



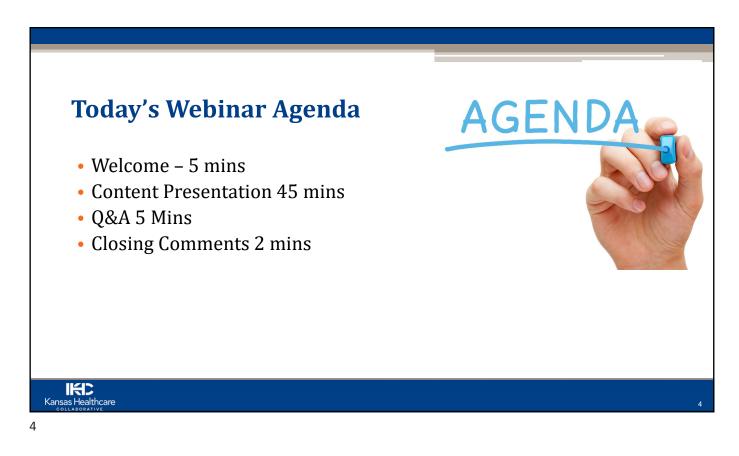


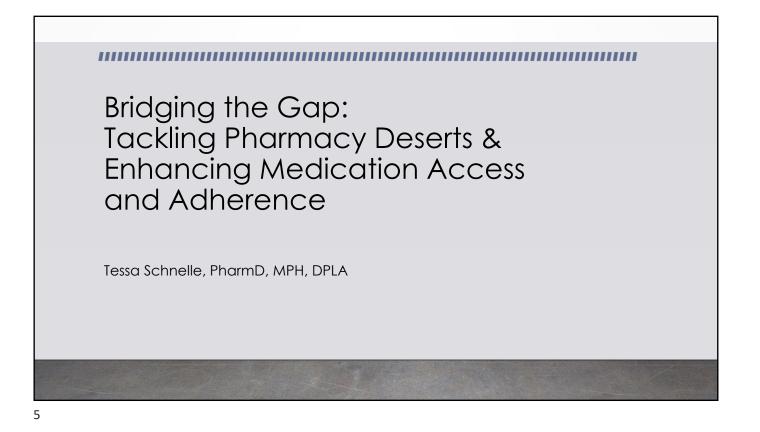
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Kansas Healthcare

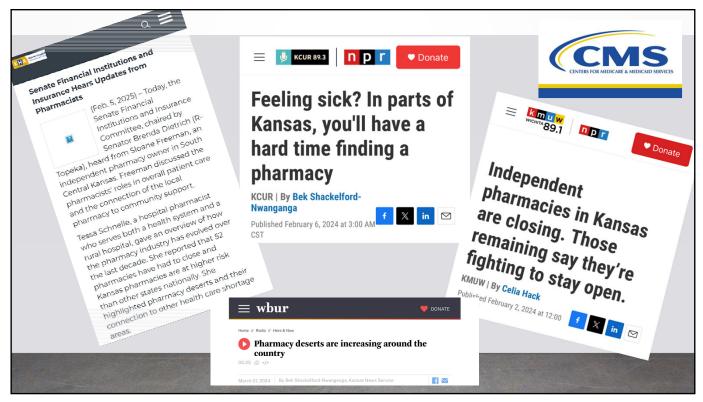




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	 Describe the role of the Pharmacy Benefits Manager
	 Define the term pharmacy desert
Objectives	 Understand the differences between medication access & adherence
	 Identify risk factors that have unique impacts on patients and rural Kansas communities
	 Differentiate between causal theories contribute to the increase in pharmacy deserts
	 Assess solutions addressing barriers to medication access.







