

UNIVERSITY OF SYDNEY BUSINESS SCHOOL

INQUIRY INTO THE HEALTH IMPACTS OF ALCOHOL AND OTHER DRUGS IN AUSTRALIA

SUBMISSION

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By way of introduction, I am a PhD student with the University of Sydney Business School. My research is focused on the availability of alcohol and its impact on acute social harms (e.g. violence). While my research is in its early stages, I have made several observations regarding the existing evidence base in the literature that will be relevant to this inquiry, which I outline below.

Prior to my status as a PhD student, I have worked 30 years in marketing research and strategy consulting roles in Australia and overseas. Leisure and tourism were one of my specialty areas, and I believe that alcohol availability and consumption plays an important role in a healthy and vibrant leisure and tourism industry.

The links between alcohol availability, consumption and acute social harms

Firstly, there are two primary measures of alcohol availability in the literature that are associated with various impacts of alcohol consumption: the number of alcohol licensees and the tax rate applied to alcohol. The number of licensees features as a measure in the public health literature, while tax rates are principally discussed in the economics literature.

Drawing on epidemiological evidence in the public health literature, alcohol availability has been associated with a range of harmful outcomes, such as crime (e.g. Cameron, 2022), hospital admissions (e.g. Maheswaran et al., 2018), motor vehicle accidents (e.g. Lipton et al., 2021), self-harm (e.g. Lester et al., 1993), and so forth. There are 28 alcohol availability studies published since 2018, summarised in Table 1. Thirteen of these studies examine the association between physical availability and claimed alcohol consumption, a further nine investigate the association with violence reports, and a minority focus on the associations with injury and MVAs (two of each). This indicates that violence is the primary harm being examined in the availability research, with less evidence available for other harms that are associated with alcohol consumption. Nonetheless, all these research papers demonstrate a positive association between the physical availability of alcoholic beverages in the area of interest and the outcome measure (claimed consumption or consumer harms).

Table 1: Summary of Academic Alcohol Availability Research, 2018-2023

Table 1: Summa																		
	Availability				L	License Outcome Measured Country of I									Rese	earch		
		Mea	sure			Туре												
Study																		
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	Number of Outlets	2									Vehicle Accidents							
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	þei	Opening Hours	Capacity	Survey	On Premises	Off Premises	Not defined	Consumption	Violence	_	<u>e</u>	_			Australia	New Zealand	Denmark	South Africa
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Amiri et al.																		
(2020)	•				•	•						•	•					
Àuchincloss								_										
et al. (2022)	•					•		•					•					
Calvert et al.	•								•									
(2020)									•									
Cameron	•				•	•			•							•		
(2022)						-			-							•		
Colbert et al.				•			•	•							•			
(2023) Foster et al.																		
(2020)	•				•	•		•							•			
Freisthler																		
and																		
Wernekinck	•				•	•		•					•					
(2022)																		
García-																		
Ramírez et	•				•	•		•					•					
al. (2021)																		
Gorman et	•					•			•									
al. (2018)						•			•									
Grossman et				•		•		•					•					
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Gruenewald	•				•	•						•	•					
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(2021)				•	•	•		•								•		
Lardier et al.																		
(2021)	•				•	•			•				•					
Lipton et al.																		
(2021)	•				•	•					•		•					
Londani et				_		_												_
al. (2021)				•	•	•												•
Maheswaran	•				•	•				•				•				
et al. (2018)	_				-	-				-				-				
Miller et al.			•		•				•						•			
(2021)																		
Morrison et al. (2019)	•				•	•		•					•					
Noel &																		
Rosenthal				•			•	•			•							
(2023)				-			-				•							
Pear et al.																		
(2023)	•				•	•						•	•					
Phillips et al.																		
(2023)	•				•	•		•					•					

	Availability Measure				L	icens Type		Oı	utcon	ne Me	easur	ed	Country of Research						
Study			,,																
	Number of Outlets	Opening Hours	Capacity	Survey	On Premises	Off Premises	Not defined	Consumption	Violence	Injury	Vehicle Accidents	Other	USA	UK	Australia	New Zealand	Denmark	South Africa	
Pliakas et al. (2018)	•	•			•	•			•	•				•					
Rossheim et al. (2018)	•				•	•						•	•						
Seid et al. (2018)	•				•	•		•				•					•		
Slutske et al. (2018)	•				•	•		•				•	•						
Subica et al. (2018)	•					•			•				•						
Trangenstein et al. (2018)	•				•	•			•				•						
Wang et al. (2022)		•				•			•						•				

