# Jardiance Cost Review Study

## **PDAB Meeting**

July 28, 2025

PDAB Staff



### **History and Input on the Dossier**

- Draft Dossier for Public Comment
  - Posted for Comment: June 18, 2025
  - Comments Due: July 3, 2025
- Final Dossier for Consideration
  - Posted: July 18, 2025

### **Jardiance Dossier Comments**

- PDAB staff received a total of 6 comments on the Jardiance dossier for the comment period ending on July 3, 2025. Four comments were provided by organizations, one comment was provided by a pharmaceutical company, and one comment was provided by a patient.
- Feedback Themes Included:
  - Technical Changes
  - Process and Deadlines
  - Upper Payment Limit Concerns
  - Support for Upper Payment Limits
  - Affordability and Access Concerns
  - Metrics, Data Evaluation and Methodology Concerns
  - Therapeutic Alternative Interchangeability



### **Incorporated Changes**

- PDAB staff posted a Final Dossier on July 18, 2025 that incorporated changes from the June 18th version. These changes included:
  - General Formatting and Copy Editing
  - Updated government website links
  - Added clinical information for CV comorbidity in diabetes

### **Dossier Overview**

- Section 1: Background
- Section 2: Clinical Information
- Section 3: Regulatory Approval and Market Context
- Section 4: Utilization of Drug Product Under Review
- Section 5: Pricing Information and Rebates
- Section 6: Therapeutic Alternatives, Cost Comparisons, and Health Economics Outcomes and Research (HEOR)
- Section 7: Cost-Sharing and Insurance Benefit Design
- Section 8: Other Information

### **Dossier Overview**

### Table of Exhibits

Exhibit 1\_REDACTED Pricing History\_REDACTED (PDF)

Exhibit 2 RFI Submissions (NON-PUBLIC--TRADE SECRET,

CONFIDENTIAL, AND PROPRIETARY)

Exhibit 3\_REDACTED JARDIANCE Therapeutic Alternative

Pricing\_REDACTED (Excel Document)

Exhibit 4 Jardiance Therapeutic Alternative Medical Claims Data

Base (MCDB) Statistics (Excel Document)

Exhibit 5

Exhibit 5A Jardiance Summary of Cost Effectiveness

Analyses

Exhibit 5B Jardiance Summary of Comparative

Effectiveness Research

Exhibit 6

Exhibit 6A Written Comments (60-day COMAR 14.01.04.05C(2)) (PDF)

Exhibit 6B Written Comments (Request October 28, 2024) (PDF)
Exhibit 6C Written Comments (Request January 27, 2025) (PDF)
Exhibit 6D Written Comments (Request June 18, 2025) (PDF)

## **Section 1: Background**

## **Section 1: Background**

Table 1 NDC List

National Drug Code	Proprietary Name	Non-Proprietary Name	Dosage-Strength
00597-0152-07	Jardiance	Empagliflozin	10 MG
00597-0152-30	Jardiance	Empagliflozin	10 MG
00597-0152-37	Jardiance	Empagliflozin	10 MG
00597-0152-90	Jardiance	Empagliflozin	10 MG
50090-4492-00	Jardiance	Empagliflozin	10 MG
50090-4492-01	Jardiance	Empagliflozin	10 MG
00597-0152-70	Jardiance	Empagliflozin	10 MG
70518-1986-00	Jardiance	Empagliflozin	10 MG
50090-6452-00	Jardiance	Empagliflozin	10 MG
55154-0411-08	Jardiance	Empagliflozin	10 MG
00597-0153-07	Jardiance	Empagliflozin	25 MG
00597-0153-30	Jardiance	Empagliflozin	25 MG
00597-0153-37	Jardiance	Empagliflozin	25 MG
00597-0153-90	Jardiance	Empagliflozin	25 MG
50090-4384-00	Jardiance	Empagliflozin	25 MG
50090-4384-01	Jardiance	Empagliflozin	25 MG
71610-0177-09	Jardiance	Empagliflozin	25 MG
71610-0177-15	Jardiance	Empagliflozin	25 MG
71610-0177-30	Jardiance	Empagliflozin	25 MG
71610-0177-42	Jardiance	Empagliflozin	25 MG
71610-0177-45	Jardiance	Empagliflozin	25 MG
00597-0153-70	Jardiance	Empagliflozin	25 MG
70518-2447-00	Jardiance	Empagliflozin	25 MG
50090-6457-00	Jardiance	Empagliflozin	25 MG
55154-0412-08	Jardiance	Empagliflozin	25 MG



### **Section 2: Clinical Information**

### Factor 2.1: Clinical information- FDA indications

Table 2. Jardiance (empagliflozin): FDA approved indications and associated dosing regimen(s) $^3$ 

Indication	Dosing Regimen(s)
As an adjunct to diet and exercise to improve glycemic control in adults and pediatric patients aged 10 years and older with type 2 diabetes mellitus.	10mg (1 tablet) by mouth once daily in the morning with or without food 25mg (1 tablet) by mouth once daily in the morning with or without food, if further glycemic control is needed Not recommended for eGFR < 30 mL/min/1.73 m2
To reduce the risk of cardiovascular death in adults with type 2 diabetes mellitus and established cardiovascular disease.	10mg (1 tablet) by mouth once daily in the morning with or without food No renal adjustment needed for reduced renal function
To reduce the risk of cardiovascular death and hospitalization for heart failure in adults with heart failure.	10mg (1 tablet) by mouth once daily in the morning with or without food No renal adjustment needed for reduced renal function
To reduce the risk of sustained decline in eGFR, end-stage kidney disease, cardiovascular death, and hospitalization in adults with chronic kidney disease at risk of progression	10mg (1 tablet) by mouth once daily in the morning with or without food No renal adjustment needed for reduced renal function

