



Identifying and Selecting Drugs for the Washington PDAB Affordability Review

March 20, 2024

Program On Regulation, Therapeutics, And Law (PORTAL)

Division of Pharmacoepidemiology and Pharmacoeconomics, Department of Medicine

Brigham and Women's Hospital and Harvard Medical School









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- PORTAL does not receive any funding from pharmaceutical or medical device companies.
- We receive funding from the following sources:
 - Arnold Ventures
 - Commonwealth Fund
 - Greenwall Foundation
 - Elevance Health Public Policy Institute
 - Kaiser Permanente Institute for Health Policy
 - National Academy for State Health Policy (NASHP)
 - Colorado Division of Insurance
 - Oregon Division of Financial Regulation
 - Washington State Health Care Authority





Outline

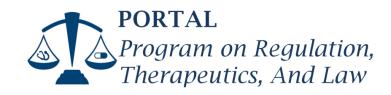
- 1. About PORTAL
- 2. PDAB Process Overview
- 3. Identifying Eligible Drugs
- 4. Selecting Drugs for Affordability Review
- 5. Lessons from Other PDABs





Section 1.

About PORTAL





About PORTAL

The **Program On Regulation, Therapeutics, And Law (PORTAL)** is an interdisciplinary research group based in the **Division of Pharmacoepidemiology & Pharmacoeconomics** at Brigham & Women's Hospital and Harvard Medical School.

We study the intersections between **evidence-based use, regulation,** and **affordability of prescription medications**, and publish on a variety of topics in these areas.





The PORTAL PDAB Team



Aaron Kesselheim, MD, JD, MPH Professor of Medicine; Director Professor of Medicine



Jerry Avorn, MD



Benjamin Rome, MD, MPH Instructor in Medicine



Leah Rand, DPhil **Research Specialist**



Catherine Hwang, MD, MSPH Clinical Research Fellow



Adam Raymakers, PhD Postdoctoral Fellow



Ian Liu, MD, JD, MS, MPH Postdoctoral Fellow



Matt Martin, MA **Project Coordinator**



Helen Mooney, MPH Research Assistant



Liam Bendicksen, BA Research Assistant





PORTAL Involvement with PDABs

Colorado PDAB

- Support methodology development for the first affordability reviews, including identifying therapeutic alternatives.
- Participated in educational series for Board members
- Provide guidance as Colorado begins upper payment limit deliberations.

Oregon PDAB

- Provide technical guidance for individual affordability reviews, including strategies for presenting data.
- Support staff in preparing annual reports required under statute.
- Deliver presentations to educate board members about specific drug classes (e.g., insulins)

National Academy for State Health Policy

- Prepare white papers and memos on PDAB processes and the prescription drug supply chain.
- Provide technical assistance relevant to the cohort of state PDABs.
- Work with NASHP on PDAB implementation and legislative developments.





Section 2.

PDAB Process Overview





Washington PDAB – Process Overview

Identify eligible drugs

Select drugs for affordability review

Conduct affordability review

Establish upper payment limit

"By June 30, 2023, and annually thereafter...the board must identify prescription drugs" that meet certain statutory criteria.

RCW 70.405.030

"The board may choose to conduct an affordability review of up to 24 prescription drugs per year identified pursuant to RCW 70.405.030."

RCW 70.405.40

"For prescription drugs chosen for an affordability review, the board must determine whether the prescription drug has led or will lead to excess costs to patients."

RCW 70.405.40

"Each year, the board may set an upper payment limit for up to 12 prescription drugs" that were found to have led or will lead to excess costs.

RCW 70.405.50

The Board is tasked with considering various criteria and data elements at each step in this process.





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What are "Excess Costs"?

According to the statute (RCW 70.405.010), "Excess costs" include costs that:

"...exceed the therapeutic benefit relative to other alternative treatments"

- Can compare prices directly (reference pricing) or use cost effectiveness analyses.
- For drugs with multiple indications, may need to assess separately for each indication.

"...are not sustainable to public and private health care systems over a 10-year time frame."