Problems with the availability evidence base

Consumer access to alcoholic beverages is determined by licensee density, the opening hours of licensees and the venue capacity (for on premises consumption). However, each of these individual factors is dealt with in separate research papers; no paper seeks to understand the combined effects of these factors on alcohol consumption, or the acute social harm associated with alcohol consumption.

Thus, the public health literature does not reflect the reality experienced by consumers, which represents a potential bias in the evidence base linking alcohol availability to acute social harms.

Further, those papers that examine the association of alcohol availability with alcohol consumption are primarily dependent on survey responses as a measure of consumption or intended consumption. Survey responses are recognised to be low validity measures in epidemiological research, yet it forms the foundation for the measurement of alcohol consumption. This continues despite the availability of other potentially stronger consumption proxies, such as wastewater data, warehouse data and panel data.

Thus, the public health literature relies on low validity measures of alcohol consumption.

There is also fragmentation in the literature, in that no single study demonstrates an association between alcohol availability, alcohol consumption and acute social harms. These studies demonstrate links between alcohol availability and claimed alcohol consumption (although there are further problems with this as discussed above) or alcohol availability and harmful outcomes, but not all three together. In the later case, establishing an association between alcohol availability and harmful outcomes, without establishing associations with consumption, undermines the argument that increased alcohol availability encourages increased alcohol consumption which, in turn, contributes to increased acute social harms in society (as theorised by Single, 1988).

Thus, the public health literature has not established the link between alcohol availability, consumption and harmful outcomes.

Studies that demonstrate growth in alcohol availability over time can be reported in one of two forms: the growth in the absolute measure of licensee density or per capita growth. Those studies that report on the absolute growth of licensed alcohol venues without reference to population growth ignore the natural demand component

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in the growth in supply. This biases both the results of the research and the narrative around the harms associated with alcohol availability.

Finally, the public health research also ignores alternative explanations for the harms being associated with alcohol availability. For example, the criminology literature has suggested that growth in violence is associated with the growth of the total business environment (not simply the growth in alcohol venues), suggesting that the density of people in an area is a strong contributor to violent or crime outcomes (see Hipp, 2016; Askey et al., 2018; Wheeler, 2019).

Thus, the public health literature contains biases or ignores other relevant data important in understanding the links between alcohol availability and harmful outcomes.

The impact of limiting availability

Limiting availability through denying new or variations for existing alcohol licensees and trading hours restrictions of operation for alcohol licensees has had mixed results. While these measures have been associated with decreases in crime (e.g. Miller, 2015) and can in this context be interpreted as successful interventions against the objectives of the intervention, they have had other potentially less palatable consequences.

A recent news article has highlighted the impact on the business community of Sydney and the nightlife economy, stating that Sydney has become a city with a 9pm curfew (Molloy, 2024). Many comments by members of the public on the article lament restrictive policy as the cause of the loss of a once vibrant leisure and entertainment precinct for locals. This latest article is not unique, pointing to the lockout laws and other policy decisions eroding the vibrancy of Sydney (e.g. Madigan, 2024; Parkes-Hupton, 2024; Leeming et al., 2023).

Thankfully, this situation has not been echoed in other States of Australia to the same extent, which can be credited to less restrictive policy interventions (or dumping of policy interventions that had these unintended consequences).

Policy interventions prohibiting access to alcohol must be balanced with the entertainment and economic needs of residents, tourists and the business community. This is especially the case considering dining and wine experiences are a key pillar for attracting international tourists to Australia (Tourism Australia, 2022). Unfortunately, the existing public health research is a weak evidence base for informing policy given the substantial flaws identified above.

The links between alcohol tax, consumption and acute social harms

There are claims that increasing the prices of alcoholic beverages through various taxation interventions is associated with reductions in alcohol consumption and a range of consumer harms associated with alcohol consumption (e.g. Chaloupka et al. 2002; Anderson et al., 2009). Similarly, it has been found that lowering the price of alcoholic beverages through the relaxing of tax interventions led to an increase in overall alcohol related health harms and deaths in Finland (Lahtinen et al., 2023).

