

San Francisco Health Service System Health Service Board

Genomics and Pharmacy High-Cost Drugs

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Introduction



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Agenda

Past, Present and Future



- Drug Manufacturer Strategy
- Recent FDA Approvals



- Market Outlook
- Rare Disease



- Specialty Drug Expansion
- Solutions
- Legislative Efforts

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Drug Manufacturer Strategy and Recent FDA Approvals

Drugs to Market

Manufacturer Strategy



Novel Drug Approvals

- Novel drugs are innovative products that serve previously unmet medical needs or otherwise significantly help to advance patient care and public health.
- Going through the FDA approval process results in approval, Complete Response Letters, or Refuse to File Letters.
- As of July 2022, the FDA has issued a total of 6 Complete Response letters and Refuse to File letters.



Expanding Indications

- Manufacturers will implement life cycle management. Life cycle management is asking, “what more can this drug do?”
- Life cycle management expands a drug’s indication to different disease or therapeutic areas.
- Expanding indication requires additional FDA approval.



New Routes of Administration

- Can this drug be delivered more conveniently/efficiently to increase patient outcomes and minimize side effects?
- Examples include taking a medication that was administered in clinic via intravenous infusion to a self-administered subcutaneous injection.

FDA Novel Drug Approvals for 2022

Current as of July 2022

Approvals

16

FDA has approved
16 Novel Drugs as of
July 2022

Therapeutic
Area

7

The 16 drugs span
across 7 different
therapeutic areas

Rare Disease

7/16

7 of the 16 drugs
approved treat rare
or genetic diseases

Expenditure

\$1,000+

Average cost for one month,
climbing upwards of \$100,000 +
for a year of treatment

DRUG NAME	ACTIVE INGREDIENT	APPROVAL DATE	FDA-APPROVED USE ON APPROVAL DATE*
Amvuttra	Vutrisiran*	6/13/2022	To treat polyneuropathy of hereditary transthyretin-mediated amyloidosis
Vtama	Tapinarof	5/23/2022	To treat plaque psoriasis
Mounjaro	Tirzepatide	5/13/2022	To improve blood sugar control in diabetes, in addition to diet and exercise (Press Release)
Voquezna	Vonoprazan, amoxicillin, and clarithromycin	5/3/2022	To treat Helicobacter pylori infection
Camzyos	Mavacamten*	4/28/2022	To treat certain classes of obstructive hypertrophic cardiomyopathy
Vivjoa	Oteseconazole	4/26/2022	To reduce the incidence of recurrent vulvovaginal candidiasis (RVVC) in females with a history of RVVC who are not of reproductive potential
Pluvicto	Lutetium (177Lu) vipivotide tetraxetan	3/23/2022	To treat prostate-specific membrane antigen-positive metastatic castration-resistant prostate cancer following other therapies
Opdualag	Nivolumab and relatlimab-rmbw	3/18/2022	To treat unresectable or metastatic melanoma
Ztalmy	Ganaxalone*	3/18/2022	To treat seizures in cyclin-dependent kinase-like 5 deficiency disorder
Vonjo	Pacritinib*	2/28/2022	To treat intermediate or high-risk primary or secondary myelofibrosis in adults with low platelets
Pyrukynd	Mitapivat*	2/17/2022	To treat hemolytic anemia in pyruvate kinase deficiency
Enjaymo	Sutimlimab-jome*	2/4/2022	To decrease the need for red blood cell transfusion due to hemolysis in cold agglutinin disease
Vabysmo	Faricimab-svoa	1/28/2022	To treat neovascular (wet) aged-related macular degeneration and diabetic macular edema
Kimtrak	Tebentafusp-tebn*	1/25/2022	To treat unresectable or metastatic uveal melanoma
Cibinqo	Abrocitinib	1/14/2022	To treat refractory, moderate-to-severe atopic dermatitis
Quviviq	Daridorexant	1/7/2022	To treat insomnia

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Drug Approval Pipeline and Market Outlook

FDA Pipeline Agents 2022 – 2023

NDA/BLA Submissions Under Review



Cost Implications

- 26% of pipeline agents are used to treat rare diseases
- 49% have orphan drug designation

Future Filing Dates



- Orphan drugs are 25 times more costly than non-orphan drugs
- 88% of orphan drugs cost greater than \$10,000 per patient per year