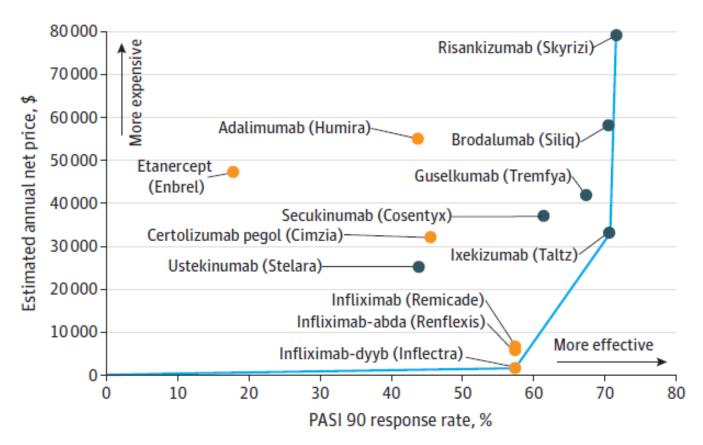
- Typically measured using budget impact analysis.
- Depends on the price of the drug and the size of the population being treated.

RCW 70.405.010

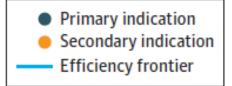




Figure 1. Efficiency Frontier for Psoriasis Biologics in the US



Example: Efficiency
Frontier Comparing
the Prices and
Effectiveness of
Psoriasis Biologics



Egilman et al. JAMA Dermatology. 2024.





Excess Costs to Which Patients?

Patients Using the Specific Drug?

- Out-of-pocket costs are borne by patients using the drug.
- High out-of-pocket costs are associated with lower medication adherence and poor clinical outcomes.
- Depends on drug price and insurance plan design (copayments, coinsurance, deductibles).

All Patients in the State?

- Spending on prescription drugs is ultimately borne by **all patients**:
 - Health care premiums
 - Lower wages due to premiums paid by employers
 - Taxes for public insurance (statesponsored, Medicaid, Medicare)

What if drug manufacturers offset out-of-pocket spending using patient assistance programs and coupons?





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Section 3.

Identifying Eligible Drugs





Eligibility Criteria

Each year, the Board must identify prescription drugs that:

- have been on the market for at least 7 years,
- are dispensed at a retail, specialty, or mail-order pharmacy,
- are not designated by the FDA as a drug solely for the treatment of a rare disease or condition, and
- meet one of the following thresholds:

Branded Drugs & Biologics

- **High Price:** WAC \$60k+ per year or course of treatment; OR
- Price increase ≥15% in any 12month period or ≥50% over three years

Generics

- WAC of \$100+ for a 30-day supply; AND
- Price increase of ≥ 200% in the preceding 12 months

Biosimilars

 Initial WAC not at least 15% lower than the reference biologic WAC at the time of biosimilar launch

RCW 70.405.030; WAC 182-52-0035





Drugs that Treat Rare Diseases

[T]he board must identify prescription drugs that...are not designated by the United States Food and Drug Administration under 21 U.S.C. Sec. 360bb as a drug solely for the treatment of a rare disease or condition.

- Under the Orphan Drug Act, drug manufacturers can obtain "orphan" designations for drugs that target "rare diseases or conditions," defined as one that affects <200,000 people in the US.
- Orphan designations come with certain incentives, including tax credits, fee exemptions, and a guaranteed 7 years of market exclusivity.
- From 2008-2018, 41% of newly approved drugs had at least one orphan-designated indication.





