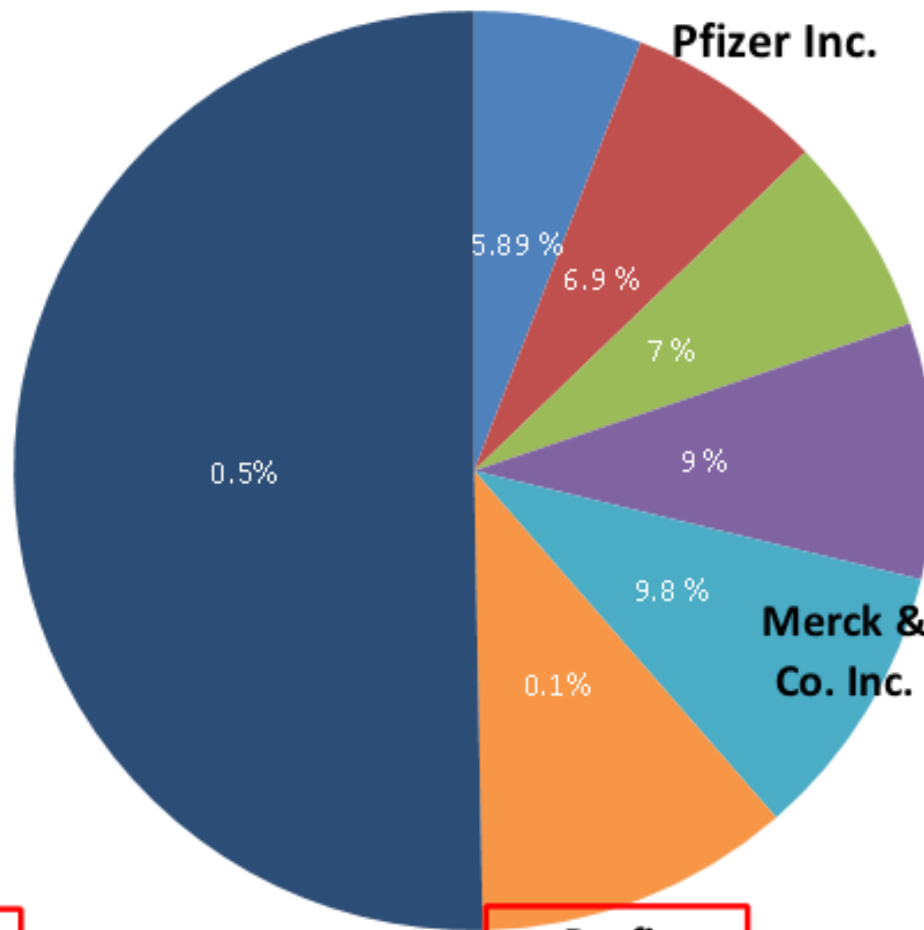




Merck vs. Pfizer: *Searching for the Superior Investment*

**Namita Majmudar
Dan Felsenstein
Mei Sun
Corinne Palmer
James Henry
Jack Li
Brian Lieberman**

Major Players in Pharmaceutical Industry



Market Share %

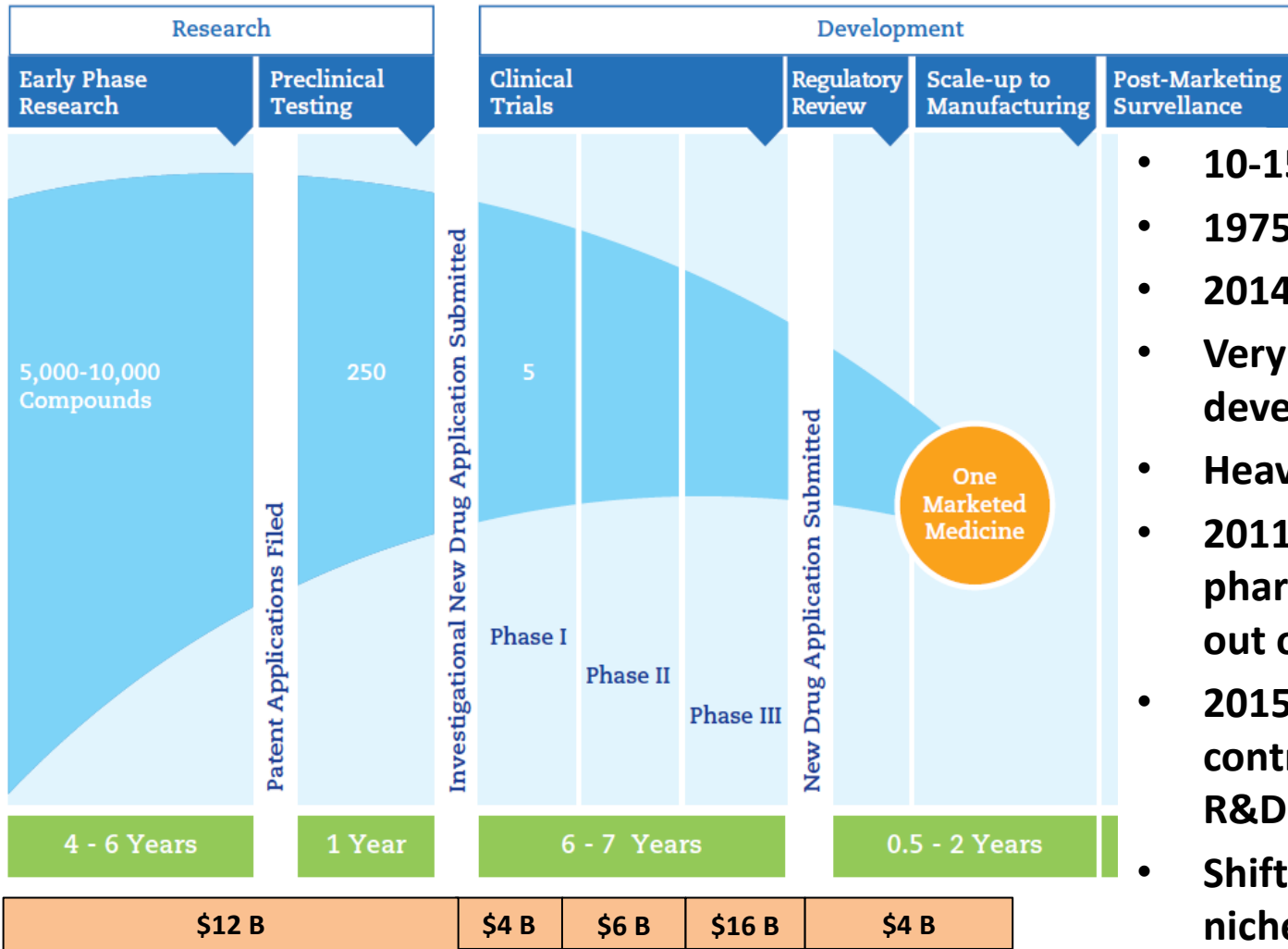
- Eli Lilly & Co.
- Pfizer Inc.
- Abb Vie Inc.
- Merck & Co. Inc.
- Amgen
- J & J
- Others

Revenue
\$158.7 B

Profit
\$31.1 B

Annual Growth
\$1.2- 1.5% %

Research & Development

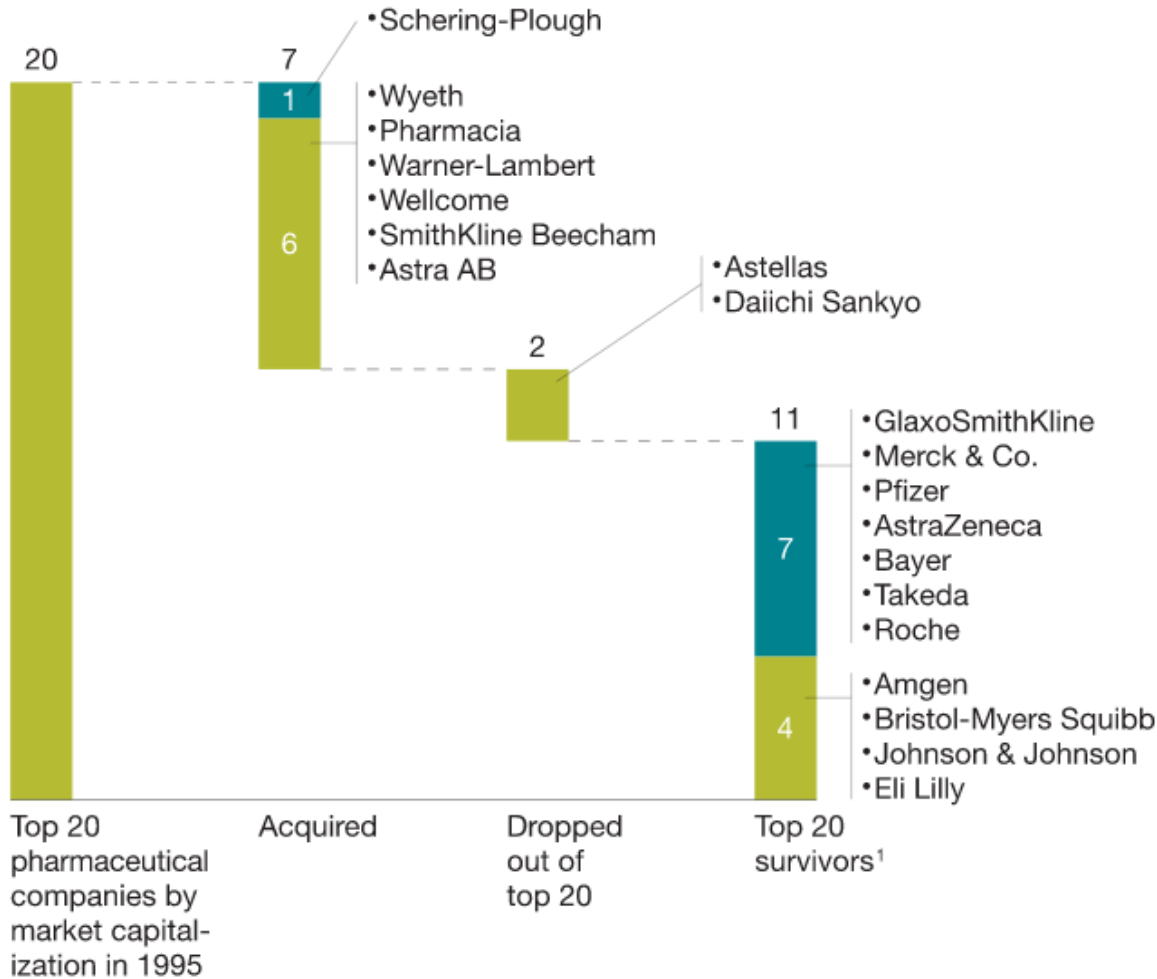


- 10-15 Years to develop
- 1975 - USD 138 million
- 2014 - USD 1.5 **BILLION**
- Very high per-Drug development cost
- Heavily Regulated
- 2011 - 35 new pharmaceuticals launched out of 3,200 compounds
- 2015 – Revenue to contract 0.4% due to high R&D costs
- Shifting to less lucrative or niche product segments
- 38 B – Phase III

HIGH Risk = HIGH Rewards

Acquisitions (Industry Consolidation)

■ Large-deal acquirer

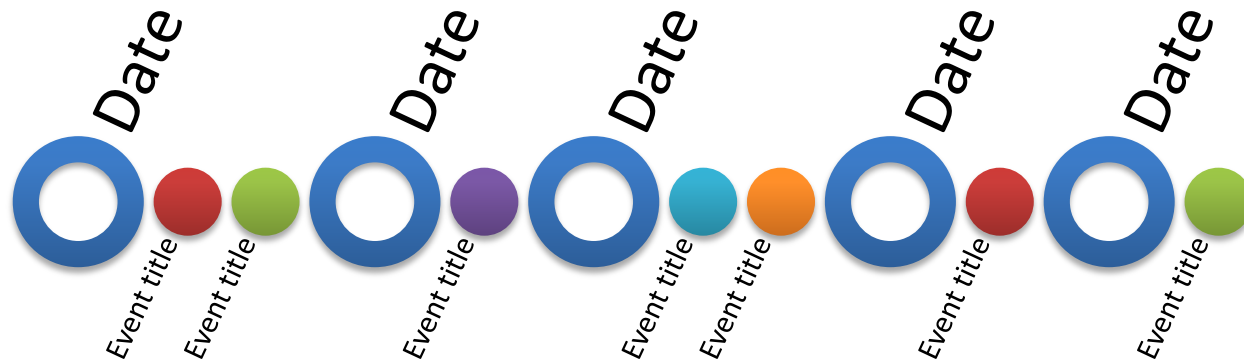


- High R&D costs
- Expectation of fast growth
- Keep up with Revenues
- Patent Cliff
- Addition to product portfolio
- Threat from generic and biosimilar products
- Diversification
- Stronger positioning in existing markets
- Enter new markets
- Cost savings through Synergies

About Merck



- Jacob Friedrick Merck acquired The Angel Pharmacy in 1668 which led to the beginning of Merck & Co.
- Known as Merck in US and Canada
- Known as Merck Sharp & Dohme Corp (MSD) rest of the world
- Four Operating Divisions
- 7th largest Company in the Industry as per Revenue Ranking
- 2014 R&D Expense - \$6.5 billion



Merck's Acquisition Of Schering-Plough



Acquisition completed on November 3, 2009

Purchase Price

\$49.6 Billion or \$28.19 per SP common share

Cash/ Share Mix

\$10.50 Cash and 0.5767 of SP share

Funding

Combination of Cash, Debt and Equity

Ownership

Old Merck - Merck Sharp & Dohme
Schering-Plough – Merck & Co. Inc.

