

## Presentation II:

# Specialty Medications – *A Changing Game*

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October 1, 2015 12:30pm

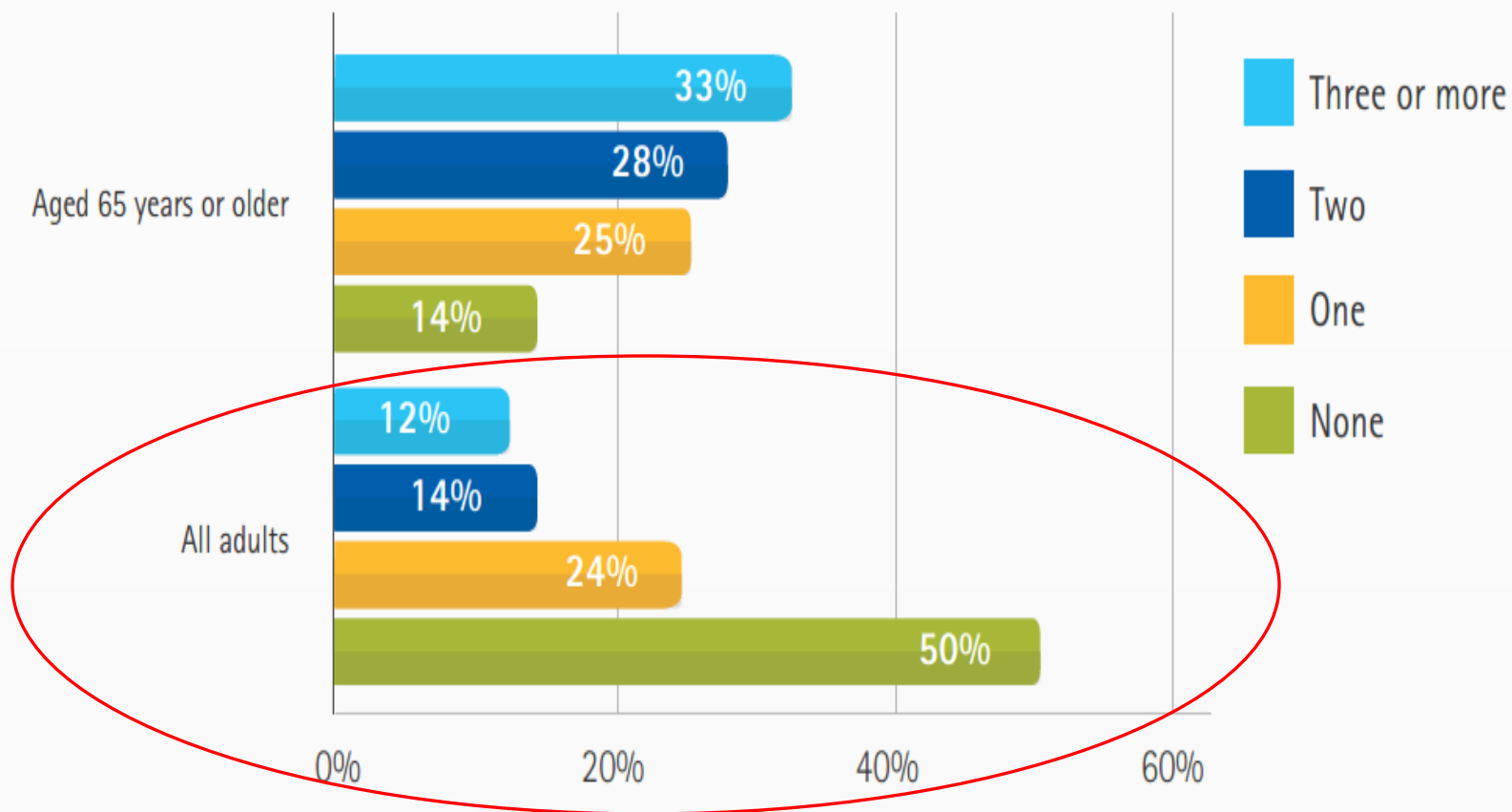
October 14, 2015 7:00am

October 27, 2015 5:30pm

# Key Points:

1. Discuss Specialty Medications
  - Biologics / Biopharmaceuticals
  - New Biosimilar Market
2. Current State of Pharmacy
  - LCPN / NEPHO Costs
3. Strategies for Cost Control
  - Health Plan / Patient / Provider perspectives
  - LCPN / NEPHO perspective