# Factor 2.1: Clinical information- Information concerning standard medical practice

### Place in Therapy for Diabetes Mellitus Type 2

• SGLT2 inhibitors are a preferred drug class in the treatment of Type 2 DM. SGLT2 inhibitors are typically considered as a first therapy option for Type 2 DM first line therapy given the overall safety (low risk of hypoglycemia), effectiveness in lowering blood sugar, and CKD, CVD, HF benefits/protection. GLP1-agonists have demonstrated similar outcomes, and are an alternative first-like therapy. Metformin, a biguanide, is also considered first line therapy with effectiveness in lowering blood sugar, low hypoglycemia risk, and potential CVD benefit; but has not demonstrated benefit in HF or progression of CKD. Jardiance, Farxiga and Invokana (canagliflozin) are the preferred choices in this class for medical professionals given their proven benefits for HF, CVD, and CKD.

### Place in Therapy for Heart Failure

• SGLT2 inhibitors, specifically Jardiance, Farxiga, or Inpefa (sotagliflozin), are recommended to be taken by all symptomatic HF patients.

### Place in Therapy for Chronic Kidney Disease

• To lower the risk of CKD progression and acute kidney injury and improve cardiovascular outcomes, SGLT2i inhibitors (equal weight preference to Jardiance, Farxiga and canagliflozin) are recommended by major guidelines for adult CKD patients with DM Type 2, HF and/or albuminuria ≥200mg/g and suggested for adult CKD patients with an eGFR of 20 to 45 ml/min/1.73m2.

All Pricing, Spending and Utilization Data is Consistent with the labeling approved by the FDA or standard medical practice.

# Factor 2.2: The disease burden of the condition that is treated by the prescription drug product- Type 2 Diabetes Mellitus (DM)

#### **Prevalence**

- In the United States (US), 38.4 million (11.6%) people have diagnosed or undiagnosed diabetes mellitus (DM).1,2 Type 2 DM accounts for 90-95% of all diagnosed cases of diabetes
- In Maryland, the total age-adjusted percentage of adults aged 18 years or older with diagnosed diabetes was 10.5% in 2022.

#### Incidence

- In 2021, 1.2 million adults were diagnosed with diabetes (rate of 5.9 per 1000 people).1,2 Worth noting, 98 million adults, more than 1 in 3 people, have prediabetes (38% of adult US population). In individuals 65 years or older, 48.8% have prediabetes.
- In Maryland, the age-adjusted rate of adults aged 18 years or older with newly diagnosed diabetes was 7.8 per 1000 in 2022.

#### **Disease Severity**

• Diabetes is classified into categories, including Type 1 (immune destruction of insulin producing pancreatic cells), Type 2 (non-immune progressive loss of insulin secretion, frequently with an inability of the body to use available insulin), gestational (diagnosed in 2nd or 3rd trimester of pregnancy and not present pre-pregnancy) and other causes. The primary tool to assess glycemic status is the A1c test as it reflects the average blood glucose value over the preceding 2-3 months and is strongly linked to diabetes complications. Higher A1c values correspond to higher complication rates of diabetes.

#### Cost of Illness/Financial Impact

- Total direct and indirect estimated costs of diagnosed diabetes in the US were \$413 billion in 2022. Excess medical costs per person associated with diabetes were \$12,022 in 2022.
- In Maryland in 2021, total and per patient medical costs attributable to diabetes were \$6.506 billion and \$11,909, respectively.

### Morbidity

- In 2020, about 16.8 million emergency department visits were reported with diabetes as any listed diagnosis among adults aged 18 years or older. Of these, 267,000 were for hyperglycemic crisis (11.4 per 1,000 adults with diabetes) and 202,000 were for hypoglycemia (8.6 per 1,000 adults with diabetes).
- Based on global data from 2007-2017, 32.2% of persons with type 2 diabetes mellitus have cardiovascular disease (CVD). In this report, 13% and 46% of the studies analyzed were from North America and Europe, respectively

#### Mortality

- Diabetes was the 8th leading cause of death in the US in 2021, based on 103,294 death certificates with diabetes as underlying cause (rate of 31.1 per 100,000 people). Including diabetes as a contributing cause of death, the rate increases to 120.3 per 100,000 people (399,401 death certificates)
- In Maryland, the age-adjusted rate of diabetes death and diabetes-related death in adults aged 18 years older was 33.5 and 145.5 per 100,000 people, respectively, in 2022.

# Factor 2.2: The disease burden of the condition that is treated by the prescription drug product- Heart Failure (HF)

#### **Prevalence**

- Based on NHANES 2017-2020, approximately 6.7 million US adults have HF (overall population rate of 1.9-2.6%). Prevalence
  progressively increases with each decade of life; individuals over age 65 have a 4-fold higher prevalence of HF (8-9.1%) vs. those under 65
  years.
- Within Maryland, the 2016 age adjusted prevalence of heart failure is approximately 1100 per 100,000 persons. Relative to other states, MD prevalence is moderately elevated (prevalence range 700-1300 per 100,000 persons).

#### Incidence

A variation in incidence rates reported in studies is surmised to be due to differences in data sources, population demographics and
composition, HF ascertainment methodology, and periodic differences. The inclusion of HFpEF also influences results as it becomes the
dominant phenotype, attributed to increasing prevalence of underlying risk factors for HF (including diabetes and obesity).

