Comparison of Care in Hospital Outpatient
Departments and Independent Physician Offices
among Cancer Patients
Updated Findings for 2019-2024

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#### **Report Overview**

- Study Background and Purpose
- Key Findings
- Overview of Study Approach
- Comparison of Patient Characteristics
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  - Data and Methodology;
  - Lung Cancer and Breast Cancer Findings

#### STUDY BACKGROUND AND PURPOSE

# Study Background and Purpose

- Patients may receive non-emergent medical care in an independent physician's office (IPO) or a hospital outpatient department (HOPD).
- Currently, Medicare pays different rates for the same service depending on the site of care.
- Some in Congress are considering policy recommendations to reduce differential payments for services delivered in the two settings.

# Study Background and Purpose

- It has been documented that HOPDs face greater regulatory requirements,<sup>1</sup> and our previous findings indicate that Medicare beneficiaries with cancer are often treated in HOPDs. These beneficiaries also tend to be under 65 and disabled, dually eligible, come from communities with lower income, and have more severe chronic conditions and higher prior utilization of health care services.
- This study aims to update our 2020 study by examining characteristics of Medicare cancer patients seen in HOPDs and IPOs in 2019-2024.

<sup>1.</sup> American Hospital Association (2014). "Hospital Outpatient Department (HOPD) Costs Higher Than Physician Offices Due to Additional Capabilities, Regulations."

#### **Research Question**

How do Medicare patients with cancer (any cancer, breast cancer only, and lung cancer only) cared for in HOPDs and IPOs differ?

- Demographics and socioeconomic status
- Severity and medical complexity
- Prior healthcare utilization

#### **KEY FINDINGS**

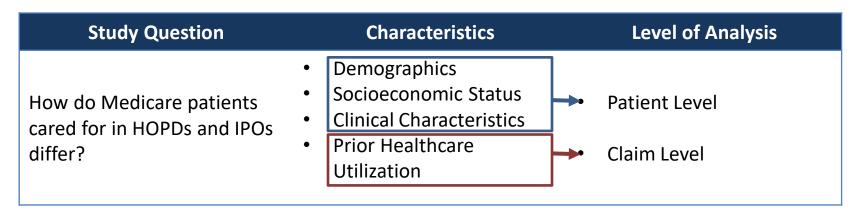
# **Key Findings**

- Compared to Medicare beneficiaries with cancer treated in IPOs, beneficiaries with cancer receiving care in HOPDs are more likely to be:
  - Under 65 and disabled<sup>1</sup>
  - Dually eligible
  - From lower-income areas and rural counties.
  - Burdened with more severe chronic conditions
  - Previously hospitalized
  - Previously cared for in an emergency department

#### **OVERVIEW OF STUDY APPROACH**

### **Study Overview**

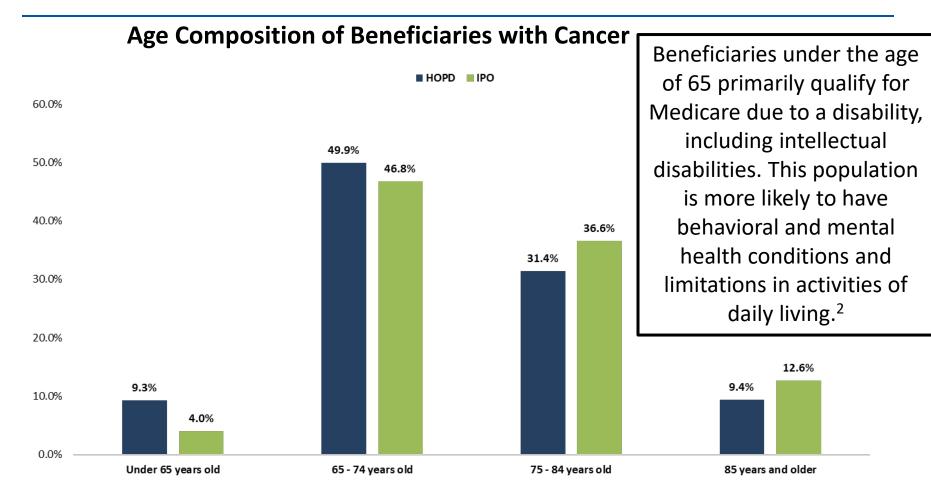
- <u>Data Source</u>: 2018Q4-2024Q2 Medicare Inpatient, Outpatient, and Carrier Standard Analytical Files and Denominator files.
- Identifying HOPD and IPO Patients: A patient is considered an HOPD (IPO) patient in a given year if more than 50% of ambulatory care in that year is provided in HOPDs (IPOs).
- <u>Identifying Cancer Patients</u>: Patients with a principal diagnosis of cancer (Clinical Classification Software Codes: 11-45) in an HOPD or IPO visit claim are identified as cancer patients.