## Number of Chronic Health Conditions Among US Adults, 2012<sup>1</sup>

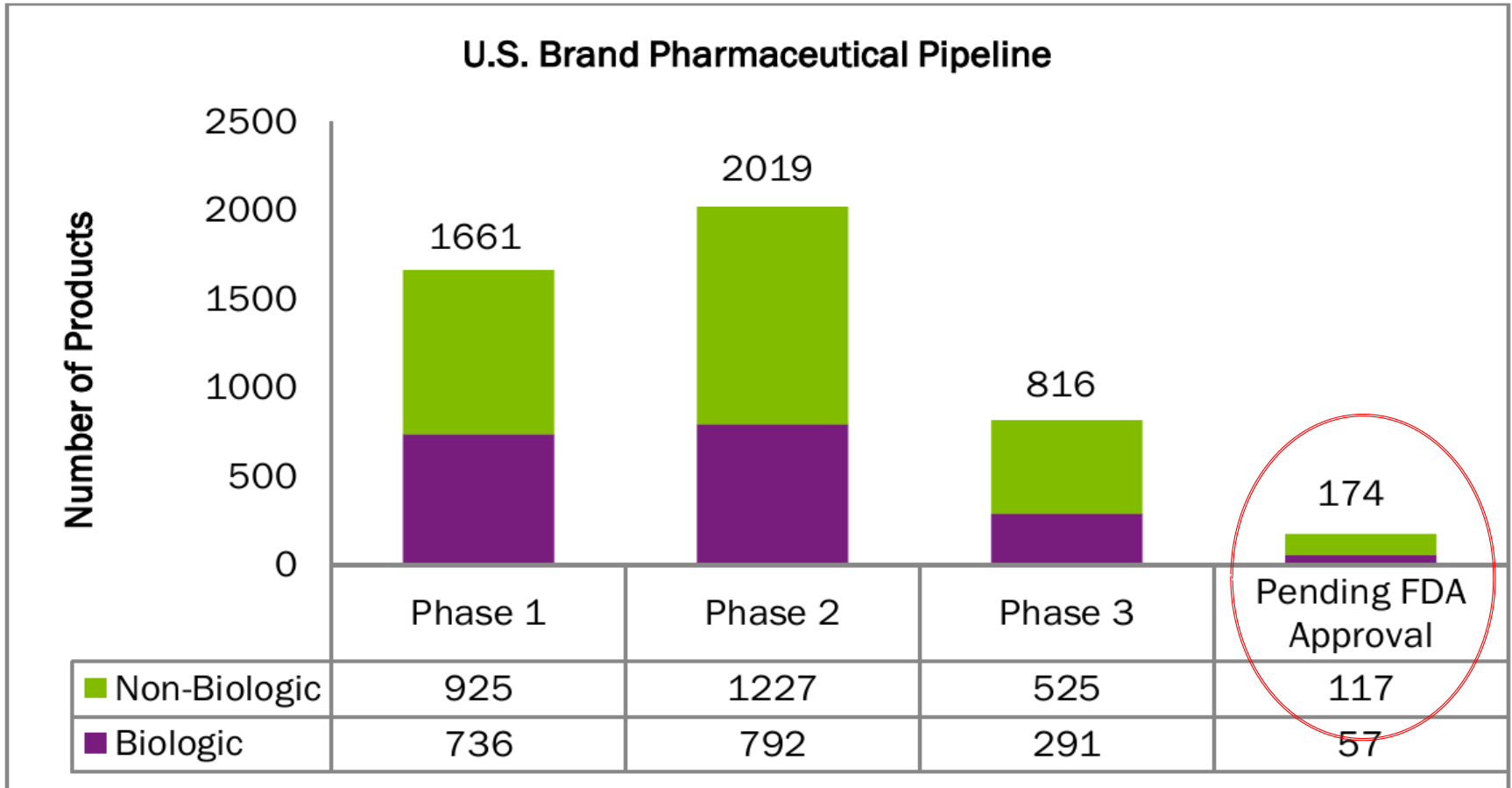


Source: US Centers for Disease Control and Prevention.<sup>1</sup>

EMD Serono Specialty Digest, 11<sup>th</sup> Edition Managed Care Strategies for Specialty Pharmaceuticals

# Healthy Drug Pipeline

- As of August 31, 2015, there are approximately 4,670 products either pending FDA approval or in phase 1, 2, or 3 of clinical development within the United States.



Biologic = blood products, allergenics, recombinant peptides or proteins, monoclonal antibodies, vaccines, and cell or gene therapies (includes both specialty and non-specialty potentially designated products)

# Traditional vs. Specialty Medications

## *Traditional Medications*

brand /generic

- Treatment acute/ chronic conditions
  - Hyperlipidemia
  - Hypertension
  - Diabetes, etc.
- Cost usually < \$600 per month (per CMS)
- Retail pharmacy network

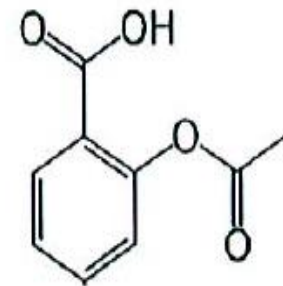
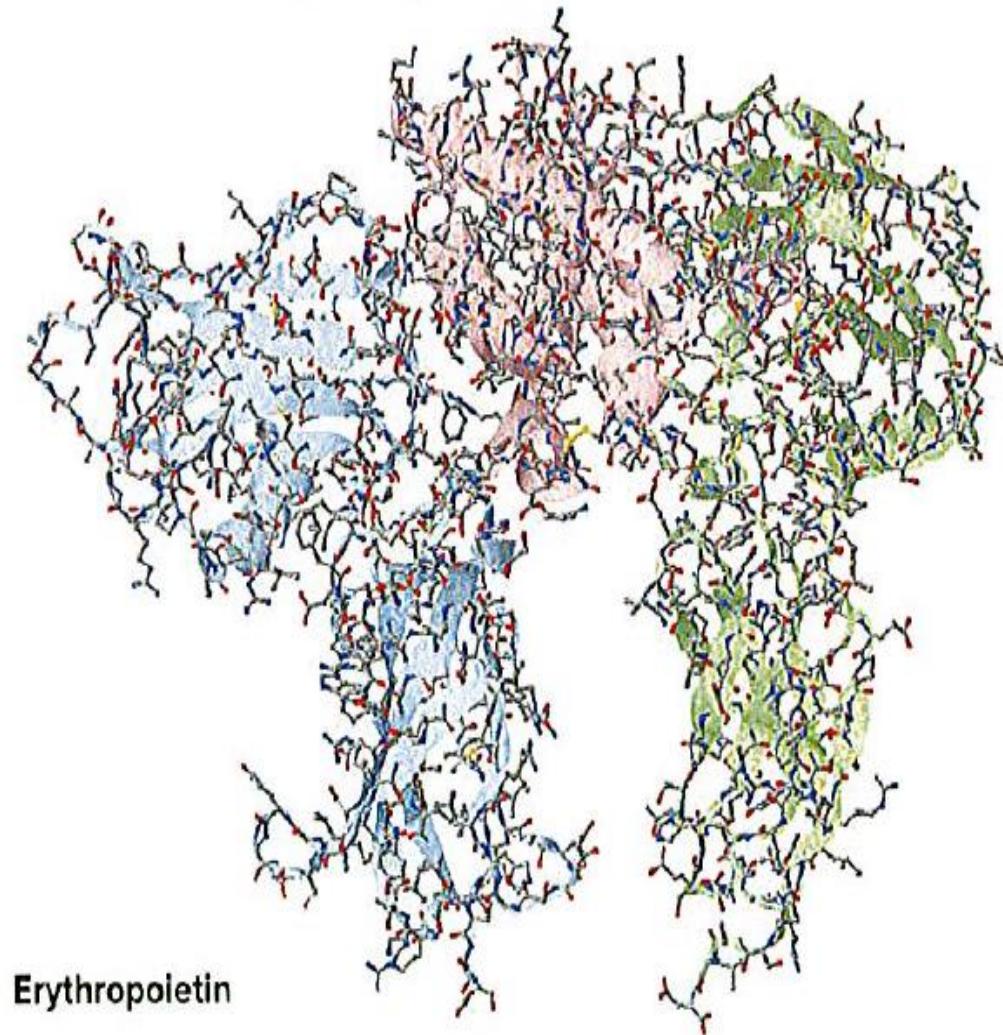
## *Specialty Medications*

known as biologics or biopharmaceuticals

- Treat rare, complex and/or life-threatening conditions
- High annual cost >\$600 per month
- Special requirements - storage, handling, dispensing and/or administration
- Require:
  - Patient education
  - Ongoing monitoring
  - Clinical management
- Restricted or limited distribution

*The average  
specialty drug costs  
\$1,776  
compared to  
\$54 for a traditional  
drug*

