

# Healthcare Research Publications

Prior to 2016 draft copies of papers can be found at [www.hcaf.biz](http://www.hcaf.biz), from the start of 2016 publications are on the web server but not the website. Click on the url and you will be able to locate a draft version.

Papers are written in a non-academic style so that busy healthcare managers and policy makers can understand the issues. The fundamental insight comes from a 30-year career in healthcare, with hard-won understanding by long experience and extensive supporting literature research. *BJHCM* drafts are displayed with permission. *BJMMR* is now *JAMMR*, articles archived at <https://www.journaljammr.com/index.php/JAMMR/issue/archive>

## Understanding Emergency Admissions & Unscheduled Care (<http://www.hcaf.biz/emergencyadmissions.html>)

- Jones R (1997) Emergency admissions: Admissions of difficulty *Health Service Journal* 107(5546): 28-31. [http://www.hcaf.biz/Hospital%20Beds/EM\\_Admissions\\_HSJ.pdf](http://www.hcaf.biz/Hospital%20Beds/EM_Admissions_HSJ.pdf)
- Jones R (2009) Trends in emergency admissions. *BJHCM* 15(4): 188-196. [http://www.hcaf.biz/Recent/Trends\\_in\\_emergency\\_admissions.pdf](http://www.hcaf.biz/Recent/Trends_in_emergency_admissions.pdf)
- Jones R (2009) Cycles in emergency admissions. *BJHCM* 15(5): 239-246. [http://www.hcaf.biz/2010/Emergency\\_Admissions\\_Part\\_2.pdf](http://www.hcaf.biz/2010/Emergency_Admissions_Part_2.pdf)
- Jones R (2010) Emergency preparedness. *BJHCM* 16(2): 94-95. [http://www.hcaf.biz/2010/Emergency\\_Preparedness.pdf](http://www.hcaf.biz/2010/Emergency_Preparedness.pdf)
- Jones R (2010) Gender ratio and hospital admissions. *BJHCM* 16(11): 541. [http://www.hcaf.biz/2010/Gender\\_ratio.pdf](http://www.hcaf.biz/2010/Gender_ratio.pdf)
- Jones R (2011) Cycles in gender-related costs for long-term conditions. *BJHCM* 17(3): 124-125. [http://www.hcaf.biz/2011/Gender\\_Cycles\\_in\\_Cost.pdf](http://www.hcaf.biz/2011/Gender_Cycles_in_Cost.pdf)
- Jones R (2012) Gender ratio and cycles in population health costs. *BJHCM* 18(3): 164-165. [http://www.hcaf.biz/2012/Gender\\_ratio\\_cost\\_cycles.pdf](http://www.hcaf.biz/2012/Gender_ratio_cost_cycles.pdf)
- Jones R (2012) Environment induced volatility and cycles in population health. *Positive Health Online* 194 (May): <http://www.positivehealth.com/article/clinicalpractice/environment-induced-volatility-and-cycles-in-population-health>
- Jones R (2013) Is the demographic shift the real problem? *BJHCM* 19(10): 509-511. [http://www.hcaf.biz/2013/Demographic\\_shift.pdf](http://www.hcaf.biz/2013/Demographic_shift.pdf)
- Jones R (2013) Trends in elderly diagnoses: links with multi-morbidity. *BJHCM* 19(11): 553-558. [http://www.hcaf.biz/2013/Elderly\\_Trends.pdf](http://www.hcaf.biz/2013/Elderly_Trends.pdf)
- Jones R (2014) What is happening in unscheduled care? *Journal of Paramedic Practice* 5(2): 60-62. [http://www.hcaf.biz/2014/Urgent\\_Care\\_Extract.pdf](http://www.hcaf.biz/2014/Urgent_Care_Extract.pdf)
- Jones R (2014) Forecasting conundrum: a disease time cascade. *BJHCM* 20(2): 90-91. [http://www.hcaf.biz/2014/Forecasting\\_conundrum.pdf](http://www.hcaf.biz/2014/Forecasting_conundrum.pdf)
- Jones R (2014) Long-term cycles in admissions for neurological conditions. *BJHCM* 20(4): 192-193. [http://www.hcaf.biz/2014/Neurological\\_cycles.pdf](http://www.hcaf.biz/2014/Neurological_cycles.pdf)
- Jones R (2014) Trends in admission for allergy. *BJHCM* 20(7): 350-351. [http://www.hcaf.biz/2014/Trends\\_Allergy.pdf](http://www.hcaf.biz/2014/Trends_Allergy.pdf)
- Jones R (2015) Forecasting medical emergency admissions. *BJHCM* 21(2): 98-99. [http://www.hcaf.biz/2015/Forecast\\_Medical.pdf](http://www.hcaf.biz/2015/Forecast_Medical.pdf)
- Jones R (2015) Estimating acute costs. *BJHCM* 21(3): 152-153. [http://www.hcaf.biz/2015/Medical\\_Costs.pdf](http://www.hcaf.biz/2015/Medical_Costs.pdf)
- Jones R (2015) Understanding growth in emergency admissions. *BJHCM* 21(4): 195-197.
- Jones R (2015) Exploring trends in demand for urgent care. *Journal of Paramedic Practice* 7(10): 486-488.
- Jones R (2016) The unprecedented growth in medical admissions in the UK: the ageing population or a possible infectious/immune aetiology? *Epidemiology: Open Access* 6(1): 1000219 <http://dx.doi.org/10.4172/2161-1165.1000219>
- Jones R (2016) Rising emergency admissions in the UK and the elephant in the room. *Epidemiology: Open Access* 6(4): 1000261 [doi: 10.4172/2161-1165.1000261](http://dx.doi.org/10.4172/2161-1165.1000261)

## Trends in Emergency Department Attendances & Subsequent Admission

- Jones R (2010) Forecasting emergency department attendances. *BJHCM* 16(10): 495-496. [http://www.hcaf.biz/2010/A&E\\_attendances.pdf](http://www.hcaf.biz/2010/A&E_attendances.pdf)
- Jones R (2012) Ambulance call-outs and disruptive technology. *BJHCM* 18(2): 112-113. [http://www.hcaf.biz/2012/Ambulance\\_call\\_out.pdf](http://www.hcaf.biz/2012/Ambulance_call_out.pdf)
- Jones R (2012) Age-related changes in A&E attendance. *BJHCM* 18(9): 502-503. [http://www.hcaf.biz/2012/Age\\_A&E.pdf](http://www.hcaf.biz/2012/Age_A&E.pdf)
- Jones R (2013) Trends in unscheduled care. *BJHCM* 19(6): 301-304. [http://www.hcaf.biz/2013/A&E\\_trends.pdf](http://www.hcaf.biz/2013/A&E_trends.pdf)
- Jones R (2013) Hidden complexity in A&E trends in England. *BJHCM* 19(7): 354-355. [http://www.hcaf.biz/2013/A&E\\_complexity.pdf](http://www.hcaf.biz/2013/A&E_complexity.pdf)
- Jones R (2013) A&E attendance: the tip of a wider trend. *BJHCM* 19(9): 458-459. [http://www.hcaf.biz/2013/A&E\\_Tip\\_of\\_trend.pdf](http://www.hcaf.biz/2013/A&E_Tip_of_trend.pdf)
- Jones R (2014) Untangling the A&E crisis. *BJHCM* 20(5): 246-247. [http://www.hcaf.biz/2014/Untangling\\_A&E.pdf](http://www.hcaf.biz/2014/Untangling_A&E.pdf)
- Jones R (2015) A&E tipping points. *BJHCM* 21(6): 248-249. [http://www.hcaf.biz/2015/Tipping\\_Points.pdf](http://www.hcaf.biz/2015/Tipping_Points.pdf)
- Jones R (2015) A&E admissions: where next? *BJHCM* 21(6): 292. [http://www.hcaf.biz/2015/Next\\_emergency.pdf](http://www.hcaf.biz/2015/Next_emergency.pdf)
- Beeknoo N, Jones R (2016) Factors influencing A&E attendance, admissions and waiting times at two London hospitals. *Journal of Advances in Medicine and Medical Research* 17(10): 1-29. <http://www.sciencedomain.org/abstract/16193>
- Beeknoo N, Jones R (2016) Using Social Groups to Locate Areas with High Emergency Department Attendance, Subsequent Inpatient Admission and Need for Critical Care. *Journal of Advances in Medicine and Medical Research* 18(6): 1-23. <http://www.sciencedomain.org/abstract/16693>

