# Access Barriers to Antiseizure Medications and Neurologists: **Effects on Epilepsy Stakeholder Experiences**

? QUESTION

to access ASMs at

index or follow-up

in proximity to

ASM, antiseizure medication; HCP, healthcare profession

**E** CONCLUSIONS

Medicaid (n=24,335)

**POST-INDEX EPILEPSY-RELATED HCRU AND COSTS** 

ASM, antiseizure medication; HCRU, healthcare resource use; ICD-9/10-CM, International Classification of Diseases, Ninth/Tenth Edition, Classical Modification

and <8% used third-generation ASMs.

**Pharmacy, %** 93.6 90.5 94.3

third-generation ASMs with restrictions.

**ASMs with access restrictions** 

NO. OF

access restrictions

**6000** 

**4000** 

ASM, antiseizure medication; USD, US dollars

What is the impact of insurer access restrictions on stakeholder

■ Epilepsy-treating neurology HCP
■ Non-neurology HCP

Commercial

(N=35,351)

Commercial (n=34,637)

COMMERCIAL

Number of third-generation ASMs with restrictions: ■ 1 - low number of restricted products

(n=3590) (n=283) (n=1155) (n=18,218) (n=1631) (n=8711) (n=10,797) (n=334) (n=243)

1155 | 18,218 | 1631 | 8711 | 10,797 | 334

96.2 94.7 94.2 95.1 95.5 96.3

0 - no restrictions

4 - high number of restricted products

• Of patients with formulary data, >80% were prescribed second-generation ASMs, primarily generic;

Percentage of patients with epilepsy-related HCRU by number of third-generation

Total epilepsy-related healthcare costs by number of third-generation ASMs with

• There were no notable differences in epilepsy-related HCRU/cost based on number (0-4) of

(N=24,722)

experiences of epilepsy-related care and treatment?

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# **Background**

 Patients with epilepsy may not receive the antiseizure medications (ASMs) they need due to insurance restrictions<sup>1,2</sup> and limited access to neurology healthcare professionals (HCPs).<sup>3</sup>

# **Objective**

 To understand the impact of insurer access restrictions on stakeholder experiences of epilepsyrelated care and treatment.

# Methods

## **QUANTITATIVE STUDY**

- This retrospective longitudinal study identified adults in RWD Insights (an all-payer claims database) with ≥1 epilepsy diagnosis (*International Classification of Diseases [ICD]-9-Clinical Modification [CM]* codes: 345.4, 345.40, 345.41, 345.5, 345.50, 345.51, 345.7, 345.70, 345.71; *ICD-10-CM* codes: G40.0, G40.1, G40.2, G40.5) or ≥2 diagnoses for unspecified convulsions on different days (within 12 months) between January 1, 2014, and May 31, 2021.
- Patients insured with Medicaid, Commercial, or Medicare healthcare insurance, prescribed ≥1 ASM on or after initial diagnosis (first ASM date = index date) with continuous medical and pharmacy benefits for ≥12 months pre-index and post-index (follow-up).
- Outcomes: ASM use/restrictions, proximity (ZIP3 code) to/use of neurology HCP for epilepsy-related care; healthcare resource use (HCRU)/costs post-index. Epilepsy-related medical claims were identified by having an ICD-9/10-CM code for epilepsy in any position or Healthcare Common Procedure Code for an ASM. Pharmacy claims were epilepsy-related if patients had a National Drug Code for an ASM.
- For epilepsy-related post-index HCRU and costs (in 2021 US dollars), patients were stratified by number of third-generation ASMs with access restrictions (prior authorization/step therapy [range: 0-4]).

#### **OUALITATIVE STUDY**

- Stakeholder experiences were captured in qualitative interviews with HCPs and non-HCPs between January 13, 2023, and February 17, 2023
- 60-minute HCP interviews: primary care physicians, neurologists, epileptologists, and pharmacists. 30-minute non-HCP interviews: patients with epilepsy, caregivers, and patient advocates.
- Interview transcripts were assessed with a content analysis approach to identify key themes/insights.

## **Quantitative study results**

## **Patient baseline characteristics**

MEDICAID (N=24,722)	COMMERCIAL (N=35,351)	MEDICARE (N=33,339)
43.3 (13.2)	47.5 (13.7)	72.8 (8.2)
15,419 (62.4)	20,928 (59.2)	14,765 (44.3)
10,888 (44.0)	17,109 (48.4)	5865 (17.6)
7176 (29.0)	9589 (27.1)	9584 (28.7)
3582 (14.5)	4517 (12.8)	7642 (22.9)
3076 (12.4)	4136 (11.7)	10,248 (30.7)
	(N=24,722) 43.3 (13.2) 15,419 (62.4) 10,888 (44.0) 7176 (29.0) 3582 (14.5)	(N=24,722)     (N=35,351)       43.3 (13.2)     47.5 (13.7)       15,419 (62.4)     20,928 (59.2)       10,888 (44.0)     17,109 (48.4)       7176 (29.0)     9589 (27.1)       3582 (14.5)     4517 (12.8)