However, this may not always be true as a review of research using natural experiment methods by Nelson & McNall (2017) found inconsistent associations between alcohol tax interventions and a variety of consumption and harm outcomes. This review also found that much of the pricing research examined relies on consumer surveys (this is problematic due to biases discussed in the previous section).

As shown in Table 2, this literature review identified 15 studies investigating alcohol pricing since 2019. Of these, nine examine the associations between alcohol pricing and alcohol consumption, while only two studies explore associations of price to acute consumer harms (one with hospitalisation and one with MVAs). Of those studies examining consumption, five rely on survey data, two on sales data, one on consumer panel data and one on wastewater data. This indicates a lack of connection between the availability research, which has a stronger emphasis on the relationship between alcohol outlet density and social harms, and the body of alcohol pricing research, which has a stronger focus on alcohol consumption outcomes but less evidence relating to harms. Although of interest, there exists some research in the alcohol pricing domain that uses stronger consumption measures than surveys, such as consumer panel data and sales data.

Table 2: Summary of Academic Alcohol Pricing Research, 2018-2024

	mary of Acade Price Measures				Outcome Measures Consumption Countr Measurement (if relevant)									untry	ry of Research					
Study	Taxation	Minimum unit price	Retail price	Consumption	Death	Chronic health	Hospitalisations	Births	MVAs	Survey	Sales data	Panel data	Wastewater	USA	UK	Australia	Finland	Germany	China	Europe (general)
Gehrsitz et al. (2021) Gredner et al. (2021) Hu et al. (2023) Lahtinen et al. (2023) Llopis et al. (2023) Manca et al. (2023) Manca et al. (2024) Moore et al. (2022) Ng et al. (2022) O'Brien et al. (2021) Posti et al. (2019) Robinson et al. (2020) Rousselièr e et al. (2022) Shen et al. (2020) Taylor et al. (2023)	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Problems with the pricing evidence base

A potential problem with these models is they do not consider how different consumer segments may respond differently to price increases in the alcohol market. For example, consumers may shift their product choice to cheaper alternatives without changing their overall alcohol consumption levels (e.g. Gruenewald et al., 2006), particularly among heavy drinkers (Anderson et al., 2009); young consumers may be more loyal to preferred brands meaning price increases to those brands do not significantly change their consumption patterns (e.g. Albers et al., 2014; Jensen et al., 2017); for the wine category, price can act as a signal of product quality and price increases may have the reverse effect of making certain wines more desirable (Panzone, 2012); and when

alcohol is consumed with food any price changes are absorbed into the total cost of a meal, thus, having little to no effect on alcohol consumption in this setting (Moore et al., 2022).

In the economics literature there appears to be little connection made between the availability literature and pricing literature. There are connections between the two bodies of research regarding consumption as the outcome of interest, some of which may be very limited in their conclusions due to the biases relating to the reliance on survey methods in the measurement of alcohol consumption (discussed previously). There has been more interest in potential harms from alcohol consumption, such as violence and injury, in the recent availability literature but little focus on these outcomes in the pricing literature.

Thus, the economics literature does not account for substitution effects and mostly relies on low validity measures of alcohol consumption.

However, it is encouraging to see some economics research measuring consumption with sales, panel or wastewater data. These should be treated as proof of concept and public health researchers encouraged to consider these data sources to address weaknesses in their evidence base.

Difficulty in obtaining data for research in this domain

The weaknesses noted in the existing evidence base informing public policy relating to alcohol availability and pricing are largely due to a lack of alternative data sources for inclusion in the research, not any flaws in the researcher's approach. To support evidence-based decision making, weak evidence is better than no evidence.

In Australia, the lack of data available to support research in this domain is indicative of the appetite of Commonwealth and State Government agencies to collect, store and/or make available this data for research purposes. This inevitably leads to the risk of poor policy decisions that do not address the underlying issues and may result in unintended consequences.