## Forecasting & Understanding Demand (<http://www.hcaf.biz/forecastingdemand.html>)

- Jones R (1996) Estimation of annual activity and the use of activity multipliers. *Health Informatics* 2, 71-77.
- Jones R (1996) How many patients next year? *Healthcare Analysis & Forecasting*, Camberley, UK.
- Jones R (2010) Forecasting year-end activity. *BJHCM* 16(7): 350-351. [http://www.hcaf.biz/2010/Forecasting\\_Year\\_End.pdf](http://www.hcaf.biz/2010/Forecasting_Year_End.pdf)
- Jones R (2010) Forecasting demand. *BJHCM* 16(8): 392-393. [http://www.hcaf.biz/2010/Forecasting\\_Demand.pdf](http://www.hcaf.biz/2010/Forecasting_Demand.pdf)
- Jones R (2011) Cycles in inpatient waiting time. *BJHCM* 17(2): 80-81. [http://www.hcaf.biz/2011/Waiting\\_time\\_cycles.pdf](http://www.hcaf.biz/2011/Waiting_time_cycles.pdf)

Jones R (2011) Death and future healthcare expenditure. *BJHCM* 17(9): 436-437. [http://www.hcaf.biz/2011/Death\\_and\\_expenditure.pdf](http://www.hcaf.biz/2011/Death_and_expenditure.pdf)

Jones R (2012) Weathering the storm: Birth forecasting in turbulent times. *Midwives Magazine* 15(2); <https://www.rcm.org.uk/news-views-and-analysis/analysis/weathering-the-storm>

Jones R (2014) Expected trends in births and deaths to 2037. *BJHCM* 20(8): 402-403. [http://www.hcaf.biz/2014/Births\\_Deaths.pdf](http://www.hcaf.biz/2014/Births_Deaths.pdf)

Jones R (2015) Unexplained infectious events leading to deaths and medical admissions. *BJHCM* 21(1): 46-47. [http://www.hcaf.biz/2015/Belfast\\_Outbreaks.pdf](http://www.hcaf.biz/2015/Belfast_Outbreaks.pdf)

Jones R (2015) Forecasting medical emergency admissions. *BJHCM* 21(2): 98-99. [http://www.hcaf.biz/2015/Forecast\\_Medical.pdf](http://www.hcaf.biz/2015/Forecast_Medical.pdf)

Jones R (2015) Estimating acute costs. *BJHCM* 21(3): 152-153. [http://www.hcaf.biz/2015/Medical\\_Costs.pdf](http://www.hcaf.biz/2015/Medical_Costs.pdf)

Jones R (2015) Understanding growth in emergency admissions. *BJHCM* 21(4): 195-197.

Jones R (2015) Trends in demand for urgent care. *Journal of Paramedic Practice* 7(10): 486-488.

Beeknoo N, Jones R (2016) Using social groups to locate areas of high utilization of critical care. *BJHCM* 22(11): 551-560. [http://www.hcaf.biz/2016/CCU\\_OA.pdf](http://www.hcaf.biz/2016/CCU_OA.pdf)

Beeknoo N, Jones R (2017) The demography myth - how demographic forecasting vastly underestimates hospital admissions, and creates the illusion that fewer hospital beds or community-based bed equivalents will be required in the future. *Journal of Advances in Medicine and Medical Research* 19(2): 1-27. doi: [10.9734/BJMMR/2017/29984](https://doi.org/10.9734/BJMMR/2017/29984)

Beeknoo N, Jones R (2017) Information asymmetry in financial forecasting within healthcare and simple methods to overcome this deficiency. *Journal of Advances in Medicine and Medical Research* 20(4): 1-12. doi: [10.9734/BJMMR/2017/31474](https://doi.org/10.9734/BJMMR/2017/31474)

Jones R (2017) What is driving growth in the English NHS? *BJHCM* 23(3): 134-137. [http://www.hcaf.biz/2017/NHS\\_Growth.pdf](http://www.hcaf.biz/2017/NHS_Growth.pdf)

Jones R (2017) Volatility in emergency admissions per death. *BJHCM* 23(11): 552-554. [http://www.hcaf.biz/2017/EM\\_per\\_death.pdf](http://www.hcaf.biz/2017/EM_per_death.pdf)

Jones R (2019) The nearness to death effect and why NHS pressures are going to intensify. *Journal of Paramedic Practice* 11(1): 28-30. <https://www.magonlineibrary.com/doi/10.12968/jpar.2019.11.1.28>

Jones R (2019) Ignorance isn't bliss: behind the unequal distribution of end-of-life demand. *Journal of Paramedic Practice* 11(2): 77-79. <https://www.magonlineibrary.com/doi/abs/10.12968/jpar.2019.11.2.77>

Jones R (2019) End-of-life demand is both highly volatile and shows unexpected trends. *Journal of Paramedic Practice* 11(3): 122-124. doi: [10.12968/jpar.2019.11.3.122](https://doi.org/10.12968/jpar.2019.11.3.122)

Jones R (2019) Unexplained periods of higher deaths contribute to marginal changes in health care demand and health insurance costs: International perspectives. *International J Health Planning Management* 35(3): 673-684. <https://doi.org/10.1002/hpm.2917>

#### Trends in Outpatient Attendance and Follow-up to First Appointment ratio <http://www.hcaf.biz/capacitymanagement.html>

Beauchant S, Jones R (1997) Socio-economic and demographic factors in patient non-attendance. *BJHCM* 3(10): 523-528.

Jones R (2000) Outpatient appointments: Feeling a bit peaky. *Health Service Journal* 110(5732): 28-31.

Jones R (2001) Outpatient appointments: A pretty little sum. *Health Service Journal* 111(5740): 28-31.

Jones R (2001) Outpatient waiting times: Quick, quick, slow. *Health Service Journal* 111(5778): 20-23.

Jones R (2009) What next for 18 weeks? *BJHCM* 15(8): 404-405. [http://www.hcaf.biz/Capacity%20Management/After\\_18\\_weeks.pdf](http://www.hcaf.biz/Capacity%20Management/After_18_weeks.pdf)

Jones R (2009) How to maintain 18 weeks. *BJHCM* 15(9): 456-457. [http://www.hcaf.biz/Recent/Maintain\\_18\\_weeks.pdf](http://www.hcaf.biz/Recent/Maintain_18_weeks.pdf)

Jones R (2012) Are there cycles in outpatient costs? *BJHCM* 18(5): 276-277. [http://www.hcaf.biz/2012/Cycles\\_in\\_outpatient\\_costs.pdf](http://www.hcaf.biz/2012/Cycles_in_outpatient_costs.pdf)

Jones R (2012) Increasing GP referrals: collective jump or infectious push? *BJHCM* 18(9): 487-495. [http://www.hcaf.biz/2012/GP\\_referral.pdf](http://www.hcaf.biz/2012/GP_referral.pdf)

Jones R (2012) GP referral to dermatology: which conditions? *BJHCM* 18(11): 594-596. [http://www.hcaf.biz/2012/GP\\_ref\\_dermatol.pdf](http://www.hcaf.biz/2012/GP_ref_dermatol.pdf)

Jones R (2012) Trends in outpatient follow-up rates, England 1987/88 to 2010/11. *BJHCM* 18(12): 647-655. [http://www.hcaf.biz/2012/Follow-up\\_rates.pdf](http://www.hcaf.biz/2012/Follow-up_rates.pdf)

Jones R (2014) Unexpected changes in outpatient first attendance. *BJHCM* 20(3): 142-143. [http://www.hcaf.biz/2014/OP\\_Immune.pdf](http://www.hcaf.biz/2014/OP_Immune.pdf)

Jones R (2016) Recent trends in outpatient follow-up rates. *BJHCM* 22(2): 92-94. [http://www.hcaf.biz/2016/Followup\\_Trends.pdf](http://www.hcaf.biz/2016/Followup_Trends.pdf)

#### Understanding Sickness Absence Rates – which follow the same curious patterns as deaths (see below)

Jones R (2016) Unusual trends in NHS staff sickness absence. *BJHCM* 22(4): 239-240. [http://www.hcaf.biz/2016/Absence\\_trends.pdf](http://www.hcaf.biz/2016/Absence_trends.pdf)

Jones R (2019) NHS sickness absence – the hidden message that no one is listening to. doi: 10.13140/RG.2.2.13996.31365 [http://www.hcaf.biz/2019/NHS\\_sickness\\_absence.pdf](http://www.hcaf.biz/2019/NHS_sickness_absence.pdf)