# HOW DO MEDICARE CANCER PATIENTS CARED FOR IN HOPDs AND IPOs DIFFER?

# Relative to beneficiaries with cancer seen in IPOs, beneficiaries with cancer seen in HOPDs are...

# 131% More Likely to be under 65<sup>1</sup> and Disabled



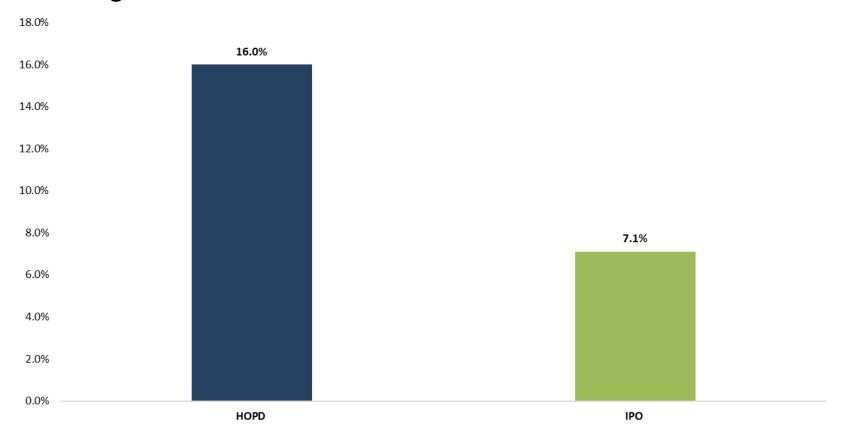
Source: KNG Health Consulting, LLC analysis of 2018Q4-2024Q2 Medicare claims data.

<sup>1.</sup> Medicare Beneficiaries under 65 are individuals with certain disabilities, end-stage renal disease, or amyotrophic lateral sclerosis (ALS).

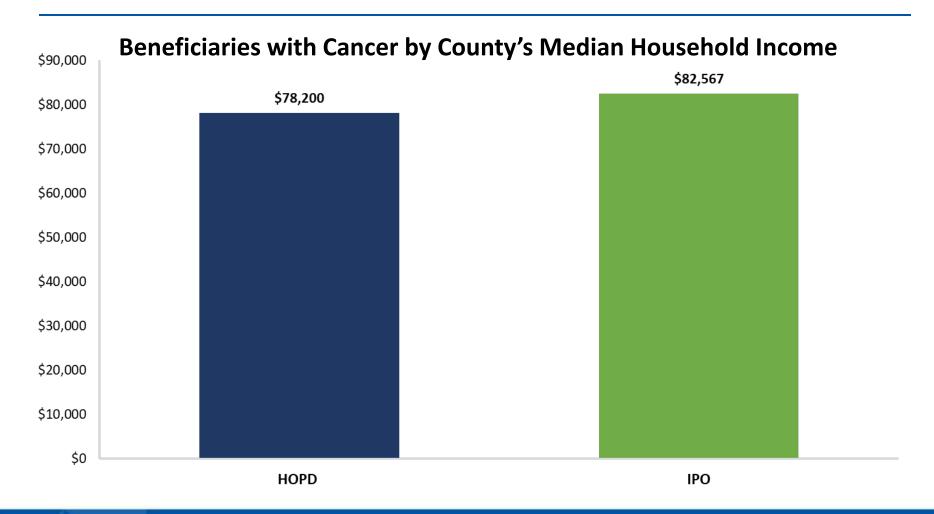
<sup>2.</sup> Lyons B, Andrews J, Claypool H. The Challenge Of Medicare And Medicaid Integration For Dual Eligible Individuals Under 65. *Health Affairs Forefront* (2025). Doi: 10.1377/forefront.20250220.305666