For my own research there have been a number of challenges to access data for inclusion in the research. For example, the Australian Criminal Intelligence Commission (ACIC) has been collecting wastewater data, measuring alcohol and other drugs in certain catchment areas around Australia, since 2016. This is an excellent initiative, the results of which can be used as a consumption proxy in research and measure potential substitution effects in response to policy changes. However, when I attempted to contact the ACIC in June 2024 to communicate to the research team and seek more clarity on the wastewater data being collected, my request was rejected by the Webmaster and I have not been able to speak directly with the research team to date.

Similarly, when requesting more discrete data from the Australian Bureau of Statistics (ABS) around business and population statistics their approach was to quote tens of thousands of dollars to provide data. This makes access to good quality data to support academic research prohibitively expensive.

Another challenge is in comparing data that is held by State Government agencies. A lack of consistency in data collection and reporting on alcohol license details, alcohol warehouse data, crime statistics, hospital admissions and ambulance call outs, and motor vehicle accidents (MVAs) makes building a national picture of the impact of policy decisions on alcohol consumption and acute social harms extremely difficult, if not impossible.

Concluding Remarks

At present, the public health and economics academic research provides a weak evidence base to assist in public policy decision making. These research outcomes are often founded on low validity measures and have not established a link between availability, consumption and harms in the alcohol domain.

The Commonwealth Government, should as part of this inquiry, make strong recommendations around the collection and sharing of quality data that can be used in research to form a stronger evidence base for policy decisions around the health impacts of alcohol and other drugs in Australia.

This should include:

- Continuous fielding of public health surveys (which I understand the ABS is presently contemplating for the National Health Survey)
- Continued support for wastewater monitoring and greater willingness to collaborate with academic researchers with this data source

- Directing the States to collect and make available alcohol warehouse data (as Victoria currently does)
- Work with the States to consistently collect and report data on alcohol licensees
- Work with the States to consistently collect and report data on health and social outcomes of interest (including crime, chronic health conditions, hospitalisations and ambulance call outs, and MVAs)

This outcome will result in improved health outcomes for Australians and visitors to Australia, and strengthen both Government and business decision making around minimising the harms experienced by consumers from alcohol and other drugs.