Jones R (2019) Sickness absence trends for the Department for Work & Pensions (England) follow identical hidden on/off patterns to those seen for NHS staff. doi: 10.13140/RG.2.2.27457 [http://www.hcaf.biz/2019/DWP\\_AWDL\\_Trend.pdf](http://www.hcaf.biz/2019/DWP_AWDL_Trend.pdf)

Jones R (2019) All-cause mortality and NHS sickness absence rates in England show a lagged series of step-like changes. *Achievements of Biology and Medicine* (Transl) 33(1): 41-43. [http://www.hcaf.biz/2019/Death\\_Absence\\_Lag.pdf](http://www.hcaf.biz/2019/Death_Absence_Lag.pdf)

Jones R (2020) NHS sickness absence in England – hidden patterns. *BJHCM* 26(4): 1-11. <https://doi.org/10.12968/bjhc.2019.0026> or [http://www.hcaf.biz/2020/NHS\\_SA\\_Shifts.pdf](http://www.hcaf.biz/2020/NHS_SA_Shifts.pdf)

Jones R (2021) Multidisciplinary insights into health care financial risk and hospital surge capacity, Part 2: High population density is associated with enhanced year-to-year volatility in many aspects of poor health including health care worker sickness absence. *Journal of Health Care Finance*. 47(3): <https://doi.org/10.12968/bjhc.2021.0047.03> **Multidisciplinary Insights into Health Care Financial Risk and Hospital Surge Capacity, Part 2: High Population Density is Associated with Enhanced Year-to-Year Volatility in Many Aspects of Poor Health Including Health Care Worker Sickness Absence | Jones, PhD | Journal of Health Care Finance (healthfinancejournal.com)**

#### Understanding Hospital Mortality

Jones R (2015) A 'fatal' flaw in hospital mortality models: How spatiotemporal variation in all-cause mortality invalidates hidden assumptions in the models. *FGNAMB* 1(3): 82-96. doi: [10.15761/FGNAMB.1000116](https://doi.org/10.15761/FGNAMB.1000116)

Jones R (2015) Links between bed occupancy, deaths and costs. *BJHCM* 21(11): 544-545. [http://www.hcaf.biz/2015/Occupancy\\_deaths\\_costs.pdf](http://www.hcaf.biz/2015/Occupancy_deaths_costs.pdf)

Jones R (2016) Hospital bed occupancy and deaths (all-cause mortality) in 2015. *BJHCM* 22(5): 283-285. [http://www.hcaf.biz/2016/Bed\\_Deaths.pdf](http://www.hcaf.biz/2016/Bed_Deaths.pdf)

Jones R (2016) Clear the decks of Summary Hospital-level Mortality Indicator. *BJHCM* 22(6): 335-338. [http://www.hcaf.biz/2016/SHMI\\_Flaw.pdf](http://www.hcaf.biz/2016/SHMI_Flaw.pdf)

Jones R (2016) Bed occupancy and hospital mortality. *BJHCM* 22(7): 380-381. [http://www.hcaf.biz/2016/Bed\\_Mortality.pdf](http://www.hcaf.biz/2016/Bed_Mortality.pdf)

Jones R (2016) Hospital deaths and length of stay. *BJHCM* 22(8): 424-425. [http://www.hcaf.biz/2016/Deaths\\_LOS.pdf](http://www.hcaf.biz/2016/Deaths_LOS.pdf)

Jones R (2016) Hospital mortality rates and changes in activity. *BJHCM* 22(10): 519-521. [http://www.hcaf.biz/2016/SHMI\\_Activity.pdf](http://www.hcaf.biz/2016/SHMI_Activity.pdf)

Jones R, Sleet G, Pearce O, Wetherill M (2016) Complex changes in blood biochemistry revealed by a composite score derived from Principal Component Analysis: Effects of age, patient acuity, end of life, day-of week, and potential insights into the issues surrounding the 'Weekend' effect in hospital mortality. *Journal of Advances in Medicine and Medical Research* 18(5): 1-28. doi: 10.9734/BJMMR/2016/29355

Jones R (2016) Trends in proportion of deaths occurring in hospital. *BJHCM* 22 (11): 572-573. [http://hcaf.biz/2016/Trend\\_proportion\\_hospital.pdf](http://hcaf.biz/2016/Trend_proportion_hospital.pdf)

Jones R (2016) Trends in crude death rates in English hospitals. *BJHCM* 22 (12): 616-617. [http://www.hcaf.biz/2016/Death\\_Rate.pdf](http://www.hcaf.biz/2016/Death_Rate.pdf)

Jones R (2017) Is the 'weekend' mortality effect real? *BJHCM* 23 (1): 39-41. [www.hcaf.biz/2017/Weekend\\_Mortality.pdf](http://www.hcaf.biz/2017/Weekend_Mortality.pdf)

Jones R (2017) In-hospital deaths, all-cause mortality and medical admissions. *BJHCM* 23(5): 239-240. [http://www.hcaf.biz/2017/Death\\_Medical.pdf](http://www.hcaf.biz/2017/Death_Medical.pdf)

Jones R (2018) Hospital mortality scores are unduly influenced by changes in the number of admissions. *European Journal of Internal Medicine* 51: e35-e37. <https://doi.org/10.1016/j.ejim.2018.02.010>

Jones R (2018) Unexpected trends in hospital standardized mortality indicate a novel cause. *European Journal of Internal Medicine*. 52: e9-e11. <https://doi.org/10.1016/j.ejim.2018.02.018>

Jones R (2018) Hospital mortality scores are unduly influenced by changes in service configuration. *BJHCM* 24 (6): 297-301. [http://www.hcaf.biz/2018/SHMI\\_Configuration.pdf](http://www.hcaf.biz/2018/SHMI_Configuration.pdf)

### **Covid-19 and excess all-cause mortality**

Jones R (2020) How many extra deaths really occurred in the UK? See [http://www.hcaf.biz/2020/Covid\\_Excess\\_Deaths.pdf](http://www.hcaf.biz/2020/Covid_Excess_Deaths.pdf)

Jones R (2021) The COVID-19 counting fiasco: Is the real total of deaths closer to 10 million? In-depth analysis from India and other countries. *Journal of Health Care Finance* 47(3): Spring: Special Edition, [Special Guest Authors \(healthfinancejournal.com\)](http://www.healthfinancejournal.com)

Jones R (2021) Did the government of India mislead the world regarding the extent of the COVID-19 problem in its constituent states? *Journal of Health Care Finance* 47(3): Spring Special Edition, [Special Guest Authors \(healthfinancejournal.com\)](http://www.healthfinancejournal.com)

Jones R (2021) The true COVID-19 death toll in India is likely to be greater than 1.2 million persons. *Journal of Health Care Finance* 47(3): Spring Special Edition, [Special Guest Authors \(healthfinancejournal.com\)](http://www.healthfinancejournal.com)

Jones R (2021) Low COVID-19 testing in the majority of nations has resulted in gross undercounting of infections and deaths. *Journal of Health Care Finance* 47(4): Fall Special Edition, [Special Guest Authors \(healthfinancejournal.com\)](http://www.healthfinancejournal.com)

Jones R, Ponomarenko A (2023) Roles for single-year-of-age, sex, and SARS-CoV-2 variants in all-cause mortality during the COVID-19 pandemic. Submitted article.

Jones R, Ponomarenko A (2023) Effect of age, sex, and COVID-19 vaccination history on all-cause mortality: unexpected outcomes in a complex biological and social system. Submitted article.

### **Understanding Excess Winter Mortality (EWM) and Winter Capacity Planning**

Jones R (2017) The link between seasonal death rates and workloads. *BJHCM* 23(9): 448-450. [http://www.hcaf.biz/2017/Seasonal\\_Workload.pdf](http://www.hcaf.biz/2017/Seasonal_Workload.pdf)

Jones R (2017) Anticipated ambulance workload during the 2016/17 winter. *Journal of Paramedic Practice* 9(2): 52-54.

Jones R (2019) Does on/off switching of deaths modify NHS winter workload? *Journal of Paramedic Practice* 11(4): 172-173.

Jones R (2019) Will the winter of 2019/2020 have unusually high service demand? Part 1: Lessons. *Journal of Paramedic Practice* 11(11): 492-494.

Jones R (2019) Will the winter of 2019/2020 have unusually high service demand? Part 2: Strategy. *Journal of Paramedic Practice* 11(12): 538-540.