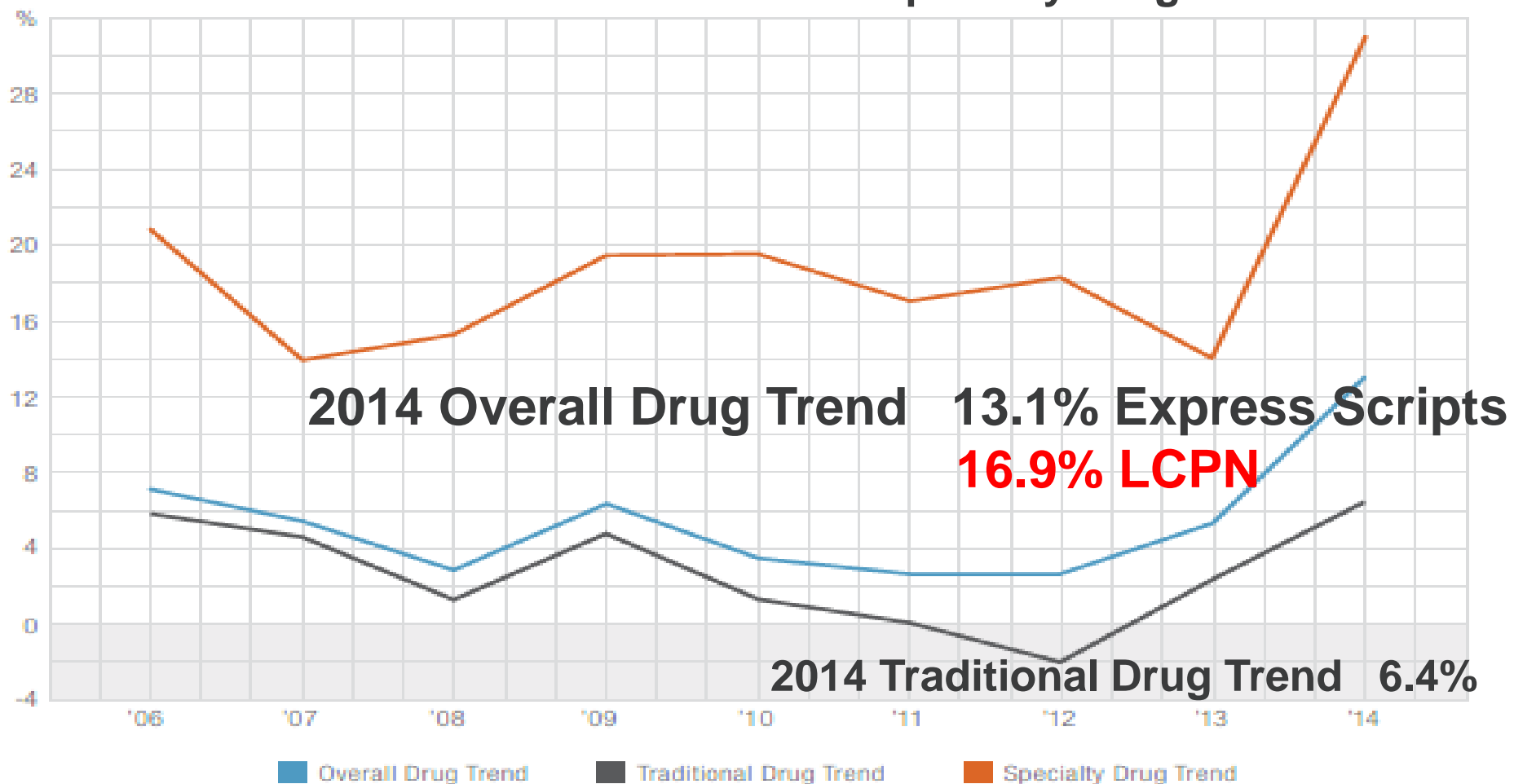
**Figure 1 The Differing Complexity of Biologics and Chemical Drugs<sup>29</sup>**



This illustration depicts the markedly greater structural complexity of the biologic agent, erythropoietin, compared with aspirin, a conventional, small-molecule chemical drug.

# TRADITIONAL, SPECIALTY AND OVERALL TREND

2006 TO 2014



# Traditional Medication Cost Increases

- Unprecedented brand / generic cost increases since 2012
- Manufacturer consolidation, drug shortages, profit-taking
- Insulin manufacturers have taken quarterly increases in 2014



Colchicine (Colcrys)

Digoxin is now ~ >\$1 per tablet

Doxycycline ~ \$3 - \$4 per tablet

Pyrimethamine (Daraprim) ~ \$750 / tablet (Turing Pharma)

Quinine ( Qualaquin)

Cycloserine (Seromycin) \$17/capsule  
to \$360 then back to \$35 / capsule

# Other Drug Increases – Valeant Pharmaceuticals

Drug	2013	2015	Treatment	Trend
<b>Glumetza 1000 mg tablets (#90)</b>	\$896	\$10,000	Diabetes	<b>1016%</b>
<b>Sypine 250 mg capsules (#100)</b>	\$1,385	\$21,267	Wilson Disease	<b>1436%</b>
<b>Cuprimine 250 mg capsules (#100)</b>	\$888	\$26,189	Wilson Disease	<b>2849%</b>
<b>Isuprel 0.2ml ampules (#25)</b>	\$4,489	\$36,811	Slow or irregular heart rate	<b>720%</b>

Note: The rights to Syprine, Cuprimine and Demser were acquired by Valeant in 2010. Source: AB Bernstein OCT. 4, 2015 By The New York Times

# COMPONENTS OF TREND FOR THE TOP 10 TRADITIONAL THERAPY CLASSES

RANKED BY 2014 PMPY SPEND

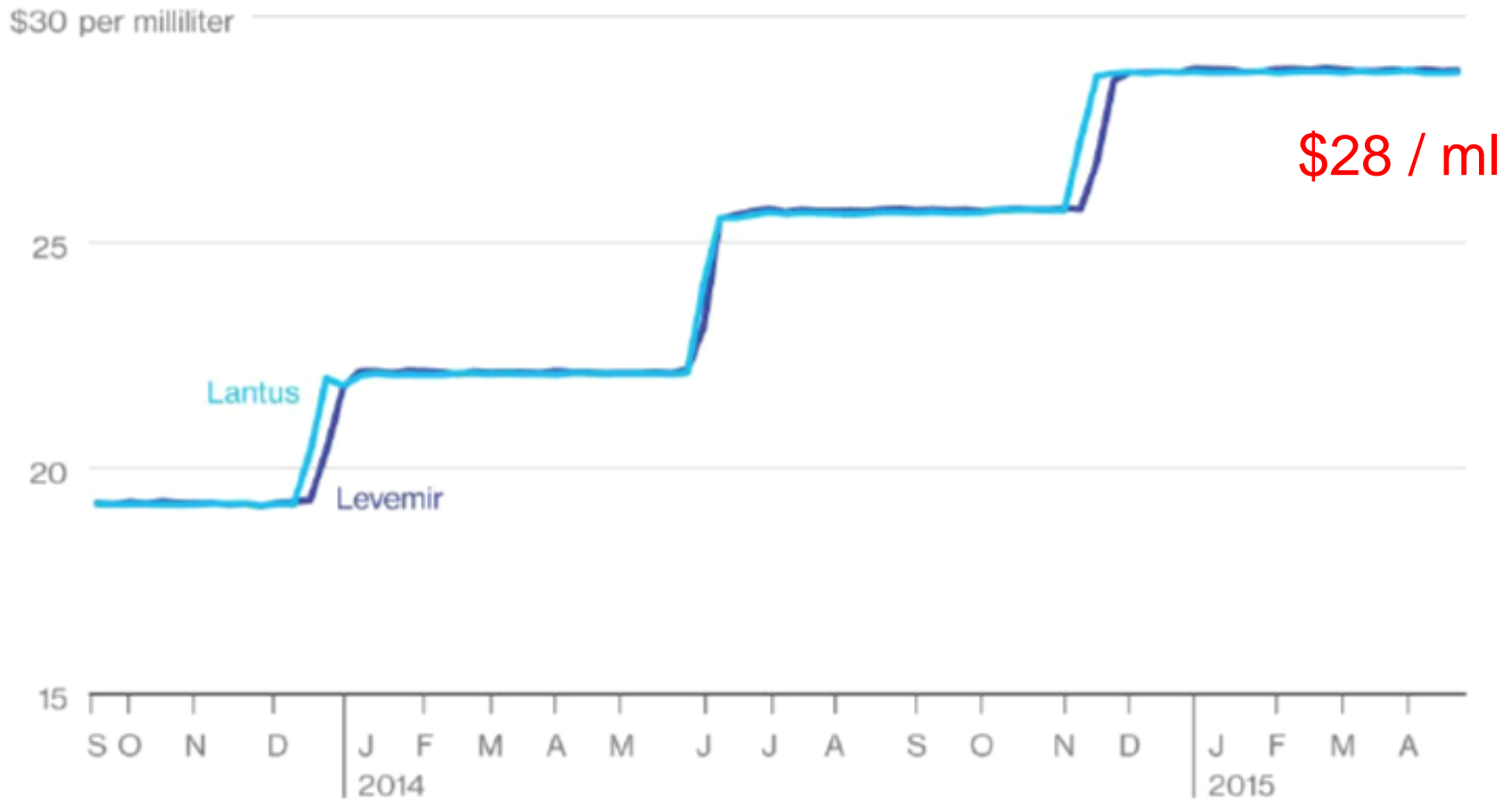
RANK	THERAPY CLASS	PMPY SPEND	TREND		
			UTILIZATION	UNIT COST	TOTAL
1	Diabetes	\$97.68	1.7%	16.3%	18.0%
2	High Blood Cholesterol	\$48.73	-2.9%	-3.9%	-6.8%
3	Compounded Drugs	\$46.04	0.2%	128.2%	128.4%
4	Pain/Inflammation	\$45.98	0.3%	15.7%	16.0%
5	High Blood Pressure/Heart Disease	\$36.06	-0.4%	-12.2%	-12.6%
6	Heartburn/Ulcer Disease	\$33.40	-1.4%	-9.2%	-10.6%
7	Asthma	\$29.59	-3.2%	-11.6%	-14.9%
8	Attention Disorders	\$27.97	3.4%	2.9%	6.3%
9	Depression	\$25.98	2.1%	-20.5%	-18.4%
10	Mental/Neurological Disorders	\$24.85	-0.5%	9.6%	9.1%
TOTAL TRADITIONAL		\$668.75	-0.1%	6.5%	6.4%

