

References

- Aboagye-Sarfo, P., Mai, Q., Sanfilippo, F.M., Preen, D.B., Stewart, L.M., and Fatovich, D.M. (2015) Growth in Western Australian emergency department demand during 200–2013 is due to people with urgent and complex care needs. *Emergency Medicine Australasia* 27, 202–209.
- Ackermann, E. (2016) Bulk-billing indicator no longer useful. *Med. J. Aust* (2016). <https://insightplus.mja.com.au/2016/21/bulk-billing-indicator-no-longer-useful/> (Accessed 09/06/2023).
- Anderson, J., & Malone, L. (2014). Suitability of the multi-purpose service model for rural and remote communities of Australia. *Asia Pacific Journal of Health Management*, 9(3), 14–18.
- Australian Bureau of Statistics (ABS) (2019) Patient experiences in Australia: summary of findings, 2018–19. Australian Government <https://www.abs.gov.au/statistics/health/health-services/patient-experiences/2018-19> (Accessed 09/06/2023).
- Australian Bureau of Statistics (ABS) (2022) Long-term health conditions. Information on long-term health conditions. Released 30/08/2022. <https://www.abs.gov.au/articles/long-term-health-conditions> (Accessed 12/06/2023).
- Australasian College for Emergency Medicine (ACEM). (2022) State of Emergency 2022 Australia. November 2022 Version 1.0. [https://acem.org.au/Content-Sources/Advancing-Emergency-Medicine/Better-Outcomes-for-Patients/Access-Block-\(1\)/State-of-Emergency-2022](https://acem.org.au/Content-Sources/Advancing-Emergency-Medicine/Better-Outcomes-for-Patients/Access-Block-(1)/State-of-Emergency-2022) (Accessed 30/05/2023).
- Australasian College for Emergency Medicine (ACEM). (2023) Triage <https://acem.org.au/Content-Sources/Advancing-Emergency-Medicine/Better-Outcomes-for-Patients/Triage> (Accessed 30/05/2023).
- Australian Institute of Health and Welfare (AIHW) (2011). Principles on the use of direct age-standardisation in administrative data collections: for measuring the gap between Indigenous and non-Indigenous Australians. Cat. no. CSI 12. Canberra: AIHW.
- Australian Institute of Health and Welfare (AIHW) (2014) Australia's health 2014. Australia's health series no. 14. Cat. no. AUS 178. Canberra, Australia: Australian Institute of Health and Welfare; 2014.
- Australian Institute of Health and Welfare (AIHW) (2018) Emergency department care 2017–18: Australian hospital statistics. Health services series no. 89. Cat. no. HSE 216. Canberra: AIHW.
- Australian Institute of Health and Welfare (AIHW) (2020) Emergency department care 2018–19: Appendices; 2020. AIHW, Australian Government. <https://www.aihw.gov.au/getmedia/8af27189-a1bb-4746-a096-e63d3b8aeac6/Emergency-department-care-201819-Appendixes.pdf.aspx> (Accessed 29/05/2023).
- Australian Institute of Health and Welfare (2021) Patient experiences in Australia by small geographic areas in 2019–20, AIHW, Australian Government. <https://www.aihw.gov.au/reports/primary-health-care/patient-experiences-in-australia-by-small-geograph/data> (Accessed 09/06/2023).
- Australian Institute of Health and Welfare (AIHW) (2022). MyHospitals mapping details. 29 July 2022. AIHW, Australian Government. <https://myhospitalsapi.aihw.gov.au/api/v1/reporting-units->

[downloads/mappings](#) (Accessed 09/05/2023). <https://www.aihw.gov.au/reports-data/myhospitals/content/data-downloads?page=2> (Accessed 07/06/2023).

Australian Institute of Health and Welfare (AIHW) (2023a) Emergency Department Care. AIHW, Australian Government. <https://www.aihw.gov.au/reports-data/myhospitals/sectors/emergency-department-care> (Accessed 30/05/2023).