Jones R (2020) Excess winter mortality (EWM) and stalling international improvements in life expectancy and mortality rates. *BJHCM* 26(12); <https://doi.org/10.12968/bjhc.2020.0020>

Jones R (2021) Excess winter mortality (EWM) as a dynamic forensic tool: Where, when, which conditions, gender, ethnicity, and age. *Int J Environ Res Public Health* 18(4); 2161. <https://doi.org/10.3390/ijerph18042161>

Jones R, Ponomarenko A (2022) Trends in excess winter mortality (EWM) from 1900/01 to 2019/20 – evidence for a complex system of multiple long-term trends. *Int J Environ Res Public Health* 19, 3407. <https://doi.org/10.3390/ijerph19063407>

Jones R, Ponomarenko A (2022) System complexity in influenza infection and vaccination: effects upon excess winter mortality. *Infectious Disease Reports* 14(3): 287-309. <https://doi.org/10.3390/idr14030035>

Jones R (2023) Could some vaccines have unanticipated effects against NHS winter pressures? *Journal of Paramedic Practice* 15(6): 6-9.

Jones R (2023) Winter pressures: policy versus reality. *Journal of Paramedic Practice* 15(7): 170-172.

### **Excess all-cause mortality in influenza and COVID-19 vaccination**

Jones R, Ponomarenko A (2022) Trends in excess winter mortality (EWM) from 1900/01 to 2019/20 – evidence for a complex system of multiple long-term trends. *Int J Environ Res Public Health* 19, 3407. <https://doi.org/10.3390/ijerph19063407>

Jones R, Ponomarenko A (2022) System complexity in influenza infection and vaccination: effects upon excess winter mortality. *Infectious Disease Reports* 14(3): 287-309. <https://doi.org/10.3390/idr14030035>

Jones R, Ponomarenko A (2022) Roles for pathogen interference in influenza vaccination, with implications to vaccine effectiveness (VE) and attribution of influenza deaths. *Infectious Disease Reports* 14(5), 710- 758. <https://doi.org/10.3390/idr14050076>

Jones R, Ponomarenko, A. Roles for age, gender, vaccination history and COVID-19 variants in all-cause mortality: unexpected outcomes in a complex system. *In review* [Effect of Age, Sex, and COVID-19 Vaccination History on All-Cause Mortality: Unexpected Outcomes in a Complex Biological and Social System \[v1\] | Preprints.org](https://www.preprints.org/manuscript/2023010101)

Jones R, Ponomarenko A (2023) Age profiles for SARS-CoV-2 variants in England and Wales and states of the USA (2020 to 2022): impact on all-cause mortality. *Infectious Disease Reports*. *In review*

### **Is Austerity Directly Linked to Higher Deaths?**

Jones R (2017) Did austerity cause the rise in deaths seen in England and Wales in 2015? *BJHCM* 23(9): 418-424. [http://www.hcaf.biz/2017/BJHCM\\_Austerity.pdf](http://www.hcaf.biz/2017/BJHCM_Austerity.pdf)



- Jones R (2017) Essays on rising mortality in England and Wales – a MEDLINE search is not infallible. *J Roy Soc Med (JRSM)* 110(6):224 doi: [10.1177/0141076817703864](https://doi.org/10.1177/0141076817703864)
- Jones R (2017) Role of social group and gender in outbreaks of a novel agent leading to increased deaths, with insights into higher international deaths in 2015. *Fractal Geometry and Nonlinear Analysis in Medicine and Biology* 3(1): 1-7. doi: [10.15761/FGNAMB.1000146](https://doi.org/10.15761/FGNAMB.1000146)
- Jones R (2017) Different patterns of male and female deaths in 2015 in English and Welsh local authorities question the role of austerity as the primary force behind higher deaths. *Fractal Geometry and Nonlinear Analysis in Medicine and Biology* 3(1): 1-4. doi: [10.15761/FGNAMB.1000145](https://doi.org/10.15761/FGNAMB.1000145)
- Jones R (2019) Unanswered questions for the austerity theory. *Healthcare Analysis & Forecasting*. doi: [10.13140/RG.2.2.20357.60643](https://doi.org/10.13140/RG.2.2.20357.60643) and also [https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3319211](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3319211)
- Jones R (2019) Deaths in England and Wales are falling – does the austerity theory still apply? *Healthcare Analysis & Forecasting*. Available via SSRN. See [https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3381403](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3381403)
- Jones R (2019) Austerity in the UK and poor health: were deaths directly affected? *BJHCM* 25(11): 337-347. [http://www.hcaf.biz/2019/UK\\_Austerity.pdf](http://www.hcaf.biz/2019/UK_Austerity.pdf)
- Jones R (2020) Excess winter mortality (EWM) and stalling international improvements in life expectancy and mortality rates. *BJHCM* 26(12); <https://doi.org/10.12968/bjhc.2020.0020>

### Understanding Hospital Length of Stay (LOS) – central to the next section on bed planning

- Jones R (2009) Length of stay efficiency. *BJHCM* 15(11): 563-564. [http://www.hcaf.biz/Hospital%20Efficiency/LOS\\_efficiency.pdf](http://www.hcaf.biz/Hospital%20Efficiency/LOS_efficiency.pdf)
- Jones R (2010) Benchmarking length of stay. *BJHCM* 16(5): 248-250. [http://www.hcaf.biz/2010/Benchmarking\\_LOS.pdf](http://www.hcaf.biz/2010/Benchmarking_LOS.pdf)
- Jones R (2013) Average length of stay in hospitals in the USA. *BJHCM* 19(4): 186-191. [http://www.hcaf.biz/2013/USA\\_ALOS.pdf](http://www.hcaf.biz/2013/USA_ALOS.pdf)
- Jones R (2015) Is length of stay a reliable efficiency measure? *BJHCM* 21(7): 344-345. [http://hcaf.biz/2015/LOS\\_deaths.pdf](http://hcaf.biz/2015/LOS_deaths.pdf)
- Jones R (2015) Declining length of stay and future bed numbers. *BJHCM* 21(9): 440-441. [http://hcaf.biz/2015/Future\\_bed\\_LOS.pdf](http://hcaf.biz/2015/Future_bed_LOS.pdf)
- Jones R (2016) Hospital deaths and length of stay. *BJHCM* 22(8): 424-425. [http://www.hcaf.biz/2016/Deaths\\_LOS.pdf](http://www.hcaf.biz/2016/Deaths_LOS.pdf)
- Jones R (2016) Where next for overnight stay admissions, length of stay and bed days? *BJHCM* 22(9): 475-477. [http://www.hcaf.biz/2016/LOS\\_Beddays.pdf](http://www.hcaf.biz/2016/LOS_Beddays.pdf)
- Jones R (2017) Growth in NHS admissions and length of stay: A policy-based evidence fiasco. *BJHCM* 23(12): 603-606. [http://www.hcaf.biz/2017/Growth\\_LOS\\_Admissions.pdf](http://www.hcaf.biz/2017/Growth_LOS_Admissions.pdf)
- Jones R (2018) Maternity length of stay efficiency and neonatal admissions. *BJHCM* 24(3): 122-124. [http://www.hcaf.biz/2018/Maternity\\_LOS.pdf](http://www.hcaf.biz/2018/Maternity_LOS.pdf)

### Understanding Hospital Bed Planning & Occupancy <http://www.hcaf.biz/hospitalbeds.html> also <http://www.hcaf.biz/Hospitalefficiency.html> - bed demand is intrinsically linked to the forecasting demand section