# 125% More Likely to be Dually Eligible

#### Percentage of Beneficiaries with Cancer That Are on Medicare and Medicaid



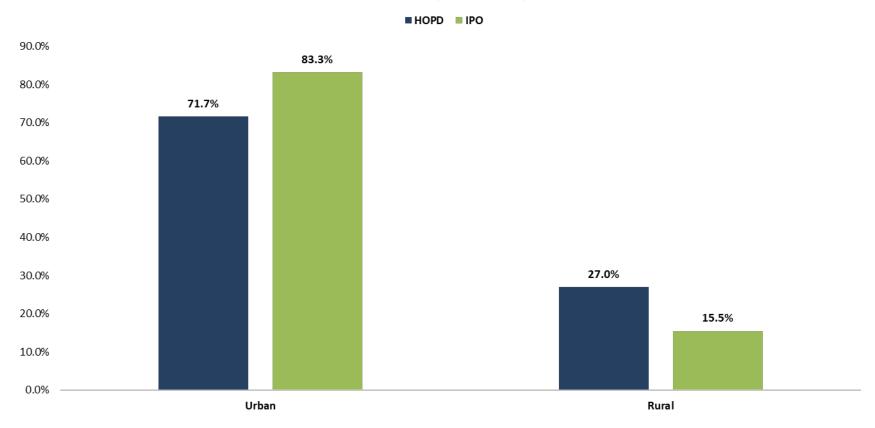
#### On Average, From Lower Income Areas



Source: KNG Health Consulting, LLC analysis of 2018Q4-2024Q2 Medicare claims data. Note: Median household income in beneficiary's county is in 2023 dollars.

# 75% More Likely to Live in a Rural County

#### Beneficiaries with Cancer by County's Urban/Rural Status



### Severity and Complexity Measures

- We measured patient severity and complexity using three types of indicators: Charlson Comorbidity Index, number of complications/ comorbidities (CCs) and major CCs (MCCs), and prior utilization of care.
- The Charlson Comorbidity Index is a measure of patient severity computed by assigning higher weights to more severe conditions in terms of their effect on mortality.
  - The Charlson Comorbidity Index includes 17 medical conditions that are found to be associated with 1-year mortality. A weight of 1 to 6 is assigned to each condition based on mortality risk, and weights are added across conditions to calculate total score.<sup>1, 2</sup>
  - The score is predictive of mortality, with 1-year and 10-year mortality rates greater than 50% for those with scores above 2. 1, 3
- Prior utilization of care captures inpatient hospital stays and emergency department visits in the 90 days preceding a HOPD or IPO visit.

# Medicare Beneficiaries with Cancer Seen in HOPDs Are Even More Medically Complex

- The severity of chronic conditions as measured by the Charlson Comorbidity Score is substantially higher for beneficiaries seen in HOPDs.
- A greater percentage of HOPD patients have CCs and MCCs.

Indicator	HOPD	IPO
Average Charlson Comorbidity Score	5.60	3.46
% with at least one CC	76%	60%
% with at least one MCC	31%	19%

Medical conditions captured in Charlson Score: myocardial infarction, congestive heart failure, peripheral vascular disorders, cerebrovascular disease, dementia, chronic pulmonary disease, rheumatic disease, peptic ulcer disease, mild liver disease, diabetes without chronic complication, diabetes with chronic complication, hemiplegia or paraplegia, renal disease, any malignancy (including lymphoma and leukemia, except malignant neoplasm of skin), moderate or severe liver disease, metastatic solid tumor, AIDS/HIV.