References

- Albers, A. B., DeJong, W., Naimi, T. S., Siegel, M., & Jernigan, D. H. (2014). The relationship between alcohol price and brand choice among underage drinkers: Are the most popular alcoholic brands consumed by youth the cheapest? *Substance Use & Misuse*, *49*(13), 1833-1843. https://doi.org/10.3109/10826084.2014.935790
- Amiri, S., Lutz, R. B., McDonell, M. G., Roll, J. M., & Amram, O. (2020). Spatial access to opioid treatment program and alcohol and cannabis outlets: analysis of missed doses of methadone during the first, second, and third 90 days of treatment. *The American Journal of Drug and Alcohol Abuse*, *46*(1), 78-87. https://doi.org/10.1080/00952990.2019.1620261
- Anderson, P., Chisholm, D., & Fuhr, D. C. (2009). Alcohol and Global Health 2: Effectiveness and cost-effectiveness of policies and programmes to reduce the harm caused by alcohol. *The Lancet*, 373(9682), 2234. https://doi.org/10.1016/S0140-6736(09)60744-3
- Askey, A. P., Taylor, R., Groff, E., & Fingerhut, A. (2018). Fast food restaurants and convenience stores: Using sales volume to explain crime patterns in Seattle. *Crime and Delinquency*, *64*(14), 1836-1857. https://doi.org/10.1177/0011128717714792
- Auchincloss, A. H., Niamatullah, S., Adams, M., Melly, S. J., Li, J., & Lazo, M. (2022). Alcohol outlets and alcohol consumption in changing environments: prevalence and changes over time. Substance Abuse Treatment, Prevention and Policy, 17(1), 7-7. https://doi.org/10.1186/s13011-021-00430-6
- Calvert, C., Joshi, S., Erickson, D., McKee, P., Toomey, T., Nelson, T., & Jones-Webb, R. (2020). Effects of restricting high alcohol content beverages on crime in California. Substance Use & Misuse, 55(3), 481-490. https://doi.org/10.1080/10826084.2019.1686020
- Cameron, M. P. (2022). The relationship between alcohol outlets and crime is not an artefact of retail geography. *Addiction*, 117(8), 2215-2224. https://doi.org/10.1111/add.15880
- Chaloupka, F. J., Grossman, M., & Saffer, H. (2002). The effects of price on alcohol consumption and alcohol-related problems. *Alcohol Research & Health*, 26(1), 22-34.
- Colbert, S., Wilkinson, C., Thornton, L., Feng, X., Campain, A., & Richmond, R. (2023). Cross-sectional survey of a convenience sample of Australians who use alcohol home delivery services. *Drug and Alcohol Review*, *42*(5), 986-995. https://doi.org/10.1111/dar.13627
- Foster, S., Hooper, P., Divitini, M., Knuiman, M., & Trapp, G. (2020). Over the limit? Testing non-linear associations between alcohol outlets and young adults' alcohol consumption. *Drug and Alcohol Review*, 39(6), 664-670. https://doi.org/10.1111/dar.13115
- Freisthler, B., & Wernekinck, U. (2022). Examining how the geographic availability of alcohol within residential neighborhoods, activity spaces, and destination nodes is related to alcohol use by parents of young children. *Drug and Alcohol Dependence*, 233, 109352-109352. https://doi.org/10.1016/j.drugalcdep.2022.109352
- García-Ramírez, G., Paschall, M. J., & Grube, J. W. (2021). Retail availability of recreational marijuana and alcohol in Oregon Counties and co-use of alcohol and marijuana and related beliefs among adolescents. Substance Use & Misuse, 56(3), 345-352. https://doi.org/10.1080/10826084.2020.1858104
- Gehrsitz, M., Saffer, H., & Grossman, M. (2021). The effect of changes in alcohol tax differentials on alcohol consumption. *Journal of Public Economics*, 204, 104520.
- Gorman, D. M., Ponicki, W. R., Zheng, Q., Han, D., Gruenewald, P. J., & Gaidus, A. J. (2018). Violent crime redistribution in a city following a substantial increase in the number of off-sale alcohol outlets: A Bayesian analysis. *Drug and Alcohol Review*, *37*(3), 348-355. https://doi.org/10.1111/dar.12636
- Gredner, T., Niedermaier, T., Brenner, H., & Mons, U. (2021). Impact of reducing alcohol consumption through price-based policies on cancer incidence in Germany 2020–50—a simulation study. *Addiction*, *116*(7), 1677-1688. https://doi.org/10.1111/add.15335
- Grossman, E., Benjamin-Neelson, S., & Sonnenschein, S. (2022). Alcohiol consumption and alcohol home delivery laws during the COVID-19 pandemic. *Substance Abuse*, *43*(1), 1141-1146. https://doi.org/10.1080/08897077.2022.2060432