*2014 Trend would have been 2.3% if Compounded Drugs were excluded*

EMD Serono Specialty Digest, 11<sup>th</sup> Edition Managed Care Strategies for Specialty Pharmaceuticals

# Shadow Pricing

Prices for some competing drugs go up in lockstep, rising the same amount at about the same time.



Source: Bloomberg Intelligence analysis of Symphony Health Solutions data

# Hot Drugs, Big One-Year Price Jumps

Prices for many brand-name pharmaceuticals are soaring. Of 15 that saw 20%-plus price increases since last year, three are for diabetes.

Drug Dosage   Quantity	Drugmaker	Condition	Quarterly Price	Price growth Q1 2014-Q1 2015
Welchol 625MG   1 pill or capsule	Daiichi Sankyo	High cholesterol		40.3%
EpiPen 0.3MG injection   1 EpiPen	Mylan	Allergic reactions		32.0%
Lantus Vial injection   1 milliliter	Sanofi	Diabetes		29.9%
Levemir Vial injection   1 milliliter	Novo Nordisk	Diabetes		29.9%
Aggrenox 25-200MG   1 pill or capsule	Boehringer Ingelheim	Stroke prevention		26.4%
Strattera 25MG   1 pill or capsule	Eli Lilly	ADHD		25.4%
Lovaza 1GM   1 pill or capsule	GlaxoSmithKline	High triglycerides		25.1%
Lamictal 100MG   1 pill or capsule	GlaxoSmithKline	Epilepsy		24.2%
Nasonex 500MCG/AC   1 gram	Merck & Co.	Allergies		24.1%
Forteo SOL 600/2.4ML   1 milliliter	Eli Lilly	Osteoporosis		24.0%
Benicar 40MG   1 pill or capsule	Daiichi Sankyo	High blood pressure		23.8%
Celebrex 200MG   1 pill or capsule	Pfizer	Arthritis pain		22.5%
Viagra 25MG   1 pill or capsule	Pfizer	Erectile dysfunction		21.9%
Renvela PAK 0.8GM   1 package	Sanofi	Kidney disease		20.9%
Novolog Vial injection   1 milliliter	Novo Nordisk	Diabetes		20.9%

Source: Analysis by DRX based on average wholesale prices

Note: See bottom of story for company comments

# Specialty Medications

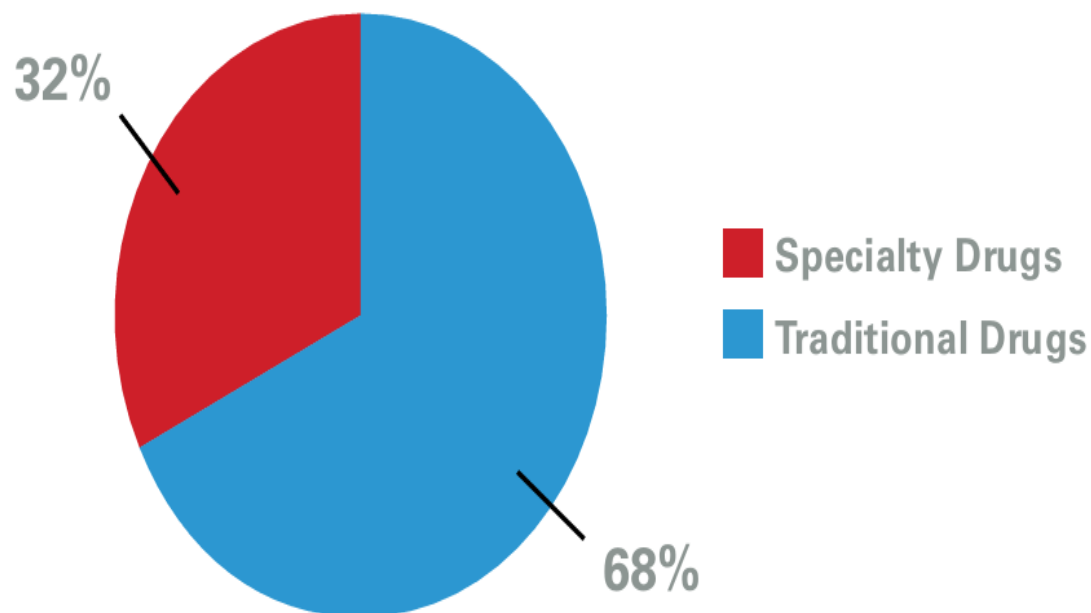
## *Common Specialty Therapeutic Areas*

- Allergic Asthma
- Anemia/Neutropenia
- Crohn's Disease
- Cystic Fibrosis
- Enzyme Replacement Therapy
- Growth Hormone
- Hepatitis C
- Hemophilia
- Hereditary Angioedema
- Infertility
- Multiple Sclerosis
- Oncology
- Osteoporosis
- PKU
- Psoriasis
- Psoriatic Arthritis
- Pulmonary Hypertension
- Rheumatoid Arthritis

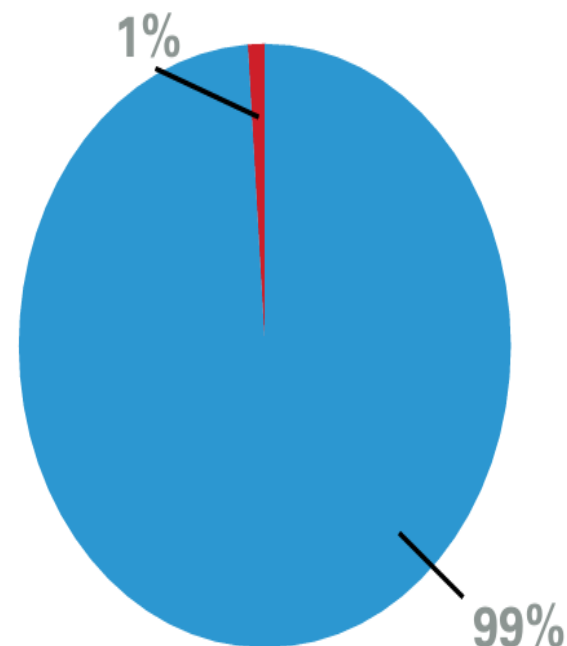
*In 1990, 10 specialty drugs were on the market.*