### **Disease Severity**

• Heart failure severity is categorized into stages A, B, C and D by the AHA/ACC. The following table defines each stage. Stages A & B represent those individuals without signs or symptoms of heart failure but either at risk for or with pre-heart failure. Stages C & D represent individuals with symptomatic heart failure, Stage D representing more severe symptoms interfering with activities of daily living.

### **Cost of Illness/Financial Impact**

- In 2012, total cost for HF was estimated to be \$30.7 billion (2010 dollars), of which more than two-thirds was attributable to direct medical costs. Projections suggest that by 2030 the total cost of HF will increase by 127% to \$69.8 billion, amounting to ~\$244 for every US adult.
- In a systematic review of HF-associated medical costs in the United States from 2014 to 2020, the annual median total cost was estimated at \$24,383 per patient, with HF hospitalizations accounting for the majority (\$15,879 per patient).

# Factor 2.2: The disease burden of the condition that is treated by the prescription drug product- Heart Failure (HF)

### Morbidity

• In 2019, there were 8,054,000 physician office visits with a primary diagnosis of HF. In 2020, there were 1,361,493 ED visits for HF. In 2020, there were 1,111,500 principal diagnosis hospital discharges for HF.

### **Mortality**

- One-third of all cardiovascular deaths are usually attributable to HF, however coding guidelines consider HF as a mediator rather than the underlying cause of death. Therefore, mortality from HF is underestimated. The reported absolute number of deaths with HF as an underlying cause of death was 85,855, whereas the total number of cardiovascular deaths were 928,741 deaths in the US by 2020. By including any mention of HF on death certificates, HF was a contributing cause in 415,922 deaths in the US in 2020.
- In 2022, heart failure was mentioned on 457,212 death certificates (and responsible for 13.9% of all causes of death).
- HF is associated with a loss of 15 years of median survival for adults aged 65–90 years of age compared with the general US population.
- The 1-year HF mortality rate is approximately 30%, increasing to approximately 40% at 5 years.

# Factor 2.2: The disease burden of the condition that is treated by the prescription drug product- Chronic Kidney Disease (CKD)

#### **Prevalence**

• Based on data from 2017 - March 2020, 35.5million (14%) US adults have CKD2,4 About 1 in 3 people with diabetes and 1 in 5 people with high blood pressure have kidney disease.

#### Incidence

- There are approximately 360 new dialysis starts daily.
- Incidence rates are not available for new diagnoses of CKD, however it is estimated that 1 in 3 US adults is at risk for CKD. This estimate is based on the prevalence of diabetes, hypertension (high blood pressure) and obesity in the population and without treatment.

### **Disease Severity**

• CKD severity is based on estimated glomerular filtration rate (eGFR), a calculation to estimate how well an individual's kidneys filter blood, and albumin to creatinine ratio (ACR), a measure of protein found in the urine. Lower eGFR values and higher albuminuria levels (ACR) correspond to reduced kidney function.

### **Cost of Illness/Financial Impact**

- Medicare beneficiaries with CKD cost \$87.2 billion in 2019.
- Medicare spending for beneficiaries with CKD (not including ESKD) ages 66 or older was nearly \$77 billion in 2021, representing 24.1% of Medicare spending in this age group.
- In 2021, annual per-person spending attributable to Medicare Parts A, B, and D was more than double for beneficiaries ages 66 or older with CKD (\$28,162) compared with those without CKD (\$13,604).

### Mortality

- In 2021, the demographic-adjusted mortality rate was more than twice as high among Medicare beneficiaries ages 66 years or older with CKD (101.8 per 1,000 person-years) than among those without CKD (46.3 per 1,000 person-years).
- Specifically in Maryland, all-cause mortality in older adults in 2022 in persons without CKD vs. All stages of CKD was 39.4 vs 114.5 per 1,000 PY, respectively.

  MARYLAND
  15
  Prescription Drug Affordability Board

## **Section 3: Regulatory Approval and Market Context**

# Factor 3.1: Analysis of the prescription drug product's approval process

- The U.S. Food and Drug Administration (FDA) initially approved Jardiance on August 1, 2014
- On August 18, 2021, the FDA approved Jardiance for a new indication to "reduce the risk of cardiovascular death and hospitalization for heart failure in adults with heart failure and reduced ejection fraction."
- On February 24, 2022, the FDA broadened the indication by changing it to "reduce the risk of cardiovascular death and hospitalization for heart failure in adults with heart failure."
- On June 20, 2023, the FDA expanded the diabetes indication to include children ages 10 and older.
- On September 21, 2023, the FDA approved Jardiance "to reduce the risk of sustained decline in eGFR, end-stage kidney disease, cardiovascular death, and hospitalization in adults with chronic kidney disease at risk of progression."