Deeper Dive into Rare Disease

Emergence of Gene and Cell Therapies

- Gene therapy is introducing exogenous gene(s) into the body. This may be to supply a missing gene, bypass role of a missing gene, or augment therapy for a disease. These are costly treatments to cure rare and fatal diseases.
 - There are currently 23 approved gene and cell therapies.
 - There are approximately 7,000 rare diseases, affecting 25 to 30 million Americans (1 in 10 Americans).
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Cost Perspective

- Zolgensma, used to treat spinal muscular atrophy, costs \$2.12M for a one-time dose.
- Luxturna, used for inherited retinal diseases, costs \$850,000 for a one-time dose.
- Other very high-cost drugs launching in 2022 shown on next slide.
- Over 900 investigational drug applications waiting FDA approval.

Gene Therapies

Exponentially Growing

Drug	U.S. Prevalence	Launch	Cost
Zolgensma	1 in 10,000 live births	Available	\$2.12M
Luxturna	1,000 – 2,000 patients	Available	\$850K
Upstaza	1 in 90,000 live births	2022	\$3.0M
Skysona	1 in 21,000 male births	2022	\$2.5M
Roctavian	18,000 patients	2022	\$2.5M
AMT-061	6,000 patients	2022	\$2.5M
Zyntenglo	3,000 patients	2022	\$1.85M

Market Growth

- Gene therapy market size valued at \$4.99B in 2021
- Market size expected to grow to \$36.2B by 2027
- FDA expected to approve 10 to 20 products per year in gene and cell therapy market by 2025

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Growth of Specialty Medications and Payer Response

Expansion of Specialty Medications

Examining Data and Trend

- Specialty market in 2020 was \$254B. In 2025, the specialty market is expected to be \$373B.
- In 2010, specialty medications accounted for 26% of spend. Specialty medications now account for 53% of spend.
- 500 new drugs are estimated to seek FDA approval in the next 3 years.
 - 67% of those drugs are specialty medications.
- Within the next 3 years, the FDA is expected to approve up to 20 gene and cell therapies.
- Therapeutic areas that are driving the growth of specialty medications are autoimmune and oncology

Growth

\$373B

Specialty drug market is predicted to be by 2025

Expenditure

53%

Specialty spend with respect to total prescription spend

Specialty Medications

67%

Seeking FDA Approval in next 3 years

Gene and Cell Therapies

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FDA approved therapies by 2025

Solutions

Pharmacy Benefit Manager (PBM) and Payer Response

- **Value-Based Contracting** → Agreement made between PBM and drug manufacturer. If drug does not work for patient, manufacturer will reimburse PBM for cost of medication
- **Drug Management Services** → Tier adjustments and clinical concierge services for patients on orphan drugs or high-cost medications
- **Installment Payment Plan** → Mitigate immediate financial impact; paid over several years
- **Pooled PMPM Programs** → Programs that protect payers and employers from gene therapy associated high-cost claims

Biosimilars

“Generics” of Branded Biologics



- A copy of a biologic medicine, but not identical
- No clinically meaningful differences in terms of safety and effectiveness from reference product



- Comprehensive evaluation of analytic, animal, pharmacology and clinical studies
- May differ in clinically inactive components, indications and product forms



- Biosimilars have an “easier” pathway to approval when compared to branded biologics
- Projected to provide a 30% discount — reducing spend by \$100B over the next 5 years