- Gruenewald, P. J., Ponicki, W. R., Holder, H. D., & Romelsjö, A. (2006). Alcohol prices, beverage quality, and the demand for alcohol: Quality substitutions and price elasticities. *Alcoholism, Clinical and Experimental Research*, *30*(1), 96-105. https://doi.org/10.1111/j.1530-0277.2006.00011.x
- Gruenewald, P., Sumetsky, N., Gaidus, A., Ponicki, W., Lee, J., & Mair, C. (2022). Assessing the impact of alcohol outlets on crime as a natural experiment: agglomeration, churning and spatial effects. *Addiction*, 117, 2614-2622. https://doi.org/10.1111/add.15914
- Hipp, J. R. (2016). General theory of spatial crime patterns. *Criminology*, *54*(4), 653-679. https://doi.org/10.1111/1745-9125.12117
- Hu, A., Zhao, X., Room, R., Hao, W., Xiang, X., & Jiang, H. (2023). The effects of alcohol tax policies on alcohol consumption and alcohol use disorders in Mainland of China: an interrupted time series analysis from 1961-2019. *The American Journal of Drug and Alcohol Abuse*, *49*(6), 746-755. https://doi.org/10.1080/00952990.2023.2280948
- Huckle, T., Parker, K., Romeo, J., & Casswell, S. (2021). Online alcohol delivery is associated with heavier drinking during the first New Zealand COVID-19 pandemic restrictions. *Drug and Alcohol Review*, 40, 826-834. https://doi.org/10.1111/dar.13222
- Jensen, B. B., Grønhøj, A., Godt, D., & Gadensgaard, B. (2017). Our priceless youth: What do they know about alcohol prices? *Journal of Macromarketing*, 37(3), 286-299. https://doi.org/10.1177/0276146717691799
- Lahtinen, H., Moustgaard, H., Ripatti, S., & Martikainen, P. (2023). Association between genetic risk of alcohol consumption and alcohol-related morbidity and mortality under different alcohol policy conditions: Evidence from the Finnish alcohol price reduction of 2004. *Addiction*, 118(4), 678-685. https://doi.org/10.1111/add.16118
- Lardier, D. T., Opara, I., Lin, Y., Roach, E., Herrera, A., Garcia-Reid, P., & Reid, R. J. (2021). A spatial analysis of alcohol outlet density type, abandoned properties, and police calls on aggravated assault rates in a Northeastern U.S. city. *Substance Use & Misuse*, *56*(10), 1527-1535. https://doi.org/10.1080/10826084.2021.1942053
- Leeming, L., Rutherford, K., McGregor, T. & Wilkes, M. (2023, November 15). Liquor licensing, heavy-handed police destroying Sydney's nightlife. News.com.au. https://www.news.com.au/national/nsw-act/liquor-licencing-heavyhanded-police-destroying-sydneys-nightlife/news-story/91517e64c7f8b3f1e7fbe77f36093ebc
- Lester, D. (1993). Restricting the availability of alcohol and rates of personal violence (suicide and homicide). Drug and Alcohol Dependence, 31(3), 215-217. https://doi.org/10.1016/0376-8716(93)90003-9
- Lipton, R., Banerjee, A., Ponicki, W. R., Gruenewald, P. J., & Morrison, C. (2021). Impacts of confounding roadway characteristics on estimates of associations between alcohol outlet densities and alcohol-related motor vehicle crashes. *Drug and Alcohol Review*, 40(2), 239-246. https://doi.org/10.1111/dar.13156
- Llopis, E. J., O'Donnell, A., & Anderson, P. (2021). Impact of price promotion, price, and minimum unit price on household purchases of low and no alcohol beers and ciders: Descriptive analyses and interrupted time series analysis of purchase data from 70,303 British households, 2015–2018 and first half of 2020. *Social Science & Medicine*, 270, 113690-113690. https://doi.org/10.1016/j.socscimed.2021.113690
- Londani, M., Morojele, N. K., Egbe, C. O., Nel, E., Petersen Williams, P., Harker, N., & Parry, C. D. H. (2021). On- and off-licensed premises drinking behaviour among adults in the city of Tshwane, South Africa: An analysis of data from the International Alcohol Control study. *Drug and Alcohol Review*, *40*(3), 443-453. https://doi.org/10.1111/dar.13223
- Luukkonen, J., Junna, L., Remes, H., & Martikainen, P. (2023). The association of lowered alcohol prices with birth outcomes and abortions: A population-based natural experiment. *Addiction*, *118*(5), 836-844. https://doi.org/10.1111/add.16119
- Madigan, M. (2024, April 22). Gen Zer exposes 'boring' problem with Sydney nightlife. News.com.au. https://www.news.com.au/lifestyle/real-life/news-life/gen-zer-exposes-boring-problem-with-sydney-nightlife/news-story/1e8544b658151e6c155e96e6fd777737
- Maheswaran, R., Green, M. A., Strong, M., Brindley, P., Angus, C., & Holmes, J. (2018). Alcohol outlet density and alcohol related hospital admissions in England: a national small-area level ecological study. *Addiction*, 113(11), 2051-2059. https://doi.org/10.1111/add.14285
- Manca, F., Lewsey, J., Mackay, D., Angus, C., Fitzpatrick, D., & Fitzgerald, N. (2024). The effect of a minimum price per unit of alcohol in Scotland on alcohol-related ambulance call-outs: A controlled interrupted time-series analysis. Addiction. https://doi.org/10.1111/add.16436
- Miller, P. (2015). Context is everything: Response to 'late night lock out laws'. *Alternative Law Journal, 40(3),* 206. https://doi.org/10.1177/1037969X1504000314
- Miller, P., Curtis, A., Millsteed, M., Harries, T., Nepal, S., Walker, S., Chikritzhs, T., & Coomber, K. (2021). Size does matter: An exploration of the relationship between licensed venue capacity and on-premise