	Parent/Owner	CVS Health Corporation	The Cigna Group	UnitedHealth Group Inc.	Humana Inc.	MedImpact Holdings Inc.	19 BlueCross BlueShield plans
	Drug Private Labeler	Cordavis Limited	Quallent Pharmaceuticals	NUVAILA			
	Health Care Provider	MinuteClinic, Signify Health	Evernorth Care Group	Optum Health	CenterWell		
FTC Releases Interim Staff Report on Prescription Drug Middlemen	Pharmacy Benefit Manager	CVS caremark	23x	Optum Rx [•]	Humana Iharmory Solutions.	Medimpact	PRIME 3s
Report details how prescription drug middleman profit at the expense of patients by inflating drug costs and	"PBM GPO"/ Rebate Aggregator	Zinc Health Services	Ascent Health Services	Emisar Pharma Services	Ascent (via contract)	Prescient Holdings Group LLC	Ascent (minority owner)
squeezing Main Street pharmacies	Pharmacy - Retail	CVS Pharmacy					
July 9, 2024 🛛 🕜 🗙 🖨	Pharmacy - Mail Order	CVS Caremark Mail Service Pharmacy	Express Scripts Pharmacy	Optum Rx Mail Service Pharmacy	CenterWell Pharmacy	Birdi, Inc.	Express Scripts Pharmacy (via contract)
	Pharmacy - Specialty	CVS Specialty Pharmacy	Accredo	Optum Specialty Pharmacy	CenterWell Specialty Pharmacy	Specialty by Birdi	Accredo (via contract)
	Health Insurer	Aetna	Cigna Healthcare	UnitedHealthcare	Humana		19 BlueCross BlueShield plans
						n Staff Report on	Prescription Dru

Pharmacy Desert vs Network Adequacy

Pharmacy Desert:

A pharmacy shortage area where the distance to a pharmacy is greater than 10 miles in a rural area, 2 miles in a suburban area, 1 mile for urban areas and a half-mile in neighborhoods that are low income and have low vehicle ownership.

Network Adequacy:

Is a regulatory measure used to ensure that health plans network contains an adequate number of providers to provide medically necessary services and access in a timely manner.

7/23/2025



Medication Access vs Medication Adherence

Medication Access:

The ability for a patient to get the correct medication for their healthcare needs, at a price that they can afford and in adequate quantities.

Common barriers to medication access include: navigating insurance, medication costs, and physical access to medications.

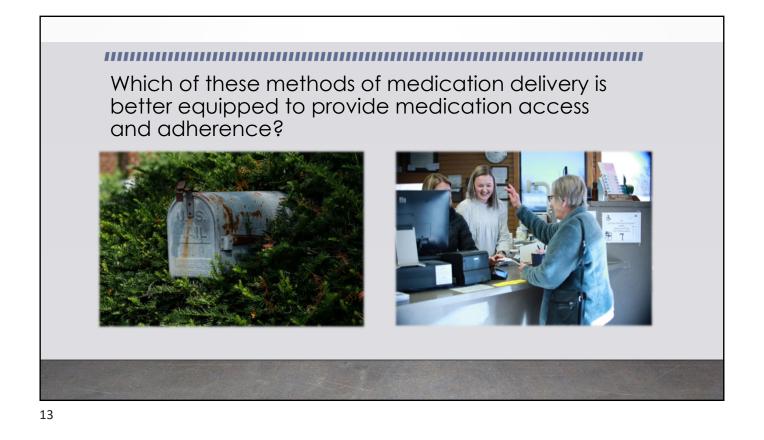
Medication Adherence:

The extent to which a person's behavior corresponds with taking a medicine optimally.

Common barriers to medication adherence include: fear, cost,

misunderstanding, polypharmacy, lack of symptoms, mistrust, worry, depression.

