit compared to existing, established drugs. This is the opposite of what people want or expect from the FDA."

SOURCE: Light, D. W., & Lexchin, J. (2013). Institutional corruption of pharmaceuticals and the myth of safe and effective drugs. Journal of Law, Medicine & Ethics.

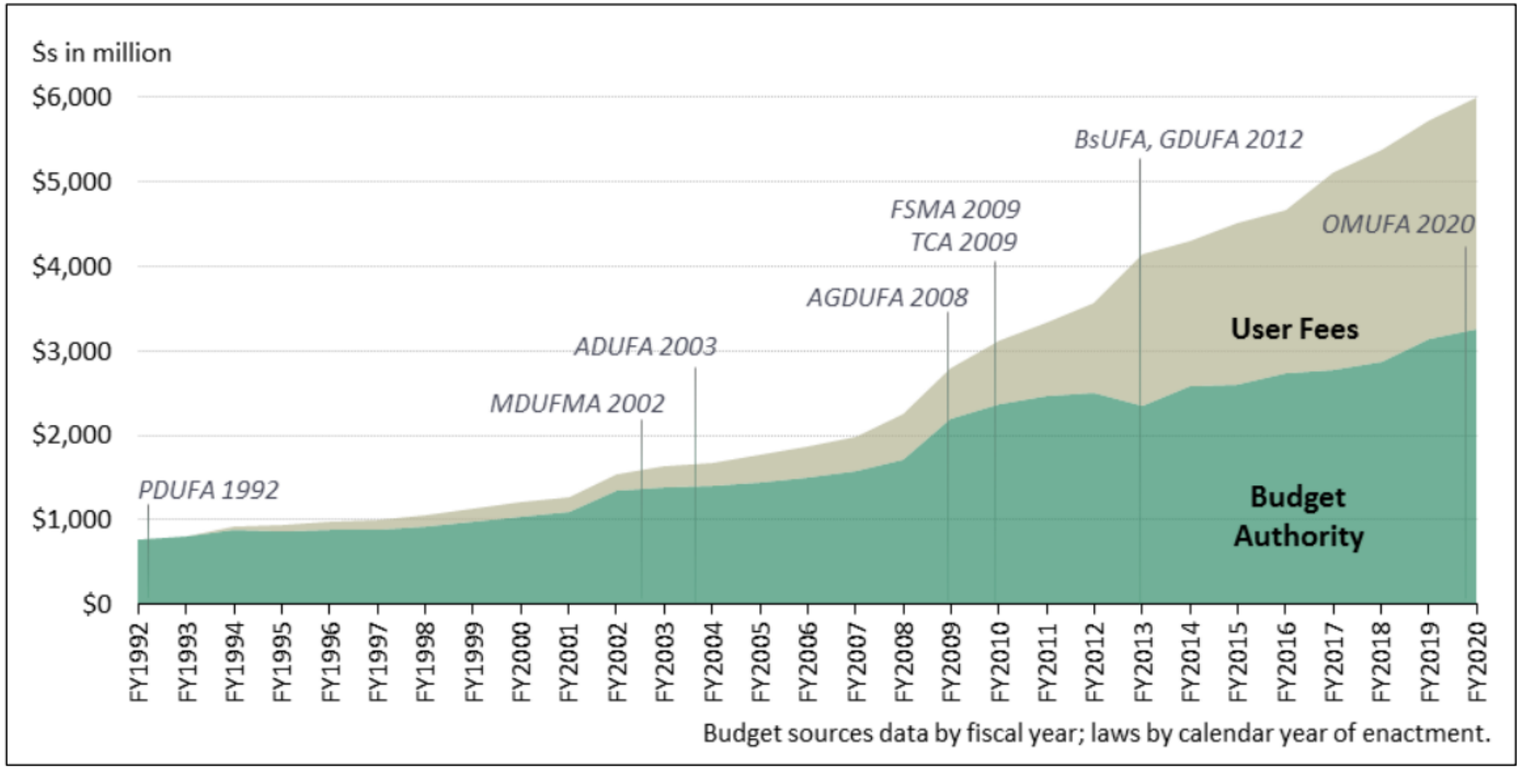
PHARMACEUTICAL CORRUPTION: THE FDA

FDA Funding History and FY2022 Appropriations

Since the enactment of PDUFA in 1992, FDA's spending from user fees has generally increased, both in absolute terms and as a share of FDA's total budget, accounting for over 45% of the agency's FY2020 total program level (see **Figure 1**).