Biosimilar
Future
Opportunity



\$49B

OPPORTUNITY

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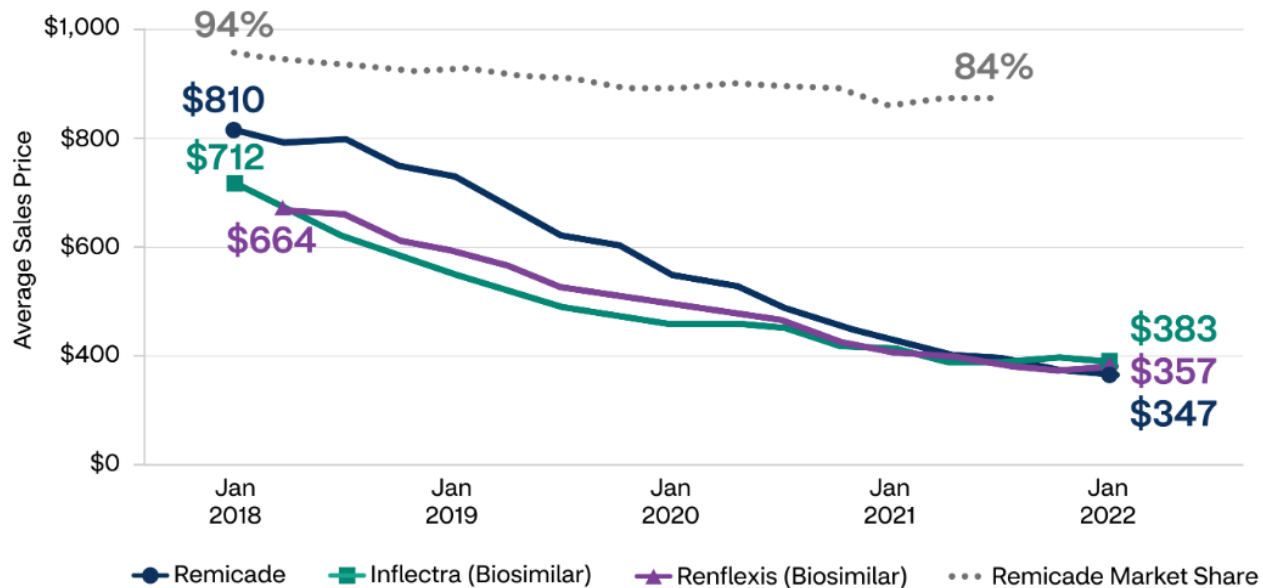
PATENT EXPIRATIONS
THROUGH 2020 – 2024

Biosimilars

Driving Cost Down

- Biosimilars increase drug marketplace competition, making costly medications more affordable.
- The introduction of Infliximab biosimilars demonstrate marketplace competition, cutting drug cost by over 50%.
- Almost all biosimilars have launched at a WAC of 3% to 24% below the reference product ASP.
- With more biosimilar approvals, we see increased biosimilar utilization. Therapeutic areas such as oncology have seen growth of 79% from 2016 to 2021.
- Currently, there are 36 approved biosimilars and 21 launched biosimilars

Infliximab Average Sales Price (ASP) Evolution from 2018-2022



Newsom's CalRx Biosimilar Insulin

Affordable Insulin

Contracting

- State will be working directly with CMO
- Partnering with CMO is more cost effective in comparison to state manufacturing insulin itself

Budget

- \$50M used to the development of biosimilar insulin products in vial and pen formulations
- \$50M used for in-state manufacturing facility

Manufacturing

- “At least one form of insulin”
- \$50M for development used towards an interchangeable biosimilar insulin product

Legislation

- Affordable Insulin Now Act
- Efforts to cap out-of-pocket costs at \$35 per month for Medicare and private insurance
- Must pass senate

Prescription Drug Provisions in the Senate Reconciliation Proposal

Efforts to Reduce Prescription Cost

Purpose	Implementation	Key Provisions
<ul style="list-style-type: none">• Reduce prescription drug cost for Medicare beneficiaries• Limit increases in drug prices for Medicare and private insurance	<ul style="list-style-type: none">• Aims to reduce federal deficit by \$288B over 10 years• Requires drug manufacturers to pay rebates if drug cost greater than inflation• Implementing cost saving measures: Out-of-pocket maximum, catastrophic coverage, expanding eligibility	<ul style="list-style-type: none">• Enables federal government to negotiate prices for high-cost medications for Medicare• Improved rebates for drugs impacted by inflation• Repeal Trump Administrations drug rebate rule

Pharmacy Benefit Manager (PBM) Transparency Act

PBM Reform

Purpose	Implementation	Key Provisions
<ul style="list-style-type: none">• Reduce prescription drug cost for Medicare beneficiaries• Limit increases in drug prices for Medicare and private insurance	<p>Spread Pricing</p> <ul style="list-style-type: none">• PBMs can no longer charge a health plan/payer a different amount than what they reimburse a pharmacy for (retaining the difference). <p>Claw back</p> <ul style="list-style-type: none">• PBMs can no longer reduce or rescind reimbursements paid to a pharmacy for a prescription.	<ul style="list-style-type: none">• PBMs would be required to annually report multiple indicators to the FTC• Spread pricing, fees, formulary changes, reimbursements, etc.• Violation of the act may result in \$1,000,000 penalty, including civil action• Must pass senate



Questions