- assaults. *Alcoholism, Clinical and Experimental Research*, *45*(6), 1298-1303. https://doi.org/10.1111/acer.14621
- Molloy, S. (2024, September 9). 'Everyone is laughing': Sydney has become the city with a 9pm curfew. News.com.au. https://www.news.com.au/lifestyle/food/restaurants-bars/everyones-laughing-sydney-has-become-the-city-with-a-9pm-curfew/news-story/8ace4623b4f6172fa74cbe09333b2020#share-tools
- Moore, S. C., Orpen, B., Smith, J., Sarkar, C., Li, C., Shepherd, J., & Bauermeister, S. (2022). Alcohol affordability: implications for alcohol price policies. A cross-sectional analysis in middle and older adults from UK Biobank. *Journal of Public Health*, *44*(2), e192-e202. https://doi.org/10.1093/pubmed/fdab095
- Morrison, C. N., Byrnes, H. F., Miller, B. A., Wiehe, S. E., Ponicki, W. R., & Wiebe, D. J. (2019). Exposure to alcohol outlets, alcohol access, and alcohol consumption among adolescents. *Drug and Alcohol Dependence*, 205, 107622-107622. https://doi.org/10.1016/j.drugalcdep.2019.107622
- Nelson, J. P., & McNall, A. D. (2017). What happens to drinking when alcohol policy changes? A review of five natural experiments for alcohol taxes, prices, and availability. *The European Journal of Health Economics*, 18(4), 417-434. https://doi.org/10.1007/s10198-016-0795-0
- Ng, C. S., Au, M., Leung, J. Y. Y., Leung, G. M., Tian, L., & Quan, J. (2022). The impact of road safety policies in a deregulated alcohol tax environment in Hong Kong: a 15-year time series analysis. *Addiction*, *117*(8), 2191-2199. https://doi.org/10.1111/add.15866
- Noel, J. K., & Rosenthal, S. R. (2023). Impact of alcohol home delivery and other methods of obtaining alcohol in young adults. *Alcohol and Alcoholism*, *58*(6), 606-611. https://doi.org/10.1093/alcalc/agad035
- O'Brien, J. W., Tscharke, B. J., Bade, R., Chan, G., Gerber, C., Mueller, J. F., Thomas, K. V., & Hall, W. D. (2021). A wastewater-based assessment of the impact of a minimum unit price (MUP) on population alcohol consumption in the Northern Territory, Australia. *Addiction*, *117*(1), 243-249. https://doi.org/10.1111/add.15631
- Panzone, L. A. (2012). Alcohol tax, price—quality proxy and discounting: A reason why alcohol taxes may rebound. *Journal of Agricultural Economics*, *63*(3), 715-736. https://doi.org/10.1111/j.1477-9552.2012.00351.x
- Parkes-Hupton, H. (2024, August 19). Popular Sydney pub has outdoor hours cut by council staff. News.com.au. https://www.news.com.au/lifestyle/food/restaurants-bars/popular-sydney-pub-has-outdoor-hours-cut-by-council-staff/news-story/d0e0dec064a255a5e0731f0ff6c144d6
- Pear, V., Wintemute, G., Jewell, N., & Ahern, J. (2023). The role of firearm and alcohol availability in firearm suicide: A population-based weighted case-control study. *Health & Place*, 79, 102969. https://doi.org/10.1016/j.healthplace.2023.102969
- Phillips, A. Z., Mulia, N., Subbaraman, M. S., Kershaw, K. N., Kerr, W. C., & Karriker-Jaffe, K. J. (2023). Does the relationship between alcohol retail environment and alcohol outcomes vary by depressive symptoms? Findings from a U.S. Survey of Black, Hispanic and White drinkers. *Addictive Behaviors*, 136, 107463-107463. https://doi.org/10.1016/j.addbeh.2022.107463
- Pliakas, T., Egan, M., Gibbons, J., Ashton, C., Hart, J., & Lock, K. (2018). Increasing powers to reject licenses to sell alcohol: Impacts on availability, sales and behavioural outcomes from a novel natural experiment evaluation. *Preventive Medicine*, *116*, 87-93. https://doi.org/10.1016/j.ypmed.2018.09.010
- Posti, J. P., Sankinen, M., Sipilä, J. O. T., Ruuskanen, J. O., Rinne, J., Rautava, P., & Kytö, V. (2019). Fatal traumatic brain injuries during 13 years of successive alcohol tax increases in Finland a nationwide population-based registry study. *Scientific Reports*, *9*(1), 5419-5419. https://doi.org/10.1038/s41598-019-41913-8
- Robinson, E., Nguyen, P., Jiang, H., Livingston, M., Ananthapavan, J., Lal, A., & Sacks, G. (2020). Increasing the price of alcohol as an obesity prevention measure: The potential cost-effectiveness of introducing a uniform volumetric tax and a minimum floor price on alcohol in Australia. *Nutrients*, *12*(3), 603. https://doi.org/10.3390/nu12030603
- Rossheim, M. E., Krall, J. R., Painter, J. E., Thombs, D. L., Stephenson, C. J., Suzuki, S., Cannell, M. B., Livingston, M. D., Gonzalez-Pons, K. M., & Wagenaar, A. C. (2018). Alcohol retail sales licenses and sexually transmitted infections in Texas counties, 2008-2015. *The American Journal of Drug and Alcohol Abuse*, 44(6), 678-685. https://doi.org/10.1080/00952990.2018.1477944
- Rousselière, S., Petit, G., Coisnon, T., Musson, A., & Rousselière, D. (2022). A few drinks behind—Alcohol price and income elasticities in Europe: A microeconometric note. *IDEAS Working Paper Series from RePEc*, 73(1), 301-315. https://doi.org/10.1111/1477-9552.12453
- Seid, A. K., Berg-Beckhoff, G., Stock, C., & Bloomfield, K. (2018). Is proximity to alcohol outlets associated with alcohol consumption and alcohol-related harm in Denmark? *Nordic Studies on Alcohol and Drugs*, *35*(2), 118-130. https://doi.org/10.1177/1455072518759829
- Shen, N. T., Bray, J., Wahid, N. A., Raver, M., Hutchison, N., Brown, R. S., & Schackman, B. R. (2020). Evaluation of alcohol taxes as a public health opportunity to reduce liver transplant listings for alcohol-