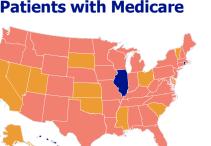
## PROPORTION RECEIVING INDEX ASM FROM NEUROLOGY HCP

#### **Patients with Medicaid Patients with Commercial**



ASM, antiseizure medication; HCP, healthcare professional



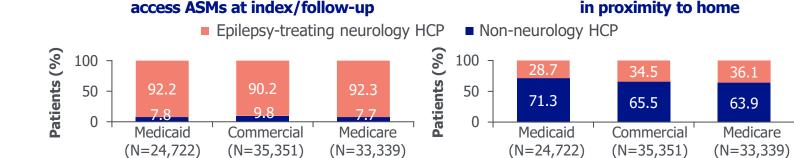


Access to neurology HCPs

- ASM, antiseizure medication; HCP, healthcare professional. = 520% = 21-30% = 31-40% = 41-100%
- For the majority of states, only 21-30% of patients with epilepsy with Medicaid or Medicare and 31-40% with Commercial healthcare insurance received their first ASM from a neurology HCP.

### **PROVIDER ACCESS BARRIERS**

**Utilization of neurology HCPs to** 



 Although >90% of patients with epilepsy in all insurance groups used a neurology HCP at index/follow-up, only 29-36% lived within proximity.

# **Overview**

# INVESTIGATION Retrospective longitudi

Percentage of patients with epilepsy-related HCRU by number of

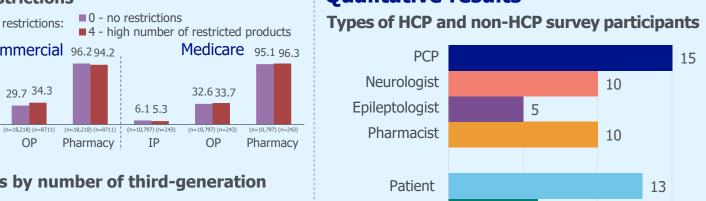
Total epilepsy-related healthcare costs by number of third-generation

third-generation ASMs with access restrictions

OP Pharmacy

- Retrospective, longitudinal, observational study that used real-world data from the all-payer claims database to capture patient characteristics, proximity from a neurology healthcare professional (HCP), and utilization of neurology HCPs to prescribe antiseizure medication (ASM) treatment for 12 months after first ASM prescription.
- Qualitative interviews were conducted in the United States (January and February 2023) and responses analyzed to highlight key themes and insights. Interviews were conducted with HCPs (primary care physicians, neurologists, epileptologists, and pharmacists) and non-HCPs (patients with epilepsy, caregivers, and patient advocates).

# **Oualitative results**



HCP, healthcare professional; PCP, primary care physician



**STAKEHOLDERS** 

Primary car



Play an outsized role in the

care of patients with epilepsy

and ongoing management.

Comfortable treating

straightforward cases

and prescribing older

Notify HCPs of insurance

navigate the insurance

approval process.

requirements, but do not

particularly for medication refills

(first-/second-generation) ASMs.

# Rural patients distance for specialized care

**GEOGRAPHY** 



## physicians for ASM refills and ongoing management Lack training, time, and resources to navigate insurance appeals process

**Challenges for HCPs treating epilepsy** 

High reliance on

physician-directed care

Specialists invest time appealing insurance rejections, which can take up to 6 weeks. This is a frustrating

more reliable are typically able to get in to see someone [a neurologist] a lot sooner, and those that have, for example, Medicaid or sort of lower-tier insurance plan, they sometimes may have trouble to get into an office. Not all the offices, obviously, but some of the offices are pretty selective on which payers they accept.' - PCP

I would say people who have private insurances that are a little

'Medication-wise, I think commercial probably they can get the medications sooner. I mean for those medications we need prior authorization, probably they can get those medications sooner, and for Medicaid, probably it takes us a

longer time, sometimes 2 weeks or even 1 month later

[for patients to get their meds].' - PCP

INSURANCE APPROVAL PROCESS

- This is a frustrating process for specialists to go through.

accessing ASMs than patients with commercial insurance.

compared with commercially insured patients:

CHALLENGES FOR MEDICARE AND MEDICAID PATIENTS

prescribing newer ASMs as a result.



### Treatment delay

Limited or delayed access to specialists means Medicaid patients are more likely to experience delays in ASM initiation or specialist-driven treatment changes.

Access to fewer specialists

Not all specialists accept Medicaid

Patients with this insurance have less

choice in the specialists they can see.

## Fewer treatment options

High drug costs and lack of formulary coverage mean newer branded ASMs are often not available for Medicaid patients.

#### 'For most of the state [Medicaid] patients that I see, there are likely fewer options and more prior auths [authorizations]. For the Medicare, of course there's a lot of different versions of Medicare, supplemental plans and Advantage plans, but it's pretty similar to commercial as far as Medicare.' - PCP

PCP, primary care physician.