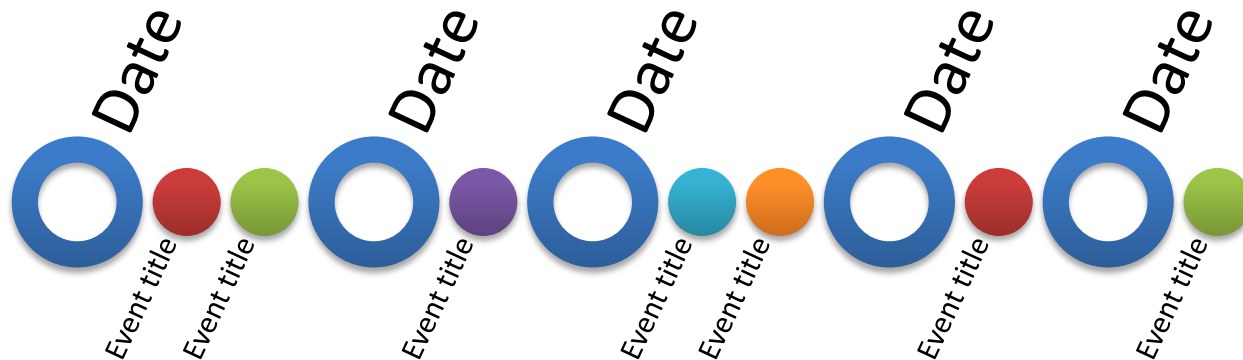
Products added

Pfizer originally 27 in phase III which
increased to 34 after merger

About Pfizer



- Founded in 1849 and has been in the industry more than 150 years.
- Largest Biopharmaceutical Company (Giant)
- Nine principal operating divisions
- 4th largest Company in the Industry as per Revenue Ranking
- History of Acquisitions



Pfizer's Acquisition of Wyeth



- Acquisition completed on October 15, 2009

Purchase Price	\$68.2 Billion or \$50.40 per Wyeth CS
Cash/ Share Mix	\$33.00 Cash and 0.985 of Pfizer share
Funding	Combination of Cash, Debt and Equity
Ownership	Wyeth – Wholly owned Subsidiary Pfizer – approx. 84% rest minority S/H
Products added	Pfizer originally 27 in phase III which increased to 34 after merger

Pfizer's Acquisition of Wyeth



Pfizer's Strategic Goals Advanced by Wyeth merger

Strong Positioning

Increased Product portfolio

New and Existing Markets

Enters the new Vaccines market – Prevnar
Leader in Biologics - Enbrel

Complementary Business

Added Consumer and Nutritional divisions
Strengthen Animal Health division

Financial Benefits

EPS Growth outpaced Revenue Growths
Adj. Income and Diluted EPS Increased

Cost Savings

Expected savings due to synergies and
combined workforce up to \$4.0 B by 2012

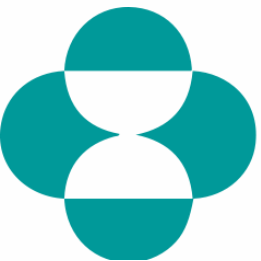
Merger delivered Value to Shareholders and Stakeholders

Areas of Analysis:

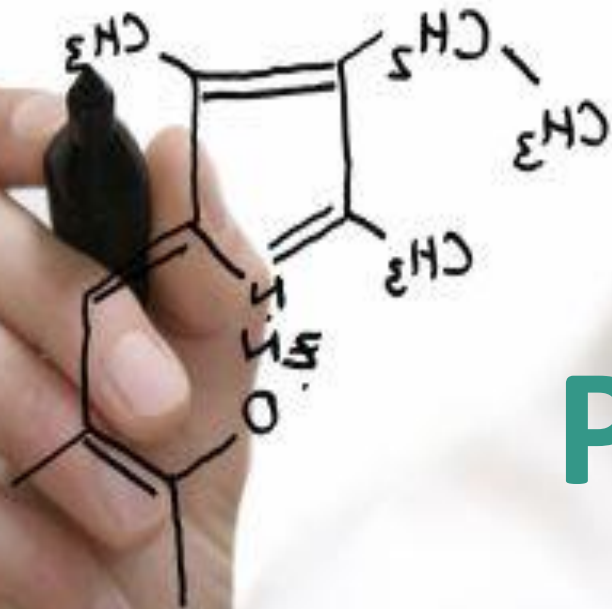
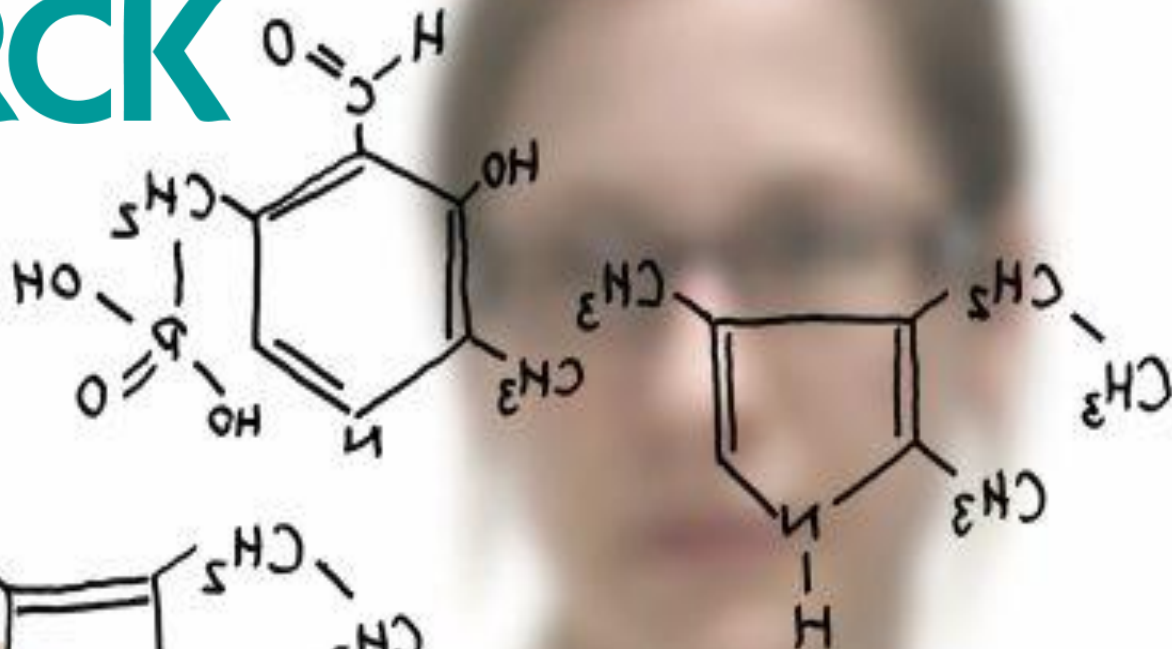
- 1. Pipeline Showdown**
- 2. Research & Development
(accounting focused)**
- 3. Regulatory Compliance**

**Conclusion:
Final Investment Decision**





MERCK



PIPELINE

Breakdown

1. Areas of Focus/Specialties
2. Current Products
3. Future Products/Drug Pipeline

Areas of Focus

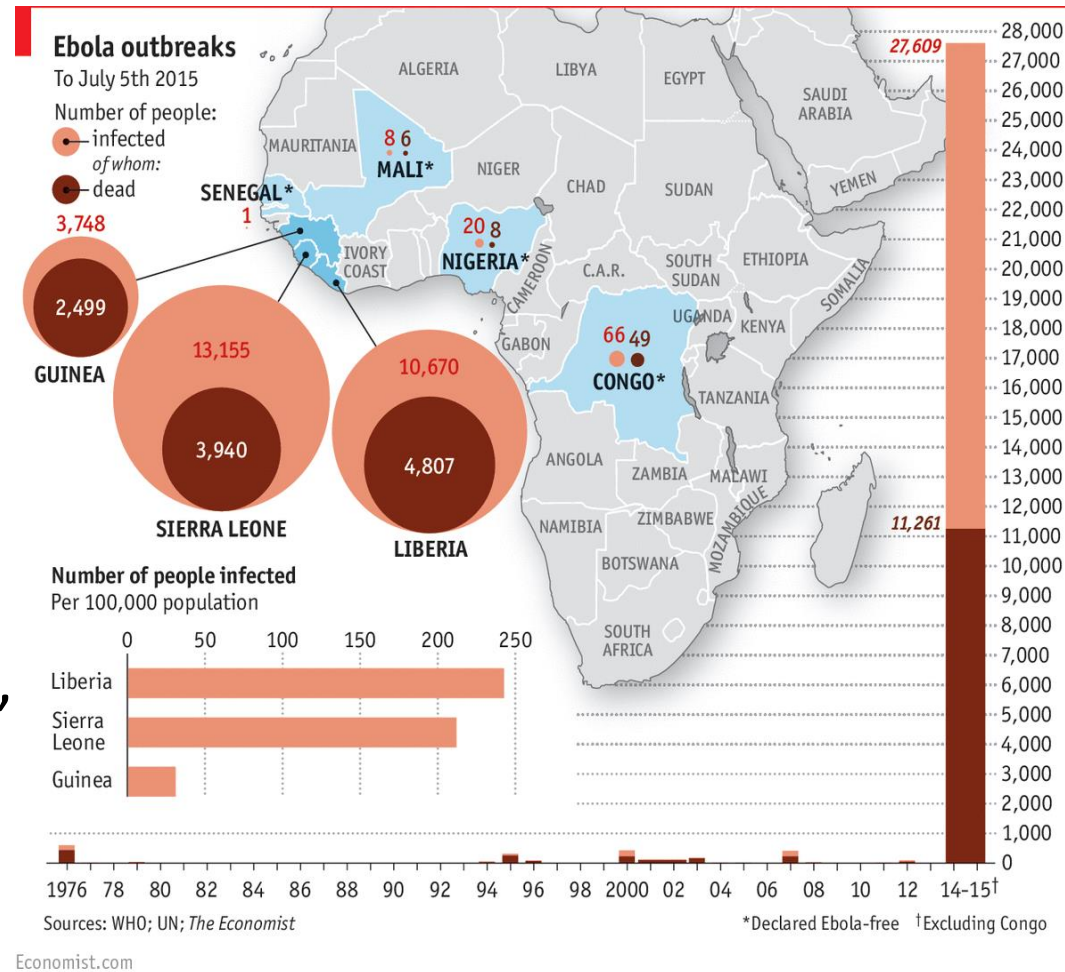
- **Primary Care** (Diabetes, Cardiovascular)
- **Women's Health**
- **Hospital and Specialty** (Hepatitis, HIV, Acute Care, Immunology)
- **Vaccines**



Ebola Vaccine

- **April 2015:** Merck's Ebola vaccine entered Phase III testing in Sierra Leone

- Shown to be 100% effective in preventing Ebola, according to an interim look from a late-stage study



- *"Our motivation to pursue this opportunity was to address a public health need," Merck Vaccines' Mark Feinberg said in a telephone interview. "We did not believe this was a commercial opportunity."*

Top Selling Products

(\$ in millions)

	2014	2013	2012
Total Sales	\$ 42,237	\$ 44,033	\$ 47,267
Pharmaceutical	36,042	37,437	40,601
→ <i>Januvia</i>	3,931	4,004	4,086
<i>Zetia</i>	2,650	2,658	2,567
→ <i>Remicade</i>	2,372	2,271	2,076
→ <i>Janumet</i>	2,071	1,829	1,659
<i>Gardasil</i>	1,738	1,831	1,631
<i>Isentress</i>	1,673	1,643	1,515
<i>ProQuad/M-M-R II/Varivax</i>	1,394	1,306	1,273
<i>Nasonex</i>	1,099	1,335	1,268
→ <i>Singulair</i>	1,092	1,196	3,853
Animal Health	3,454	3,362	3,399
Consumer Care ⁽¹⁾	1,547	1,894	1,952
Other Revenues ⁽²⁾	1,194	1,340	1,315

Patent Protection

- *“The Company depends upon patents to provide it with exclusive marketing rights for its products for some period of time. Loss of patent protection for one of the Company’s products typically leads to a significant and rapid loss of sales for that product, as lower priced generic versions of the drug become available”*
- Singulair patent expired in 2012
 - **2011 Sales:** \$5.5 billion
 - **2012 Sales:** \$1.34 billion



<u>Product</u>	<u>Year of Expiration (in the U.S.)⁽¹⁾</u>
Integrilin ⁽²⁾	2015 (use/formulation)
<i>Emend</i>	2015
<i>Follistim AQ</i>	2015
<i>Invanz</i>	2016 (compound)/2017 (composition)
<i>Cubicin⁽³⁾</i>	2016 (composition)
<i>Zostavax</i>	2016 (use)
<i>Dulera</i>	2017 (formulation)/2020 (combination)
→ <i>Zetia⁽⁴⁾/Vytorin</i>	2017
<i>Asmanex</i>	2018 (formulation)
<i>Nasonex⁽⁵⁾</i>	2018(formulation)
<i>NuvaRing</i>	2018 (delivery system)
<i>Emend for Injection</i>	2019
<i>Noxafil</i>	2019
<i>RotaTeq</i>	2019
<i>Intron A</i>	2020
<i>Recombivax</i>	2020 (method of making/vectors)
→ <i>Januvia/Janumet/Janumet XR</i>	2022 (compound)/2026 (salt)
<i>Isentress</i>	2023
<i>Nexplanon</i>	2026 (device)/2027 (device with applicator)
<i>Grastek</i>	2026 (use)
<i>Ragwitek</i>	2026 (use)
<i>Zontivity</i>	2027 (with pending Patent Term Restoration)
→ <i>Gardasil/Gardasil 9</i>	2028
→ <i>Keytruda</i>	2028
<i>Zerbaxa</i>	2028 (with pending Patent Term Restoration)
<i>Sivextro</i>	2028 (with Patent Term Restoration)
<i>Belsomra</i>	2029

Januvia

- Treats Type-2 Diabetes
- Introduced in 2006
- Low side effects and easy to use
- **Past three years: Over \$12 billion in revenue**
 - **2014 Sales: \$3.93 billion**
- Patent protection until 2022



Remicade

- Treats chronic inflammatory diseases
- Costs between \$19,000 and \$22,000

per year

- **2014:** \$2.372 billion
- **2013:** \$2.271 billion
- **2012:** \$2.076 billion



- Marketing rights in Eastern Europe, Russia and Turkey
- Patents have expired or set to soon
 - 10% decline in sales for the fourth quarter of 2014

Pipeline

- **Phase I:** Testing on a small number of healthy human volunteers in order to find any possible side effects
 - **Emphasis** = Safety
- **Phase II:** Testing on a larger number of humans who are suffering from the illness
 - **Emphasis** = Effectiveness
- **Phase III:** Larger scale. Tested on different populations, in different dosages and in combinations with other drugs
- **Under Review**