Australian Institute of Health and Welfare (AIHW) (2023b) National non-admitted patient emergency department care database. Implementation start date 01/07/2015. AIHW, Australian Government. <https://meteor.aihw.gov.au/content/635463> (Accessed 29/05/2023).

Australian Institute of Health and Welfare (2020) [Use of emergency departments for lower urgency care: 2015–16 to 2018–19](#), AIHW, Australian Government. (Accessed 19/06/2023).

Baird, C., Oytam, Y., Rahman, K., Fornasari, M., Sharma, A., Kim, J., Ahn, E. and Hughes, R. (2021). The Checkpoint Program: Collaborative Care to Reduce the Reliance of Frequent Presenters on ED. *International Journal of Integrated Care*, 2021 21(2), p.29. DOI: <https://doi.org/10.5334/ijic.5532>

Benach, J., Yasui, Y., Borrell, C., Pasarín, M.I., Martínez, J.M., and Daponte, A. (2003) The public health burden of material deprivation: excess mortality in leading causes of death in Spain. *Prev. Med.* 36(3):300-8.

Billot, L., Corcoran, K., McDonald, A., Powell-Davies, G., and Feyer, A.M. (2016) Impact Evaluation of a System-Wide Chronic Disease Management Program on Health Service Utilisation: A Propensity-Matched Cohort Study. *PLoS Med.* 2016 Jun 7;13(6):e1002035. doi: 10.1371/journal.pmed.1002035. PMID: 27270663; PMCID: PMC4896436.

Bradbury, J., Nancarrow, S., Avila, S., Pit, S., Potts, R and Doran, F. (2017) Actual availability of appointments at general practices in regional New South Wales, Australia. *Australian Family Physician* 2017, 46(5).

Cheek, C., Allen, P., Shires, L., Parry, D., and Ruigrok, M. (2016) Low-acuity presentations to regional emergency department: What is the issue? *Emergency Medicine Australasia.* 2016 28, 145-152.

Cheung, N.W., Crampton, M., Nesire, V., Hng, T.M., and Chow, C.K. (2019) Western Sydney Integrated Care Program Investigators. Model for integrated care for chronic disease in the Australian context: Western Sydney Integrated Care Program. *Aust Health Rev.* 2019 Oct;43(5):565-571. doi: 10.1071/AH18152. PMID: 30862349.

Cleanbill (2023) Health of the National Report. National General Practitioner Listings, April 2023. Cleanbill.com.au. Copyright James Gillespie 2023. <https://cleanbill.com.au/wp-content/uploads/2023/04/Cleanbill-Health-of-the-Nation-Report-April-2023-1.pdf> (Accessed 02/06/2023).

Cleanbill (2023a) Blue Report. National Postcode Breakdown. January 2023. Cleanbill.com.au. Copyright James Gillespie 2023. <https://cleanbill.com.au/wp-content/uploads/2023/01/Cleanbill-Blue-Report-January-2023-National-Postcode-Breakdown-1.pdf> (Accessed 02/06/2023).

Cleanbill (2023b) Blue Report National General Practitioner Listings. January 2023. Cleanbill.com.au. Copyright James Gillespie 2022. <https://cleanbill.com.au/wp-content/uploads/2023/01/Cleanbill-Blue-Report-January-2023.pdf> (Accessed 02/06/2023).

Congdon, P. (1994) Spatiotemporal Analysis of Area Mortality. *Journal of the Royal Statistical Society. Series D (The Statistician)*, 1994 43(4), 513-528.

Conlon, C., Nicholson, E., Rodríguez-Martin, B., O'Donovan, R., De Brún, A., McDonnell, T., Bury, G., and McAuliffe, E. (2020) Factors influencing general practitioners decisions to refer Paediatric patients to the emergency department: a systematic review and narrative synthesis. *BMC Family Practice* 2020, 21:210.

Crawford, J., Cooper, S., Cant, R., and DeSouza, R. (2017) The impact of walk-in centres and GP co-operatives on emergency department presentations: A systematic review of the literature. *International Emergency Nursing* 2017, 34,36-42.