# **Conclusions**

 Claims data revealed limited neurologist access and predominant use of second-generation ASMs but no notable impact of ASM access restrictions on HCRU and costs. In contrast, access restrictions impacted stakeholder groups.

PCPs and specialists handle insurance rejections differently in terms of investment in the appeals process

• The appeals process can add up to 6 weeks of treatment delay and is more likely to affect Medicaid

• Many HCPs (n=21) reported that patients insured with Medicare or Medicaid have more difficulty

Medicaid patients are more likely to experience treatment delays and have fewer treatment options

- PCPs lack training, time, and resources to navigate the insurance appeals process, and often avoid

- Ideally, ASM selection is based on optimizing individual outcomes rather than minimizing restrictions/denials; however, interviews revealed barriers to optimizing treatment and accessing
- Future research may identify patient subgroups at risk of negative impact from access restrictions.

Patients face many barriers accessing specialist care, driven, in part, by a dearth of neurologists.

Patients living in rural areas may

not have ready access to specialized

neurology or epileptology care, which

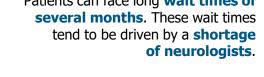
can require that they **travel several** 

for specialized care. As many

challenge is exacerbated.

epilepsy patients cannot drive, this

hours to larger academic centers



Patients and caregivers





Primary care physicians (PCPs) in this study share that some local neurology practices accept few to no Medicaid-insured patients, leaving this patient population to forgo specialist care or travel long distances to see a neurologist who will accept their insurance.

Diagnose epilepsy and

treat complex cases.

initial ASM.

of specialists.

Help patients with

copay assistance

organizations).

for ASMs (via bridge

programs, pharmaceutical

companies, or charitable

transport and

Most often prescribe the

Associated with long wait

times driven by a shortage

Virtual visits gained momentum during the COVID-19 pandemic, and telehealth continues to ease travel burden for patients; however, some specialists say their networks nov limit telemedicine visits, as these are reimbursed at a lower rate than in-person visits.

# **TELEHEALTH**

**MEDICAID** 

## References

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3. Centers for Disease Control and Prevention (CDC). MMWR Morb Mortal Wkly Rep 2012;61(45):909-913

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MA, USA & Virtual, April 22–23, 2023, and the AMCP Nexus 2023 Annual Congress, Orlando, FL, USA, October 16–19, 2023

## **Qualitative study results** Utilization of first-, second-, and third-generation ASMs, and rescue medication

Medicare (n=18,815)

Medicare

(N=33,339)

#### ■ First-generation ASMs ■ Second-generation ASMs ■ Third-generation ASMs ■ Rescue medication **INTERVIEW RESPONDENT CHARACTERISTICS**

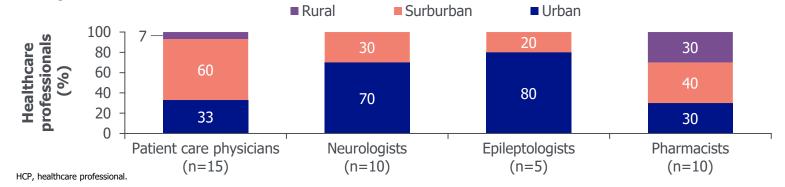
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• Claims data revealed limited neurologist access and predominant use of second-generation ASMs but no notable impact of ASM access restrictions on healthcare resource use and costs.

• Ideally, ASM selection is based on optimizing individual outcomes rather than minimizing restrictions/denials; however, interviews revealed barriers to optimizing treatment and accessing specialty care.

- Primary care physicians (n=15), neurologists (n=10), and epileptologists (n=5) had spent an average of 11, 12, and 15 years, respectively, in practice, and had 151, 586, and 617 patients with epilepsy,
- respectively, under their care. • Pharmacists worked in national retail chains (n=3), hospital pharmacies (n=2), or stand-alone independent pharmacies (n=5), with an average of 12, 12.5, and 16 years in practice, respectively.

## **HCP** practice location



INSURANCE TYPE	PRIMARY CARE PHYSICIAN	NEUROLOGISTS	EPILEPTOLOGISTS
Medicare, %	23	24	28
Medicaid, %	26	30	30
Commercial/private, %	37	36	36
Tricare/other military, %	4	6	2
Plan through ACA Marketplace, %	5	4	3
No insurance/uninsured, %	5	1	1

### Non-HCP respondent

- and 17 years, respectively.
- Medicaid only (n=2), Medicare only (n=2), and Affordable Care Act Marketplace (n=1). Among caregivers (n=6), insurance types were Commercial (n=3) and Medicaid (n=3).

# Physician epilepsy population by insurance type (% of patients)<sup>a</sup>

<sup>a</sup>Epilepsy Discussion Guide (neurologists and primary care physicians) question: 'How would you describe the demographics of your epilepsy patients as it relates to their age, sex, race,

• Patient respondents (n=13) had an average age, age at diagnosis, and epilepsy duration of 41, 26, Insurance types among patients were Commercial (n=5), Medicare and Medicaid (n=3),

Patient advocates (n=6) were either program directors (n=5) or case managers (n=1).