*In 2012, over 900 specialty drugs were in development.*

## Prescription Drug Spending in 2014



## Prescriptions Written in 2014



Source: The Express Scripts 2014 Drug Trend Report. March 2015. Available at: <http://lab.express-scripts.com/drug-trend-report/>

# 2014 Approximate MONTHLY Cost for Specialty Meds

Medication	Sample indication for medication use	Monthly cost for sample indication
Provenge (sipuleucel-T)	Metastatic prostate cancer	\$105,800
Sovaldi (sofosbuvir)	Hepatitis C	\$29,900
Olysio (simeprevir)	Hepatitis C	\$23,600
Rituxan (rituximab)	Non-Hodgkin's lymphoma	\$21,900
Gleevec (imatinib)	Chronic myeloid leukemia	\$11,900
Avastin (bevacizumab)	Metastatic colorectal cancer	\$11,600
Revlimid (lenalidomide)	Multiple myeloma	\$9,300
Neulasta (pegfilgrastim)	Neutropenia	\$5,700

Source: Adapted from Specialty Medications: Traditional And Novel Tools Can Address Rising Spending On These Costly Drugs, Exhibit 1. Health Affairs, 33, no. 10 (2014).

# TREND FORECAST FOR KEY SPECIALTY THERAPY CLASSES

2015 - 2017

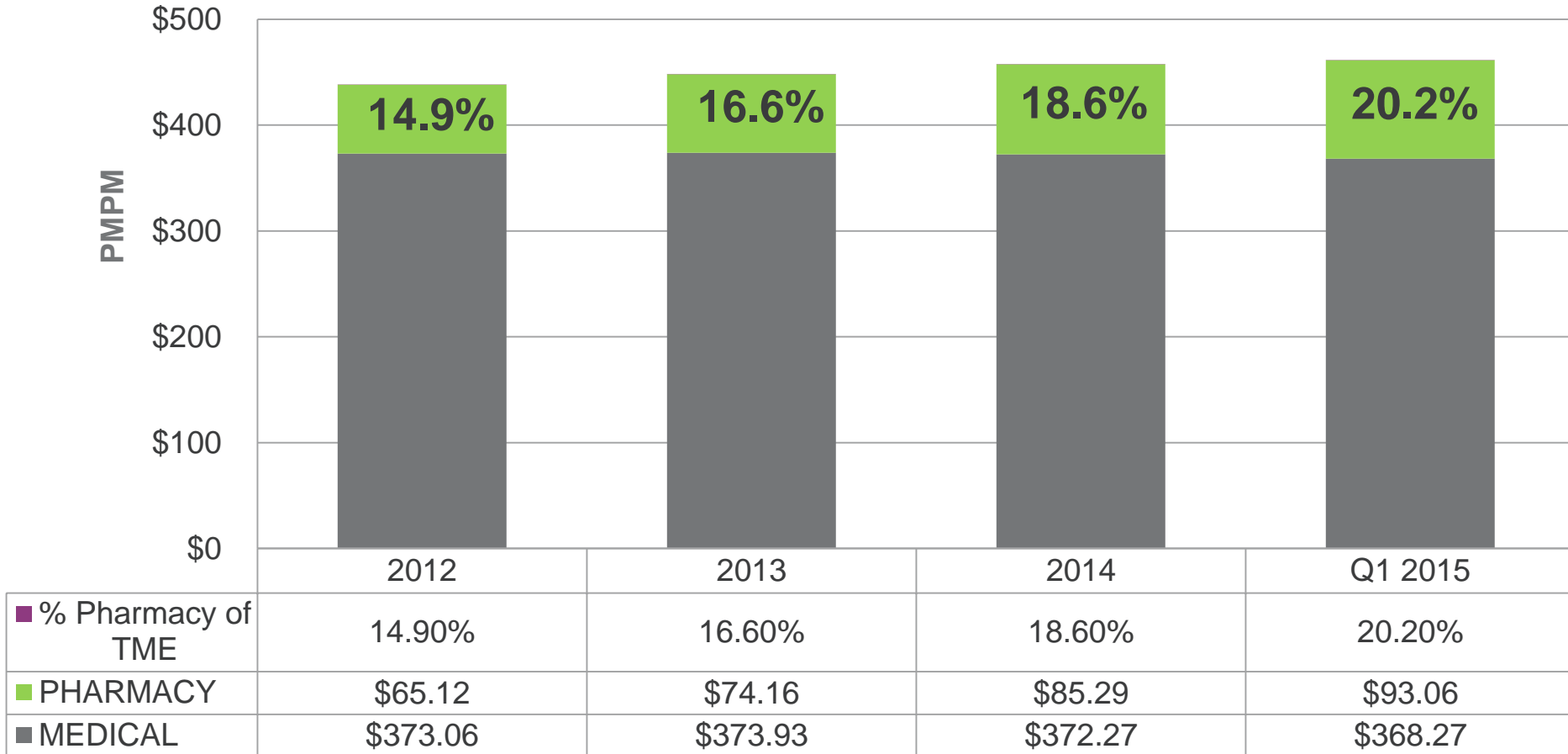
THERAPY CLASS	TREND FORECAST*		
	2015	2016	2017
Inflammatory Conditions	21.6%	21.6%	21.1%
Multiple Sclerosis	11.3%	6.5%	3.0%
Oncology	21.6%	20.4%	19.8%
Hepatitis C	66.5%	55.4%	44.3%
HIV	17.3%	16.6%	16.2%
Miscellaneous Specialty Conditions	31.1%	29.7%	28.2%
Growth Deficiency	12.5%	10.4%	10.5%
Hemophilia	3.9%	3.3%	3.4%
Pulmonary Arterial Hypertension	12.5%	12.0%	12.1%
Transplant	-5.8%	-1.3%	0.0%
Hereditary Angioedema	22.5%	24.2%	20.7%
Other Specialty Classes	6.7%	6.7%	6.4%
<b>TOTAL SPECIALTY</b>	<b>22.6%</b>	<b>22.3%</b>	<b>21.3%</b>

\*Trend is forecast only for specialty medications billed through the pharmacy benefit.