- Jones R (1997) Emergency admissions: Admissions of difficulty *Health Service Journal* 107(5546): 28-31. [http://www.hcaf.biz/Hospital%20Beds/EM\\_Admissions\\_HSJ.pdf](http://www.hcaf.biz/Hospital%20Beds/EM_Admissions_HSJ.pdf)
- Jones R (2001) Bed occupancy: Don't take it lying down. *Health Service Journal* 111(5752): 28-31. [http://www.hcaf.biz/Hospital%20Beds/HSJ\\_Beds.pdf](http://www.hcaf.biz/Hospital%20Beds/HSJ_Beds.pdf)
- Jones R (2001) New approaches to bed utilisation – making queuing theory practical. Presented at *New Techniques for Health and Social Care*. Harrogate Management Centre Conference 27<sup>th</sup> September 2001. [http://www.hcaf.biz/Hospital%20Beds/New\\_Approaches\\_Bed\\_Utilisation.pdf](http://www.hcaf.biz/Hospital%20Beds/New_Approaches_Bed_Utilisation.pdf)
- Jones R (2003) Bed management - Tools to aid the correct allocation of hospital beds. Presented at *Re-thinking bed management – Opportunities and challenges*. Harrogate Management Centre Conference, 27<sup>th</sup> January 2003. <http://www.hcaf.biz/Hospital%20Beds/Microsoft%20Word%20-%20Bed%20planning%20HMC.pdf>
- Jones R (2009) Emergency admissions and hospital beds. *BJHCM* 15(6): 289-296. [http://www.hcaf.biz/Recent/Emergency\\_Beds.pdf](http://www.hcaf.biz/Recent/Emergency_Beds.pdf)
- Jones R (2009) Building smaller hospitals. *BJHCM* 15(10): 511-512. [http://www.hcaf.biz/Recent/Building\\_smaller\\_hospitals.pdf](http://www.hcaf.biz/Recent/Building_smaller_hospitals.pdf)
- Jones R (2009) Crafting efficient bed pools. *BJHCM* 15(12): 614-616. [http://www.hcaf.biz/Hospital%20Beds/Efficient\\_bed\\_pools.pdf](http://www.hcaf.biz/Hospital%20Beds/Efficient_bed_pools.pdf)
- Jones R (2010) Myths of ideal hospital size. *Medical Journal of Australia* 193(5): 298-300. [http://www.hcaf.biz/2010/Myths\\_of\\_ideal\\_hospital\\_size.pdf](http://www.hcaf.biz/2010/Myths_of_ideal_hospital_size.pdf)
- Jones R (2011) Does hospital bed demand depend more on death than demography? *BJHCM* 17(5): 190-197. <https://doi.org/10.12968/bjhc.2011.17.5.190> [http://www.hcaf.biz/2011/Method\\_for\\_determining\\_hospital\\_beds.pdf](http://www.hcaf.biz/2011/Method_for_determining_hospital_beds.pdf)
- Jones R (2011) Bed days per death: a new performance measure. *BJHCM* 17(5): 213. [http://www.hcaf.biz/2011/Bed\\_days\\_per\\_death.pdf](http://www.hcaf.biz/2011/Bed_days_per_death.pdf)
- Jones R (2011) Hospital bed occupancy demystified and why hospitals of different size and complexity must operate at different average occupancy. *BJHCM* 17(6): 242-248. [http://www.hcaf.biz/2011/Hospital\\_occupancy.pdf](http://www.hcaf.biz/2011/Hospital_occupancy.pdf)
- Jones R (2011) A&E performance and inpatient bed occupancy. *BJHCM* 17(6): 256-257. [http://www.hcaf.biz/2011/A&E\\_and\\_occupancy.pdf](http://www.hcaf.biz/2011/A&E_and_occupancy.pdf)
- Jones R (2011) Bed occupancy – the impact on hospital planning. *BJHCM* 17(7): 307-313. [http://www.hcaf.biz/2011/Trends\\_Bed\\_Occup.pdf](http://www.hcaf.biz/2011/Trends_Bed_Occup.pdf)
- Jones R (2011) The need for single room accommodation in hospital. *BJHCM* 17(7): 316-317. [http://www.hcaf.biz/2011/Single\\_room.pdf](http://www.hcaf.biz/2011/Single_room.pdf)
- Jones R (2011) Demand for hospital beds in English Primary Care Organisations. *BJHCM* 17(8): 360-367. [http://www.hcaf.biz/2011/PCO\\_Bed\\_Demand.pdf](http://www.hcaf.biz/2011/PCO_Bed_Demand.pdf)
- Jones R (2011) A paradigm shift for bed occupancy. *BJHCM* 17(8): 376-377. [http://www.hcaf.biz/2011/Paradigm\\_Shift\\_Bed\\_Occupancy.pdf](http://www.hcaf.biz/2011/Paradigm_Shift_Bed_Occupancy.pdf)
- Jones R (2011) Volatility in bed occupancy for emergency admissions. *BJHCM* 17(9): 424-430. [http://www.hcaf.biz/2011/Volatile\\_bed\\_occupancy.pdf](http://www.hcaf.biz/2011/Volatile_bed_occupancy.pdf)
- Jones R (2012) Maternity bed occupancy: all part of the equation. *Midwives Magazine* 15(1): <http://www.rcm.org.uk/midwives/features/all-part-of-the-equation/>
- Jones R (2012) A simple guide to a complex problem – maternity bed occupancy. *British Journal of Midwifery* 20(5): 351-357. [http://www.hcaf.biz/2012/Maternity\\_Occ\\_Short.pdf](http://www.hcaf.biz/2012/Maternity_Occ_Short.pdf)
- Jones R (2013) A guide to maternity costs – why smaller units have higher costs. *British Journal of Midwifery* 21(1): 54-59. [http://www.hcaf.biz/2013/Maternity\\_Costs\\_Abstr.pdf](http://www.hcaf.biz/2013/Maternity_Costs_Abstr.pdf)
- Jones R (2013) Optimum bed occupancy in psychiatric hospitals. *Psychiatry On-Line* [http://www.priory.com/psychiatry/psychiatric\\_beds.htm](http://www.priory.com/psychiatry/psychiatric_beds.htm)
- Jones R (2013) The NHS England review of urgent and emergency care. *BJHCM* 19(8): 406-407. [http://www.hcaf.biz/2013/Emergency\\_Urgent\\_Care.pdf](http://www.hcaf.biz/2013/Emergency_Urgent_Care.pdf)
- Jones R (2014) Medical bed occupancy and cancelled operations. *BJHCM* 20(12): 594-595. [http://www.hcaf.biz/2014/Medical\\_occupancy.pdf](http://www.hcaf.biz/2014/Medical_occupancy.pdf)
- Jones R (2015) A&E tipping points. *BJHCM* 21(5): 248-249. [http://hcaf.biz/2015/Tipping\\_Points.pdf](http://hcaf.biz/2015/Tipping_Points.pdf)