# Factor 3.2: Analysis of the prescription drug product's shortage status

• Jardiance is not in shortage

# Factor 3.3: Analysis of the market context of the prescription drug product including the prescription drug product's lifecycle management, patent management, regulatory exclusivities, and product hopping

**Table 7. Patent Listing Table** 

					Original	Patent	Listed	Listed
Patent	DS	DP	Patent	Submission	Patent	Extension	for 10	for 25
Number	Patent <sup>1</sup>	Patent <sup>2</sup>	Use Code	Date	Expiration	Expiration <sup>3</sup>	MG	MG
7713938	Yes	Yes		8/15/2014	4/15/2027	10/15/2027	Yes	Yes
7579449	Yes	No		8/15/2014	8/1/2028	2/1/2029	Yes	Yes
8551957	No	No	U-1651	3/14/2016	10/14/2029	4/14/2030	Yes	Yes
12115179	No	No	U-4023	11/12/2024	2/11/2030	1	Yes	Yes
			U-3776					
11833166	No	No	U-3777	1/3/2024	4/3/2034		Yes	Yes
11666590	No	No	U-3691	10/3/2023	4/3/2034		Yes	No
10258637	No	No	U-2290	4/30/2019	4/3/2034	10/3/2034	Yes	Yes
11090323	No	No	U-3191	8/20/2021	4/3/2034	10/3/2034	Yes	Yes
			U-3759					
11813275	No	No	U-3760	12/13/2023	4/3/2034		Yes	No
9949997	No	No	U-2292	5/15/2018	5/17/2034	11/17/2034	Yes	Yes

<sup>1</sup> DS Patent refers to the Drug Substance Patent

<sup>2</sup> DP Patent refers to a Drug Product Patent

<sup>3</sup> There are some patents with extended expiration dates because of incentives that extend the life of patents when a sponsor performs pediatric studies.

## **Section 4: Utilization of Drug Product Under Review**

Table 12a. Jardiance Spending and Utilization

National Drug Code (11-Digit)	Proprietary Name	Dosage Strength	Commercial (2023) Gross Spending	Commercial (2023) Patient Count	Commercial (2023) Pct Total Gross Spend
00597-0152-90	Jardiance	10 MG	\$19,412,368.00	5,267	0.1937%
00597-0152-30	Jardiance	10 MG	\$95,989,130.00	21,512	0.9578%
00597-0153-90	Jardiance	25 MG	\$25,175,084.00	8,729	0.2512%
00597-0153-30	Jardiance	25 MG	\$91,863,771.69	19,505	0.9167%
71610-0177-45	Jardiance	25 MG	***	***	***
00597-0153-37	Jardiance	25 MG	\$130,950.00	56	0.0013%
71610-0177-15	Jardiance	25 MG	***	***	***
00597-0152-37	Jardiance	10 MG	\$97,556.00	41	0.0010%
71610-0177-42	Jardiance	25 MG	**	***	***

<sup>\*\*\*</sup> This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer patients.



<sup>^^^</sup>This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data.

Table 12b. Jardiance Spending and Utilization

National Drug Code (11- Digit)	Proprietary Name	Dosage Strength	State Local Gov. Emp. (2023) Gross Spending	State Local Gov. Emp. (2023) Patient Count	State Local Gov. Emp. (2023) Pct Total Gross Spend
00597-0152-90	Jardiance	10 MG	\$897,155.00	253	0.1308%
00597-0152-30	Jardiance	10 MG	\$4,629,223.00	1,199	0.6750%
00597-0153-90	Jardiance	25 MG	\$1,699,246.00	683	0.2478%
00597-0153-30	Jardiance	25 MG	\$5,578,432.00	1,417	0.8135%
71610-0177-45	Jardiance	25 MG			
00597-0153-37	Jardiance	25 MG	***	***	***
71610-0177-15	Jardiance	25 MG			
00597-0152-37	Jardiance	10 MG	***	***	***
71610-0177-42	Jardiance	25 MG	***	***	***

<sup>\*\*\*</sup> This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer patients.

<sup>^^</sup>This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data.

Table 12c. Jardiance Spending and Utilization

National Drug Code (11-Digit)	Proprietary Name	Dosage Strength	Medicaid (2022) Gross Spending	Medicaid (2022) Patient Count	Medicaid (2022) Pct Total Gross Spend
00597-0152-90	Jardiance	10 MG	\$800,953.23	398	0.0438%
00597-0152-30	Jardiance	10 MG	\$7,527,001.06	2,472	0.4112%
00597-0153-90	Jardiance	25 MG	\$1,431,274.74	644	0.0782%
00597-0153-30	Jardiance	25 MG	\$8,067,144.09	2,264	0.4408%
71610-0177-45	Jardiance	25 MG			
00597-0153-37	Jardiance	25 MG	\$53,659.64	35	0.0029%
71610-0177-15	Jardiance	25 MG			
00597-0152-37	Jardiance	10 MG	***	***	***
71610-0177-42	Jardiance	25 MG			

<sup>\*\*\*</sup> This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer patients.



<sup>^^</sup>This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data.

Table 12d. Jardiance Spending and Utilization

National Drug Code (11-Digit)	Proprietary Name	Dosage Strength	Medicare (2022) Gross Spending	Medicare (2022) Patient Count	Medicare (2022) Pct Total Gross Spend
00597-0152-90	Jardiance	10 MG	\$9,046,979.24	2,670	0.2501%
00597-0152-30	Jardiance	10 MG	\$33,109,658.90	9,408	0.9154%
00597-0153-90	Jardiance	25 MG	\$10,649,412.98	3,308	0.2944%
00597-0153-30	Jardiance	25 MG	\$27,321,027.82	6,987	0.7553%
71610-0177-45	Jardiance	25 MG			1
00597-0153-37	Jardiance	25 MG	\$205,842.53	84	0.0057%
71610-0177-15	Jardiance	25 MG			
00597-0152-37	Jardiance	10 MG	\$29,951.14	13	0.0008%
71610-0177-42	Jardiance	25 MG		10	

<sup>\*\*\*</sup> This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer patients.



<sup>^^^</sup>This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements.