Figure 1. FDA Spending, by Source, FY1992-FY2020

(in millions of dollars)



SOURCE: (2022). The Food and Drug Administration (FDA) Budget: Fact Sheet. Congressional Research Service.

PHARMACEUTICAL CORRUPTION: THE FDA

THE FDA DOES NOT CONDUCT ITS OWN STUDIES

"Another fact that Americans should know is that the FDA does not conduct its own independent studies on drug safety and effectiveness when approving drugs. It relies on data and studies provided by the manufacturers.

This means the FDA can only base its approval or denial on the information the drug company provides, and drug companies may cherry-pick the data they want the FDA to see."

"Eli Lilly Pharmaceuticals conducted 20 studies to prove the antidepressant effect of fluoxetine hydrochloride, more popularly known as Prozac. Only three studies were ever submitted to the FDA for approval due to 17 outright failures."

SOURCE: Llamas, Michelle. (2017). WHY FDA APPROVAL DOESN'T GUARANTEE DRUG SAFETY. Drug Watch.

PHARMACEUTICAL CORRUPTION: THE FDA

Scott Gottlieb was the Commissioner of the FDA from 2017-2019.

While Commissioner, Gottlieb "sped up the approval process for experimental and generic drugs."

Scott Gottlieb joined Pfizer in late 2019.

The mRNA shots were expedited in their approval process.

SOURCE: Flynn, K. H. (2019). For Big Pharma, the revolving door keeps spinning. The Hill.

PHARMACEUTICAL CORRUPTION: THE FDA

Stephen Hahn was the commissioner of the FDA from 2019-2021.

After leaving the FDA, he joined Flagship, the founder of Moderna.

"Hahn joins Flagship, one of the highest-profile creators of biotech companies, as the venture firm is turning its success with Moderna and other startups into new capital. On Monday, Flagship announced the closing of its seventh fund, which raised a total of $3.4 billion after reopening for new investments in April... Flagship founded Moderna in 2009 and remains one of its biggest investors, raising questions about Hahn's appointment."

SOURCE: Gardner, J. (2021). Former FDA chief Hahn joins venture firm that launched Moderna. Biopharma Dive.

PHARMACEUTICAL CORRUPTION: THE FDA

Robert Califf currently serves as the commissioner of the FDA.

Per Califf's wikipedia page, he "worked very closely with pharmaceutical companies at the Duke clinical trials center 'convincing them to do large, expensive, and, for Duke, profitable clinical trials.' He was a paid consultant for Merck Sharp & Dohme, Johnson & Johnson, GlaxoSmithKline, AstraZeneca, and Eli Lilly per ProPublica from 2009 to 2013... Forbes wrote that his close ties to the drug industry were why he was not nominated for the FDA Commissioner position in 2009. Califf's ties to the pharmaceutical industry were criticized by the magazine The American Prospect, and Democratic Senators Bernie Sanders and Joe Manchin who announced their intention to vote against his 2021 renomination."