# Medicare Beneficiaries with Cancer Seen in HOPDs Have Higher Prior Emergency Department Use

#### **Emergency Department Utilization 90 Days Prior to Visit by Setting**

Emergency Department (ED) Use Prior to Visit	HOPD	IPO
Percent of HOPD/IPO Visits with a Prior ED Visit	26%	16%
Mean Number of ED Visits	0.41	0.22
Mean Number of ED Visits (Conditional on Having At Least 1 ED Visit)	1.58	1.39

# Medicare Beneficiaries with Cancer Seen in HOPDs Have Higher Prior Inpatient Hospital Use

# Inpatient Hospital Utilization 90 Days Prior to Visit by Setting

Inpatient Hospital Use Prior to Visit	HOPD	IPO
Percent of HOPD/IPO Visits with a Prior Inpatient Hospital Stay	17%	8%
Mean Number of Inpatient Hospital Stays	0.24	0.10
Mean Number of Inpatient Hospital Stays (Conditional on Having At Least 1 Inpatient Hospital Stay)	1.37	1.23
Mean Total Inpatient Hospital Days (Conditional on Having At Least 1 Inpatient Hospital Stay)	7.50	5.27
Mean Total Inpatient Hospital Payments (Conditional on Having At Least 1 Inpatient Hospital Stay), in 2024 dollars	\$28,532	\$19,499

#### **CONCLUSIONS**

#### **Conclusions**

- Our findings suggest key differences between Medicare beneficiaries with cancer treated in HOPDs and IPOs.
- Medicare beneficiaries with cancer primarily treated in HOPDs as compared to IPOs are more likely to
  - be under 65 and disabled<sup>1</sup> and dual eligible.
  - come from communities with lower income or rural counties.
  - have more severe chronic conditions and higher prior utilization of hospitals and emergency departments.

#### **Conclusions**

- Patients of higher complexity may require a greater level of care than patients of lower complexity.
- To the extent that these differences result in variations in the cost of care, site neutral payments may have adverse effects on patient access to care.

#### **APPENDIX: DATA AND METHODOLOGY**

# **Data and Study Population**

- 2018Q4-2024Q2 Standard Analytical File of 5% sample of Medicare beneficiaries. Claims include:
  - Inpatient
  - Outpatient
  - Professional services (Carrier file)
- The patient population consists of Medicare beneficiaries who fulfill the following criteria:
  - Had at least one HOPD or IPO visit between Jan. 1, 2019 and Jun. 30, 2024.
  - Had continuous enrollment in Medicare FFS Part A and Part B in a given calendar year and three months prior to the year.

#### Identification of HOPD and IPO Patients

- HOPD visits are identified using:
  - Outpatient claims, excluding non-hospital claims, emergency department visit claims, and observation stay claims
  - Carrier claims with place of service code of "22=Outpatient Hospital" or "19=Off-campus Outpatient Hospital"
- IPO visits are identified using:
  - Carrier claims with place of service code of "11=Office"
- Identification of HOPD and IPO patient populations:
  - A patient is considered an HOPD (IPO) patient in a given year if more than 50% of care in that year is provided in HOPDs (IPOs).
  - Only HOPD claims for HOPD patients and IPO claims for IPO patients are included in the analysis.

### Methodology: Descriptive Analysis

- Demographic, socioeconomic, and clinical characteristics were examined at the beneficiary level.
- Demographic characteristics: Obtained from the Medicare Denominator File.
- Socioeconomic characteristics of beneficiary's county of residence: U.S.
  Census estimates of county-level characteristics based on 2023 American
  Community Survey are used. The 2023 Rural-Urban Continuum Codes
  were used to classify counties as urban vs. rural.
- Clinical characteristics: Charlson comorbidity index and number of CCs and MCCs are measured using diagnostic information from all inpatient, outpatient, and carrier claims that a patient had in a given year.

# Methodology: Descriptive Analysis

- Prior utilization was examined at the visit level.
- Prior utilization within 90 days prior to HOPD or IPO visit
  - Emergency Department utilization: Emergency Department use is identified by revenue center codes 0450-0459, and 0981 in outpatient and inpatient claims files.
  - Inpatient hospital utilization

# Methodology: Statistical Analysis

- Differences between HOPDs and IPOs in terms of patient characteristics:
  - T-tests were conducted to assess differences in average characteristics between the two settings using data from all years (2018Q4-2024Q2)
- All differences between HOPDs and IPOs presented in this report are statistically significant at the 0.1% level.