Orphan Designations are for Indications, Not Drugs

Drugs can fall into five general categories based on the orphan status of their approved indications:

Sole Orphan Drugs

Drugs with one indication, and that indication is a rare disease

Example: Trikafta for cystic fibrosis

Multi-Orphan Drugs

Drugs with multiple indications, <u>all</u> of which are rare diseases

Example: Pomalyst for multiple myeloma and Kaposi sarcoma (both rare)

Orphan First Drugs

Drugs with **both rare and non-rare** indications, the **first of which** <u>is</u> a rare disease Example: Keytruda first for unresectable/metastatic melanoma (rare), later for several non-rare cancers

Non-Orphan First Drugs

Drugs with **both rare and non-rare** indications, the **first of which** <u>is not</u> a rare disease <u>Example:</u> Enbrel first for rheumatoid arthritis (non-rare), later for juvenile idiopathic arthritis (rare)

Non-Orphan Drugs

Drugs with one or more indications, <u>none</u> of which are rare diseases

Example: Farxiga for diabetes, heart failure, and chronic kidney disease (all non-rare)

Vogel et al. JAMA Internal Medicine. 2023.

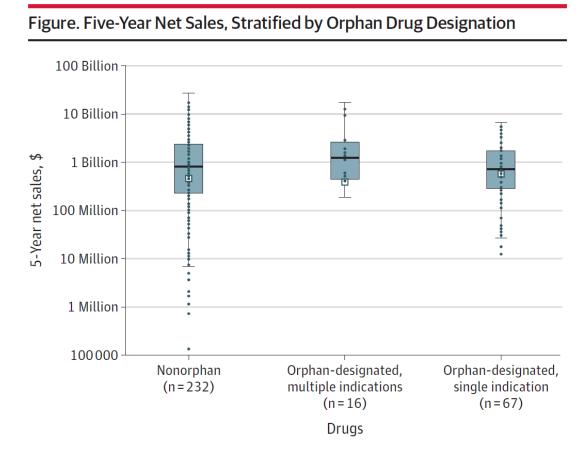




Drugs for Rare Diseases Can Be Profitable

Median sales in first 5 years were similar for orphan-designated (\$719 million) and non-orphan (\$812 million) drugs.

Orphan-designated drugs have launch **prices 7 times higher** than non-orphan drugs.



<u>Tu SS et al</u>. *JAMA*. 2023.





Eligibility: Branded Drugs & Biologics

High Price: WAC \$60k+ per year or course of treatment; OR

Price increase ≥15% in any 12-month period or ≥50% over three years

Brand-name drugs and biologics are likely to represent most drugs eligible for affordability review.

Branded drugs account for ~10% of prescriptions in the US but ~90% of spending.

In general, US list prices of brand-name drugs are **4x higher than those in comparable high-income countries.** (3x higher when accounting for rebates/discounts)





Eligibility: Branded Drugs & Biologics

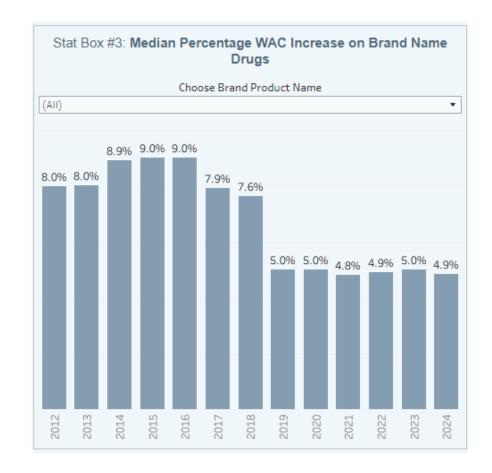
In 2021, the median list price (WAC) for newly marketed drugs was \$180k per year.

From 2008-2021, launch prices increased by 20%/year

Annual increases in drug list prices have slowed in recent years.

Median increase of ~5%/year from 2019-2024

However, the gap between list and net price continues to widen. This has implications for patient OOP costs, which are derived from drug list prices, not the postrebate net price.





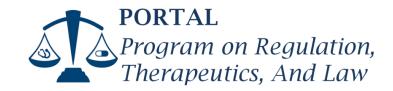


Eligibility: Generic Drugs

WAC of \$100+ for a 30day supply with a price increase of ≥ 200% in the preceding 12 months Most generic drugs cost <\$100 per 30-day supply, and price increases >200% are uncommon (<5%).

Generic price spikes are more common among sterile injectables and drugs with 3 or fewer manufacturers.