SOURCE: Wikipedia; Robert Califf

PHARMACEUTICAL CORRUPTION: THE FDA

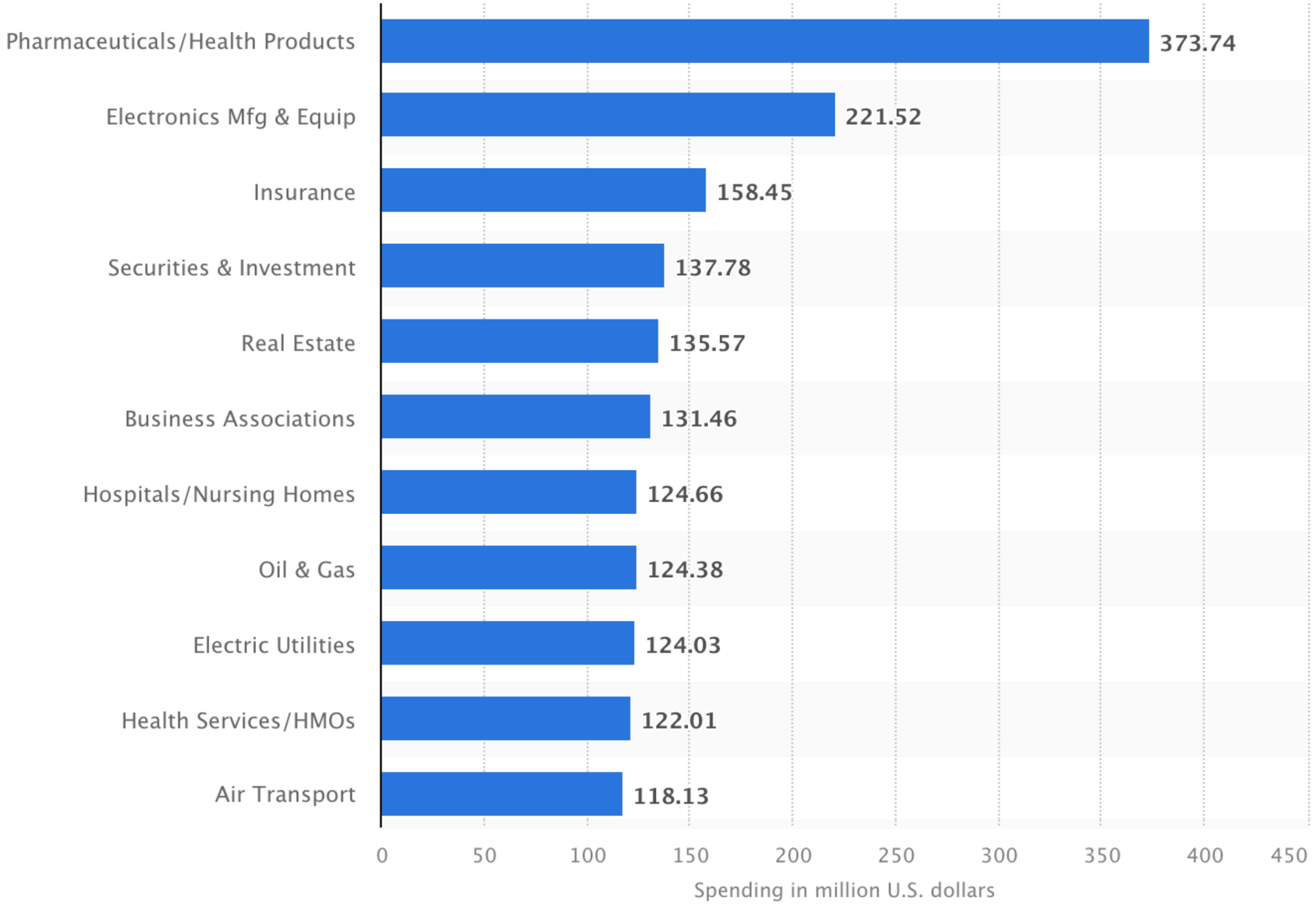
"Through web searches and online services such as LinkedIn, however, Science has discovered that 11 of 16 FDA medical examiners who worked on 28 drug approvals and then left the agency for new jobs are now employed by or consult for the companies they recently regulated."

"In 2012 and 2013, data expert Joan Buenconsejo led FDA's analysis of medical statistics in drug reviews, including offerings from AstraZeneca. In 2014, she joined the company as a director and biometrics team leader. By 2015, Buenconsejo had already represented AstraZeneca before her former FDA colleagues as the company sought a drug's approval."

SOURCE: Piller, C. (2018). FDA's revolving door: Companies often hire agency staffers who managed their successful drug reviews. Science.

PHARMACEUTICAL CORRUPTION: CONGRESS

SOURCE: https://www.statista.com/statistics/257364/top-lobbying-industries-in-the-us/



PHARMACEUTICAL CORRUPTION: DOCTORS

"The latest data release comes on the heels of a study earlier this year that found that about 65 percent of patients in the United States visited a doctor who received payments from drug companies, although most have no idea about the payments."

Companies Making Payments in 2018

Aggregate totals are shown, including payments to doctors and teaching hospitals. To purchase bulk data, please visit the ProPublica Data Store.