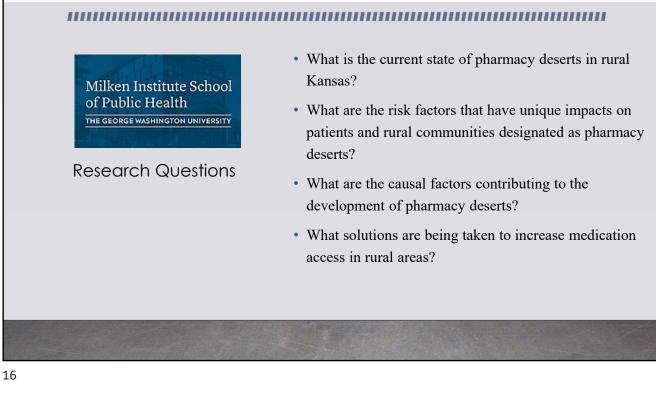
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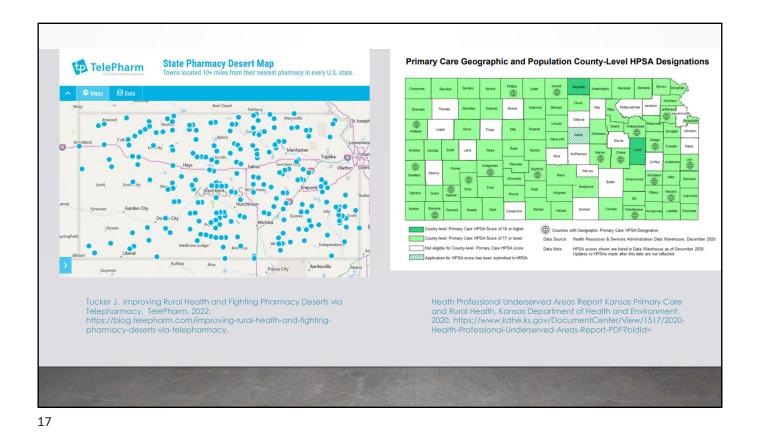


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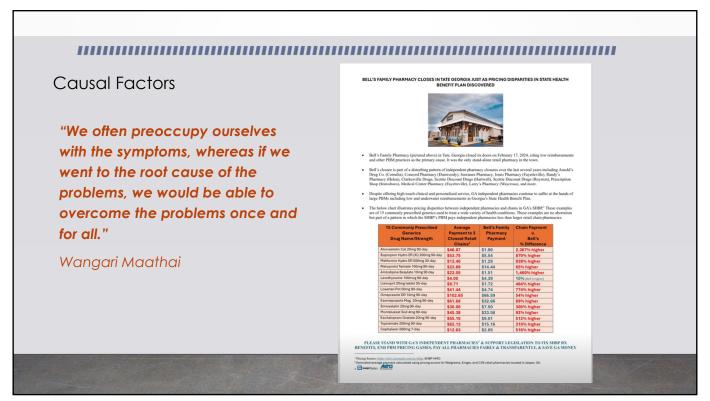
KHC Office Hours - Bridging the Gap: Tackling Pharmacy Deserts & Enhancing Medication Access and Adherence



As of February 2024, 210 towns in Kansas that met the criteria of a rural pharmacy desert. The furthest distance a town was from their nearest pharmacy was Matfield, Kansas, 25 miles from their local pharmacy. The average number of miles between a town classified as a pharmacy desert and their pharmacy was 13.3 miles. Of the 63 Governor designated medically underserved areas (MUA) in Kansas a total of 73% contained at least one pharmacy deserts in Kansas are located in a MUA. Approximately 58% of the pharmacy deserts in Kansas are located in a Primary Care Health Provider Shortage Area (HPSA).



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Proposed Solutions



- 1) Stabilize a currently unstable pharmaceutical economic market would be to implement health policy and regulatory reforms
- 2) Utilize innovative solutions in areas where pharmacy deserts already exist
- 3) Stabilize the pharmacy workforce