Table 13a. Jardiance Change in Spending and Utilization

Drug 1	Information		Change	e in Comme	rcial Da	ıta (2022-202	3)
National Drug Code (11- Digit)	Drug Proprietary Name	Dosage Strength	Gross Spending (Dollar)	Gross Spending (Percent)	Patient Counts	Prescription Counts	Units Sold
00597-0152-90	Jardiance	10 MG	\$6,734,943.00	53.13%	1,468	4,464	232,121
00597-0152-30	Jardiance	10 MG	\$43,639,967.00	83.36%	6,219	23,259	1,169,266
00597-0153-90	Jardiance	25 MG	\$9,083,009.00	56.44%	2,737	8,591	466,131
00597-0153-30	Jardiance	25 MG	\$36,972,705.69	67.36%	4,784	18,394	1,006,498
71610-0177-45	Jardiance	25 MG	***	***	***	***	***
00597-0153-37	Jardiance	25 MG	\$-334,436.00	-71.86%	-161	-270	-23,093
71610-0177-15	Jardiance	25 MG	***	***	***	***	***
00597-0152-37	Jardiance	10 MG	\$65,683.00	206.08%	21	27	1,021
71610-0177-42	Jardiance	25 MG	***	***	***	***	***

<sup>\*\*\*</sup> This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer nationals.

<sup>^^</sup>This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21.2C-10 and 21.2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data. Blank spaces indicate that no data was provided.



Table 13b. Jardiance Change in Spending and Utilization

Drug	Information		Change in State Local Gov. Emp. Data (2022-2023)						
National Drug Code (11-Digit)	Drug Proprietary Name	Dosage Strength	Gross Spending (Dollar)	Gross Spending (Percent)	Patient Counts	Prescription Counts	Units Sold		
00597-0152-90	Jardiance	10 MG	\$135,963.00	17.86%	31	20	2,861		
00597-0152-30	Jardiance	10 MG	\$1,112,013.00	31.62%	216	772	23,436		
00597-0153-90	Jardiance	25 MG	\$551,040.00	47.99%	217	556	34,002		
00597-0153-30	Jardiance	25 MG	\$1,350,249.00	31.93%	271	980	35,801		
71610-0177-45	Jardiance	25 MG							
00597-0153-37	Jardiance	25 MG	***	***	***	***	***		
71610-0177-15	Jardiance	25 MG	7						
00597-0152-37	Jardiance	10 MG	***	***	***	***	***		
71610-0177-42	Jardiance	25 MG	***	***	***	***	***		

<sup>\*\*\*</sup> This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer patients.



<sup>^^^</sup>This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data. Blank spaces indicate that no data was provided.

Table 13c. Jardiance Change in Spending and Utilization

Drug	Information		Chan	Change in Medicaid Data (2021-2022)					
National Drug Code (11- Digit)	Drug Proprietary Name	Dosage Strength	Gross Spending (Dollar)	Gross Spending (Percent)	Patient Counts		Units Sold		
00597-0152-90	Jardiance	10 MG	\$371,634.12	86.56%	161	304	19,569		
00597-0152-30	Jardiance	10 MG	\$2,336,215.87	45.01%	555	1,286	115,530		
00597-0153-90	Jardiance	25 MG	\$547,296.48	61.91%	168	390	27,383		
00597-0153-30	Jardiance	25 MG	\$2,288,870.84	39.61%	398	1,184	109,099		
71610-0177-45	Jardiance	25 MG		9	2	13	- 62		
00597-0153-37	Jardiance	25 MG	\$-186,901.59	-77.69%	-93	-164	-10,687		
71610-0177-15	Jardiance	25 MG							
00597-0152-37	Jardiance	10 MG	***	***	***	***	***		
71610-0177-42	Jardiance	25 MG							

<sup>\*\*\*</sup> This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer patients.

<sup>^^^</sup>This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data. Blank spaces indicate that no data was provided.



Table 13d. Jardiance Change in Spending and Utilization

Drug	Information		Change in Medicare Data (2021-2022)						
National Drug Code (11- Digit)	Drug Proprietary Name	Dosage Strength	Gross Spending (Dollar)	Gross Spending (Percent)	Patient Counts	Prescription Counts	Units Sold		
00597-0152-90	Jardiance	10 MG	\$3,752,479.02	70.88%	1,041	3,376	181,987		
00597-0152-30	Jardiance	10 MG	\$13,406,839.60	68.05%	3,433	12,179	629,319		
00597-0153-90	Jardiance	25 MG	\$4,034,846.60	61.00%	1,063	3,861	222,738		
00597-0153-30	Jardiance	25 MG	\$10,696,257.95	64.34%	2,161	8,278	504,384		
71610-0177-45	Jardiance	25 MG							
00597-0153-37	Jardiance	25 MG	\$-755,288.68	-78.58%	-315	-628	-41,040		
71610-0177-15	Jardiance	25 MG		9					
00597-0152-37	Jardiance	10 MG	\$1,087.23	3.77%	-4	-3	-45		
71610-0177-42	Jardiance	25 MG							

<sup>\*\*\*</sup> This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer natients.



<sup>^^</sup>This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data. Blank spaces indicate that no data was provided.

# Factor 4.3: Impact of the utilization and spending for the prescription drug product on public budgets and comparison of the spending on the prescription drug product to relevant benchmarks

- Staff was unable to assess the impact on public budgets for specific local governments.
- In future Cost Review Studies, staff will continue to work with state and local governments, and other public budgets, to identify standardized data to support this analysis or develop other methods of conducting this analysis.