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- related liver disease. *Alcoholism, Clinical and Experimental Research*, *44*(11), 2307-2315. https://doi.org/10.1111/acer.14454
- Subica, A. M., Douglas, J. A., Kepple, N. J., Villanueva, S., & Grills, C. T. (2018). The geography of crime and violence surrounding tobacco shops, medical marijuana dispensaries, and off-sale alcohol outlets in a large, urban low-income community of color. *Preventive Medicine*, *108*, 8-16. https://doi.org/10.1016/j.ypmed.2017.12.020
- Taylor, N., Miller, P., Coomber, K., Livingston, M., Jiang, H., Buykx, P., Scott, D., Baldwin, R., & Chikritzhs, T. (2023). Estimating the impact of the minimum alcohol price on consumers' alcohol expenditure in the Northern Territory, Australia. *Australian and New Zealand Journal of Public Health*, *47*(3), 100053-100053. https://doi.org/10.1016/j.anzjph.2023.100053
- Tourism Australia. (2022). Future of Global Tourism Demand. Tourism Australia. https://www.tourism.australia.com/content/dam/digital/corporate/documents/future-of-demand/tourism-australia-global-future-of-tourism-demand-research-public-report.pdf
- Trangenstein, P. J., Curriero, F. C., Webster, D., Jennings, J. M., Latkin, C., Eck, R., & Jernigan, D. H. (2018).

 Outlet type, access to alcohol, and violent crime. *Alcoholism, Clinical and Experimental Research*,

 42(11), 2234-2245. https://doi.org/10.1111/acer.13880
- Wang, J., Fung, T., & Poynton, S. (2022). Takeaway alcohol sales and violent crime: the implications of extended trading hours. *Crime and Justice Bulletin*, 247, 1-12.
- Wheeler, A. P. (2019). Quantifying the local and spatial effects of alcohol outlets on crime. *Crime and Delinguency*, 65(6), 845-871. https://doi.org/10.1177/0011128718806692