R	eferences
1.	Knox RP, Gagneja D, Kraschel KL. Independent Pharmacies Gain Unanimous Victory in Recent US Supreme Court Case. JAMA Health Forum.
2.	2021;2(2):e210171. doi:10.1001/jamahealthforum.2021.0171 Nguyen A, Meijgaard JV, Kim S, Marsh T. Mapping Healthcare Deserts 80% of the Country Lacks Adequate Access to Healthcare. The GoodRx
	Research Team. September 2021. https://assets.ctfassets.net/4f3rgqwzdznj/1XSI43I40KXMQiJUtl0iIq/ad0070ad4534f9b5776bc2c41091c321/GoodRx_Healthcare_Deserts_White_P
3.	aper.pdf Danziger PN. Drugstore Downsizing: CVS, Walgreens And Rite Aid To Close Nearly 1,500 Stores. News Report. Forbes. September 27, 2023. Accessed October 15, 2023. https://www.forbes.com/sites/pamdanziger/2023/09/27/drugstore-downsizing-cvs-walgreens-and-rite-aid-to-close- nearly-1500-stores/
4.	Kansas Department of Health and Environment Primary Care and Rural Health. Shortage/Underserved Areas Designations. kdhe.ks.gov. August
5.	21, 2023. Accessed October 15, 2023. https://www.kdhe.ks.gov/DocumentCenter/View/1525 Mattingly TJ 2nd, Hyman DA, Bai G. Pharmacy Benefit Managers: History, Business Practices, Economics, and Policy. JAMA Health Forum. 2023;4(11):e233804. Published 2023 Nov 3. doi:10.1001/jamahealthforum.2023.3804
6.	Fein AJ. The 2025 Economic Report on U.S. Pharmacies and Pharmacy Benefit Managers. Drug Channels Institute. 2025. Accessed July 17, 2025. https://www.drugchannels.net/2025/03/now-available-2025-economic-report-on.html
7.	2025. https://www.drugenannets.net/2025/05/now-available-2025-economic-report-on.html Knox RP, Gagneja D, Kraschel KL. Independent pharmacies gain unanimous victory in recent US supreme court case.JAMA Health Forum. 2021;2(2):e210171. doi:10.1001/jamahealthforum.2021.0171
8.	FTC launches inquiry into prescription drug middlemen industry. Federal Trade Commission. June 7, 2022. Accessed November 6, 2023. https://www.ftc.gov/news-events/news/press-releases/2022/06/ftc-launches-inquiry-prescription-drug-middlemen-industry
9.	Prescription for disaster: America's broken pharmacy system in revolt over burnout and errors. USA Today. October 26, 2023. Accessed November 6, 2023. https://www.usatoday.com/story/news/investigations/2023/10/26/pharmacy-chains-dangerous-conditions-medication- errors/71153960007/
10.	Pharmacist Prescribing: "Test and Treat." National Alliance of State Pharmacy Associations. October 10, 2022. Accessed November 6, 2023. https://naspa.us/blog/resource/pharmacist-prescribing-for-strep-and-flu-test-and-treat/





............. References 21. Adepoju OE, Kiaghadi A, Shokouhi Niaki D, Karunwi A, Chen H, Woodard L. Rethinking access to care: A spatial-economic analysis of the potential impact of pharmacy closures in the United States. PLoS One. 2023;18(7):e0289284. Published 2023 Jul 27. doi:10.1371/journal.pone.0289284 Constatantin J, Ullrich F, Mueller K. Rural and Urban Pharmacy Presence – Pharmacy Deserts. RUPRI Center for Health Policy Analysis. Rural Policy Brief No. 2022-1. 2022. Accessed February 24, 2024. https://rupri.publichealth.uiowa.edu/publications/policybriefs/2022/Pharmacy%20Deserts.pdf 23. Yost, D. Support for Reforming Pharmacy Benefit Managers. National Association of Attorneys General. Published 2024 Feb 24. Accessed February 25, 2024. https://www.ohioattorneygeneral.gov/Files/Briefing-Room/News-Releases/PBM-Letter- NAAG-Letterhead-Final.aspx. Population Over Age 65 in 2022. Kansas Health Matters. 2024. Accessed February 24, 2024. 24. https://www.kansashealthmatters.org/indicators/index/view?indicatorId=374&localeTypeId=2&periodId=246 25. Hernandez I, Tang S, Morales J, et al. Role of independent versus chain pharmacies in providing pharmacy access: a nationwide, individual-level geographic information systems analysis. Health Aff Sch. 2023;1(1):qxad003. doi:10.1093/haschl/qxad003 26. Grabenstein JD. Essential services: Quantifying the contributions of America's pharmacists in COVID-19 clinical interventions. J Am Pharm Assoc (2003). 2022;62(6):1929-1945.e1. doi:10.1016/j.japh.2022.08.010 Laws and Regulations. Kansas Board of Pharmacy. 2023 Jun. Accessed February 24, 2024. https://pharmacy.ks.gov/statutes-regs/statutes-regs. DiPietro Mager NA, Zollinger TW, Turman JE Jr, Zhang J, Dixon BE. Routine Healthcare Utilization Among Reproductive-Age Women Residing in a Rural Maternity Care Desert. J Community Health. 2021;46(1):108-116. doi:10.1007/s10900-020-00852-6 29. Azad A, Su J, Nguyen M, et al. Pharmacist furnishing of hormonal contraception in California's Central Valley. J Am Pharm Assoc (2003). 2024;64(1):226-234.e2. doi:10.1016/j.japh.2023.08.005 30. Romero L, Sappenfield OR, Uesugi K, et al. Review of Publicly Available State Policies for Long-Acting Reversible Contraception Device Reimbursement. J Womens Health (Larchmt). 2022;31(7):1048-1056. doi:10.1089/jwh.2021.0361