# LCPN Pharmacy Expenses

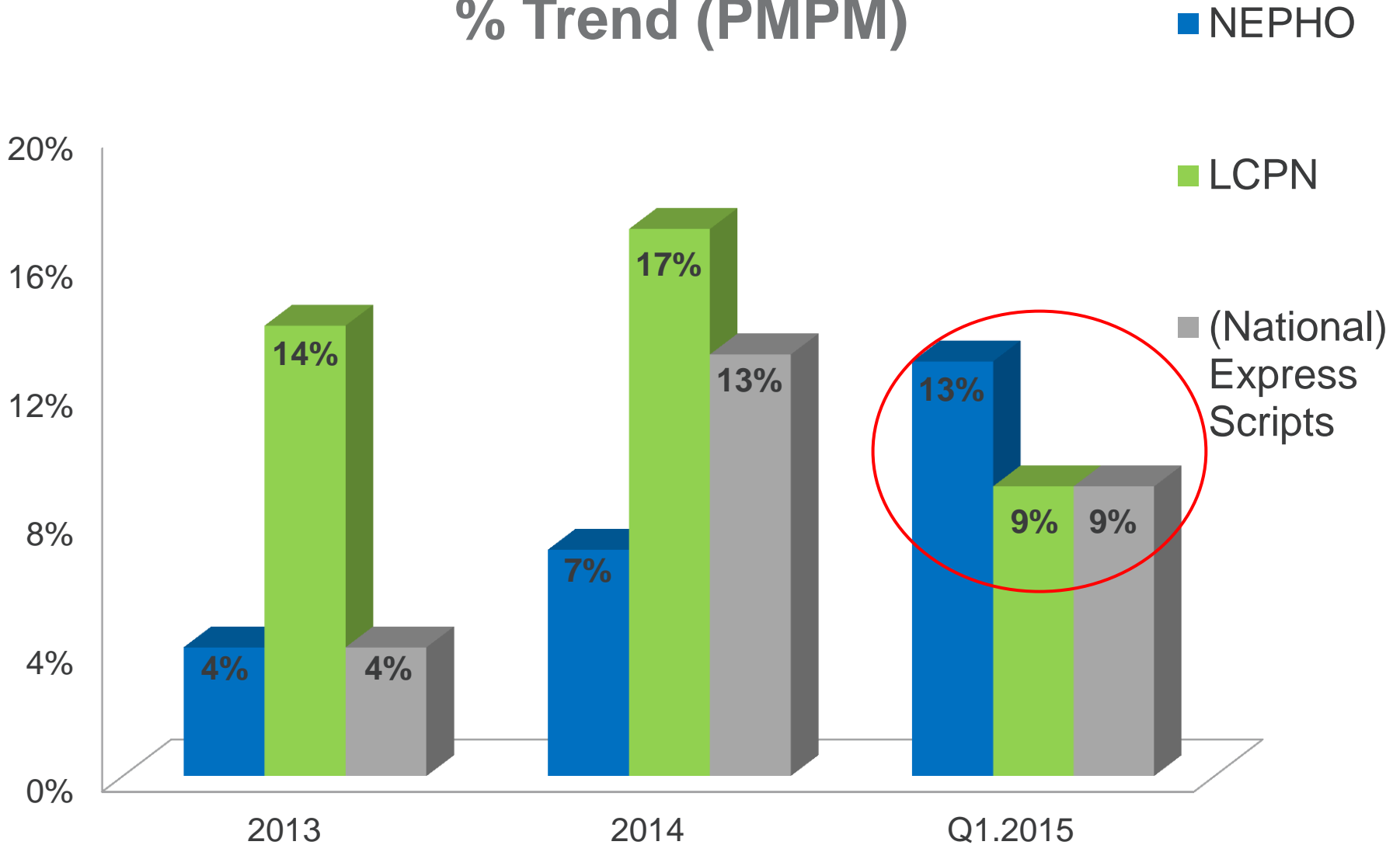
(NEPHO, LACU, WIN)

## % of Total Medical Expenses (TME)\*



\*TME (Pharmacy + Medical Expenses) BCBS, HPHC, Tufts Commercial Plans

# NEPHO / LCPN / National % Trend (PMPPM)



# Non-Adherence

Cause for concern: BOTH Traditional and Specialty Meds

30% – 40% of US adults are non-adherent to chronic meds

## Traditional Meds - Express Scripts 2014 Report

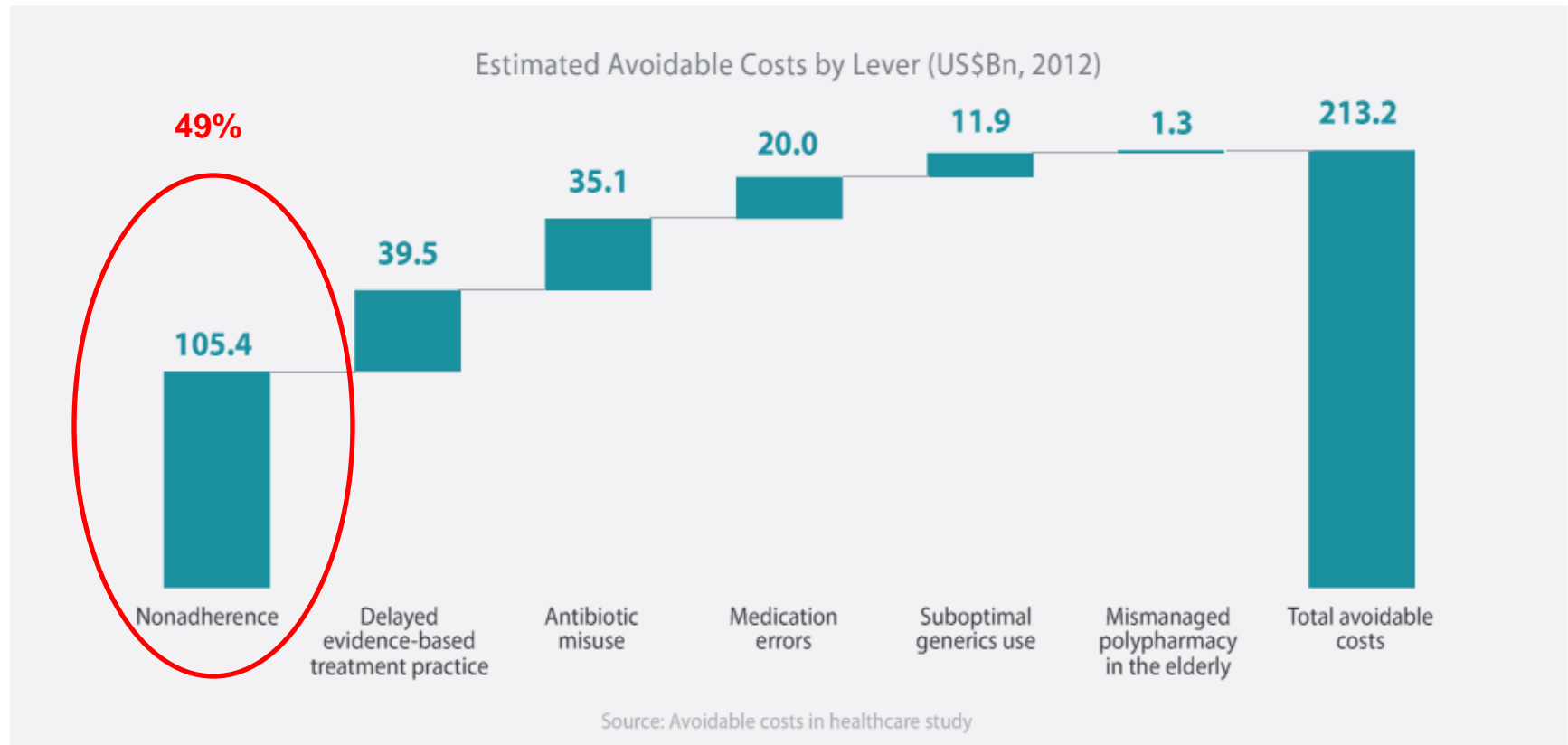
- 39% of pts on diabetes meds non-adherent
- 79 % of pts started on pregabalin (Lyrica) for neuropathic pain discontinued within 1 year (SE: dizziness, peripheral edema, etc.)
- 55% of adults and 78% of pediatric pts non-adherent to asthma medication