COMPANY	NUMBER OF PAYMENTS	PAYMENT TOTALS
PFIZER INC.	594,301	$48.9M
ASTRAZENECA PHARMACEUTICALS LP	454,502	$45M
NOVO NORDISK INC	422,115	$24M
ALLERGAN INC.	412,217	$73M
AMGEN INC.	398,012	$41.4M
JANSSEN PHARMACEUTICALS, INC	342,280	$27.1M
NOVARTIS PHARMACEUTICALS CORPORATION	329,319	$32.1M
ABBVIE, INC.	326,346	$42.9M
GLAXOSMITHKLINE, LLC.	321,501	$8.59M
MERCK SHARP & DOHME CORPORATION	286,214	$37.4M

SOURCES: 1) Silverstrini, E. (2017). Drug and Device Companies Gave Billions to Doctors in 2016. Drug Watch.
2) https://projects.propublica.org/docdollars/company

PHARMACEUTICAL CORRUPTION: DOCTORS

"direct to physician marketing and industry gifts account for over 80% of all promotional expenditure in the drug industry. And a recent national survey found that **94% of physicians accept some form of industry gifts or payments."**

SOURCE: https://medslawsuit.com/frauds/what-is-a-pharmaceutical-kickback/

PHARMACEUTICAL CORRUPTION: THE MEDIA

"With the exception of CBS, **every major media outlet in the United States shares at least one board member with at least one pharmaceutical company.** To put that into perspective: These board members wake up, go to a meeting at Merck or Pfizer, then they have their driver take them over to a meeting with NBC to decide what kind of programming that network is going to air."

SOURCE: Bentley, G. (2017). NBC/ABC/MSNBC – Owned & Operated By US Drug Corporations. The Ring of Fire Network.

PHARMACEUTICAL MARKETING

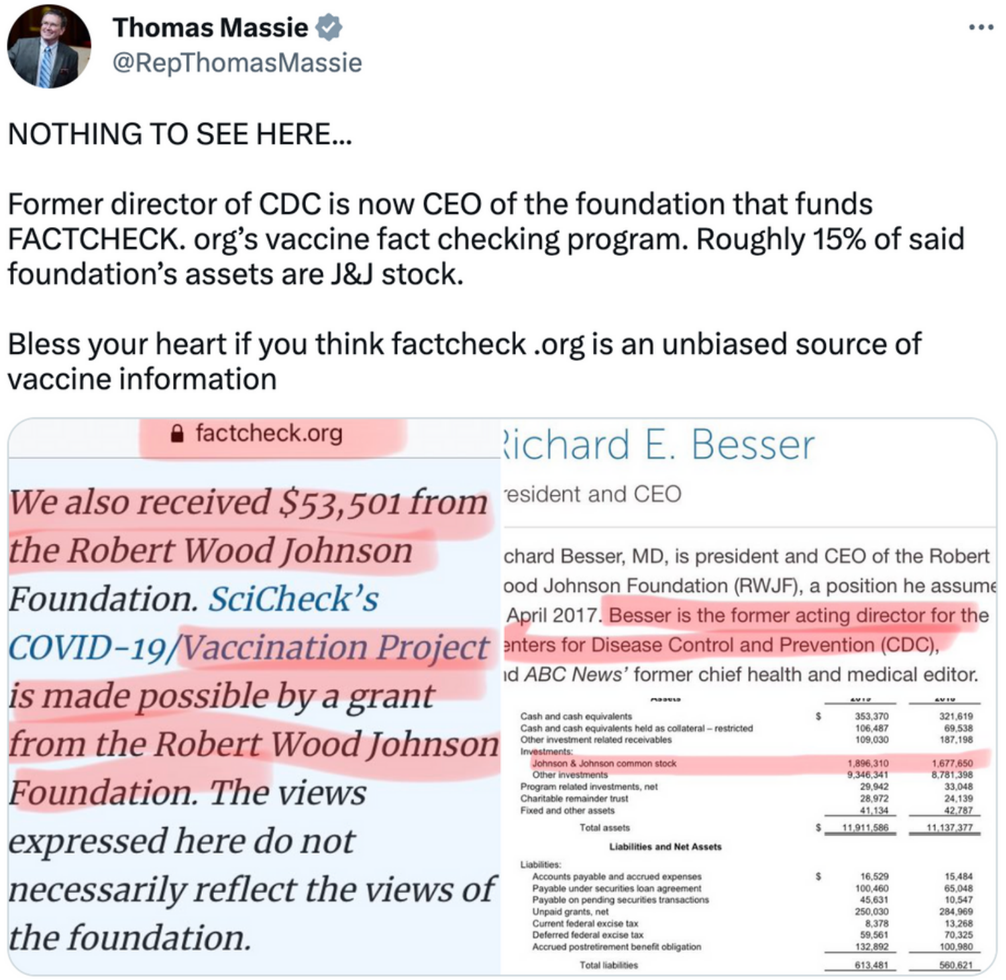
- In 2020, BIG PHARMA spent $4.58 billion on TV advertising
  - TV ad spending of the pharma industry accounted for 75 percent of the total ad spend.