Cullen, P., Leong, R.N., Liu, B., Wlaker, N., Steinbeck, K., Ivers, R and Dinh, M. (2022) Returning to the emergency department: a retrospective analysis of mental health re-presentations among young people in New South Wales, Australia *BMJ Open* 2022;12:e057388

Department of Health and Aged Care (DoHAC). (2019) The Australian Health System. Canberra: Commonwealth of Australia; 2019. <https://www.health.gov.au/about-us/the-australian-health-system> (Accessed 05/06/2023).

Department of Health and Aged Care (DoHAC). (2023) Method Paper – General Practice Full Time Equivalent (GPFTE) – Workforce. Version 1.1. Canberra: Commonwealth of Australia. February 2023. <https://hwd.health.gov.au/resources/information/methods-gp-full-time-equivalent.pdf> (Accessed 31/05/2023).

Department of Health and Aged Care (DoHAC) (2023a) Medicare GP Non-Referral Attendances – per Patient 100% Bulk Billing Ranges, 2021-22. Medical Benefits Division, Department of Health and Aged Care. Australian Government <https://www.health.gov.au/sites/default/files/2023-02/medicare-statistics-per-patient-bulk-billing-dashboard-2021-22.pdf> (Accessed 02/06/2023)

Department of Health and Aged Care (DoHAC) (2023b) Medicare GP Non-Referral Attendances patient bulk billing ranges – Primary Health Networks (2009–10 to 2021–22). Medical Benefits Division, Department of Health and Aged Care. Australian Government. <https://www.health.gov.au/resources/publications/medicare-gp-non-referred-attendances-patient-bulk-billing-ranges-primary-health-networks-2009-10-to-2021-22?language=en> (Accessed 02/06/2023).

Dinh, M.M., Bein, K.J., Latt, M., Chalkley, D., and Muscatello, D. (2015) Age before acuity: the drivers of demand for emergency department services in the Greater Sydney Area. *Emergency Medicine Journal* 2015, 32:708–711.

Dinh, M.M., Berendsen Russell, S., Bein, K.J., Chalkley, D., Muscatello, D., Paoloni, R., and Ivers, R. (2016) Understanding drivers of Demand for Emergency Service Trends in Years 2010-2014 in New South Wales: An initial overview of the DESTINY project. *Emergency Medicine Australasia* 28 pg. 2016, 179-186.

Dinh, M.M., Berendsen Russell, S., Bein, K.J., Chalkley, D., Muscatello, D., Paoloni, R., and Ivers, R. (2016a) State-wide retrospective study of low acuity emergency presentations in New South Wales, Australia: who, what, where and why? *BMJ Open* 2016, 6:e010964.

Faulkner, .D and Law, .J. (2015) The 'unnecessary' use of emergency departments by older people: findings from hospital data, hospital staff and older people. *Aust Health Rev.* 2015 Nov;39(5):544-551. doi: 10.1071/AH14185. PMID: 25913422.