## Specialty Meds

- Consider cost of non-adherence @ \$1000 / tablet

# Other Pharmacy Cost Drivers: Non-Adherence

**Exhibit 1: Avoidable U.S. healthcare costs add up to \$213 billion**

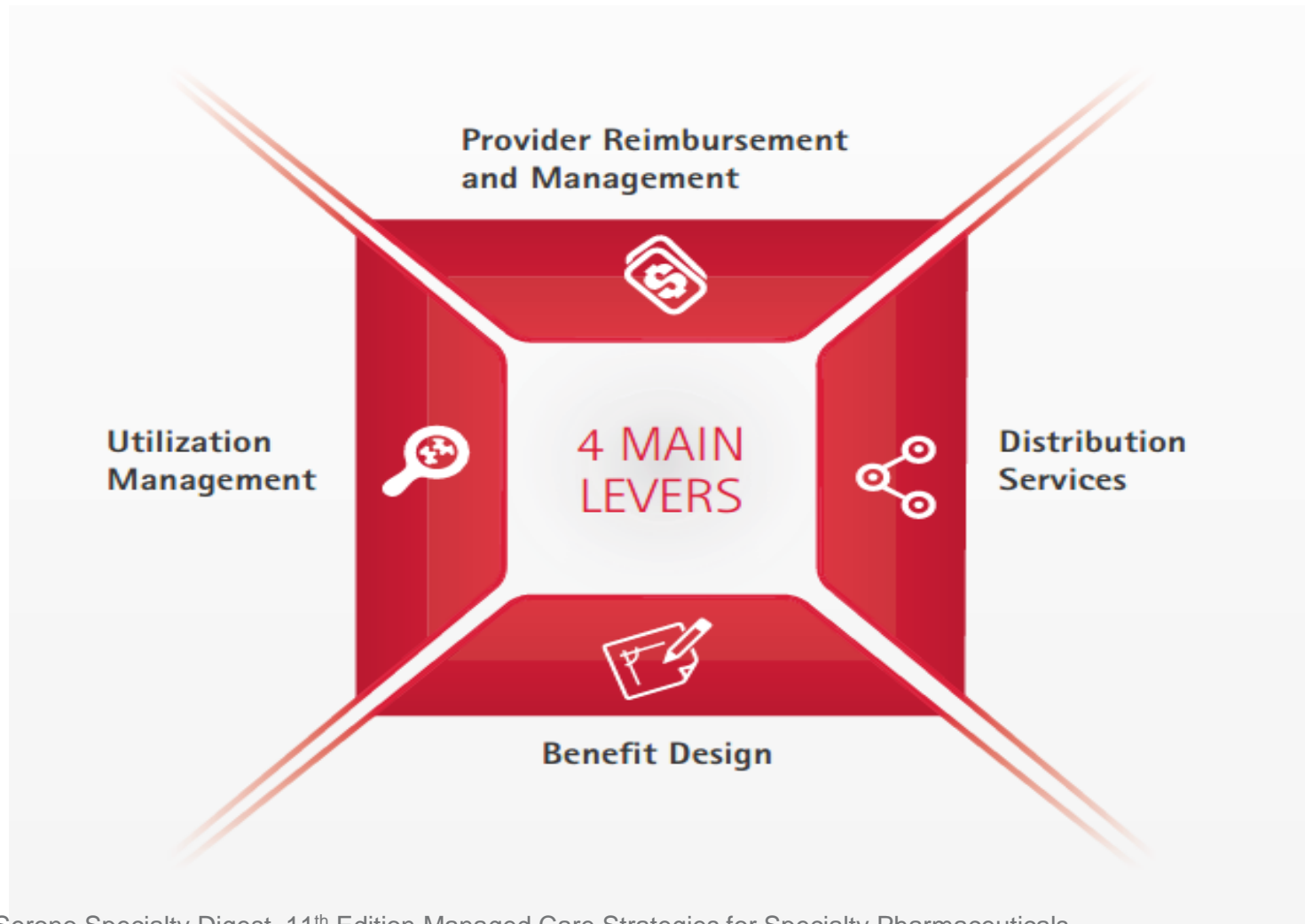


Avoidable Costs in US Healthcare: The \$200 Billion Opportunity from Using Medicines More Responsibly IMS Institute for Healthcare Informatics June 2013

# Strategies / Trends to Control Costs

- Health Plan Cost Control Strategies
- Therapy Class Management - Clinical Guidelines
- Biosimilar Medication Market
- Future Strategies for Management

# Specialty Medication Cost Control Strategies



EMD Serono Specialty Digest, 11<sup>th</sup> Edition Managed Care Strategies for Specialty Pharmaceuticals

# Benefit Design - Cost Control Lever

## Patient cost share strategies

- High-deductible (HDHP) plans
  - Medicare Part – D - \$350 (prescription only)
  - Commercial – Average \$2,500

## Incentive tiers / Formulary management

- Preferred and non-preferred
- Multi-tier cost share (e.g. Tier 1 – Tier 5 for some)
  - % cost of medication vs. fixed Tier cost
- Separate cost share structures for Specialty Meds

# Distribution Services - Cost Control Lever

- Specialty Pharmacy Providers (SPPs) – required for some meds
  - Acredo
  - Caremark
- Utilization and therapy management
  - Prior Authorization, J-code / NDC crosswalks
  - Appropriate doses
  - Manage adverse events / drug waste, abuse and misuse
  - Track medication discontinuation rates and reasons
  - Adherence management
- Seek financial assistance for patients

# Utilization Management - Cost Control Lever

- Preferred products and rebates by PBM (CVS Caremark, Express Scripts)  
Within each Therapeutic Class
- Partial fill – reduces waste  
Patients stop due to side effects, hospital admissions etc.  
Typically 2 week supply (oral meds)
- Required medication adherence programs – pharmacist managed
- Outcomes-based contracts between Pharma / Payers  
Proven benefit of medications before health plan covers med

# Provider Reimbursement & Management - Cost Control Lever

- Specialty drug reimbursement rates - limited by payers
  - Average Wholesale Price (AWP) – minus discount (0% - 26%)
  - Average Sales Price (ASP) - plus discount (6% - 20%)
    - Specialty pharmacies, Home Infusion Providers
    - Physician in-office providers
- Site of service strategy requirement - Botox, IVIG, RA, Crohns, Remicade), MS etc.
  - Physician Office
  - Hospital Outpatient Facilities
  - Ambulatory Infusion Centers
  - Patient's home – Infusion vendors
- Episode of care (EOC) Reimbursement vs. Traditional fee-for-service
  - Bundled payments for entire EOC
    - (e.g. BPCI Bundled Payment Care Improvement - ACO)
- Medical Claims Coding and Billing Changes
  - Movement to NDC drug code pre-payment approval - J-Codes not specific

# Therapy Class / Medication Management

Focus - 4 Specialty Therapy Classes: 60% - 70% of expenses

- Oncology
- Multiple Sclerosis
- Immune Modulators
- Hepatitis C

# Therapeutic Class Management Strategies

- Specialty Medications:

Less expensive alternatives are not available

Therapeutically beneficial – Hep C > 90% cure rates

- Focus on adherence to evidence-based guidelines / clinical pathways
- Companion diagnostics - treatment based on patients genetic composition
- Risk sharing based on improved patient adherence/ outcomes (i.e. SVR for Hep C pts)
- Increase use of palliative care where appropriate
- P & T Cost & Benefits Calculator Tools