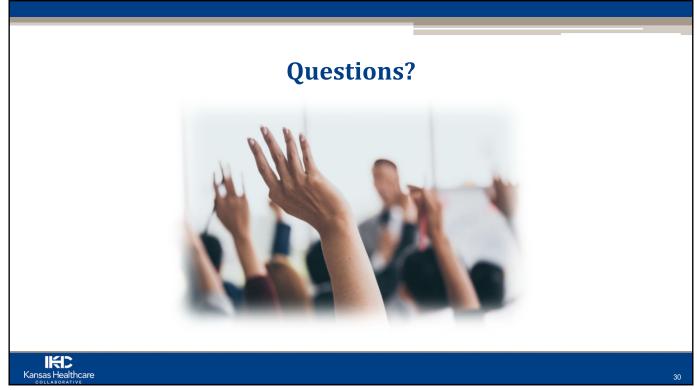
 Burde A, O'Connor S, Hachey D. Community Pharmacy Enhanced Dispensing Model to Improve Medication Access for Rural Patients Livin with HIV. Innov Pharm. 2019;10(4):10.24926/ijp.v10i4.2264. Published 2019 Oct 31. doi:10.24926/ijp.v10i4.2264 Bennett AS, Elliott L. Naloxone's role in the national opioid crisis-past struggles, current efforts, and future opportunities. Transl Res. 2021;234:43-57. doi:10.1016/j.trsl.2021.03.001 Qato DM, Alexander GC, Chakraborty A, Guadamuz JS, Jackson JW. Association Between Pharmacy Closures and Adherence to Cardiovasc Medications Among Older US Adults. JAMA Netw Open. 2019;2(4):e192606. Published 2019 Apr 5. doi:10.1001/jamanetworkopen.2019.26 Goyette D, Disco ME, Leal S, Schwed DH. The pharmacist as a primary care provider for the medically underserved. J Am Pharm Assoc (200 2003;43(5 Suppl 1):552-553. doi:10.1331/154434503322612483
 Bennett AS, Elliott L. Naloxone's role in the national opioid crisis-past struggles, current efforts, and future opportunities. Transl Res. 2021;234:43-57. doi:10.1016/j.trsl.2021.03.001 Qato DM, Alexander GC, Chakraborty A, Guadamuz JS, Jackson JW. Association Between Pharmacy Closures and Adherence to Cardiovasc Medications Among Older US Adults. JAMA Netw Open. 2019;2(4):e192606. Published 2019 Apr 5. doi:10.1001/jamanetworkopen.2019.26 Goyette D, Disco ME, Leal S, Schwed DH. The pharmacist as a primary care provider for the medically underserved. J Am Pharm Assoc (20)
 2021;234:43-57. doi:10.1016/j.trsl.2021.03.001 Qato DM, Alexander GC, Chakraborty A, Guadamuz JS, Jackson JW. Association Between Pharmacy Closures and Adherence to Cardiovasc Medications Among Older US Adults. JAMA Netw Open. 2019;2(4):e192606. Published 2019 Apr 5. doi:10.1001/jamanetworkopen.2019.26 Goyette D, Disco ME, Leal S, Schwed DH. The pharmacist as a primary care provider for the medically underserved. J Am Pharm Assoc (200)
Medications Among Older US Adults. JAMA Netw Open. 2019;2(4):e192606. Published 2019 Apr 5. doi:10.1001/jamanetworkopen.2019.26 34. Goyette D, Disco ME, Leal S, Schwed DH. The pharmacist as a primary care provider for the medically underserved. J Am Pharm Assoc (200
34. Goyette D, Disco ME, Leal S, Schwed DH. The pharmacist as a primary care provider for the medically underserved. J Am Pharm Assoc (20)
35. Rodis JL, Capesius TR, Rainey JT, Awad MH, Fox CH. Pharmacists in Federally Qualified Health Centers: Models of Care to Improve Chro
Disease. Prev Chronic Dis. 2019;16:E153. Published 2019 Nov 21. doi:10.5888/pcd16.190163
 Pathak S, Haynes M, Qato DM, Urick BY. Telepharmacy and Quality of Medication Use in Rural Areas, 2013-2019. Prev Chronic Dis. 2020;17:E101. Published 2020 Sep 3. doi:10.5888/pcd17.200012
37. Knox RP, Kesselheim AS, Sarpatwari A. Risks to the 340B Drug Pricing Program Related to Manufacturer Restrictions on Drug Availability
[published correction appears in JAMA. 2022 Sep 20;328(11):1111]. JAMA. 2022;327(17):1647-1648. doi:10.1001/jama.2022.5959
 Antrim A. Despite Rapid Growth of Institutions, Pharmacy School Applications Decline. Pharmacy Times 2023;17:1. Published 2023 Apr 5. Accessed February 24, 2024. https://www.pharmacytimes.com/view/despite-rapid-growth-of-institutions-pharmacy-school-applications-declines-pharmacy-scho
39. Chappell B. Have a complaint about CVS? So do pharmacists: Many just walked out. npr.org. 2023 Sept 29. Accessed February 24, 2024.
https://www.npr.org/2023/09/29/1202365487/cvs-pharmacists-walkout-protest
 Carter M. Nurse-midwives in federally funded health centers: understanding federal program requirements and benefits. J Midwifery Women: Health. 2012;57(4):365-370. doi:10.1111/j.1542-2011.2012.00194.x