Generic drugs in **shortage** are twice as likely to experience price increases.





Eligibility: Biosimilars

Initial WAC not at least 15% lower than the reference biologic WAC at the time of biosimilar launch The biosimilar market is just emerging. As of January 2024, 38 biosimilars were approved and marketed in the US for 10 reference biologics.

• 4 additional biologics have FDA approved biosimilars that are not yet marketed.

Concerns about biosimilar pricing strategy. In the case of Humira, some biosimilar makers set prices 5% less than the reference drug, offering rebates to compete for formulary position.





Example: Eligible Drugs in Colorado

| Colorado Eligibility Criteria | No. of Eligible Drugs in 2023 |
|--|-------------------------------|
| Branded drugs or biologics with WAC ≥\$30k per year or course of treatment* | 582 |
| Branded drugs or biologics with a WAC increase of ≥10% in the preceding 12 months* | 9 |
| Generic drugs with a WAC of ≥\$100 and with a WAC increase of 200%+ in the preceding 12 months | 0 |
| Biosimilars with an initial WAC not at least 15% lower than the reference biologic | 13 |

^{*}Colorado thresholds for brand-name prices and price increases are different from Washington





Section 4.

Selecting Drugs for Affordability Review





Selection Criteria

RCW 70.405.40 - When deciding whether to conduct a review, the Board shall consider:

Class of the prescription
drug and whether any
therapeutically
equivalent prescription
drugs are available for sale

Input from relevant advisory groups established pursuant to RCW 70.405.020

The average **patient's out- of-pocket cost** for the
drug

RCW <u>70.405.040</u>





Selection Criteria

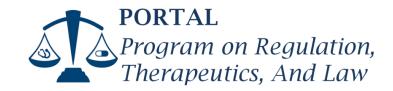
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drug

RCW 70.405.040





Drug Class

A drug's class can be assessed from two distinct perspectives, though the terms are often used interchangeably.

Pharmacologic Class

- Drugs that share similar scientific properties, including chemical structure, mechanism of action, and/or physiologic effect on the body
- <u>Example</u>: tumor necrosis factor (TNF) inhibitors, janus kinase (JAK) inhibitors

Therapeutic Class

- Drugs intended to treat similar diseases/conditions or that share clinical indications. Drugs can fall into multiple therapeutic classes if they have multiple indications.
- <u>Example</u>: antihypertensives, diseasemodifying antirheumatic drugs (DMARDs)



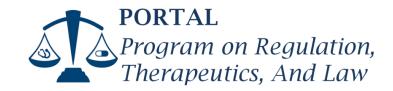


Drug Classification Systems

Several organizations categorize drugs into classes:

- American Society of Health-System Pharmacists (ASHP) AHFS Pharmacologic-Therapeutic Classification
- World Health Organization Anatomical Therapeutic Chemical (WHO-ATC)
 Classification
- US Pharmacopeia Drug Classification (USP DC)
- Private drug databases (MediSpan, First Databank, Red Book)

Nomenclature varies between these schemes, so it is important to be consistent in the system used to identify drug class for the purposes of selection.





Therapeutic Equivalents

Therapeutic equivalents are defined under PDAB rule as "drug product[s] of the **identical base or salt as the specific drug product prescribed** with essentially the same efficacy and toxicity when administered to an individual in the same dosage regimen."

| Therapeutic Equivalent Pairs | | Identified via | |
|------------------------------|--------------|-----------------------------|--|
| Branded Small Molecule Drug | Generics | FDA Orange Book ("TE" code) | |
| Branded Biologic | Biosimilars* | FDA Purple Book | |

^{*}Biosimilars are not identical/equivalent to their reference biologic, but have been demonstrated to be highly similar with no clinically meaningful difference in safety or efficacy

FDA may grant therapeutic equivalence ratings for generics before they are marketed. Need to confirm marketing dates (e.g., from use in the state), in addition to FDA approval.