## **Section 5: Pricing Information and Rebates**

### Factor 5.1: The WAC, AWP, NADAC, SAAC, ASP, and FSS

- WAC and AWP are redacted as proprietary information
- Exhibit 1 reflects pricing history for Jardiance

### Factor 5.1: The WAC, AWP, NADAC, SAAC, ASP, and FSS

Table 14b. Jardiance NADAC, SAAC, and FSS Pricing

	NADAC	Est.			FSS	
National Drug	Unit	NADAC	SAAC	Est. SAAC	Unit	Est. FSS
Code	Price	per Year	Rate	per Year	Price	per Year
00597-0152-07 (10 MG)			\$19.37	\$7,068.62		
00597-0152-30 (10 MG)	\$19.55	\$7,134.66	\$19.37	\$7,068.62	\$14.48	\$5,284.47
00597-0152-37 (10 MG)	\$19.55	\$7,134.66	\$19.37	\$7,068.62	\$14.48	\$5,284.47
00597-0152-90 (10 MG)	\$19.55	\$7,134.66	\$19.37	\$7,068.62	\$14.48	\$5,284.47
00597-0153-07 (25 MG)			\$19.37	\$7,068.74		
00597-0153-30 (25 MG)	\$19.54	\$7,133.61	\$19.37	\$7,068.74	\$14.48	\$5,284.47
00597-0153-37 (25 MG)	\$19.54	\$7,133.61	\$19.37	\$7,068.74	\$14.48	\$5,284.47
00597-0153-90 (25 MG)	\$19.54	\$7,133.61	\$19.37	\$7,068.74	\$14.48	\$5,284.47
50090-4384-00 (25 MG)						
50090-4384-01 (25 MG)						
50090-4492-00 (10 MG)						
50090-4492-01 (10 MG)						
50090-6452-00 (10 MG)						
50090-6457-00 (25 MG)						
55154-0411-08 (10 MG)						
55154-0412-08 (25 MG)						
71610-0177-09 (25 MG)						
71610-0177-15 (25 MG)						
71610-0177-30 (25 MG)			11 9			
71610-0177-42 (25 MG)						
71610-0177-45 (25 MG)						

<sup>\*\*\*</sup> This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer patients.

<sup>^^^</sup>This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data.

# Factor 5.2: Information estimating manufacturer net price and net sales amounts of the prescription drug product under review

Net price and net sales are redacted as proprietary information

## Factor 5.3: Information estimating manufacturer net price and net sales amounts of the prescription drug product under review

- Under the Medicare Drug Price Negotiation Program authorized by the Inflation Reduction Act of 2022 (P.L. 117-169), beginning January 1,2026, Jardiance is subject to a negotiated Maximum Fair Price (MFP) for the Medicare program.
  - Using this information, staff calculated the expected price concession, discount, and rebate for Medicare Plans in Maryland.
- Calculations the price concession, rebate, and discounts as a percentage of WAC are redacted as proprietary data
- Jardiance Medicare Maximum Fair Price (MFP) per Unit: \$6.79

# Factor 5.4: The average price concession, discount, and rebate the manufacturer provided or is expected to provide for the prescription drug product under review to each PBM operating in the State, expressed as a number and as a percent of the WAC

- Exhibit 2 contains information responsive to this element
- Documents are available to the Board, but not the public, as exhibits to the dossier.

Factor 5.5: Information supplied by the manufacturer, if any, explaining the relationship between the pricing of the prescription drug product and (a) the cost of development and (b) the therapeutic benefit of the prescription drug product, or information that is otherwise pertinent to the manufacturer's pricing decision

- Exhibit 2 contains information responsive to this element
- Documents are available to the Board, but not the public, as exhibits to the dossier.

## Section 6: Therapeutic Alternatives, Cost Comparisons, and Health Economics Outcomes and Research (HEOR)

## Factor 6.1: The WAC, AWP, NADAC, SAAC, ASP, and FSS at which each therapeutic alternative has been sold in the State

- WAC and AWP are redacted as proprietary information
- Exhibit 3\_REDACTED JARDIANCE Therapeutic Alternative Pricing\_REDACTED (Excel Document)

## Factor 6.2: The average price concession, discount, or rebate the manufacturer provides or is expected to provide to health plans in the State for therapeutic alternatives

- The average price concession, discount, or rebate the manufacturer provides or is expected to provide redacted as proprietary information
- Exhibit 3\_REDACTED JARDIANCE Therapeutic Alternative Pricing\_REDACTED (Excel Document)

### Factor 6.3: The utilization, costs, and out-of-pocket costs for therapeutic alternatives

 Exhibit 4 (Jardiance Therapeutic Alternative Medical Claims Data Base (MCDB) Statistics (Excel Document)

## Factor 6.4: The incremental costs associated with a prescription drug product, including financial impacts to health, medical, or social services as can be quantified and compared to baseline effects of existing therapeutic alternatives

- Exhibit 5A Jardiance Summary of Cost Effectiveness Analyses
- General Findings
  - Increased costs compared to older antidiabetic drugs driven by higher drug prices and longer average life and offset by reduced other medical expenditures
  - Lower costs compared to GLP-1 drugs driven by lower drug prices, impact on other medical spending depended on sub-groups

Factor 6.5: Information derived from health economics and outcomes research that may address the effectiveness of the prescription drug product in treating the conditions for which it is prescribed or in improving a patient's health, quality of life, or overall health outcomes, and the effectiveness of the prescription drug product compared with therapeutic alternatives or no treatment.