- Jones R (2015) Bed occupancy, efficiency and infectious outbreaks. *BJHCM* 21(8): 396-397. [http://www.hcaf.biz/2015/Bed\\_occupancy\\_steps.pdf](http://www.hcaf.biz/2015/Bed_occupancy_steps.pdf)
- Jones R (2015) Links between bed occupancy, deaths and costs. *BJHCM* 21(11): 544-545. [http://hcaf.biz/2015/Occupancy\\_deaths\\_costs.pdf](http://hcaf.biz/2015/Occupancy_deaths_costs.pdf)
- Jones R (2016) Hospital bed occupancy and deaths (all-cause mortality) in 2015. *BJHCM* 22(5): 283-285. [http://www.hcaf.biz/2016/Beds\\_Deaths.pdf](http://www.hcaf.biz/2016/Beds_Deaths.pdf)
- Beeknoo N, Jones R (2016) Achieving economy of scale in critical care, and planning information necessary to support the choice of bed numbers. *Journal of Advances in Medicine and Medical Research* 17(9):1-15. [Achieving Economy of Scale in Critical Care, Planning Information Necessary to Support the Choice of Bed Numbers | Journal of Advances in Medicine and Medical Research \(journaljamr.com\)](http://www.hcaf.biz/2016/Achieving_Economy_of_Scale_in_Critical_Care_Planning_Information_Necessary_to_Support_the_Choice_of_Bed_Numbers_Journal_of_Advances_in_Medicine_and_Medical_Research_(journaljamr.com))
- Beeknoo N, Jones R (2016) A simple method to forecast next years bed requirements: a pragmatic alternative to queuing theory. *Journal of Advances in Medicine and Medical Research* 18(4): 1-20. [A Simple Method to Forecast Future Bed Requirements: A Pragmatic Alternative to Queuing Theory | Journal of Advances in Medicine and Medical Research \(journaljamr.com\)](http://www.hcaf.biz/2016/A_Simple_Method_to_Forecast_Future_Bed_Requirements:_A_Pragmatic_Alternative_to_Queueing_Theory_Journal_of_Advances_in_Medicine_and_Medical_Research_(journaljamr.com))
- Beeknoo N, Jones R (2016) The demography myth - how demographic forecasting underestimates hospital admissions and creates the illusion that fewer hospital beds or community-based bed equivalents will be required in the future. *Journal of Advances in Medicine and Medical Research* 19(2): 1-27. [The Demography Myth: How Demographic Forecasting Underestimates Hospital Admissions, and Creates the Illusion that Fewer Hospital Beds and Community-based bed Equivalents, will be Required in the Future | Journal of Advances in Medicine and Medical Research \(journaljamr.com\)](http://www.hcaf.biz/2016/The_Demography_Myth:_How_Demographic_Forecasting_Underestimates_Hospital_Admissions,_and_Creates_the_Illusion_that_Fewer_Hospital_Beds_and_Community-based_bed_Equivalents,_will_be_Required_in_the_Future_Journal_of_Advances_in_Medicine_and_Medical_Research_(journaljamr.com))
- Jones R (2016) Bed occupancy and hospital mortality. *BJHCM* 22(7): 380-381. [http://www.hcaf.biz/2016/Bed\\_Mortality.pdf](http://www.hcaf.biz/2016/Bed_Mortality.pdf)
- Jones R (2017) Is there scope to close acute beds in the STPs. *BJHCM* 23(2): 83-85. [http://www.hcaf.biz/2017/STP\\_Beds.pdf](http://www.hcaf.biz/2017/STP_Beds.pdf)
- Jones R (2017) What is driving growth in the English NHS? *BJHCM* 23(3): 134-137. [http://www.hcaf.biz/2017/NHS\\_Growth.pdf](http://www.hcaf.biz/2017/NHS_Growth.pdf)
- Jones R (2017) Flexibility, hospital bed numbers, and sustainability and transformation plans. *BJHCM* 23(7):344-345. [http://www.hcaf.biz/2017/STP\\_Volatility.pdf](http://www.hcaf.biz/2017/STP_Volatility.pdf)
- Jones R (2017) Deaths and acute hospital beds in the Sustainability and Transformation Plans. *BJHCM* 23(10): 498-499. [http://www.hcaf.biz/2017/Deaths\\_STPs.pdf](http://www.hcaf.biz/2017/Deaths_STPs.pdf)
- Jones R (2017) Bed occupancy continues to show on/off switching. *BJHCM* 23(11): 515-516. [http://www.hcaf.biz/2017/On\\_off\\_occupancy.pdf](http://www.hcaf.biz/2017/On_off_occupancy.pdf)
- Jones R (2018) Local 7-day patterns of on/off switching in acute bed occupancy. *BJHCM* 24(2): 100-102. [http://www.hcaf.biz/2017/Occupancy\\_Waves.pdf](http://www.hcaf.biz/2017/Occupancy_Waves.pdf)
- Jones R (2018) Do outbreaks of 'Disease X' regulate NHS beds and costs? *BJHCM* 24(4): 204-205. [http://www.hcaf.biz/2018/Beds\\_Disease\\_X.pdf](http://www.hcaf.biz/2018/Beds_Disease_X.pdf)
- Jones R (2018) Trends in available beds per death in England. *BJHCM* 24(7): 358-359. [http://www.hcaf.biz/2018/Beds\\_per\\_death.pdf](http://www.hcaf.biz/2018/Beds_per_death.pdf)
- Jones R (2018) Trends in critical care bed numbers in England. *BJHCM* 24(10): 516-517. [http://www.hcaf.biz/2018/CCU\\_Beds.pdf](http://www.hcaf.biz/2018/CCU_Beds.pdf)
- Jones R (2018) Hospital beds per death how does the UK compare globally. *BJHCM* 24(12): 617-622. [http://www.hcaf.biz/2018/International\\_Beds.pdf](http://www.hcaf.biz/2018/International_Beds.pdf)
- Jones R (2019) Condition specific growth in occupied beds in England following a sudden and unexpected increase in deaths. *BJHCM* 25(6): 1-8.
- Jones R (2019) Have doctors and the public been misled regarding hospital bed requirements? *BJHCM* 25 (7): 242-250. [http://www.hcaf.biz/2019/Beds\\_Doctors\\_Public\\_misled.pdf](http://www.hcaf.biz/2019/Beds_Doctors_Public_misled.pdf)
- Jones R (2019) A pragmatic method to compare hospital bed provision between countries and regions: Beds in the states of Australia. *Intl J Health Plan Mgmt* 35(3): 746-759. <https://doi.org/10.1002/hpm.2950>
- Jones R (2020) Curious patterns in hospital bed occupancy data. *BJHCM* 25(3): 71-72. <https://doi.org/10.12968/bjhc.2020.0014>
- Jones R (2020) Would the United States have had too few beds for universal emergency care in the event of a more widespread Covid-19 epidemic? *Int J Environmental Research and Public Health* 17(14): 5210. <https://doi.org/doi:10.3390/ijerph17145210>
- Jones R (2020) How many medical beds does a country need? An international perspective. *BJHCM* 26(9): 248-259. <https://doi.org/10.12968/bjhc.2020.0028> or [http://www.hcaf.biz/2020/International\\_Medical\\_Beds.pdf](http://www.hcaf.biz/2020/International_Medical_Beds.pdf)
- Jones R (2021) Were the hospital bed reductions proposed by English Clinical Commissioning Groups (CCGs) in the Sustainability and Transformation Plans (STPs) achievable? Insights from a new model to compare international bed numbers. *Intl J Health Planning and Management* 36(2): 459-481. <https://doi.org/10.1002/hpm.3094>
- Jones R (2021). Multidisciplinary insights into health care financial risk and hospital surge capacity, Part 1: Nearness to death, infectious outbreaks, and Covid-19. *Journal of Health Care Finance*. 47(3): Vol. 47, No. 3, Winter 2021 ([healthfinancejournal.com](http://healthfinancejournal.com))
- Jones R (2021) With 1.9 million hospital beds why is India struggling? *Journal of Health Care Finance*. 47(3): [Special Guest Authors \(healthfinancejournal.com\)](http://healthfinancejournal.com)
- Jones R (2021) Does the ageing population correctly predict the need for medical beds over the next 40 years? Part one: Fundamental principles *BJHCM* 27(8): doi: 10.12968/bjhc.2020.0156 [Does the ageing population correctly predict the need for medical beds?: Part one: fundamental principles | British Journal of Healthcare Management \(magonlineibrary.com\)](https://doi.org/10.12968/bjhc.2020.0156)
- Jones R (2021) Does the ageing population correctly predict the need for medical beds over the next 40 years? Part two: Wider implications. *BJHCM* 27(10): doi: 10.12968/bjhc.2021.0116 [Does the ageing population correctly predict the need for medical beds? Part two: wider implications | British Journal of Healthcare Management \(magonlineibrary.com\)](https://doi.org/10.12968/bjhc.2021.0116)
- Jones R (2021) A simple method to validate medical bed number calculations. *Eur J Internal Medicine* 94: P108-P109. <https://doi.org/10.1016/j.ejim.2021.08.009>
- Jones R (2022) A pragmatic method to compare international critical care beds: implications to pandemic preparedness and non-pandemic planning. *Intl J Health Planning and Management* 37(4): 2167-2182. <https://doi.org/10.1002/hpm.3458>
- Jones R (2022) A model to compare international hospital bed numbers, including a case study on the role of indigenous people on acute 'occupied' bed demand in Australian states. *Int J Environ Res Public Health* 19: 11239. <https://doi.org/10.3390/ijerph191811239>
- Jones R (2023) Addressing the knowledge deficit in hospital bed planning, defining an optimum region for the number of different types of hospital beds in an effective health care system. [Addressing the Knowledge Deficit in Hospital Bed Planning, Defining An Optimum Region for the Number of Different Types of Hospital Beds in An Effective Health Care System\[v1\] | Preprints.org](https://preprints.org)

### The Link Between Deaths (all-cause mortality) and Medical Emergency Admissions

- Jones R (2012) Diagnoses, deaths and infectious outbreaks. *BJHCM* 18(10): 539-548.
- Jones R (2013) An unexplained increase in deaths during 2012. *BJHCM* 19(5): 248-253.
- Jones R (2013) Analysing excess winter mortality: 2012/13. *BJHCM* 19(12): 601-605.
- Jones R (2014) Increased deaths in 2012: which conditions? *BJHCM* 20(1): 45-47.
- Jones R (2014) Trends in death and end-of-life costs in the UK. *BJHCM* 20(6): 298-299.
- Jones R (2014) Trends in emergency admissions per death. *BJHCM* 20(9): 446-447.