- In 2021, BIG PHARMA spent $11.25 billion on digital advertising
  - Google SEM was the most popular platform

SOURCE: https://www.statista.com/topics/8415/pharma-and-healthcare-industry-advertising-in-the-us/#topicOverview

PHARMACEUTICAL CORRUPTION: FACT CHECKERS

Congressman Thomas Massie "highlighted the fact that a Facebook-partnered website [factcheck.org]'s COVID-19/Vaccination 'fact-checking' project is funded by a group that holds **$1.9 billion in Johnson & Johnson stock** and is headed by the former director of the Centers for Disease Control."



Thomas Massie
@RepThomasMassie

NOTHING TO SEE HERE...

Former director of CDC is now CEO of the foundation that funds FACTCHECK. org's vaccine fact checking program. Roughly 15% of said foundation's assets are J&J stock.

Bless your heart if you think factcheck .org is an unbiased source of vaccine information

factcheck.org

We also received $53,501 from the Robert Wood Johnson Foundation. SciCheck's COVID-19/Vaccination Project is made possible by a grant from the Robert Wood Johnson Foundation. The views expressed here do not necessarily reflect the views of the foundation.

Richard E. Besser

esident and CEO

chard Besser, MD, is president and CEO of the Robert ood Johnson Foundation (RWJF), a position he assume April 2017. Besser is the former acting director for the enters for Disease Control and Prevention (CDC), d *ABC News'* former chief health and medical editor.

Cash and cash equivalents	$ 353,370	321,619
Cash and cash equivalents held as collateral – restricted	106,487	69,538
Other investment related receivables	109,030	187,198
Investments:		
Johnson & Johnson common stock	1,896,310	1,677,650
Other investments	9,346,341	8,781,398
Program related investments, net	29,942	33,048
Charitable remainder trust	28,972	24,139
Fixed and other assets	41,134	42,787
Total assets	$ 11,911,586	11,137,377
Liabilities and Net Assets		
Liabilities:		
Accounts payable and accrued expenses	$ 16,529	15,484
Payable under securities loan agreement	100,460	65,048
Payable on pending securities transactions	45,631	10,547
Unpaid grants, net	250,030	284,969
Current federal excise tax	8,378	13,268
Deferred federal excise tax	59,561	70,325
Accrued postretirement benefit obligation	132,892	100,980
Total liabilities	613,481	560,621

SOURCE: Mangiaracina, E. (2021). Major vaccine 'fact-checker' funded by group headed by former CDC director with $1.9B in J&J stock. Lifesite News.

JOHNSON & JOHNSON CRIMINAL HISTORY

- 2021: Knowingly sold baby powder laced with asbestos & other cancer causing chemicals for over 60 years, reached a $9 billion settlement.

- 2021: reached an agreement with a group of states under which it would pay $5 billion to resolve litigation brought against its subsidiary Janssen Pharmaceuticals alleging improper sale of pain medications, contributing to the national opioid epidemic.

- 2013: he Justice Department announced that J&J and several of its subsidiaries would pay more than $2.2 billion in criminal fines and civil settlements to resolve allegations that the company had marketed its anti-psychotic medication Risperdal and other drugs for unapproved uses as well as allegations that they had paid kickbacks to physicians and pharmacists to encourage off-label usage.

- 2011: agreed to pay a $21.4 million criminal penalty as part of a deferred prosecution agreement with the Justice Department resolving allegations of improper payments by J&J subsidiaries to government officials in Greece, Poland, Romania, etc.

SOURCE: https://www.corp-research.org/jnj

MERCK CRIMINAL HISTORY

- **2004:** Merck withdrew Vioxx from the market after being notified that users were found to have an elevated risk of heart attack or stroke. Several weeks later, the Wall Street Journal, which had obtained internal company e-mails and documents, reported the Merck management appeared to have known about the risks of Vioxx for years and maneuvered to keep the information from derailing its blockbuster product.