- Exhibit 5A Jardiance Summary of Cost Effectiveness Analyses and Exhibit 5B Jardiance Summary of Comparative Effectiveness Research
  - Increased effectiveness compared to older therapies
  - Compared across SGLT2 class
    - Varied results in different subgroups
  - SGLT2s vs GLP-1s, generally GLP-1s more effective, but SGLT2s more effective in certain subgroups

## Factor 6.6: In the case of generic prescription drug products, the number of pharmaceutical manufacturers that produce the prescription drug product

Jardiance is not a generic drug product.

### Factor 6.7: The utilization and pricing of therapeutically equivalent drug products

• For Jardiance, there are no therapeutically equivalent drug products approved by the FDA under other applications.

#### **Section 7: Cost-Sharing and Insurance Benefit Design**

## Factor 7.1: The estimated impact on patient access resulting from the cost of the prescription drug product relative to insurance benefit design

- Analyses suggests that while there are statistically significant relationships between average copays and coinsurance and the number of prescriptions people use in a year, any impact is small.
- Literature review:
  - Without controlling for other factors, researchers found that 77% of patients with low copayment levels had more than 80% of prescription days covered. In comparison, 72% of those with medium and 72% of those with high copayments had 80% covered
  - Researchers found that increased copays were associated with more prescription days covered

# Factor 7.2: The current or expected dollar value of drug-specific patient access programs that are supported by the manufacturer for the drug product under review and the policies surrounding and implementing such programs

- Staff identified two patient access programs for Jardiance. The first program is the Jardiance Savings Card.49 This card can allow patients to pay as little as \$10 a month per prescription.
- The second program was Boehringer Cares Patient Assistance Program.
- A reasonable search failed to disclose publicly available information concerning the dollar value of Jardiance-specific patient access programs.

## Factor 7.3: The average patient copay and other cost-sharing data for the prescription drug in the State

Table 23a. Jardiance Average Copays and Other Cost-Sharing

National Drug Code (11-Digit)	Drug Proprietary Name	Dosage Strength	Commercial (2023) Avg Deductible	Commercial (2023) Avg Copay	Commercial (2023) Avg Coinsurance	Commercial (2023) Avg Other Member Liability
00597-0152-90	Jardiance	10 MG	\$37.37	\$81.46	\$30.54	\$61.07
00597-0152-30	Jardiance	10 MG	\$77.23	\$89.91	\$45.71	\$71.21
00597-0153-90	Jardiance	25 MG	\$26.48	\$112.57	\$23.59	\$38.47
00597-0153-30	Jardiance	25 MG	\$77.61	\$114.07	\$42.33	\$62.20
71610-0177-45	Jardiance	25 MG	***	***	***	***
00597-0153-37	Jardiance	25 MG	\$24.73	\$42.14	\$27.05	\$44.89
71610-0177-15	Jardiance	25 MG	***	***	***	***
00597-0152-37	Jardiance	10 MG	\$77.02	\$38.73	\$14.54	\$40.24
71610-0177-42	Jardiance	25 MG	***	***	***	***

<sup>\*\*\*</sup> This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer patients. ^^This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data. Blank spaces indicate that no data was provided.

## Factor 7.3: The average patient copay and other cost-sharing data for the prescription drug in the State

Table 23b. Jardiance Average Copays and Other Cost-Sharing

National Drug Code (11-Digit)	Drug Proprietary Name	Dosage Strength	State Local Gov (2023) Avg Deductible	State Local Gov (2023) Avg Copay	State Local Gov (2023) Avg Coinsurance	State Local Gov (2023) Avg Other Member Liability
00597-0152-90	Jardiance	10 MG	\$3.74	\$65.88	\$19.83	\$11.11
00597-0152-30	Jardiance	10 MG	\$3.35	\$77.96	\$10.01	\$2.73
00597-0153-90	Jardiance	25 MG	\$2.82	\$68.00	\$4.29	\$0.92
00597-0153-30	Jardiance	25 MG	\$5.72	\$80.59	\$8.07	\$1.44
71610-0177-45	Jardiance	25 MG				
00597-0153-37	Jardiance	25 MG	***	***	***	***
71610-0177-15	Jardiance	25 MG				
00597-0152-37	Jardiance	10 MG	***	***	***	***
71610-0177-42	Jardiance	25 MG	***	***	***	***

\*\*\* This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer patients. ^^This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data. Blank spaces indicate that no data was provided.

#### **Factor 7.4: The average cost share**

Table 24. Jardiance Average Cost Share

National Drug Code (11-Digit)	Drug Proprietary Name	Dosage Strength	Commercial (2023) Avg. Cost Share	State Local Gov (2023) Avg. Cost Share	Medicare (2022) Avg. Cost Share
00597-0152-90	Jardiance	10 MG	5.79%	2.83%	7.21%
00597-0152-30	Jardiance	10 MG	6.45%	2.40%	5.64%
00597-0153-90	Jardiance	25 MG	6.98%	3.07%	7.61%
00597-0153-30	Jardiance	25 MG	5.85%	2.41%	6.29%
71610-0177-45	Jardiance	25 MG	***		
00597-0153-37	Jardiance	25 MG	5.94%	***	6.12%
71610-0177-15	Jardiance	25 MG	***		
00597-0152-37	Jardiance	10 MG	7.17%	***	13.24%
71610-0177-42	Jardiance	25 MG	***	***	

<sup>\*\*\*</sup> This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer patients. ^^This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data. Blank spaces indicate that no data was provided.