- Jones R (2015) A previously uncharacterized infectious-like event leading to spatial spread of deaths across England and Wales: Characteristics of the most recent event and a time series for past events. *Journal of Advances in Medicine and Medical Research* 5(11): 1361-1380. doi: [10.9734/BJMMR/2015/14285](https://doi.org/10.9734/BJMMR/2015/14285)
- Jones R (2015) Unexplained infectious events leading to deaths and medical admissions in Belfast. *BJHCM* 21(1): 46-47.
- Jones R (2015) Unexpected Increase in Deaths from Alzheimer's, Dementia and Other Neurological Disorders in England and Wales during 2012 and 2013. *Journal of Neuroinfectious Diseases* 6:172. doi: [10.4172/2314-7326.1000172](https://doi.org/10.4172/2314-7326.1000172)
- Jones R (2015) Influenza-like-illness, deaths and health care costs. *BJHCM* 21(12): 587-589.
- Jones R (2016) The real reason for the huge NHS overspend? *BJHCM* 22(1): 40-42. [http://www.hcaf.biz/2016/NHS\\_Overspend.pdf](http://www.hcaf.biz/2016/NHS_Overspend.pdf)
- Jones R (2016) Rising emergency admissions in the UK and the elephant in the room. *Epidemiology: Open Access* 6(4): 1000261 doi: [10.4172/2161-1165.1000261](https://doi.org/10.4172/2161-1165.1000261)
- Jones R (2016) Deaths and the marginal changes in healthcare costs *BJHCM* 22(10): 503-509. [http://www.hcaf.biz/2016/Deaths\\_Marginal\\_Costs.pdf](http://www.hcaf.biz/2016/Deaths_Marginal_Costs.pdf)
- Jones R (2016) Trend in proportion of deaths occurring in hospital. *BJHCM* 22(11): 572-573. [http://www.hcaf.biz/2016/Trend\\_proportion\\_hospital.pdf](http://www.hcaf.biz/2016/Trend_proportion_hospital.pdf)
- Jones R (2017) In-hospital deaths, all-cause mortality and medical admissions. *BJHCM* 23(5): 239-240. [http://www.hcaf.biz/2017/Death\\_Medical.pdf](http://www.hcaf.biz/2017/Death_Medical.pdf)
- Jones R (2017) Anticipated NHS demand in 2017/18. *Journal of Paramedic Practice* 9(6): 236-237.
- Jones R (2017) What government data on death rates fail to show. *BJHCM* 23(8): 572-573. [http://www.hcaf.biz/2017/ONS\\_MM.pdf](http://www.hcaf.biz/2017/ONS_MM.pdf)
- Jones R (2017) A reduction in acute thrombotic admissions during a period of unexplained increased deaths and medical admissions in the UK. *European Journal of Internal Medicine* 46: e31-e33. <http://dx.doi.org/10.1016/j.ejim.2017.09.007>
- Jones R (2018) Volatility in emergency admissions per death. *BJHCM* 23(11): 554-556. [http://www.hcaf.biz/2017/EM\\_per\\_death.pdf](http://www.hcaf.biz/2017/EM_per_death.pdf)
- Jones R (2018) Admissions for certain conditions show explosive growth in England following a sudden and unexpected increase in deaths. *European Journal of Internal Medicine*. 2018; 54: e33-e35. doi: <https://doi.org/10.1016/j.ejim.2018.03.005>
- Jones R (2018) Do outbreaks of 'Disease X' regulate NHS beds and costs? *BJHCM* 24(4): 204-205. [http://www.hcaf.biz/2018/Beds\\_Disease\\_X.pdf](http://www.hcaf.biz/2018/Beds_Disease_X.pdf)
- Jones R (2018) Clinical workload trends. *BJHCM* 24(6): 308-309. [http://www.hcaf.biz/2018/Staff\\_Death.pdf](http://www.hcaf.biz/2018/Staff_Death.pdf)
- Jones R (2018) Deaths in the UK show a large increase in 2018. *BJHCM* 24(8): 410-411. [http://www.hcaf.biz/2018/Scotland\\_deaths.pdf](http://www.hcaf.biz/2018/Scotland_deaths.pdf)
- Jones R (2018) Will 2018 set a record for deaths? *BJHCM* 24(9): 464-465. [http://www.hcaf.biz/2018/2018\\_Record.pdf](http://www.hcaf.biz/2018/2018_Record.pdf)
- Jones R (2018) End-of-life, unusual syndromic symptoms, and periods of high physician workload. *Achievements of Biology and Medicine* 31(1): 46-51. [http://files.odmu.edu.ua/biomed/2018/01/d181\\_46.pdf](http://files.odmu.edu.ua/biomed/2018/01/d181_46.pdf)
- Jones R (2019) A need for transparency and evidence-based discussion. *Journal of Paramedic Practice* 11(5): 219-220.
- Jones R (2019) The calendar year fallacy: The danger of reliance on calendar year data in end-of-life capacity and financial planning. *The International Journal of Health Planning and Management* 33(4): e1533-e1543. <https://doi.org/10.1002/hpm.2838>
- Jones R (2019) Austerity in the UK and poor health: were deaths affected? *BJHCM* 25(11): 337-347.
- Jones R (2020) How many extra deaths have really occurred in the UK due to the Covid-19 outbreak? III. Will excess deaths pass the record increase in 2015. [http://www.hcaf.biz/2020/Covid\\_Excess\\_Deaths.pdf](http://www.hcaf.biz/2020/Covid_Excess_Deaths.pdf)

**Financial Risk in Healthcare** <http://www.hcaf.biz/financialrisk.html> - see sections on deaths/admissions and small-area spatiotemporal patterns to understand the basis for the very high financial risk in healthcare

- Jones R. Financial and operational risk in healthcare. *HMC Conference 'Re-shaping Acute Services for the 21st Century', Barbican Centre, London. 26 September 2002.* (99+) (PDF) [Financial and operational risk in health care provision and commissioning | Rodney Jones - Academia.edu](http://www.hcaf.biz/Financial%20Risk/CBUC_FR.pdf)
- Jones R (2004) Financial risk in healthcare provision and contracts. *Proceedings of the 2004 Crystal Ball User Conference*, June 16-18<sup>th</sup>, 2004. Denver, Colorado, USA. [http://www.hcaf.biz/Financial%20Risk/CBUC\\_FR.pdf](http://www.hcaf.biz/Financial%20Risk/CBUC_FR.pdf)
- Jones R (2008) Financial risk in practice-based commissioning. *BJHCM* 14(5): 199-204. [http://www.hcaf.biz/Financial%20Risk/FR\\_PBC\\_1.pdf](http://www.hcaf.biz/Financial%20Risk/FR_PBC_1.pdf)
- Jones R (2008) Financial risk in health purchasing Risk pools. *BJHCM* 14(6): 240-245. [http://www.hcaf.biz/Financial%20Risk/FR\\_PBC\\_2.pdf](http://www.hcaf.biz/Financial%20Risk/FR_PBC_2.pdf)
- Jones R (2008) Financial risk at the PCT/PBC Interface. *BJHCM* 14(7): 288-293. [http://www.hcaf.biz/Financial%20Risk/FR\\_PBC\\_3.pdf](http://www.hcaf.biz/Financial%20Risk/FR_PBC_3.pdf)
- Jones R (2009) Emergency admissions and financial risk. *BJHCM* 15(7): 344-350. [http://www.hcaf.biz/Recent/Emergency\\_Financial\\_Risk.pdf](http://www.hcaf.biz/Recent/Emergency_Financial_Risk.pdf)
- Jones R (2009) The actuarial basis for financial risk in practice-based commissioning and implications to managing budgets. *Primary Health Care Research & Development* 10(3): 245-253. <https://doi.org/10.1017/S1463423609990089>
- Jones R (2010) What is the financial risk in GP Commissioning? *British Journal of General Practice* 60(578): 700-701. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2930237/>
- Jones R (2010) Cyclic factors behind NHS deficits and surpluses. *BJHCM* 16(1): 48-50. [http://www.hcaf.biz/2010/Surplus\\_Deficit\\_Cycle.pdf](http://www.hcaf.biz/2010/Surplus_Deficit_Cycle.pdf)
- Jones R (2010) Do NHS cost pressures follow long-term patterns? *BJHCM* 16(4): 192-194. [http://www.hcaf.biz/2010/USA\\_cost\\_cycles.pdf](http://www.hcaf.biz/2010/USA_cost_cycles.pdf)
- Jones R (2010) Nature of health care costs and financial risk in commissioning. *BJHCM* 16(9): 424-430. [http://www.hcaf.biz/2010/Healthcare\\_Costs\\_1.pdf](http://www.hcaf.biz/2010/Healthcare_Costs_1.pdf)
- Jones R (2010) Trends in programme budget expenditure. *BJHCM* 16(11): 518-526. [http://www.hcaf.biz/2010/Programme\\_Budget\\_Costs.pdf](http://www.hcaf.biz/2010/Programme_Budget_Costs.pdf)
- Jones R (2011) Cycles in inpatient waiting time. *BJHCM* 17(2): 80-81. [http://www.hcaf.biz/2011/Waiting\\_time\\_cycles.pdf](http://www.hcaf.biz/2011/Waiting_time_cycles.pdf)
- Jones R (2012) Time to re-evaluate financial risk in GP commissioning. *BJHCM* 18(1): 39-48. [http://www.hcaf.biz/2012/reevaluate\\_risk.pdf](http://www.hcaf.biz/2012/reevaluate_risk.pdf)
- Jones R (2012) Gender ratio and cycles in population health costs. *BJHCM* 18(3): 164-165. [http://www.hcaf.biz/2012/Gender\\_ratio\\_cost\\_cycles.pdf](http://www.hcaf.biz/2012/Gender_ratio_cost_cycles.pdf)
- Jones R (2012) Why is the 'real world' financial risk in commissioning so high? *BJHCM* 18(4): 216-217. [http://www.hcaf.biz/2012/Real\\_world\\_financial\\_risk.pdf](http://www.hcaf.biz/2012/Real_world_financial_risk.pdf)
- Jones R (2012) Volatile inpatient costs and implications to CCG financial stability. *BJHCM* 18(5): 251-258. [http://www.hcaf.biz/2012/Volatile\\_inpatient\\_costs.pdf](http://www.hcaf.biz/2012/Volatile_inpatient_costs.pdf)
- Jones R (2012) Cancer care and volatility in commissioning. *BJHCM* 18(6): 315-324. [http://www.hcaf.biz/2012/Cancer\\_costs.pdf](http://www.hcaf.biz/2012/Cancer_costs.pdf)
- Jones R (2012) Gender and financial risk in commissioning. *BJHCM* 18(6): 336-337. [http://www.hcaf.biz/2012/Gender\\_risk\\_commissioning.pdf](http://www.hcaf.biz/2012/Gender_risk_commissioning.pdf)
- Jones R (2012) End of life care and volatility in costs. *BJHCM* 18(7): 374-381. [http://www.hcaf.biz/2012/End\\_of\\_life\\_risk\\_commissioning.pdf](http://www.hcaf.biz/2012/End_of_life_risk_commissioning.pdf)
- Jones R (2012) Age and financial risk in healthcare costs. *BJHCM* 18(7): 388-389. [http://www.hcaf.biz/2012/Age\\_gender.pdf](http://www.hcaf.biz/2012/Age_gender.pdf)
- Jones R (2012) High risk categories and risk pooling in healthcare costs. *BJHCM* 18(8): 430-435. [http://www.hcaf.biz/2012/PB\\_categories\\_high\\_risk.pdf](http://www.hcaf.biz/2012/PB_categories_high_risk.pdf)
- Jones R (2012) Year-to-year volatility in medical admissions. *BJHCM* 18(8): 448-449. [http://www.hcaf.biz/2012/Specialty\\_volatility.pdf](http://www.hcaf.biz/2012/Specialty_volatility.pdf)
- Jones R (2012) Risk in GP commissioning: the loss ratio. *BJHCM* 18(11): 605-606. [http://www.hcaf.biz/2012/FRGP\\_Loss\\_Ratio.pdf](http://www.hcaf.biz/2012/FRGP_Loss_Ratio.pdf)
- Jones R (2012) Financial risk in GP commissioning: lessons from Medicare. *BJHCM* 18(12): 656-657. [http://www.hcaf.biz/2012/USA\\_Cost\\_Volatility.pdf](http://www.hcaf.biz/2012/USA_Cost_Volatility.pdf)
- Jones R (2013) Financial risk and volatile elderly diagnoses. *BJHCM* 19(2): 94-96. [http://www.hcaf.biz/2013/Financial\\_risk\\_elderly\\_diagnoses.pdf](http://www.hcaf.biz/2013/Financial_risk_elderly_diagnoses.pdf)