Out-of-Pocket (OOP) Costs

OOP costs typically include the **deductibles**, **coinsurance**, **and copayments** patients pay at the point of sale (e.g., pharmacy).

OOP Costs depend on drug cost and benefit design. Because of deductibles and out-of-pocket maximums, these costs may vary throughout a calendar year.

Potential Data Sources

- Claims data (e.g., Washington State All Payer Claims Database)*
- Pharmacy data (e.g., IQVIA, Symphony Health)

*Data from payers typically does not include information about coupons, manufacturer assistance programs, and other forms of patient financial assistance.





Section 5.

Lessons from Other PDABs





Drug Selection Among Other PDABs

As of March 20, 2024, **Colorado and Oregon have selected drugs** for affordability review. Maryland has announced its initial list of drugs for Board consideration and intends to select drugs in the coming months.

Given that the Colorado and Maryland PDABs are structurally similar to Washington, we will focus on these two states' selection strategies.

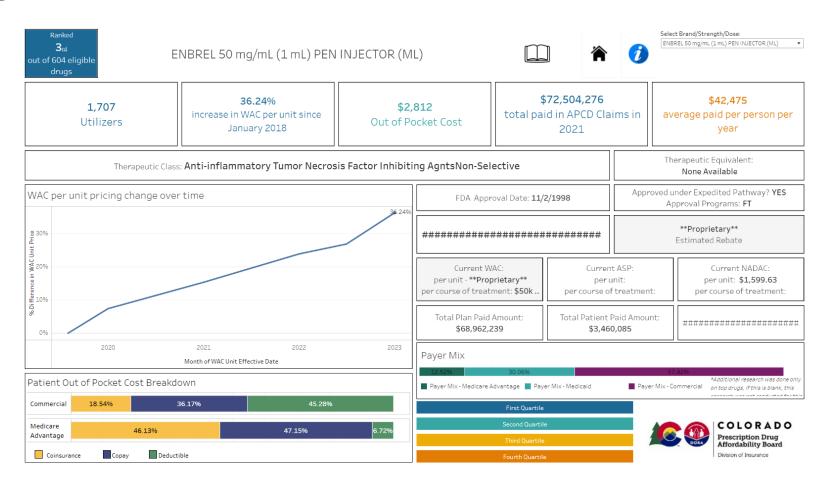




Drug Selection in Colorado

The Colorado PDAB considers patient out-of-pocket costs, therapeutic class, and aggregated data on drug spending & utilization to select drugs.

Data was presented to the Board in the form of a public dashboard, with individual profiles on each drug at the NDC level.



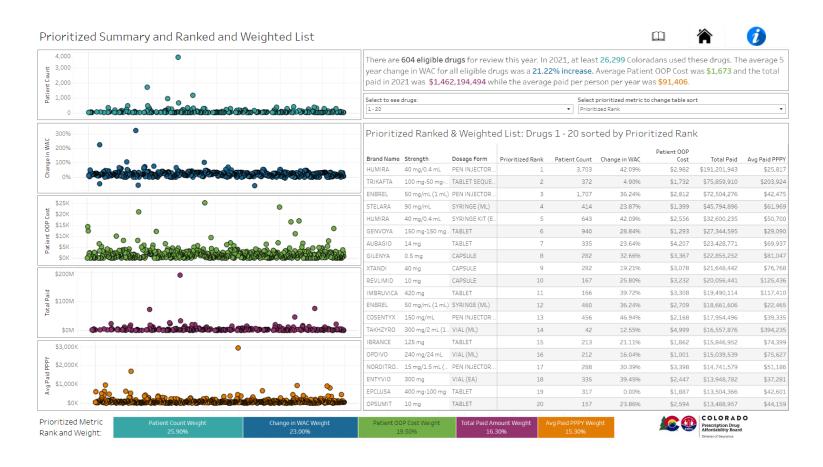




Drug Selection in Colorado

The Colorado PDAB weighted selection criteria through a guided prioritization exercise, resulting in a prioritized drug list that reflected the Board's priorities.

This prioritized list was used as the foundation of the Board's selection.