- Fatima, Y., Hays, R., Neilson, A., Knight, S., and Jatrana, S. (2022) Why patients attend emergency department for primary care type problems: views of healthcare providers working in a remote community. *Rural and Remote Health* 2022, 22: 7054.
- Freed, G.L., Bingham, A., Allen, A.R., Freed, M.A., Sancu, L., and Spike, N. (2015) Actual availability of general practice appointments for mildly ill children. *Med. J. Aust.* 2015, 203: 145.
- Freed, G.L., Allen, A.R., Turbitt, E., Nicolas, C., and Oakley, E. (2016) Parent perspectives and reasons for lower urgency paediatric presentations to emergency departments. *Emergency Medicine Australasia* 28, 2016, 211-215.
- Fry, M., Fitzpatrick, L., Considine, J., Shaban, R.Z., and Curtis, K. (2018) Emergency Department utilisation among older people with acute and/ or chronic conditions: A multi-centre retrospective study. *International Emergency Nursing* 2018, 37 39-43.
- Gao, X. and Dong, Q. (2020) A primer on Bayesian estimation of prevalence of COVID-19 patient outcomes. *Journal of the American Medical Informatics Association: JAMIA Open* 2020, 3(4) 628-631.
- Graham, B., Kruger, E., Tennant, M., and Shiikha, Y. (2023) An assessment of the spatial distribution of bulk billing-only GP services in Australia in relation to area-based socio-economic status. *Australian Journal of Primary Health*. 2023 Feb 23. doi: 10.1071/PY22125.
- Health Policy Analysis (2020) Evaluation of PHN After Hours Program, Volume 3. Case studies, Commonwealth Department of Health, Canberra. (Accessed 24/05/2023)
- HealthStats NSW (2021) New south Wales Emergency Department Records for Epidemiology. <https://www.healthstats.nsw.gov.au/#/page/EDRE-description> (Accessed 29/05/2023).
- Lago, L, Westley-Wise V, Mullan J, Lambert, K., Zingel, R., Carrigan, T., Triner, W., and Eagar, K. (2019) Here one year, gone the next? Investigating persistence of frequent emergency department attendance: a retrospective study in Australia. *BMJ Open* 2019; 9:e027700.
- Leyland, A. H., and Davies, C. A. (2005) Empirical Bayes methods for disease mapping. *Statistical Methods in Medical Research*, 2005, 14(1), 17–34.
- Lower, T., Kinsman, L., Dinh, M.M, and Lyle, D. (2020) Patterns of emergency department use in rural and metropolitan New South Wales from 2012 to 2018. *The Australian Journal of Rural Health*, 2020, 28: 490-499.
- Lowthian, J.A., Smith, C., Stoelwinder, J.U., Smit, D.V., McNeil, J.J., and Cameron, P.A. (2013) Why older patients of lower clinical urgency choose to attend the emergency department. *Intern Med J.* 2013 Jan;43(1):59-65.
- Mallitt, K.A., McNab, J., Hughes, R., Fernyhough, J., Paterson, J., and O'Halloran, D. (2017) Reducing emergency department presentations among chronically ill patients in Western Sydney: a key role for coordinated primary care. *Aust J Prim Health*. 2017 May;23(2):140-146. doi: 10.1071/PY16012. PMID: 27530096.
- McRae, I., and Butler, J.R.G. (2014) Supply and demand in physician markets: a panel data analysis of GP services in Australia. *Int J Health Care Finance Econ* 14, 2014, 269–287 (2014).
- McNab, J. and Gillespie, J.A. (2015) Bridging the chronic care gap: HealthOne Mt Druitt, Australia. *Int J Integr Care*. 2015 Sep 23;15:e015. doi: 10.5334/ijic.2243. PMID: 26417210; PMCID: PMC4583075.

Morley, C., Stankovich, J., Peterson, G., and Kinsman, L. (2018) Planning for the future: Emergency department presentation patterns in Tasmania, Australia. *International Emergency Nursing* 38, 2018, pg. 34-40.

Mu, C., and Hall, J. (2020) What explains the regional variation in the use of general practitioners in Australia?. *BMC Health Serv Res* 20, 325.

New South Wales Government. (2023) Multipurpose Service Program. <https://www.mps.health.nsw.gov.au/about-mps> (Accessed 07/06/2023).

O'Loughlin, M., Mills, J., McDermott, R., and Harriss, L.R. (2021) Exploring the measure of potentially avoidable general practitioner-type presentations to the emergency department in regional Queensland using linked, patient-perspective data. *Aust Health Rev.* 2021 Feb;45(1):90-96. doi: 10.1071/AH19210. PMID: 33121590.

O'Sullivan, B.G., Kippen, R., Hickson, H., and Wallace, G. (2022) Mandatory bulk billing policies may have differential rural effects: an exploration of Australian data. *Rural and Remote Health* 2022, 22: 7138.