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References 41. Shi L, Wharton MK, Monnette A. Ensuring access to prescription medications in the post-ACA healthcare access landscape: the essential role of FQHCs in the safety net for the underinsured. Am J Manag Care. 2018;24(5 Suppl):S67-S73. 42. Ackroyd SA, Shih YT, Kim B, Lee NK, Halpern MT. A look at the gynecologic oncologist workforce - Are we meeting patient demand?. Gynecol Oncol. 2021;163(2):229-236. doi:10.1016/j.ygyno.2021.08.013 43. Elma A, Nasser M, Yang L, Chang I, Bakker D, Grierson L. Medical education interventions influencing physician distribution into underserved communities: a scoping review. Hum Resour Health. 2022;20(1):31. Published 2022 Apr 7. doi:10.1186/s12960-022-00726-z 44. Wheeler DL, Hackler JB. Preparing Physicians for Rural-Based Primary Care Practice: A Preliminary Evaluation of Rural Training Initiatives at A. Wheeler DL, Hacker JD. Feparing infysical infysical for Ratar Plantace Transfer Fuelce. A Ferninning Evaluation of Ratar Flanting Infratavio OSU-COM. J Am Osteopath Assoc. 2017;117(5):315-324. doi:10.755/jaoa.2017.057 45. Scott MA, Kiser S, Park I, Grandy R, Joyner PU. Creating a new rural pharmacy workforce: Development and implementation of the Rural Pharmacy Health Initiative. Am J Health Syst Pharm. 2017;74(23):2005-2012. doi:10.2146/ajhp160727 46. Population Health and Practice Development Pharmacy Fellowship. Avant Institute. 2024. Accessed February 24, 2024. https://www.avantinstitute.com/fellowship 47. Miracle DK, Smith N, Slavova S, et al. Drug disposal deserts: An assessment of receptacle availability in Kentucky community pharmacies. J Rural Health. 2024;40(1):208-214. doi:10.1111/jrh.12786 48. Weigel P, Ullrich F, Mueller K; Rural Health Research & Policy Centers; RUPRI Center for Rural Health Policy Analysis, University of Iowa College of Public Health, Department of Health Management and Policy. Demographic and economic characteristics associated with sole county pharmacy closures, 2006-2010. Rural Policy Brief. 2013;(2013 15):1-4. Published 2013 Nov 1. 49. Lemley KB, Marks B. Patient satisfaction of young adults in rural clinics: policy implications for nurse practitioner practice. Policy Polit Nurs Pract. 2009;10(2):143-152. doi:10.1177/1527154409341882 50. Chadwick DG, Hupp JR. East Carolina University School of Dentistry: impact on access disparities. J Am Coll Dent. 2008;75(4):35-41.