Aggregating Drugs Before Selection

For drugs with **multiple strengths and dosage forms**, data may be disaggregated. This can affect how drugs are ranked by total spending, utilization, and other factors.

Example: Colorado PDAB ranking of Gilenya (1 form) vs. Skyrizi (3 forms)

| Drug-Strength-Dosage Form | Prioritized Rank | Patient Count | Rank by Utilization | Total Paid in Claims, 2021 | |
|------------------------------------|---------------------|------------------|------------------------|----------------------------|----|
| Gilenya 0.5 mg Capsule | 8 | 282 | 16 | \$22,855,252 | 8 |
| Skyrizi 150 mg/1.66 mL Syringe Kit | 31 | 261 | 19 | \$11,339,685 | 30 |
| Skyrizi 150 mg/mL Pen Injector | 67 | 150 | 33 | \$5,200,282 | 63 |
| Skyrizi 150 mg/mL Syringe | 68 | 153 | 31 | \$5,158,946 | 66 |
| Skyrizi (if aggregated) | | ~564 | ~5 | \$21,698,913 | 9 |





Drug Selection in Maryland

The Maryland PDAB uses an **internal dashboard** with data on **each eligible drug's FDA approval and therapeutic class**; **spending and price**; **out-of-pocket costs**; and other factors.

This dashboard was used to create a preliminary list of drugs for Board discussion. Board members can also nominate drugs for consideration. Drugs will then be referred for **stakeholder council and public input**.

Following this comment period, the Board will weigh selection data and stakeholder comments to select the **final list of drugs to review**.

Attachment A:

March 25, 2024 Preliminary Identification of Potential Drugs for Referral to the

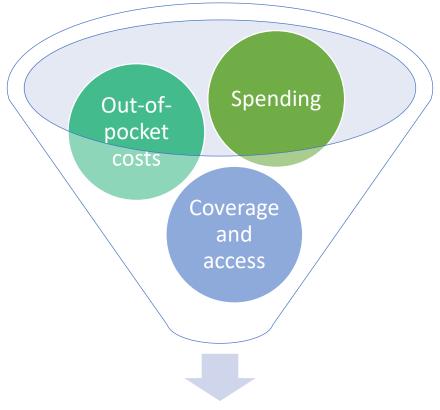
Stakeholder Council

| Drug | Drug Name | Dose Strength | Dose Strength Unit of Measure |
|-----------|-------------------------------|------------------|-------------------------------------|
| BIKTARVY | Biktarvy | 50-200-25 | MG |
| DUPIXENT | Dupixent | 300 | MG/2ML |
| | Dupixent | 200 | MG/1.14ML |
| FARXIGA | Farxiga | 10 | MG |
| | Farxiga | 5 | MG |
| JARDIANCE | Jardiance | 25 | MG |
| | Jardiance | 10 | MG |
| OZEMPIC | Ozempic (0.25 or 0.5 MG/DOSE) | 2 | MG/1.5ML |
| | Ozempic (1 MG/DOSE) | 2 | MG/1.5ML |
| | Ozempic (1 MG/DOSE) | 4 | MG/3ML |
| | Ozempic (2 MG/DOSE) | 8 | MG/3ML |
| SKYRIZI | Skyrizi | 150 | MG/ML |
| | Skyrizi (150 MG Dose) | 75 | MG/0.83ML |
| | Skyrizi Pen | 150 | MG/ML |
| TRULICITY | Trulicity | 0.75 | MG/0.5ML |
| | Trulicity | 1.5 | MG/0.5ML |
| | Trulicity | 3 | MG/0.5ML |
| | Trulicity | 4.5 | MG/0.5ML |
| VYVANSE | Vyvanse | 70 | MG |
| | Vyvanse | 60 | MG |
| | Vyvanse | 50 | MG |
| | Vyvanse | 40 | MG |
| | Vyvanse | 30 | MG |
| | Vyvanse | 20 | MG |





The Central PDAB Challenge



Does the drug create excess costs to patients?





Questions?