INTERACT WITH
OUR PIPELINE

▶ Phase

▶ Category

▶ Therapeutic
Areas

▶ Advanced Since
Last Update

**CLEAR
SELECTIONS**

PHASE II

12 programs

PHASE III

19 programs

1 have advanced

UNDER REVIEW

6 programs

Alzheimer's Disease
MK-7622



HABP/VABP³ bacterial pneumonia
SIVEXTRO®, MK-1986



cIAI & cUTI⁷
ZERBAXA™, MK-7625A (EU)

Asthma
MK-1029



Allergy, House Dust Mite^{1,2}
MK-8237



Diabetes Mellitus
omarigliptin,
MK-3102 (Japan)



Bacterial Infection
relebactam,
MK-7655



Alzheimer's Disease
MK-8931



HPV-related cancers
HPV vaccine (9 valent)
V503 (EU)



Cancer
MK-2206



Atherosclerosis
anacetrapib,
MK-0859

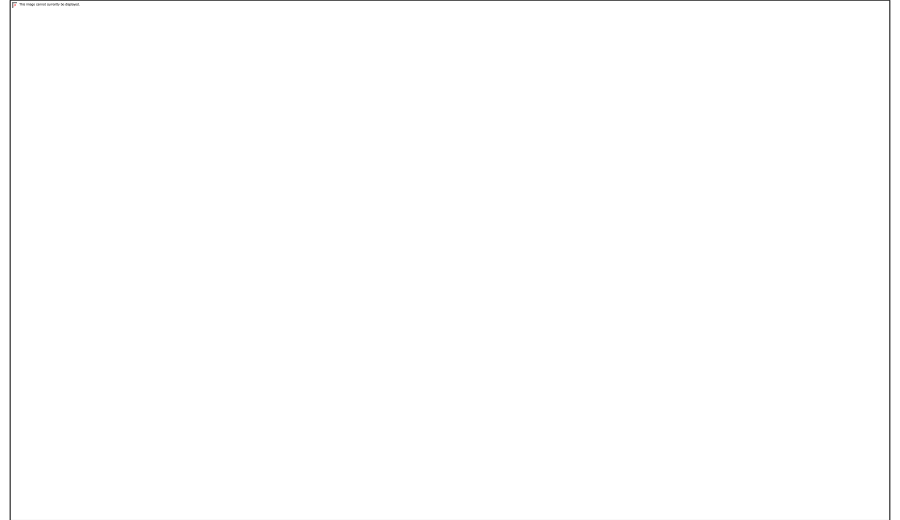


Melanoma
KEYTRUDA®
MK-3475 (EU)



Keytruda

- **Under review** by the European Medicines Agency for the treatment of advanced melanoma



- Keytruda clinical development program also includes studies in more than 30 cancers including: **bladder, colorectal, gastric, head and neck, non-small-cell lung, among others**
- Received **priority-review status** from the FDA for non-small-cell lung cancer

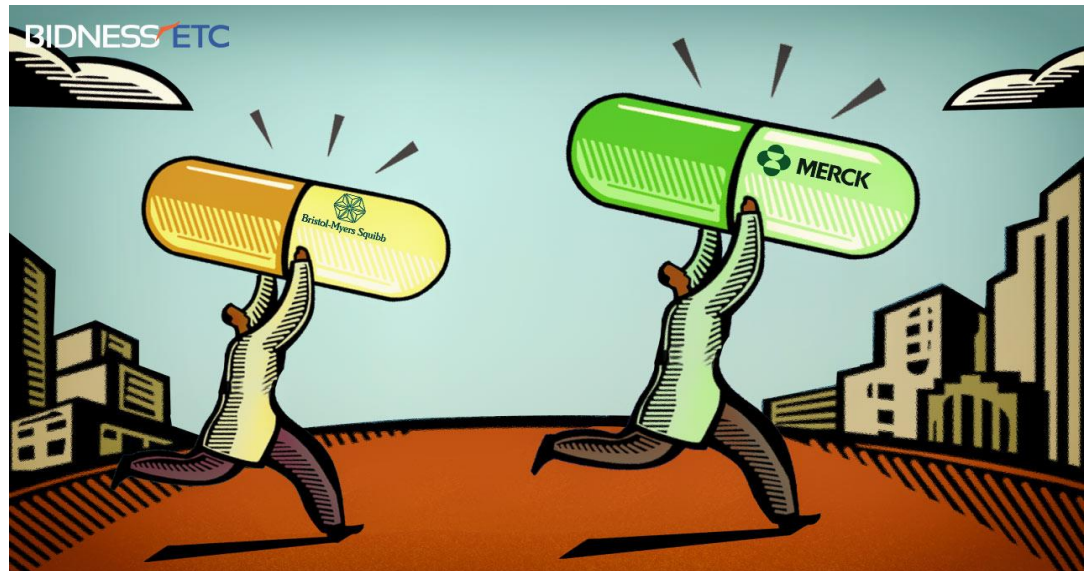
Keytruda

- **September 2014:** FDA approved Keytruda at a dose of 2mg/kg every three weeks for the treatment of patients with certain types of melanoma

- Cost patients around \$12,500 a month

- Projected to reach \$5 billion in annual revenues once fully approved

- Patent protection until 2028



Reasons to be Optimistic

- Efficient in responses to emerging medical issues
- Top products under patent protection
 - Except Remicade
- Pipeline is extremely promising
- Roger Perlmutter

- Revenue declining
 - **2014:** \$42.237 billion
 - **2013:** \$44.033 billion
 - **2012:** \$47.267 billion



Pfizer pipeline

Pfizer is divided into 2 main businesses:

1. Innovative Products (divided into 2 sectors)

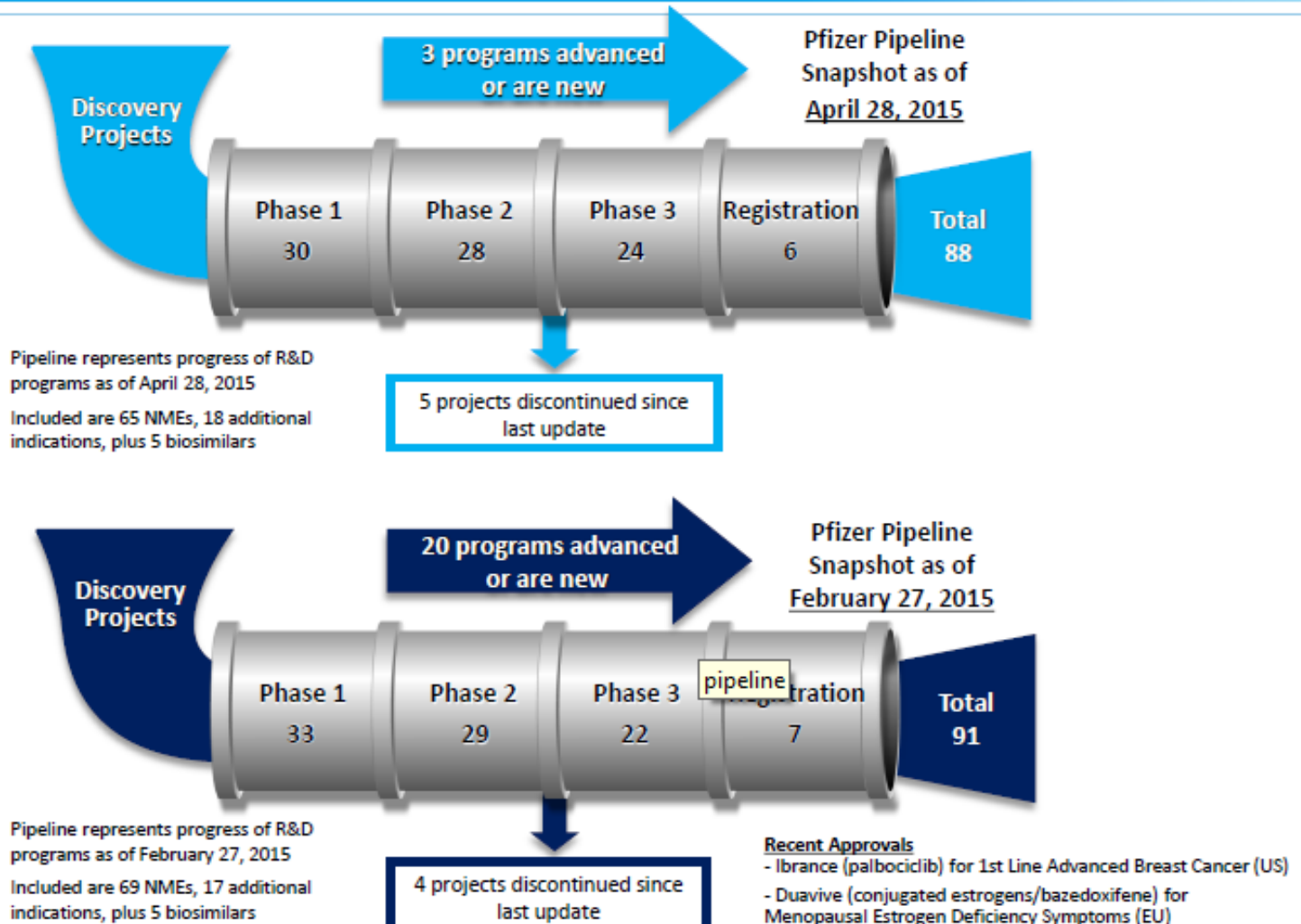
- Global Innovative Pharmaceutical segment (GIP)
- Global Vaccines, Oncology and Consumer Healthcare segment (VOC)
- Very specialized fields of medicine

2. Established Products

Mostly, the popular drugs we know, that cater to more traditional problems, like high cholesterol

Pfizer pipeline of April 28.2015

Pfizer Pipeline Snapshot




Oncology is crucial area:

Pfizer Pipeline – April 28, 2015 (cont'd)

New Molecular Entity

New Indication or Enhancement

Therapeutic Area	Compound Name	Mechanism of Action (Phase 2 through regulatory approval)	Indication	Phase
 <p>Future success of major cancer drug partially attributed to Merck*</p>	Xalkori (crizotinib)	c-MET-ALK Inhibitor	ALK-Positive 1st Line Non-Small Cell Lung Cancer (EU), *Cancer	Registration
	▶ avelumab (PF-06834635) (MSB0010718C)	Anti PD-L1 Inhibitor	2nd Line Non-Small Cell Lung Cancer (Biologic)	Phase 3
	Bosulif (bosutinib)	Abl and src-family Kinase Inhibitor	1st Line Chronic Myelogenous Leukemia (ORPHAN - U.S.)	Phase 3
	dacomitinib (PF-00299804)	pan-HER Inhibitor	1st Line EGFR mutant Non-Small Cell Lung Cancer (ORPHAN - U.S.), *Cancer	Phase 3
	lbrance (palbociclib)	CDK 4,6 Kinase Inhibitor	1st Line Advanced Breast Cancer (E.U.), *Cancer	Phase 3
	lbrance (palbociclib)	CDK 4,6 Kinase Inhibitor	Recurrent Advanced Breast Cancer	Phase 3
	lbrance (palbociclib)	CDK 4,6 Kinase Inhibitor	High Risk Early Breast Cancer	Phase 3
	Inlyta (axitinib)	VEGF Tyrosine Kinase Inhibitor	Renal Cell Carcinoma Adjuvant, *Cancer combo w/ Merck's Keytruda (PD-1, pembrolizumab)	Phase 3
	inotuzumab ozogamicin	CD22-targeted cytotoxic agent	Acute Lymphoblastic Leukemia (Biologic) (ORPHAN - U.S., E.U.)	Phase 3
	Sutent (sunitinib)	Multiple Tyrosine Kinase Inhibitor	Renal Cell Carcinoma Adjuvant	Phase 3
	avelumab (PF-06834635) (MSB0010718C)	Anti PD-L1 Inhibitor	Metastatic Merkel Cell Carcinoma, *Cancer (Biologic)	Phase 2
	glasdegib (PF-04449913)	SMO (smoothened) antagonist	Acute Myeloid Leukemia, *Cancer	Phase 2
	PF-03084014	Gamma-Secretase Inhibitor	Triple Negative Breast Cancer	Phase 2
	gedatolisib (PF-05212384)		Cancer	Phase 1
	PD-0325902		Cancer (in combination with PF-05212384)	Phase 1
	PF-05082566		Cancer (Biologic), Combo w/ Merck's Keytruda (PD-1, pembrolizumab)	Phase 1
	PF-06263507		Cancer (Biologic)	Phase 1
	PF-06463922		Cancer	Phase 1
PF-06647020		Cancer (Biologic)	Phase 1	
PF-06647263		Cancer (Biologic)	Phase 1	
PF-06650808		Cancer (Biologic)	Phase 1	
PF-06664178		Lung Cancer (Biologic)	Phase 1	



Top 50 pharmaceutical products by global sales:

17	Prevnar 13	4464	3974	490	12
18	Nexium	4442	4551	-109	-2
19	Symbicort	4262	3929	333	8
20	Lucentis	4254	4184	70	2
21	Copaxone	4237	4328	-91	-2
22	Januvia	3931	4004	-73	-2
23	Xarelto	3679	2083	1596	77
24	Truvada	3528	3304	224	7
25	Atripla	3470	3649	-179	-5
26	Olmesartan franchise	3187	3761	-574	-15
27	Eylea	3034	2072	962	46
28	Avonex	3013	3006	7	0
29	NovoRapid	3012	2908	104	4
30	Gilenya	2934	2337	597	26
31	Tecfidera	2909	876	2033	232
32	Velcade	2881	2852	29	1
33	Zetia	2866	2879	-13	0

Top 50 pharmaceutical products by global sales:

	2014	2013	2012			
#	Product	2014 (\$m)	2013 (\$m)	Growth (\$m)	Growth (%)	
1	Humira	13021	11105	1916	17	
2	Sovaldi/Harvoni	12410	139	12271	8828	
3	Remicade	10151	9900	251	3	
4	Enbrel	9120	8894	226	3	
5	Lantus	8152	7343	809	11	
6	MabThera/Rituxan	7356	7410	-54		
7	Avastin	6841	6667	174		
8	Seretide/Advair	6700	8356	-165		
9	Herceptin	6690	6481	209		
10	Crestor	6617	6960	-343		
11	Abilify	6416	9502	-308		
12	Lyrica	5435	4838	597		
13	Revlimid	4980	4280	700		
14	Gleevec/Glivec	4746	4693	53		
15	Spiriva	4722	4564	158	3	
16	Neulasta	4596	4392	204	5	

A joint project with Amgen and Takeda (how much of this number is being shared with the other two companies?)