51.	Klepser DG, Xu L, Ullrich F, Mueller KJ. Trends in community pharmacy counts and closures before and after the implementation of Medicare
52.	part D. J Rural Health. 2011;27(2):168-175. doi:10.1111/j.1748-0361.2010.00342.x Todd K, Westfall K, Doucette B, et al. Causes and consequences of rural pharmacy closures: a multi-case study. Rural Policy Brief. 2013;(2013
	11):1-4. Published 2013 Aug 1.
53.	Todd K, Ullrich F, Mueller K; RUPRI Center for Rural Health Policy Analysis, University of Iowa College of Public Health, Department of Health Management and Policy. Rural pharmacy closures: implications for rural communities. Rural Policy Brief. 2013;(2012 5):1-5. Published 2013 Jan 1.
54.	Salako A, Ullrich F, Mueller KJ. Update: Independently Owned Pharmacy Closures in Rural America, 2003-2018. Rural Policy Brief. 2018;2018(2):1-6. Published 2018 Jul 1.
55.	Nattinger M, Ullrich F, Mueller KJ; Rural Health Research & Policy Centers; Rural Policy Research Institute, RUPRI Center for Rural Health Policy Analysis, University of Iowa College of Public Health, Department of Health Management and Policy. Characteristics of Rural Communities with a Sole, Independently Owned Pharmacy. Rural Policy Brief. 2015;(2015 6):1-4. Published 2015 Apr 1.
56.	Boyle K, Ullrich F, Mueller K. Independently owned pharmacy, Rural Policy Brief. 2015;(2015/6):1-4. Published 2015 Apr 1. Boyle K, Ullrich F, Mueller K. Independently owned pharmacy closures in rural America. Rural Policy Brief. 2012;(2012/4):1-4. Published 2012 Jul 1.
57.	FTC Releases Interim Staff Report on Prescription Drug Middlemen. Federal Trade Commission. July 9, 2024. Accessed September 15, 2024. https://www.ftc.gov/news-events/news/press-releases/2024/07/ftc-releases-interim-staff-report-prescription-drug-middlemen
58.	Meinzer B, Healy A, Arnold A. Navigating Barriers to Medication Access. Cardi-OH.org. April 2022. Accessed September 15, 2024. https://www.cardi-oh.org/files/resources/cardi-oh-navigating-barriers-to-medication-access.pdf
59.	8 reasons patients don't take their medications. American Medical Association. AMA.org. February 22, 2023. Accessed September 15, 2024. https://www.ama-assn.org/delivering-care/physician-patient-relationship/8-reasons-patients-dont-take-their-medications









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