- **2011:** the U.S. Justice Department announced that Merck would pay $950 million to resolve criminal charges and federal civil claims relating to the marketing of Vioxx. Under the agreement, Merck agreed to plead guilty to one criminal count of violating federal drug law and pay a $321.6 million criminal fine.

- **2007:** the New York Times reported that Merck and Schering-Plough had conducted several studies of their popular cholesterol drug Zetia that raised questions about its risks to the liver, yet the companies never published those results. Similar charges of suppressing research results were made in connection with the companies' Enhance medication.

SOURCE: https://www.corp-research.org/merck

GLAXOSMITHCLINE (GSK) CRIMINAL HISTORY

"The Department of Justice (DOJ) announced its largest health care fraud settlement in U.S. history: $3 Billion from GlaxoSmithKline (GSK). Continuing the long trend of settlements with pharmaceutical companies for off-label promotion, DOJ announced that the settlement includes GSK agreeing to plead guilty to a three-count criminal information, including **two counts of introducing misbranded drugs, Paxil and Wellbutrin, into interstate commerce and one count of failing to report safety data about the drug Avandia to the Food and Drug Administration (FDA).** "

SOURCE: (Sullivan, T. (2018). GlaxoSmithKline (GSK) Settlement and Corporate Integrity Agreement. Policy Med.

MODERNA HISTORY

PFIZER CRIMINAL HISTORY

- **Pfizer received the biggest [criminal] fine in U.S. history as part of a $2.3 Billion plea deal** with federal prosecutors for mis-promoting medicines (Bextra, Celebrex) and paying kickbacks to compliant doctors.

- In the 1990s, Pfizer was involved in defective heart valves that lead to the deaths of more than 100 people. **Pfizer had deliberately misled regulators about the hazards.** The company agreed to pay $10.75 Million to settle justice department charges for misleading regulators.

- Pfizer paid more than $60 Million to settle a lawsuit over Rezulin, a diabetes medication that caused patients to die from acute liver failure.

- In the UK, Pfizer has been fined nearly €90 Million for overcharging the NHS, the National Health Service. **Pfizer charged the taxpayer an additional €48 Million per year** for what should have cost €2 million per year.

- Pfizer agreed to pay $430 Million in 2004 to settle criminal charges that it had **bribed doctors** to prescribe its epilepsy drug Neurontin for indications for which it was not approved.

SOURCE: (2020). Crimes of Covid Vaccine Maker Pfizer Documented. Matthews & Associates.

PFIZER CRIMINAL HISTORY CONTINUED

- In 2011, a jury found **Pfizer committed racketeering fraud** in its marketing of the drug Neurontin. Pfizer agreed to pay $142.1 Million to settle the charges.

- Pfizer disclosed that it had **paid nearly nearly 4,500 doctors and other medical professionals some $20 Million for speaking on Pfizer's behalf.**

- In 2012, the U.S. Securities and Exchange Commission announced that it had reached a $45 Million settlement with Pfizer to resolve charges that its subsidiaries had **bribed overseas doctors** and other healthcare professionals to increase foreign sales.

- **Pfizer was sued in a U.S. federal court for using Nigerian children as human guinea pigs, without the childrens' parents' consent**. Pfizer paid $75 Million to settle in Nigerian court for using an experimental antibiotic, Trovan, on the children. The company paid an additional undisclosed amount in the U.S. to settle charges here. Pfizer had violated international law, including the Nuremberg Convention established after WWII, due to Nazi experiments on unwilling prisoners.

SOURCE: (2020). Crimes of Covid Vaccine Maker Pfizer Documented. Matthews & Associates.