Top 50 pharmaceutical products by global sales:

34	Alimta	2792	2703	89	3
35	Humalog	2785	2611	174	7
36	Lipitor	2766	3097	-331	-11
37	Celebrex	2699	2918	-219	-8
38	Plavix	2601	2644	-43	-2
39	Levemir	2454	1993	461	23
40	Rebif	2364	2396	-32	-1
41	Diovan/Co-Diovan	2345	3524	-1179	-33
42	Victoza	2318	2008	310	15
43	Olysio	2302	23	2279	9909
44	Cialis	2291	2159	132	6
45	Erbitux	2257	2204	53	2
46	Prograf	2249	2273	-24	-1
47	Zytiga	2237	1698	539	32
48	Soliris	2234	1551	683	44
49	Botox/Neuromodulator	2231	1982	249	13
50	Lovenox	2183	2188	-5	0

More Patent Issues

Lipitor, once the world's biggest selling drug – peaking at annual sales of more than \$9 billion and with lifetime sales of more than \$131 billion – is expected to generate about \$3 billion in sales in 2015.” Lipitor *still* remains the highest grossing drug of all time. Of note, Lipitor's U.S. patent expired in 2011.



Patent cliff Issues:

Three top Pfizer drugs are expired:

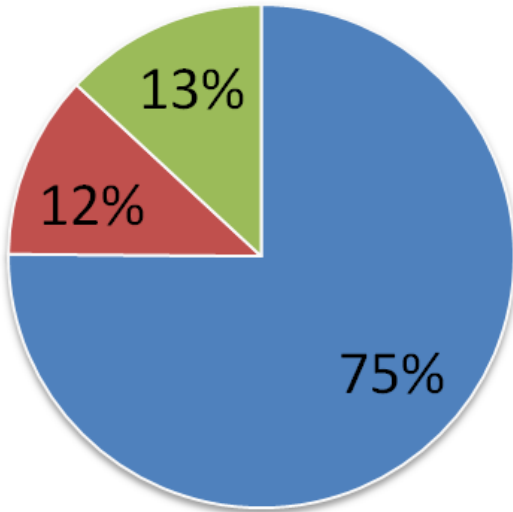
Lyrica, which expired in 2013.

Celebrex, which expired in 2014.

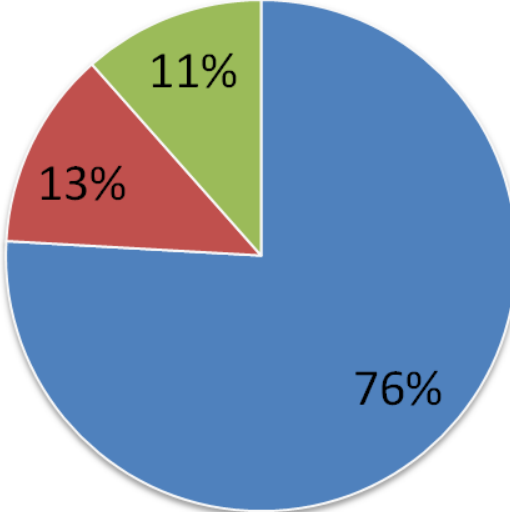
Detrol, which expired in 2012.

Patent Status, Pfizer Drug Revenue Sources

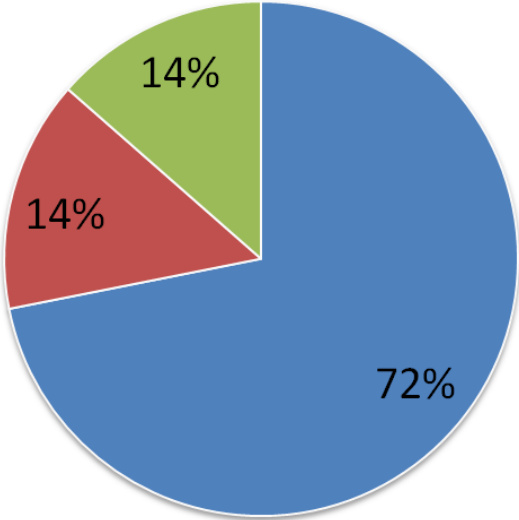
2012



2013



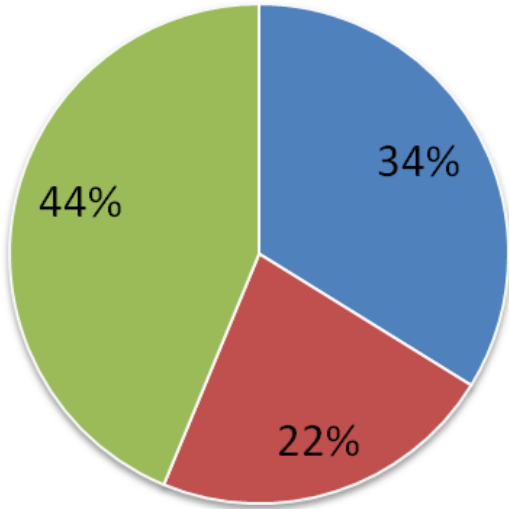
2014



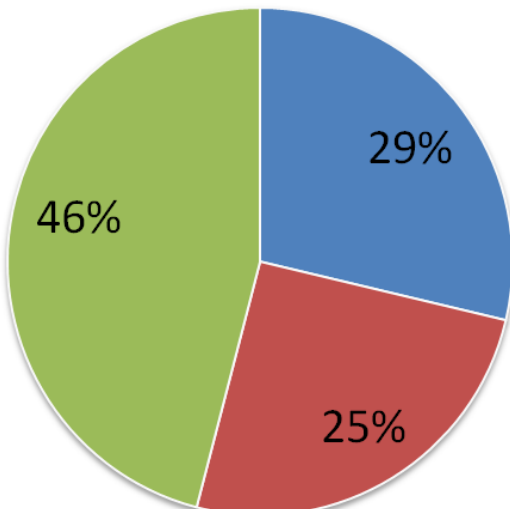
- Expired as of 2014
- Set to Expire in the next 5 years
- Won't expire for at least another 5 years (or N/A)

Patent Status, Merck Drug Revenue Sources

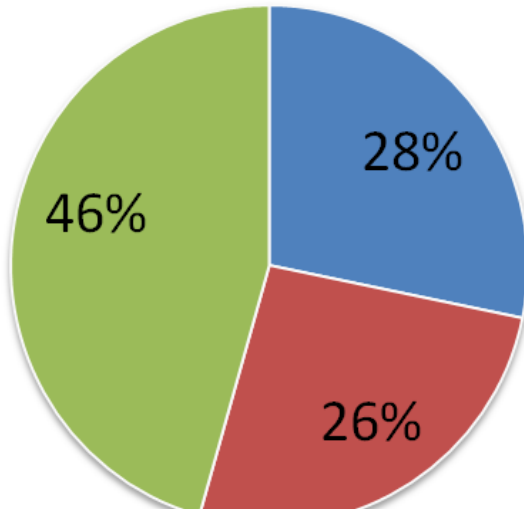
2012



2013



2014



- Expired as of 2014
- Set to Expire in the next 5 years
- Won't expire for at least another 5 years (or N/A)

Conclusion:

1. Pfizer has greater exposure to patent cliff.

2. One of Pfizer's major cancer drugs relies on Merck's cancer drug Keytruda (a mix of the two). Pfizer will likely have to share the profits.



Conclusion:

1. Merck's pipeline is more focused on drugs that meet emerging AND critical needs – like cancer, HIV, Ebola, and Hep C.
2. Innovation in Merck pipeline is stronger.
3. LESS patent cliff risk.



Implications of R&D and Acquisition Accounting

Corinne Palmer

R&D Expense

- Recorded on the income statement
- Made up of expenses from:
 - Internal R&D Division
 - Separate operating segments
 - Impairment Charges (In process research and development)
- Up front and Milestone Payments
 - Partnerships
 - Licensing Agreements

R&D through M&A



Acquisition Price-
\$3.9 billion

Record IPR&D Asset of
\$3.2 billion
a **Balance Sheet item**
(Indefinite life intangible
asset, **subject to
impairment**)

**Asset is reclassified
to an individual
product or product
rights (folded into
intangible)**

Once drug is approved,
becomes definite life
asset, amortized
accordingly





R&D Expense- \$7.2 billion

In Process R&D- **\$4.3 billion**

IPR&D Impairment- \$49 million



R&D Expense- \$8.4 billion

In Process R&D- **\$387 million**

IPR&D Impairment- \$190 million

Why such a big difference?

R&D Expense

- \$7.2 billion
 - Merck Research Laboratories- Main R&D division
 - \$3.7 incurred directly by Merck Research Labs
 - \$2.8 billion- costs incurred by divisions that support R&D
 - Includes depreciation, production and G&A activities, and licensing activity
-
- \$8.4 billion
 - Pfizer Worldwide R&D- different research units- \$4.5 billion
 - R&D Transferred to 3 segments when proof of concept achieved
 - Global Innovative Pharmaceutical- \$1.6 billion
 - Global vaccines, oncology, and consumer healthcare- \$925 million
 - Global established Pharmaceutical - \$657 million
 - Up front and milestone payments- \$1.4 billion



In Process Research and Development

“Pipeline programs measured at fair value and capitalized in connection with mergers and acquisitions.” -Pfizer 10K

Merck- \$4.3 billion

Pfizer- \$387 million

Merck IPR&D	
MK-3862 (14)	\$3.2 billion
Bridion (13)	\$200 million

Pfizer IPR&D	
InnoPharma (14)	\$212 million
Next Wave (12)	\$45 million

IPR&D Impairment

- Recorded as part of R&D expense
- Occurs when drugs do not reach profitability or approval
- Usually full write offs of IPR&D assets



Total= \$528 million



Total= \$810 million

Merck	2012	2013	2014
IPR&D Gross Carrying Balance	2,393	1,856	4,345
IPR&D Impairment	200	279	49
IPR&D Impairment Charge as a % of IPR&D Carrying Balance	8.4%	15.0%	1.1%
Pfizer			
IPR&D Gross Carrying Balance	688	1,856	387
IPR&D Impairment	393	227	190
IPR&D Impairment Charge as a % of IPR&D Carrying Balance	57.1%	12.2%	49.1%

In Conclusion...

- Merck has a more stable and consistent R&D Expense
- Merck has demonstrated greater success in acquisitions of IPR&D.
 - Quality of drugs in IPR&D
 - Acquiring drugs that stuck with Merck's mission
 - Lower IPR&D impairment costs





**REGULATORY
COMPLIANCE**

- Common types violations in big pharma

- Off-Label promotion

- The FDA approves only specific uses for drugs, any other use may not be marketed
 - Doctors have discretion to prescribe other uses for meds but companies cannot “educate” or try to sell the other uses to doctors

- Kickbacks

- For decades big pharmaceutical companies have been paying the doctors who prescribe their medicine the most
 - Companies create elaborate and hard to trace payment methods that make kickbacks very hard to track
 - For example: Speaking engagements
 - Highly illegal and very dangerous for the general public, we don’t want to be prescribed medicine we don’t need!

- Bribery

- The FCPA was created to lengthen the reach of the United States government to try to tackle bribery
 - It is against FCPA regulations to bribe any foreign official
 - Pervasive and hard to catch





- 2009 - \$2.3 Billion dollar settlement for violations relate to Off-Label Promotion
 - » *“the largest health care fraud settlement in the history of the Department of Justice” - United States Department of Justice*
 - » Pervasive sales and marketing scheme to try to get doctors to promote 13 different drugs for off label uses.
 - » Sales teams were incentivized to use such sales schemes
 - » Largest health care fraud settlement in history of US DOJ
- 2011- \$14.5 Million dollar settlement for Off-Label Promotion
- 2012 - \$45 Million to SEC and \$15 Million to DOJ for FCPA Violations for bribery
 - » Violations spanned across 8 countries



- 2011- \$950 million For Off-Label Promotion
 - Pervasive and organization wide violations
 - Used “tutorial program” which was really just a way to promote Off-Label
- 2015 - \$5.9 Million Civil violations related to Off-Label Promotion
 - Off-Label promotion by firm that was acquired by Merck, violations occurred before Merck’s acquisition
- 2015 – No fine or settlement stemming from DOJ probe