Productivity Commission (2022). Report on Government Services 2022. <https://www.pc.gov.au/ongoing/report-on-government-services/2022/health> (Accessed 08/05/2023).

Public Health Information Development Unit (PHIDU). (2023) Age-related rates of Emergency Department presentation. Adelaide: PHIDU, Torrens University Australia, March 2023.

Pulok, M.H. , van Gool, K., and Hall, J. (2020) Horizontal inequity in the utilisation of healthcare services in Australia. *Health Policy.* 2020, 124(11) 1263-1271.

Robinson, D. (2017). ebb: Empirical Bayes on binomial data. R package version 0.1. <https://github.com/dgrtwo/ebbr> (Accessed 04/04/2023)

Siminski, P., Bezzina, A.J., Lago, L.P., and Eagar, K. (2008) Primary care presentations at emergency departments: rates and reasons by age and sex. *Australian Health Review* 32 2008, (4) 700-709.

Stephens, A.S., and Broome, R.A. (2017) Patterns of low acuity patient presentations to emergency departments in New South Wales, Australia. *Emergency Medicine Australasia* 29, 2017, 283-290.

Stephens, A.S., Dinh, M.M. and Kinsman, L. (2023), Patterns of emergency department use in rural and metropolitan New South Wales by socioeconomic status: A population-based study. *Emergency Medicine Australasia*, 2023, 35: 489-495.

Swerissen, H., Duckett, S., and Moran, G. (2018) Mapping primary care in Australia. Grattan Institute. Australia <https://grattan.edu.au/report/mapping-primary-care-in-australia/> (Accessed 15/06/2023).

Tsirtsakis, A. (2022). Falling bulk billing rates a 'sign of things to come', RACGP warns. newsGP. RACGP. 07 December 2022. <https://www1.racgp.org.au/newsgp/professional/falling-bulk-billing-rates-a-sign-of-things-to-com> (Accessed 05/06/2023).

Türkan, A.H, Erdugan, F., and Aldemir, S. (2020) Spatial Patterns of Infant Mortality in Turkey between 2011 and 2016. *International Review for Spatial Planning and Sustainable Development.* 2020, Volume 8, Issue 4, Pages 1-15.

Unwin, M., Crisp, E., Stankovich, J., McCann, D., and Kinsman, L. (2020). Socioeconomic disadvantage as a driver of non-urgent emergency department presentations: A retrospective data analysis. *PLoS One*, 2020, 15(4) doi:<https://doi.org/10.1371/journal.pone.0231429>

Ward, L., McMurray, A., Law, C.K., Mihala, G., Connor, M., and Scuffham, P. (2021) The Cost Consequences of the Gold Coast Integrated Care Programme. *Int J Integr Care*. 2021 Sep 15;21(3):9. doi: 10.5334/ijic.5542. PMID: 34611459; PMCID: PMC8447978.

Weber, E.J. (2018) Finding value in 'inappropriate' visits: A new study demonstrates how variation in ED use for preventable visits can be used to detect problems with access to healthcare in our communities. *Emergency Medicine Journal* 2018;35:133-134.

Willson, K.A., Lim, D., Toloo, G.S., FitzGerald, G., Kinnear, F.B., and Morel, D.G. (2022) Potential role of general practice in reducing emergency department demand: A qualitative study. *Emerg Med Australas*. 2022 Oct;34(5):717-724.

Yasaitis, L.C., Arcaya, M.C., and Subramanian, S.V. (2015) Comparison of estimation methods for creating small area rates of acute myocardial infarction among Medicare beneficiaries in California. *Health & Place*. 2015, 35:95-104.

Zurynski, Y., Ansell, J., Ellis, L.A., Pomare, C., Smith, C.L., Holt, J., Root, J., Gillespie, J., Wells, L., and Braithwaite, J. (2021) Accessible and affordable healthcare? Views of Australians with and without chronic conditions. *Intern Med J*. 2021, 51(7):1060-1067. doi: 10.1111/imj.15172.