#### Factor 7.5: The mean, median, and 90th percentile out-of-pocket costs per patient compared to State incomes

Table 25. Jardiance Average Out-of-Pocket Costs

Drug Information		Commercial (2023) Statistics			State Local Gov (2023) Statistics			Medicare (2022) OOP Statistics		
National Drug Code (11-Digit)	Dosage Strength	Avg.	Median	90th Percentile	Avg.	Median	90th Percentile	Avg.	Median	90th Percentile
00597-0152-90	10 MG	\$210.44	\$80.00	\$518.00	\$100.55	\$40.00	\$210.00	\$300.22	\$80.00	\$1,026.66
00597-0152-30	10 MG	\$284.06	\$100.00	\$713.00	\$94.05	\$40.00	\$240.00	\$270.57	\$59.10	\$944.32
00597-0153-90	25 MG	\$201.10	\$90.00	\$463.00	\$76.02	\$40.00	\$184.00	\$296.47	\$104.78	\$1,020.77
00597-0153-30	25 MG	\$296.21	\$130.00	\$697.00	\$95.82	\$50.00	\$240.00	\$309.62	\$87.33	\$1,046.24
71610-0177-45	25 MG	***	***	***						
00597-0153-37	25 MG	\$138.82	\$47.50	\$467.00	***	***	***	\$192.37	\$88.65	\$590.87
71610-0177-15	25 MG	***	***	***						
00597-0152-37	10 MG	\$170.54	\$45.00	\$324.00	***	***	***	\$715.80	\$1,078.06	\$1,208.71
71610-0177-42	25 MG	***	***	***	***	***	***			

\*\*\* This symbol indicates information suppressed in compliance with state and federal data use agreements and the applicable cell size suppression policy. This policy requires that no cell of ten (10) or less may be displayed and that no percentages or other mathematical formulas may be used in a document if based on a sample of ten (10) or fewer patients. ^^This symbol indicates information redacted/suppressed as confidential, trade secret and proprietary information in compliance with Health-General Article §§ 21-2C-10 and 21-2C-03, and applicable data use and commercial licensing agreements. In some cases, calculated information is redacted because it can be used to calculate the proprietary data. Blank spaces indicate that no data was provided.

## Factor 7.6: An assessment of the impact of the prescription drug product's cost to access by priority populations and the impact on equity

- Claims data did not include demographic information for the vast majority of patients
  - Staff were unable to make a conclusive assessment
- Literature Review:
  - 10.8% of patients with diabetes and SGLT-2 inhibitor prescriptions were Black, compared to 11.9% of patients with diabetes and no SGLT-2 inhibitor prescription.
  - 4.4% of patients with diabetes and SGLT-2 inhibitor prescriptions were Asian, compared to 4.8% of patients with diabetes and no SGLT-2 inhibitor prescription.
  - o 16.1% of patients with diabetes and SGLT-2 inhibitor prescriptions were Hispanic/Latino, compared to 15.0% of patients with diabetes and no SGLT-2 inhibitor prescription.
  - o 19.4% of the low copay patients were Black, compared to 11.8% and 10.1% of the medium and high copay patients.
  - o 20.7% of the low copay patients were Hispanic, compared to 15.7% and 13.4% of medium and high copay patients.
  - 44.8% of patients with low copays came from areas with median household incomes under \$40,000, compared to 21.9% and 21.6% of medium and high copay patients.
  - o 12.4% of low copay patients came from areas with median household income over \$100,000, compared to 28.1% and 25.7% of medium and high copay patients.

## Factor 7.7: The costs to health plans based on patient access consistent with FDA-labeled indications or standard medical practice

• This data was calculated based on the number of patients using an NDC multiplied by the annual WAC, which is redacted as proprietary information.

#### **Section 8: Other Information**

#### **Factor 8.1: Input from the Public**

- Staff received comments during the following comment periods:
  - INITIAL 60-DAY COMMENT PERIOD
    - 60-Day Written Comment: Notice Posted on 5/23/2024
  - WRITTEN COMMENT REQUEST
    - Written Comment Request: Posted 10/28/2024
  - JANUARY 2025 COMMENT SOLICITATION
    - Comment request posted and sent by listserv: January 15, 2025
  - PUBLIC COMMENTS IN CONJUNCTION WITH BOARD MEETINGS TO DATE
    - Board Meeting: January 27, 2025- Oral Comment
    - Board Meeting: March 24, 2025- Oral Comment
  - WRITTEN COMMENT REQUEST ON DRAFT DOSSIER
    - Written Comment Request: Posted 6/18/2025

## Factor 8.2: Analysis of the impact of state and federal regulatory and compliance issues related to the prescription drug product

• Staff did not identify any other regulatory or compliance issue that would provide additional context for the market related to this prescription drug product.

## Factor 8.3: Input from state and local governmental entities and the entities' contractors such as health plans and plan administrators

 Board staff did not receive input from state and local government entities for the cost review study of Jardiance.

## Factor 8.4: Information and analyses submitted by an entity under Regulation .04 of this chapter.

- Documents received in response to the request for information are available to the Board, but not the public, as Exhibit 2 to the dossier.
- Board staff redacted the information that may be considered at the second step from the submitted documents provided to the Board as exhibits to the dossier. If the Board is unable to make an affordability challenge determination, staff will provide the Board with unredacted copies of the exhibits that contain the information that may be considered at the second step.



#### comments.pdab@maryland.gov pdab.maryland.gov