VS



MERCK

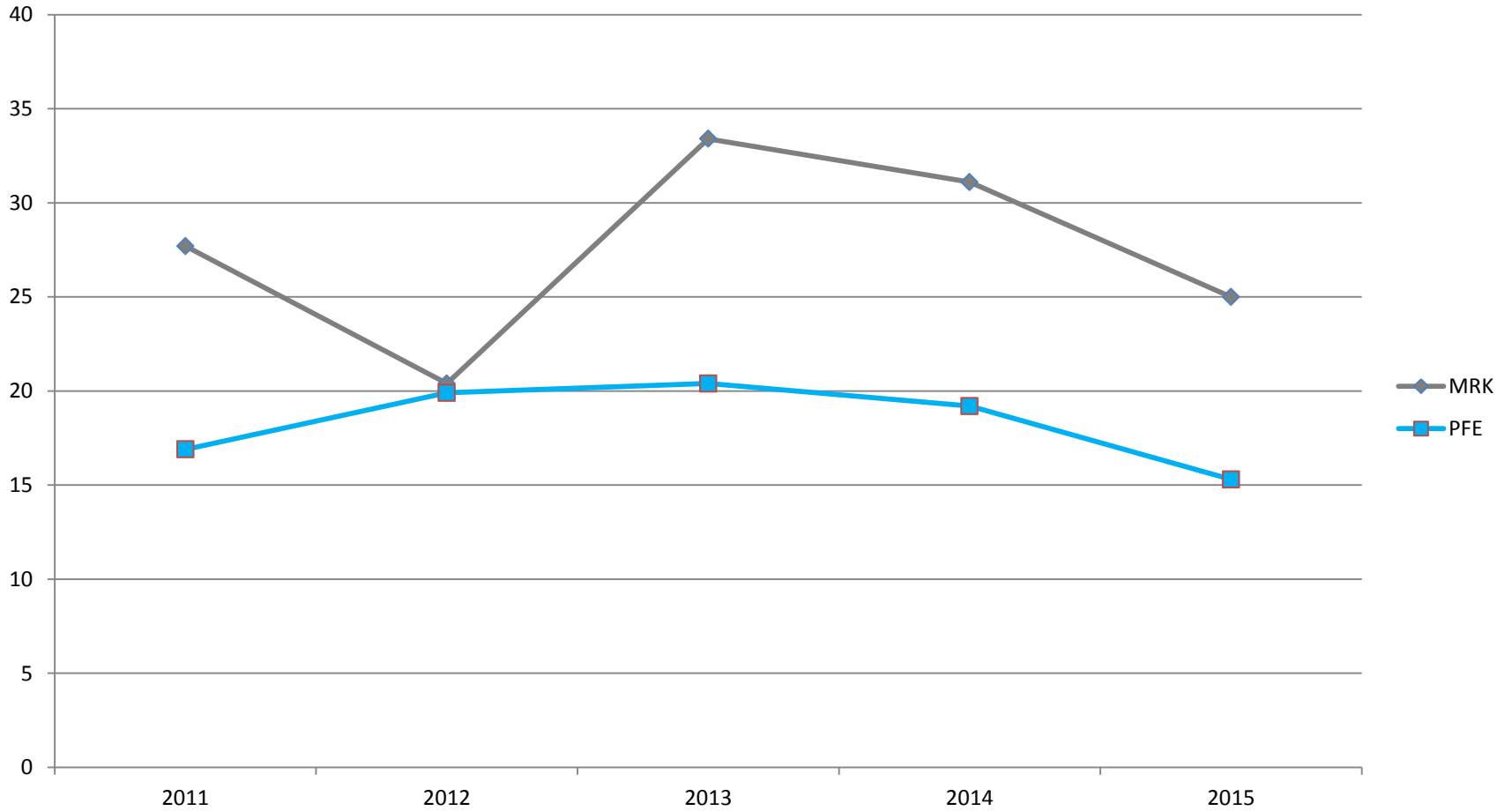
Pfizer		Merck	
Violation	Settlement & Fines	Violation	Settlement & Fines
2009 – FCA violations related to off-label promotion	\$2.3 billion	2011 – FCA violations related to off-label promotion	\$950 million
2011 – FCA violations related to off-label promotion	\$14.5 million	2015 – civil violations related to off-label promotion	\$5.9 million
2012 – FCPA violations (SEC complaint)	\$45 million	2010 – 2014 DOJ FCPA probe	No fines/settlement
2012 – FCPA violation (DOJ complaint)	\$15 million		
Total (approx.)	\$2,374,500,000		\$955,900,000

Summing up

- Pfizer and Merck both have a history of violations
- Pfizer has shown more of a pattern of violations compared to Merck
- Merck's utilization of advanced analytics are promising
- Based on regulatory compliance considerations, we would feel that an investment in Pfizer poses a large risk
- An investment in Merck poses some compliance risk, but that is somewhat mitigated by technological advances in auditing practices and lack of a pattern of violations



Comparison of Merck and Pfizer's P/E Ratio



Market Data on Free Cash Flows & Dividend

	PFE			MRK		
	FCF (\$ billion)	Dividends	Div. As a % of FCF	FCF (\$ billion)	Dividends	Div. As a % of FCF
3/15 Q1	\$13.2	\$6.7	50%	\$6.5	\$5.1	80%
3/14 Q1	\$15.0	\$6.5	43%	\$10.4	\$5.2	51%
3/13 Q1	\$15.3	\$6.7	44%	\$8.2	\$5.1	62%
3/12 Q1	\$16.5	\$6.2	34%	\$9.8	\$4.8	49%

Merck has generated fewer free cash flows than Pfizer but its dividends, on average, represent a greater percentage of FCF

Final Investment Decision



https://en.wikipedia.org/wiki/File:Merck_Logo.svg



“... IN THE EYE
OF THE BRIBE
HOLDER”

**Data Analytics and a Real Life
Pharma Mystery**



Health | Wed Jun 17, 2015 6:10pm EDT

Related

Merck to pay \$5.9 million for misleading marketing of pink eye drug: U.S

NEW YORK | BY NATE RAYMOND



Merck & Co Inc has agreed to pay \$5.9 million to resolve claims that a former unit fraudulently promoted a drug used to treat pink eye for unapproved purposes, U.S. authorities announced on Wednesday.

Manhattan U.S. Attorney Preet Bharara said Inspire Pharmaceuticals, which Merck acquired in 2011 and later sold, promoted its drug AzaSite to healthcare providers for uses the Food and Drug Administration had not approved as safe and effective.

While the FDA had approved AzaSite for treating bacterial conjunctivitis, or pink eye, Inspire sought more revenue by marketing the drug for the non-approved treatment of

SPECIAL REPORT

Myanmar, 9-13 November



Human trafficking report water

OUR BUSINESS

Inspire is a biopharmaceutical company focused on researching, developing and commercializing prescription pharmaceutical products for ophthalmic and pulmonary diseases. We intend to build and commercialize a sustainable pipeline of innovative new products based on our technical and scientific expertise.

OUR INVESTMENT HIGHLIGHTS

- Biopharmaceutical company with R&D and commercial capabilities in two therapeutic areas: ophthalmology and pulmonology
- Innovative, late-stage pipeline with multiple product candidates
- Growing revenue stream from promotion of *AzaSite*[®], co-promotion of *Elestat*[®] and royalties on *Restasis*[®]

OUR COMMERCIAL PRODUCTS

Inspire employs a U.S. sales force for the promotion of *AzaSite*[®] for bacterial conjunctivitis and *Elestat*[®] for allergic conjunctivitis. Inspire licensed *AzaSite* from InSite Vision Incorporated. *Elestat* is co-promoted under an agreement with Allergan, Inc.

AzaSite[®]

AzaSite (azithromycin ophthalmic solution) 1% delivers high and sustained concentrations in ocular tissue^{1,2} while delivering broad spectrum coverage against the most common ocular pathogens.³ Additionally, the active ingredient in *AzaSite* is azithromycin, which has anti-inflammatory activity.*^{4,5,6} Full prescribing information available at www.inspireinc.com



AzaSite®

AzaSite (azithromycin ophthalmic solution) 1% delivers high and sustained concentrations in ocular tissue^{1,2} while delivering broad spectrum coverage against the most common ocular pathogens.³ Additionally, the active ingredient in *AzaSite* is azithromycin, which has anti-inflammatory activity^{*,4,5,6} Full prescribing information available at www.azasite.com.

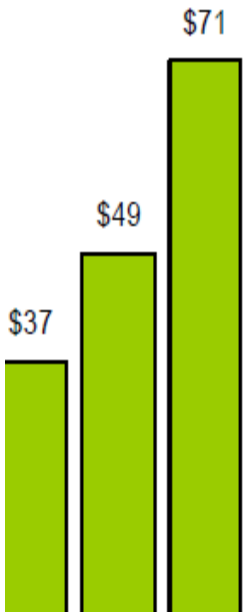


?



activity at both the H₁ and H₂ receptors.
Full prescribing information available at
www.elestat.com.

RECENT NEWS



Inspire Announces Presentations at European Cystic Fibrosis Society Annual Meeting

Inspire Announces Presentations at American Thoracic Society Annual Meeting

Inspire Reports First Quarter 2009 Financial Results

Inspire Announces Poster Presentations at the 2009 Association for Research and

*** The anti-inflammatory activity of topically administered AzaSite has not been clinically established.**

- 1 Torkildsen G, O'Brien TP. *Clinical Therapeutics*. 2009; 33 (11):1-10.
- 2 Data on file, Inspire Pharmaceuticals, Inc., Study Report 041-103.
- 3 Data on file, Inspire Pharmaceuticals, Inc., NDA Clinical Summary.
- 4 Jacot JL, Jacot TA, Sheppard JD Jr, Lattanzio FA Jr, Williams PB, Brubaker K. Evaluation of MMP 2/9 modulation by azithromycin and DuraSite on human corneal epithelial cells and bovine corneal endothelial cells *in vitro*. Poster presented at: 2008 Association for

*** The anti-inflammatory activity of topically administered AzaSite has not been clinically established.**

requirement of [the Federal Food, Drug, and Cosmetic] Act and FDA implementing regulations.”

B. Inspire Targeted Doctors Likely To Write Prescriptions for Blepharitis

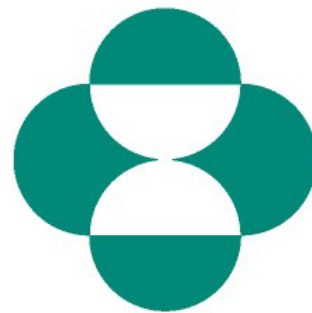
41. Inspire recognized early on that pediatricians treated the most cases of bacterial conjunctivitis, followed by primary care doctors, and described pediatricians as “the most

C. Inspire Trained Its Sales Force on the Purported Anti-Inflammatory Effects of AzaSite and Encouraged Its Sales Force to Focus on Blepharitis

44. Inspire emphasized to its sales force the benefits of treating blepharitis with

E. Inspire Adopted a Speakers Program to Promote AzaSite as a Treatment for Blepharitis

53. Inspire had a nationwide speaker program that employed eye doctors to make



MERCK



+ a b l e a u[®]

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A9 ADAIR,BRIAN, NC

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
	Full Name - State	npi	nppes_pr nprovider_la st_org_n	nppes_pr nprovider_fi rst_name	nppes_pr nprovider_ci ty	nppes_pr nprovider_st ate	specialty _descript ion	descripti on_flag	drug_na me	generic_name	bene_count	total_claim count	total_day _supply	Average Days/Claim	Average Claims/Be neficiary	total_drug _cost	be ur
1	ABDUL-RAHIM,AZIZ, TX	188169027	ABDUL-RA	AZIZ	FORT WO	TX	Ophthalm	S	AZASITE	AZITHROMYCIN		12	271	23	#DIV/0!	\$1,256.50	
2	ABOWD,MICHAEL, OH	197257537	ABOWD	MICHAEL	TOLEDO	OH	Ophthalm	S	AZASITE	AZITHROMYCIN	20	27	693	26	1	\$2,639.81	
3	ABRAHAMSON,RICHARD, OH	159874775	ABRAHAM	RICHARD	CINCINNA	OH	Ophthalm	S	AZASITE	AZITHROMYCIN		11	337	31	#DIV/0!	\$1,936.68	
4	ABRAMS,DAVID, TX	188165434	ABRAMS	DAVID	SAN ANT	TX	Ophthalm	S	AZASITE	AZITHROMYCIN		13	378	29	#DIV/0!	\$2,210.29	
5	ACKER,HERBERT, IN	16593622	ACKER	HERBERT	FORT WAY	IN	Family Pr	S	AZASITE	AZITHROMYCIN		11	160	15	#DIV/0!	\$1,134.14	
6	ACOSTA,CELESTE, TX	13967934	ACOSTA	CELESTE	HELOTES	TX	Optometr	S	AZASITE	AZITHROMYCIN		14	343	25	#DIV/0!	\$1,696.29	
7	ACOSTA,SHARRON, TX	146746584	ACOSTA	SHARRON	SEGUIN	TX	Ophthalm	S	AZASITE	AZITHROMYCIN	12	23	419	18	2	\$2,256.79	
8	ADAIR,BRIAN, NC	172005795	ADAIR	BRIAN	HICKORY	NC	Ophthalm	S	AZASITE	AZITHROMYCIN		12	192	16	#DIV/0!	\$1,304.84	
9	ADAMO,VINCENT, CO	15482445	ADAMO	VINCENT	AURORA	CO	Internal M	S	AZASITE	AZITHROMYCIN		13	139	11	#DIV/0!	\$1,405.36	
10	ADEN,WILLIAM, MS	117455871	ADEN	WILLIAM	FLOWOO	MS	Ophthalm	S	AZASITE	AZITHROMYCIN		16	212	13	#DIV/0!	\$1,590.79	
11	ADLER,FRED, IN	170088706	ADLER	FRED	MUNSTER	IN	Internal M	S	AZASITE	AZITHROMYCIN		11	154	14	#DIV/0!	\$1,143.46	
12	ADUSUMILLI,VEENA, PA	189185622	ADUSUMI	VEENA	EASTON	PA	Optometr	S	AZASITE	AZITHROMYCIN	22	23	457	20	1	\$2,271.52	
13	AFSHARI,NATALIE, NC	153812673	AFSHARI	NATALIE	DURHAM	NC	Ophthalm	S	AZASITE	AZITHROMYCIN		11	240	22	#DIV/0!	\$1,054.56	
14	AGARWAL,RAJESH, OH	128561857	AGARWAL	RAJESH	MAYFIELD	OH	Internal M	S	AZASITE	AZITHROMYCIN		11	275	25	#DIV/0!	\$1,183.68	
15	AGNONE,CHARLOTTE, OH	125544685	AGNONE	CHARLOTT	MARYSVIL	OH	Ophthalm	S	AZASITE	AZITHROMYCIN	22	39	1,537	39	2	\$9,292.85	
16	AGUILAR,JUAN, FL	12553500	AGUILAR	JUAN	CORAL GA	FL	Ophthalm	S	AZASITE	AZITHROMYCIN		12	190	16	#DIV/0!	\$1,172.81	
17	AHN,JEUNG, OH	197257812	AHN	JEUNG	NEW PARI	OH	Family Pr	S	AZASITE	AZITHROMYCIN		18	198	11	#DIV/0!	\$1,930.35	
18	AIELLO,THOMAS, NY	136644475	AIELLO	THOMAS	BROOKLY	NY	Ophthalm	S	AZASITE	AZITHROMYCIN		20	488	24	#DIV/0!	\$2,332.60	
19	AIRALA,MANUEL, FL	158862271	AIRALA	MANUEL	MIAMI	FL	Ophthalm	S	AZASITE	AZITHROMYCIN		30	786	26	#DIV/0!	\$3,489.30	
20	AITKEN,PHIL, VT	107354994	AITKEN	PHIL	SOUTH BU	VT	Ophthalm	S	AZASITE	AZITHROMYCIN		14	372	27	#DIV/0!	\$1,653.50	
21	ALARIO,FRANK, NJ	119474022	ALARIO	FRANK	MARLBOR	NJ	Internal M	S	AZASITE	AZITHROMYCIN		24	397	17	#DIV/0!	\$2,527.06	
22	ALBERT,MICHAEL, MS	167956205	ALBERT	MICHAEL	PEARL	MS	Family Pr	S	AZASITE	AZITHROMYCIN		15	269	18	#DIV/0!	\$1,626.43	