PFIZER REVENUE

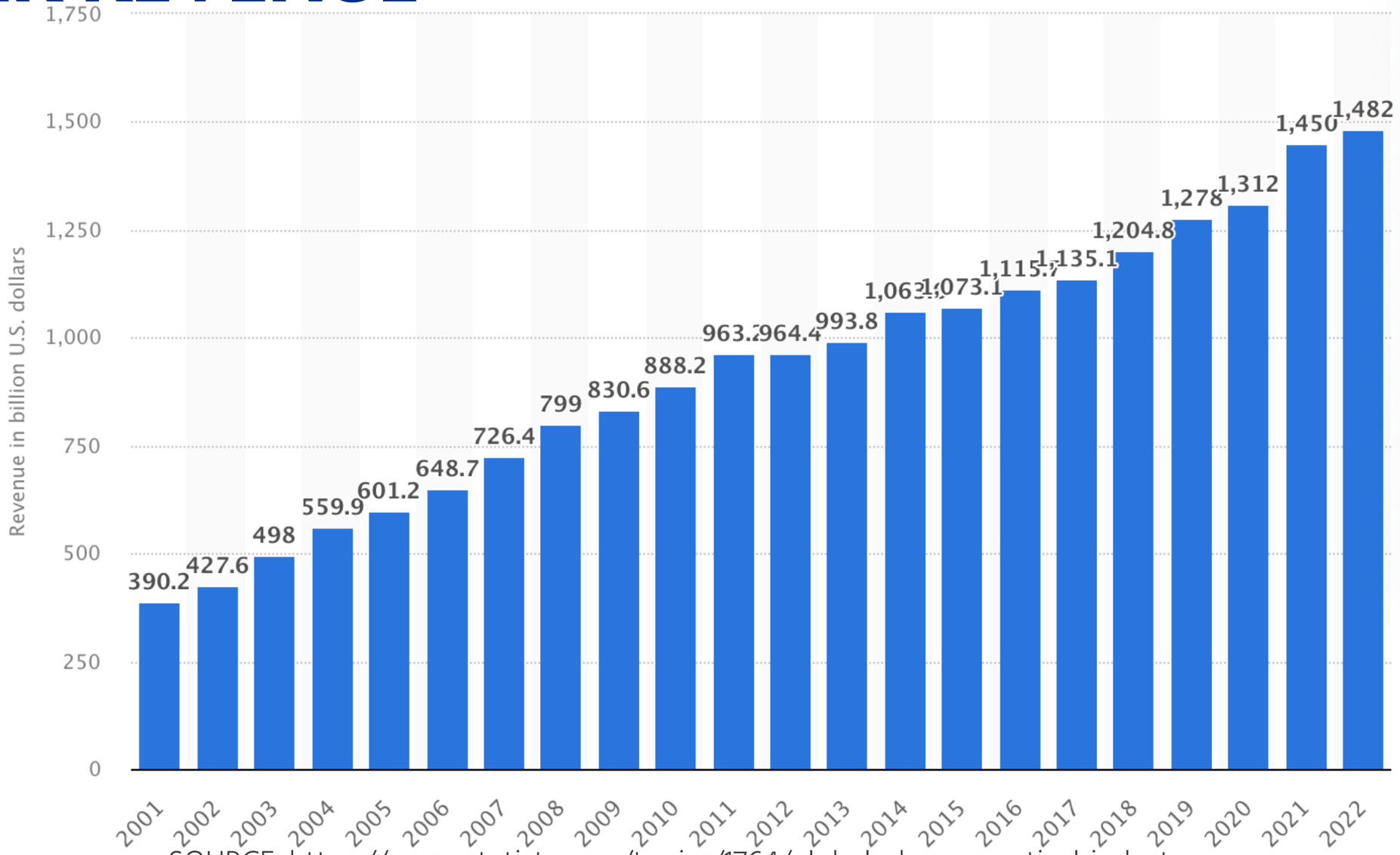
Pfizer annual/quarterly revenue history and growth rate from 2010 to 2022. Revenue can be defined as the amount of money a company receives from its customers in exchange for the sales of goods or services. Revenue is the top line item on an income statement from which all costs and expenses are subtracted to arrive at net income.

- Pfizer revenue for the quarter ending December 31, 2022 was **$24.289B**, a **1.89% increase** year-over-year.
- Pfizer revenue for the twelve months ending December 31, 2022 was **$100.330B**, a **23.43% increase** year-over-year.
- Pfizer annual revenue for 2022 was **$100.33B**, a **23.43% increase** from 2021.
- Pfizer annual revenue for 2021 was **$81.288B**, a **95.16% increase** from 2020.
- Pfizer annual revenue for 2020 was **$41.651B**, a **1.82% increase** from 2019.

"Pfizer made nearly $37 billion in sales from its Covid-19 vaccine [in 2021] – making it one of the most lucrative products in history"

SOURCES: 1) https://www.macrotrends.net/stocks/charts/PFE/pfizer/revenue
2) Kollewe, J. (2022). Pfizer accused of pandemic profiteering as profits double. The Guardian.

PHARMACEUTICAL INDUSTRY MARKER REVENUE



SOURCE: https://www.statista.com/topics/1764/global-pharmaceutical-industry