Institute for Clinical and Economic Review (ICER) - non-profit

New England Comparative Effectiveness Public Advisory Council (CEPAC)

National Comprehensive Cancer Network (NCCN)

# Biosimilar Medications - Potential Game Savers

## Specialty Meds / Biologics / Biopharmaceuticals

- derived from live, biological sources (blood products, proteins, antibodies, etc.)
- mimic pathways within our bodies
- **Biosimilars** – What are they?
  - COPIES of complex therapeutic proteins (specialty meds / biologics /biopharmaceutical)
  - not developed by the original manufacturer
  - approved through slow and complicated regulatory process

# Biosimilars - continued

Specialty Meds	Traditional Meds
Biosimilars (large molecules)	Generics (small molecules)

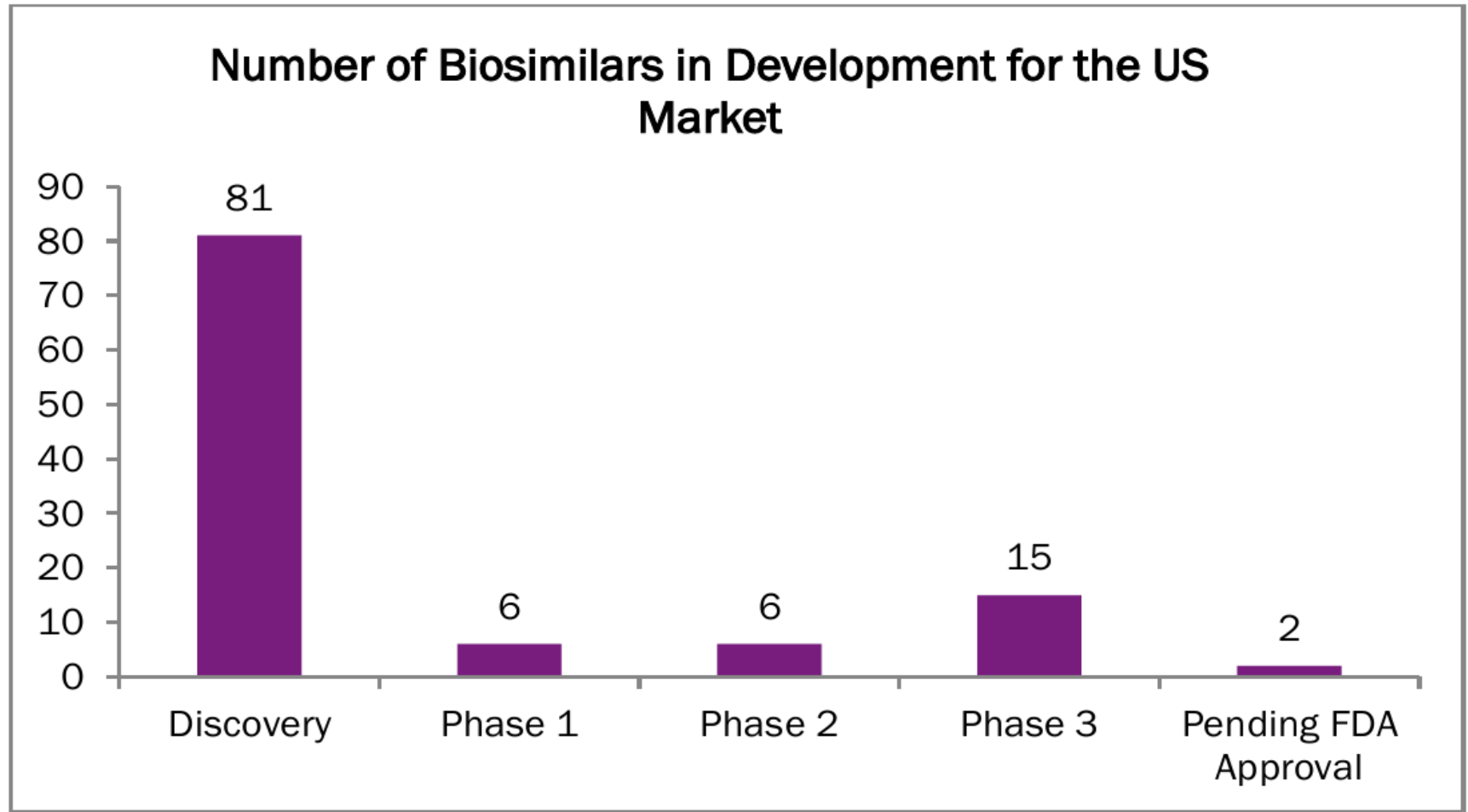
- must contain the identical active ingredient in the reference product
- not a generic equivalent
- cannot be generically substituted by pharmacist
- potency, purity and safety same as the reference product
- may differ from biologic by formulation / delivery system and have some minor differences in clinically inactive components

**First Biosimilar** - Neupogen (filgrastim) released as brand name **Zarxio**

filgrastim - sndz (Sandoz) – released 15% discount

# Biosimilar Market

## pipeline snapshot



Catamaran RxOutlook Volume 1 Issue 7 October 2014

# Biosimilars - Naming Game

- FDA requiring a 4 letter suffix to identify the manufacturer
- Neupogen
  - filgrastim-sndz - Sandoz
  - filgrastim-bflm - Novartis
  - filgrastim-jcwp – Amgen
  - filgrastim-vkzt - Teva
- Coming Soon:
  - Epogen (Amgen) - epoetin alfa-cgkn
  - Remicade (JNJ) infliximab-hjm

# Biosimilar Facts:

- Specific guidelines set by the FDA before submitting an application
- Biosimilar pathway 351(k) requires clinical studies
- Traditional generic pathway does not require clinical studies; only demonstration of bioequivalence.
- Cost of developing biosimilars is estimated between \$75 and \$250 million
- **What are the Potential Savings??**
  - Expected to have 15% -30% discount compared to biologic / biopharmaceutical
  - 2020 - Expected sales for biosimilars ~\$35 billion globally for biologics with patent expiration worth about \$81 billion.

# Biosimilar Laws

## National:

- Slow approval of new biosimilars (FDA approval - numerous federal / state regulatory & legal hurdles)
- Substitution process is confusing

## Massachusetts is ready for substitution:

- June 2014, House Bill 3734, “An Act Relative to the Substitution of Interchangeable Biosimilars”
- Substitution of “interchangeable” biological products with requirements:
  - Substitution of biosimilars - FDA determined “interchangeable”
  - Prescribers retain “dispense as written” authority
  - RPh must notify prescribing doctors of biosimilars substitutions
  - RPh must notify patients / retain records of biosimilar substitutions

# Future Strategies for Pharmacy Cost Management

- Continued implementation of site of service management
- 340b Shared Savings – shared with payers  
discounted drugs for facilities /programs for some federal programs
- Additional cost share tiers for biosimilars
- Medical policies / guidelines for tumor genome sequencing
- Joint contracting with molecular diagnostics / genetic testing vendors

# Questions / Comments

## *References:*

*EMD Serono Specialty Digest, 11<sup>th</sup> Edition Managed Care Strategies for Specialty Pharmaceuticals*

*Clinical and Formulary Decisions for Biosimilars, Stephen Lucio et al Hospital Pharm Volume 49: Supplement 1, 2014*

*Catamaran Rx Outlook Focus: Biosimilars Vol 1 Issue 7, October 2014*