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Clipboard: Cut, Copy, Paste, Format Painter

Font: Calibri, 11, Bold, Italic, Underline, Text Color, Background Color

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Cells: Insert, Delete, Format

Editing: AutoSum, Fill, Clear, Sort & Find & Filter, Select

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1883	YOUNG,CAROLE, SC	10331337	YOUNG CAROLE	GEORGETSC	OphthalmS	AZASITE	AZITHROMYCIN					12	327	27	#DIV/0!	\$1,163.38
1884	YOUNG,COLENE, NY	11149061	YOUNG COLENE	COMMACHY	OphthalmS	AZASITE	AZITHROMYCIN					18	409	23	#DIV/0!	\$2,951.96
1885	YOUNG,JOSHUA, TN	13766072	YOUNG JOSHUA	HERMITACTN	OphthalmS	AZASITE	AZITHROMYCIN				16	21	354	17	1	\$2,039.63
1886	YOUNG,STEVEN, UT	19624976	YOUNG STEVEN	LOGAN UT	OphthalmS	AZASITE	AZITHROMYCIN					11	295	27	#DIV/0!	\$1,089.49
1887	YU,BERNARD, TX	16796785	YU BERNARD	HOUSTON TX	OphthalmS	AZASITE	AZITHROMYCIN				21	34	652	19	2	\$3,441.07
1888	YU,DAVID, CA	13462123	YU DAVID	PASADEN,CA	OphthalmS	AZASITE	AZITHROMYCIN					14	282	20	#DIV/0!	\$1,392.32
1889	YUAN,RUMEI, NY	11948216	YUAN RUMEI	FLUSHING NY	OphthalmS	AZASITE	AZITHROMYCIN				65	90	1,691	19	1	\$9,781.61
1890	YUEN,DANA, CA	19725346	YUEN DANA	LOS ANGE CA	OphthalmS	AZASITE	AZITHROMYCIN					14	293	21	#DIV/0!	\$1,675.11
1891	ZAHLER,JONATHAN, OH	10536411	ZAHLER JONATHAN	NORWALK OH	OphthalmS	AZASITE	AZITHROMYCIN					21	439	21	#DIV/0!	\$2,005.12
1892	ZAIMAN,GERALD, NY	10432039	ZAIMAN GERALD	VALHALLA NY	OphthalmS	AZASITE	AZITHROMYCIN					16	304	19	#DIV/0!	\$1,558.85
1893	ZAMAN,FAIAZ, TX	10735081	ZAMAN FAIAZ	HOUSTON TX	OphthalmS	AZASITE	AZITHROMYCIN				13	23	461	20	2	\$2,299.85
1894	ZAMORA,RENE, NV	14179422	ZAMORA RENE	LAS VEGA NV	OphthalmS	AZASITE	AZITHROMYCIN				90	122	2,579	21	1	\$12,205.17
1895	ZEINI,MAMDOUH, FL	11847943	ZEINI MAMDOU	LADY LAKE FL	OphthalmS	AZASITE	AZITHROMYCIN				14	14	301	22	1	\$1,400.32
1896	ZELINKA,MAUREEN, FL	13361197	ZELINKA MAUREEN	FORT PIER FL	Internal MS	AZASITE	AZITHROMYCIN					16	326	20	#DIV/0!	\$1,707.77
1897	ZENDLER,ROBERT, MI	16696865	ZENDLER ROBERT	FLINT MI	OphthalmS	AZASITE	AZITHROMYCIN				13	20	335	17	2	\$1,927.83
1898	ZERYKIER,ABRAHAM, NY	14977108	ZERYKIER ABRAHAM	STATEN IS NY	OphthalmS	AZASITE	AZITHROMYCIN				12	25	488	20	2	\$2,426.86
1899	ZGUTA,AMY, MO	13767008	ZGUTA AMY	COLUMBIA MO	OphthalmS	AZASITE	AZITHROMYCIN					11	296	27	#DIV/0!	\$1,082.63
1900	ZHAO,JASON, TX	19422080	ZHAO JASON	SAN ANTC TX	OphthalmS	AZASITE	AZITHROMYCIN				55	117	2,480	21	2	\$12,720.62
1901	ZINK,JEFFREY, OH	16896113	ZINK JEFFREY	CINCINNA OH	OphthalmS	AZASITE	AZITHROMYCIN					13	181	14	#DIV/0!	\$1,272.06
1902	ZUECH,DAVID, OK	18614990	ZUECH DAVID	ENID OK	OphthalmS	AZASITE	AZITHROMYCIN					11	252	23	#DIV/0!	\$1,076.24
1903	ZYGAWSKI,MARCIN, NY	13967475	ZYGAWSKI MARCIN	COOPERS NY	OphthalmS	AZASITE	AZITHROMYCIN				11	16	340	21	1	\$1,540.44
1904																
1905																
1906																
1907																

Ready Azasite Payment Pivot Name Total Pay

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Windows Taskbar: File Explorer, Word, Chrome, Edge, Excel

System Tray: 11:38 PM, 8/3/2015

SUM(Total Payment)

Marks

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Detail Tooltip

SUM(Average Claim..)

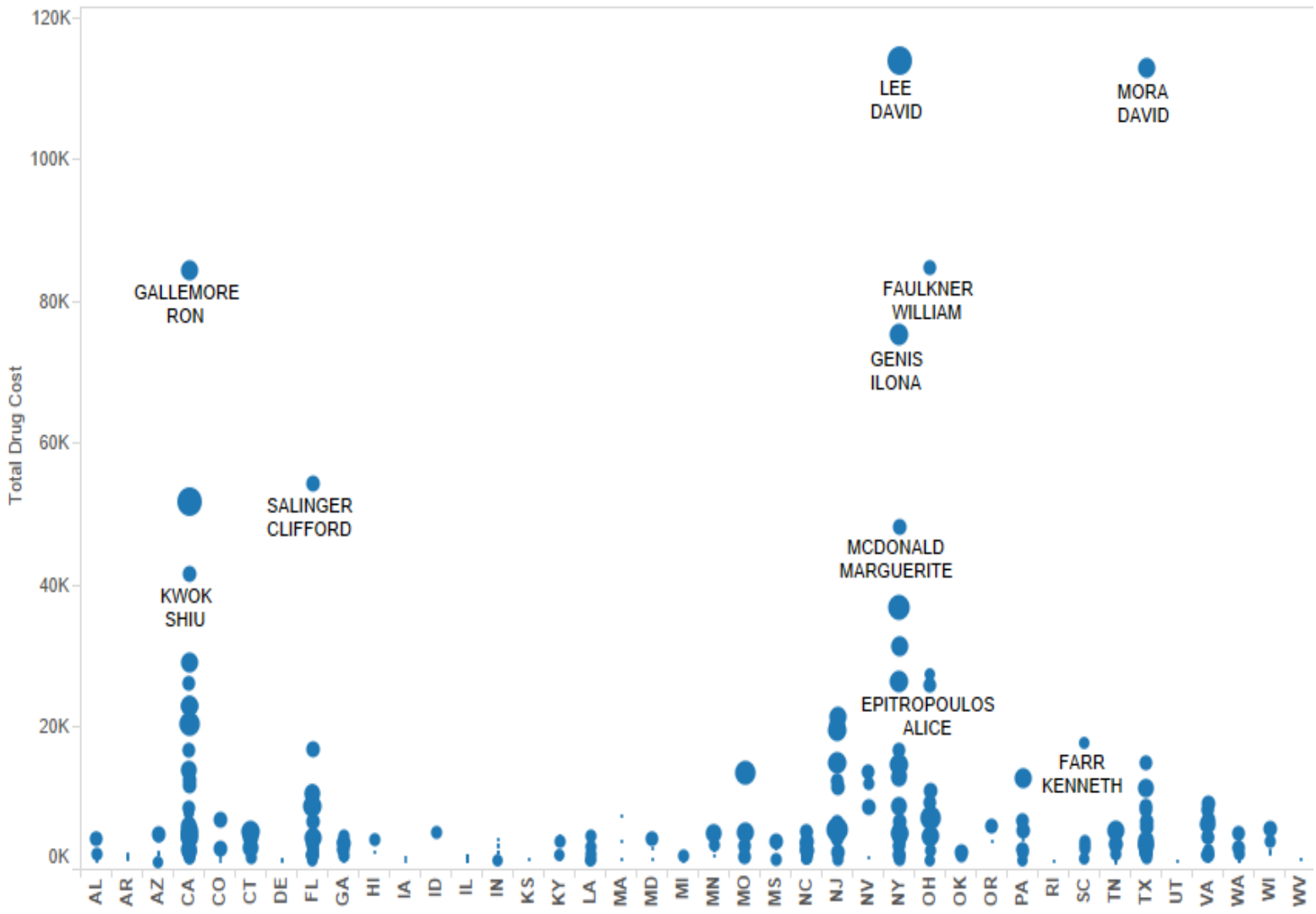
Nppes Provider Las..

Nppes Provider Firs..

SUM(Total Payment)

SUM(Average Claims/Be...)

- 1.000
- 2.000
- 3.000
- 4.000
- 5.000
- 6.265



(Pay > \$70)

SUM(Total Payment)

Marks

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Detail Tooltip

SUM(Average Claim..

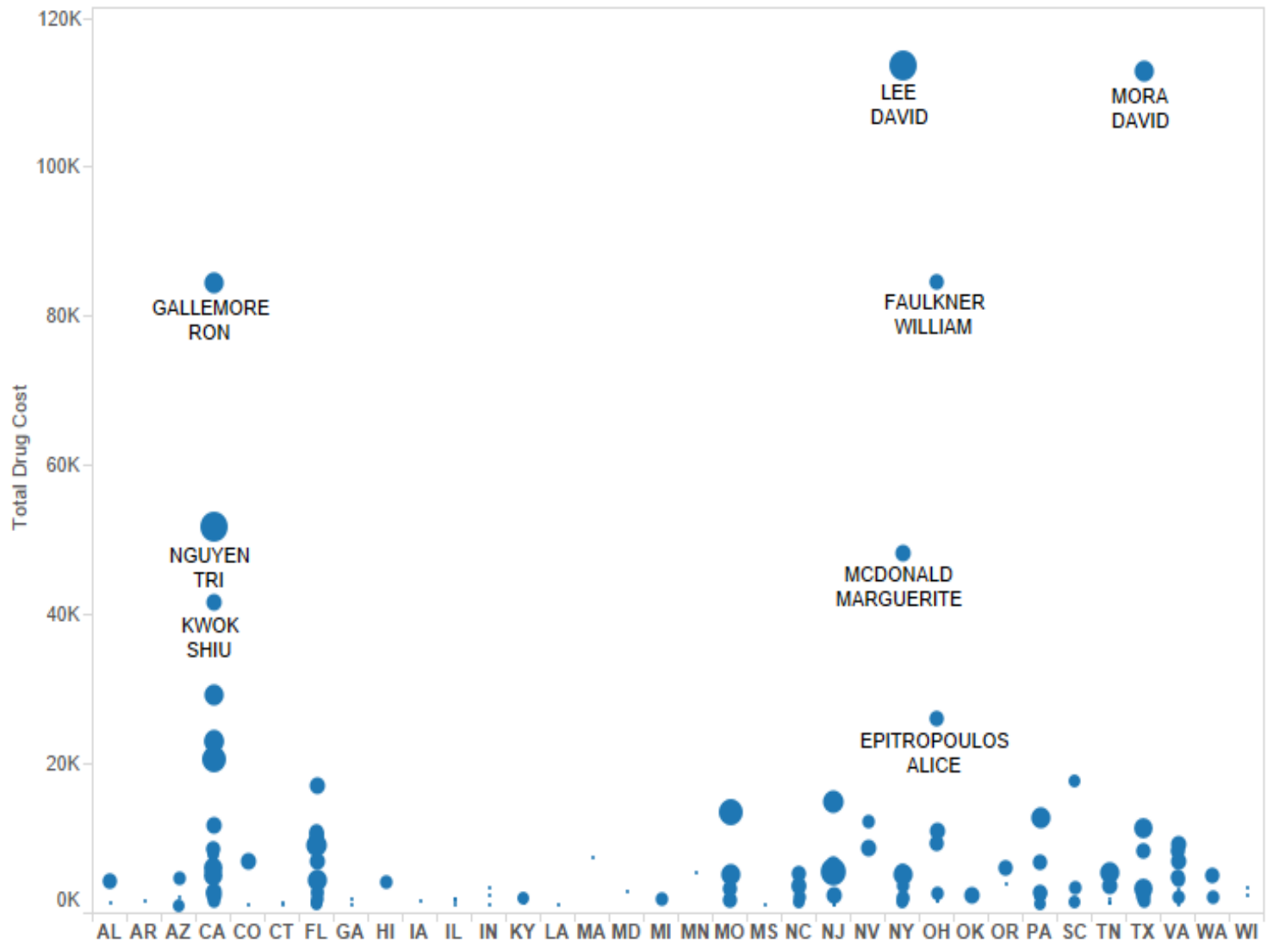
Nppes Provider Las..

Nppes Provider Firs..

SUM(Total Payment)

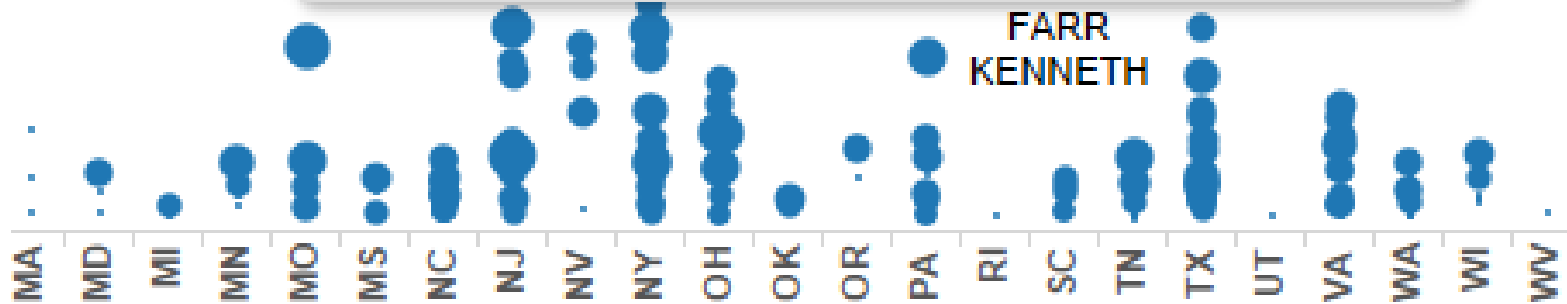
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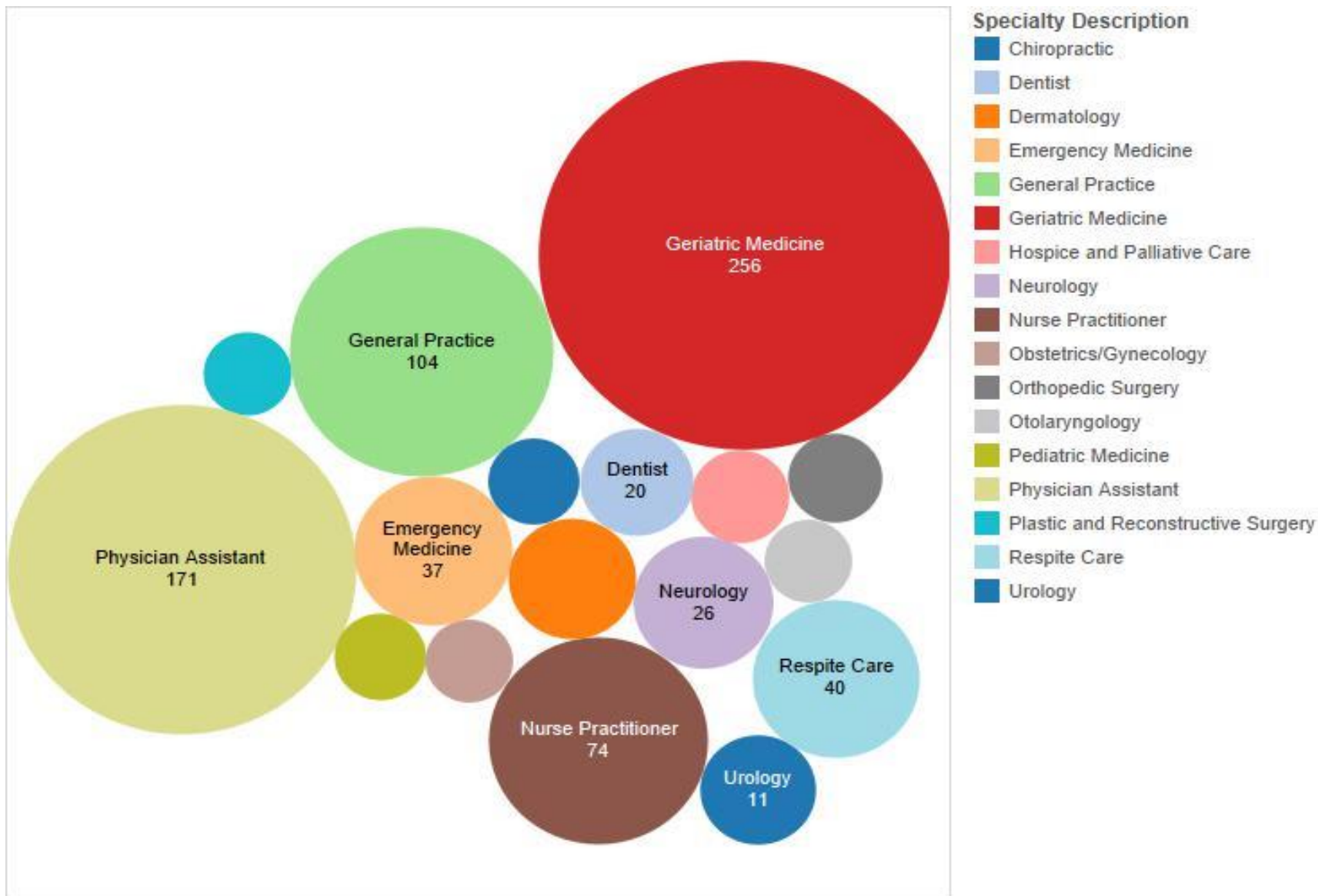
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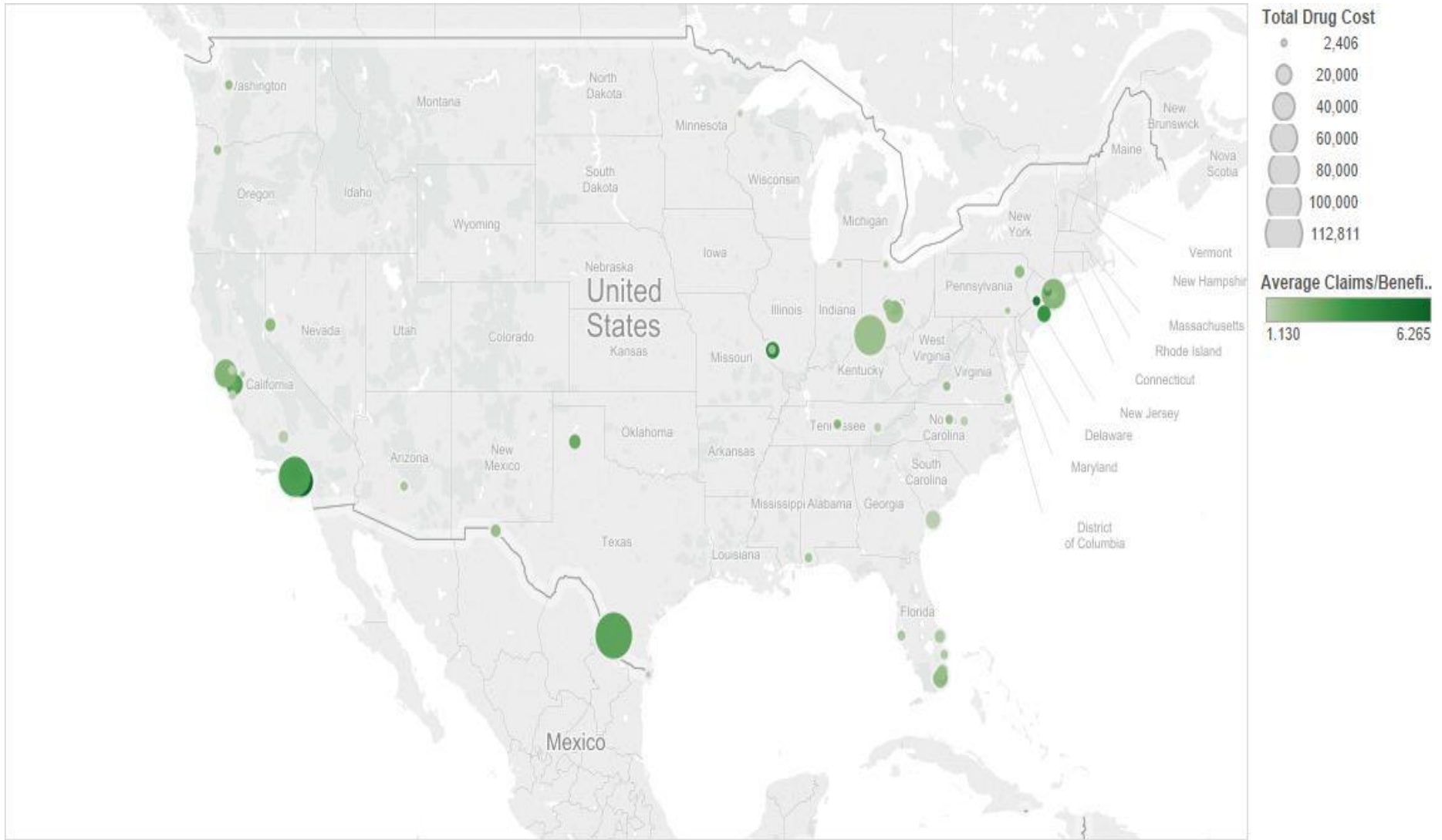
Nppes Provider First Name: **RANJAN**
Nppes Provider Last Org Name: **MALHOTRA**
Nppes Provider State: **MO**
Average Claims/Beneficiary (where B>11): **4.278**
Total Payment: **4,059**
Total Drug Cost: **13,603**

Keep Only Exclude   

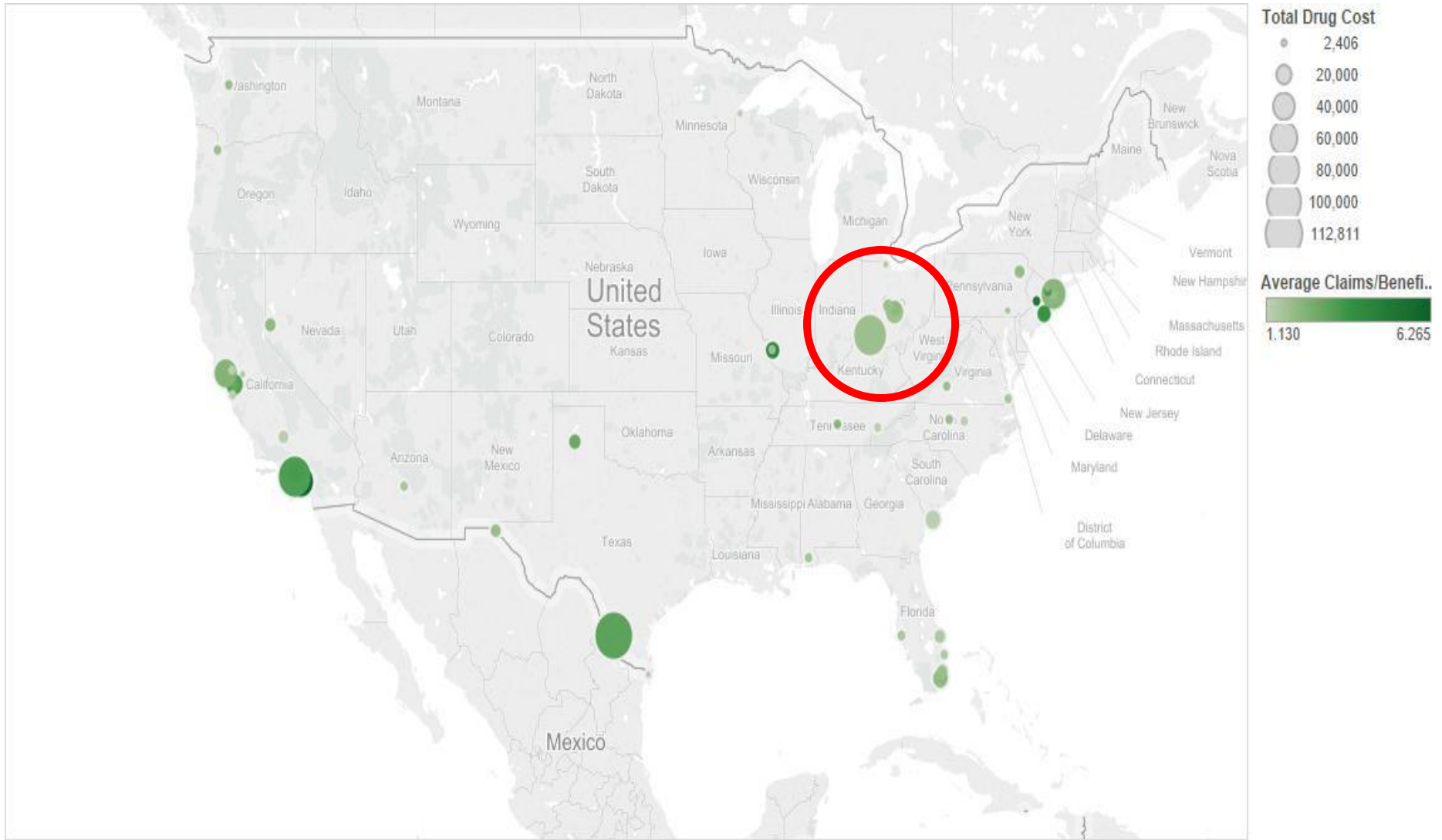




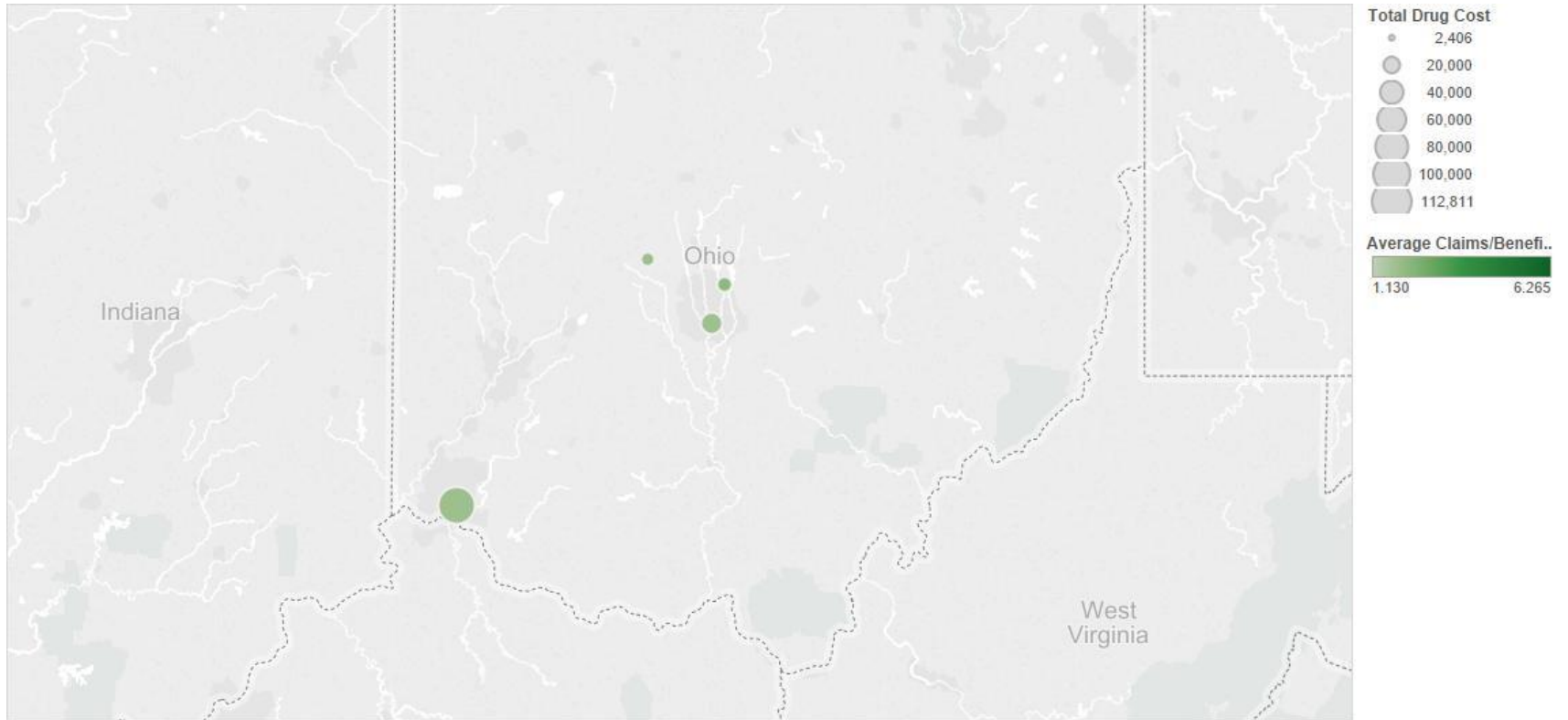
Specialty Description and sum of Total Claim Count. Color shows details about Specialty Description. Size shows sum of Total Drug Cost. The marks are labeled by Specialty Description and sum of Total Claim Count. The data is filtered on sum of Bene Count, which keeps all values. The view is filtered on Specialty Description, which excludes Family Practice, Internal Medicine, Ophthalmology and Optometry.



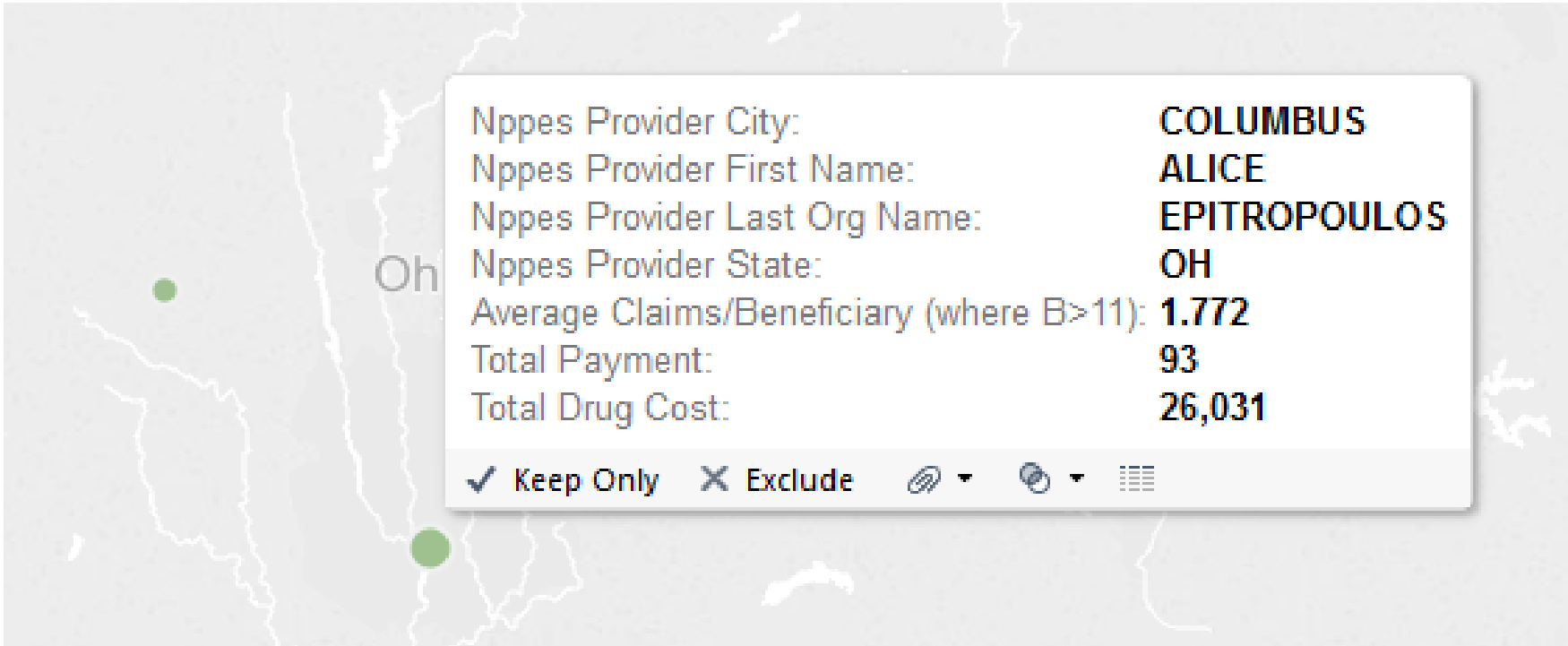
Map based on Longitude (generated) and Latitude (generated). Color shows sum of Average Claims/Beneficiary (where B>11). Size shows sum of Total Drug Cost. Details are shown for various dimensions. The data is filtered on sum of Total Claim Count, which ranges from 25 to 1,082. The view is filtered on sum of Total Payment, which ranges from 70 to 10,267.



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Average Claims/Beneficiary (where B>11). Size shows sum of Total Drug Cost. Details are shown for various dimensions. The data is filtered on sum of Total Claim Count, which ranges from 25 to 1,082. The view is filtered on sum of Total Payment, which ranges from 70 to 10,267.





Map based on Longitude (generated) and Latitude (generated). Color shows sum of Average Claims/Beneficiary (where B>11). Size shows sum of Total Drug Cost. Details are shown for various dimensions. The data is filtered on sum of Total Claim Count, which ranges from 25 to 1,082. The view is filtered on sum of Total Payment, which ranges from 70 to 10,267.




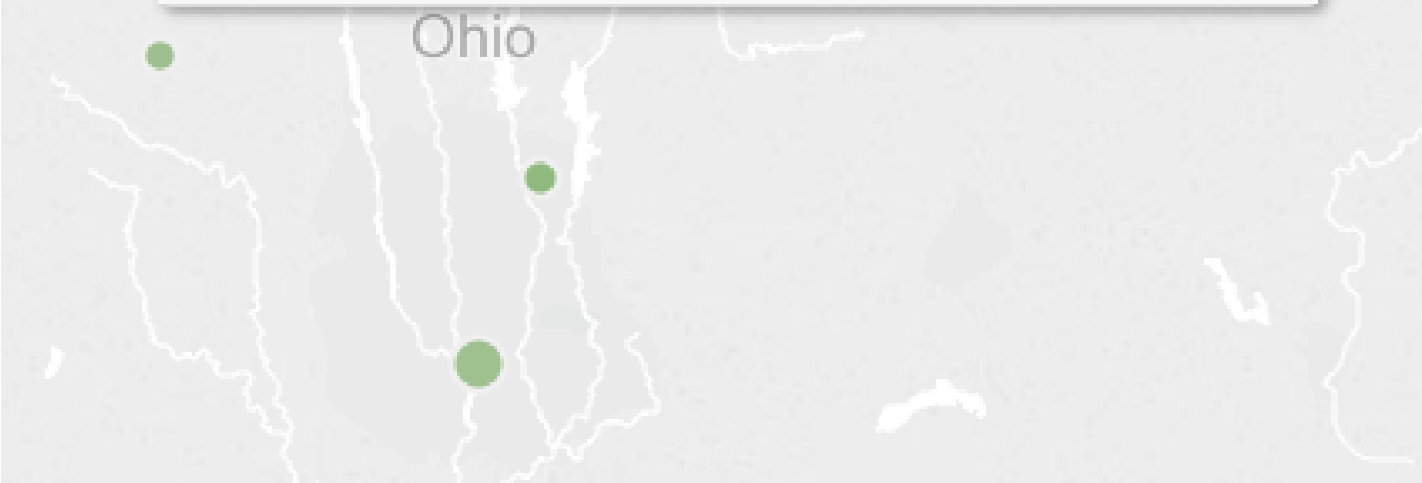
A map of Ohio is shown in the background with two green circular markers. A white popup window with a grey border is overlaid on the map, displaying provider information. The popup has a toolbar at the bottom with icons for 'Keep Only', 'Exclude', and other map controls.

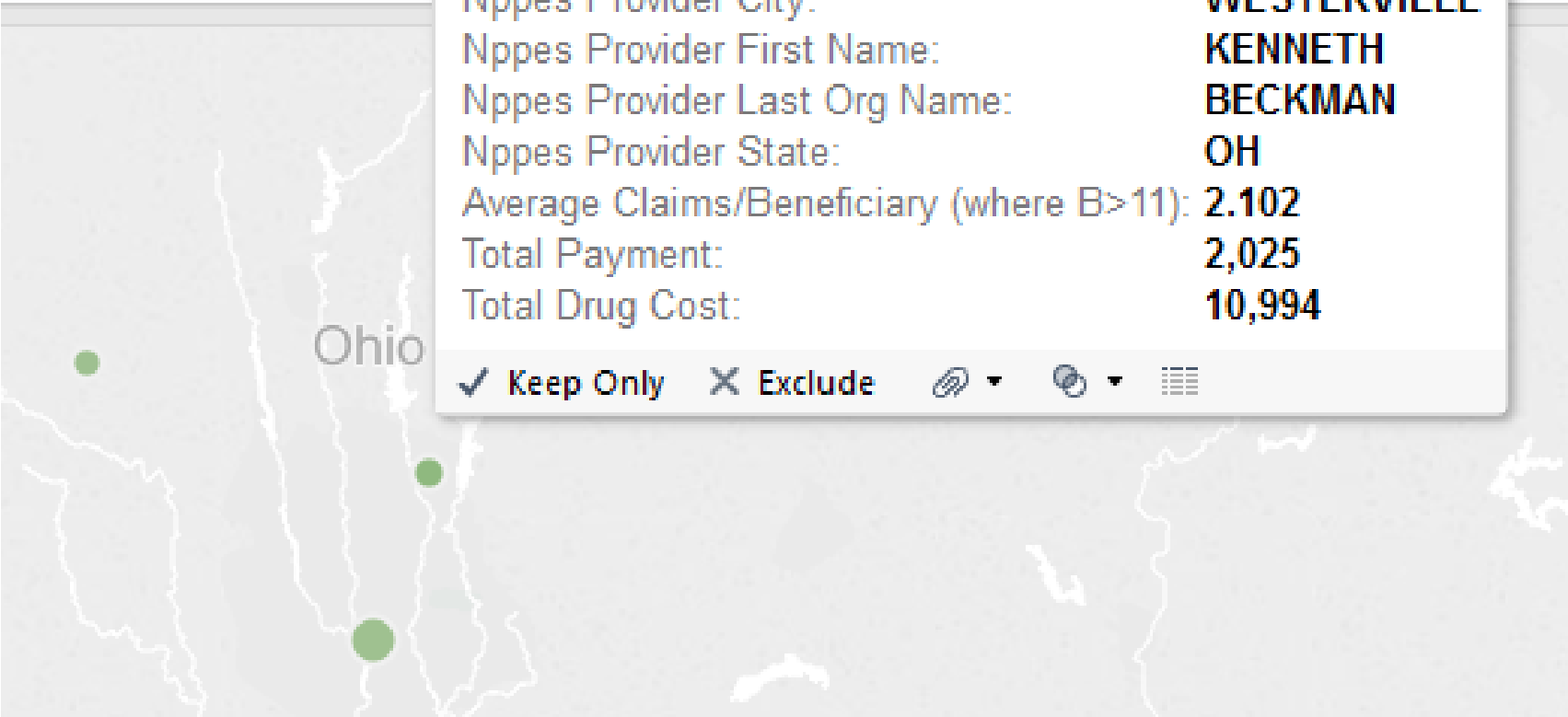
Nppes Provider City:	COLUMBUS
Nppes Provider First Name:	ALICE
Nppes Provider Last Org Name:	EPITROPOULOS
Nppes Provider State:	OH
Average Claims/Beneficiary (where B>11):	1.772
Total Payment:	93
Total Drug Cost:	26,031

Keep Only Exclude   

Nppes Provider City:	MARYSVILLE
Nppes Provider First Name:	CHARLOTTE
Nppes Provider Last Org Name:	AGNONE
Nppes Provider State:	OH
Average Claims/Beneficiary (where B>11):	1.773
Total Payment:	93
Total Drug Cost:	9,293

Keep Only Exclude   





A map of Ohio is shown in the background with three green circular markers. A white popup box with a grey border is overlaid on the map, displaying provider information for Westerville, OH. The popup contains the following text:

Nppes Provider City:	WESTERVILLE
Nppes Provider First Name:	KENNETH
Nppes Provider Last Org Name:	BECKMAN
Nppes Provider State:	OH
Average Claims/Beneficiary (where B>11):	2.102
Total Payment:	2,025
Total Drug Cost:	10,994

✓ **Keep Only** ✕ **Exclude** 📍 ▼ 🗎 ▼ ☰



Havener Eye Institute

Department of Ophthalmology & Visual Science



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Clinical Professors

Susan C. Benes, MD

John A. Burns, MD

Kenneth V. Cahill, MD



Clinical Professors

Susan C. Benes, MD

John A. Burns, MD

Kenneth V. Cahill, MD

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Robert J. Derick, MD

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Richard E. Simmons, MD
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J. Geoffrey Allen, MD
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Kenneth Beckman, MD
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Paul Kurz, MD
Mark S. Law, MD
David M. Lehmann, MD
Richard Liston, MD
Mark Lomeo, MD
John L. Marquardt, MD
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