Jones R (2013) Financial risk and volatile childhood diagnoses. *BJHCM* 19(3): 148-149. [http://www.hcaf.biz/2013/Volatile\\_Childhood\\_Diagnoses.pdf](http://www.hcaf.biz/2013/Volatile_Childhood_Diagnoses.pdf)

Jones R (2013) Environmental volatility and healthcare costs. *BJHCM* 19(4): 198-199. [http://www.hcaf.biz/2013/Environmental\\_volatility.pdf](http://www.hcaf.biz/2013/Environmental_volatility.pdf)

Jones R (2013) What every GP needs to know about financial risk in commissioning. *General Practice Online* [http://www.priory.com/family\\_medicine/GP\\_commissioning\\_risk.htm](http://www.priory.com/family_medicine/GP_commissioning_risk.htm)

Jones R (2013) The funding dilemma: a lagged cycle in cancer costs. *BJHCM* 19(12): 601-605. [http://www.hcaf.biz/2013/Funding\\_dilemma\\_cancer.pdf](http://www.hcaf.biz/2013/Funding_dilemma_cancer.pdf)

Jones R (2014) Financial volatility in NHS contracts. *BJHCM* 20(10): 489-491. [http://www.hcaf.biz/2014/Financial\\_Volatility\\_NHS\\_Contracts.pdf](http://www.hcaf.biz/2014/Financial_Volatility_NHS_Contracts.pdf)

Jones R (2016) The real reason for the huge NHS overspend? *BJHCM* 22(1): 40-42. [http://www.hcaf.biz/2016/NHS\\_Overspend.pdf](http://www.hcaf.biz/2016/NHS_Overspend.pdf)

Jones R (2019) Financial risk in health and social care budgets. *BJHCM* 25(2): 79-84. <http://www.hcaf.biz/2019/FRHSC.pdf>

Jones R (2019) The calendar year fallacy: The danger of reliance on calendar year data in actuarial calculations. *Intl J Health Planning Management* 34(4): e1533-e1543. <https://doi.org/10.1002/hpm.2838>

Jones R (2021). Multidisciplinary insights into health care financial risk and hospital surge capacity, Part 1: Nearness to death, infectious outbreaks, and Covid-19. *Journal of Health Care Finance*. 47(3): Vol. 47, No. 3, Winter 2021 ([healthfinancejournal.com](http://healthfinancejournal.com))

Jones R (2021) Multidisciplinary insights into health care financial risk and hospital surge capacity, Part 2: High population density is associated with enhanced year-to-year volatility in many aspects of poor health including health care worker sickness absence. *Journal of Health Care Finance*. 47(3): Vol. 47, No. 3, Winter 2021 ([healthfinancejournal.com](http://healthfinancejournal.com))

Jones R (2021) Multidisciplinary insights into health care financial risk and hospital surge capacity, Part 3: Outbreaks of a new type or kind of disease create unique risk patterns and confounds traditional trend analysis. *Journal of Health Care Finance*. 47(3): Vol. 47, No. 3, Winter 2021 ([healthfinancejournal.com](http://healthfinancejournal.com))

Jones R (2021) Multidisciplinary insights into health care financial risk and hospital surge capacity, Part 4: What size does a health insurer or health authority need to be to minimise risk? *Journal of Health Care Finance*. 47(3): Vol. 47, No. 3, Winter 2021 ([healthfinancejournal.com](http://healthfinancejournal.com))

Jones R (2021) The epidemiology of health and social care cost and capacity shocks. *Odessa Medical Journal* 2021(5): doi: 10.54229/2226-2008-2021-5-9

### **Limitations of the Healthcare Resource Group (HRG) Tariff - This is intrinsically linked to financial risk (see above)**

Jones R (2008) Limitations of the HRG tariff: excess bed days. *BJHCM* 14(8): 354-355. [http://www.hcaf.biz/Recent/Tariff\\_Limitations\\_1.pdf](http://www.hcaf.biz/Recent/Tariff_Limitations_1.pdf)

Jones R (2008) Limitations of the HRG tariff: day cases. *BJHCM* 14(9): 402-404. [http://hcaf.biz/Recent/Limitations\\_DC.pdf](http://hcaf.biz/Recent/Limitations_DC.pdf)

Jones R (2008) A case of the emperor's new clothes? *BJHCM* 14(10): 460-461. [http://hcaf.biz/Recent/Tariff\\_3.pdf](http://hcaf.biz/Recent/Tariff_3.pdf)

Jones R (2008) Limitations of the HRG tariff: the trim point. *BJHCM* 14(11): 510-513. [http://hcaf.biz/2010/Tariff\\_Trim\\_Point.pdf](http://hcaf.biz/2010/Tariff_Trim_Point.pdf)

Jones R (2008) Costing orthopaedic interventions. *BJHCM* 14(12): 539-547. [http://hcaf.biz/2010/Costing\\_Orthopaedic\\_Interventions.pdf](http://hcaf.biz/2010/Costing_Orthopaedic_Interventions.pdf)

Jones R (2009) Limitations of the HRG tariff: efficiency comparison. *BJHCM* 15(1): 40-43. [http://www.hcaf.biz/Recent/Tariff\\_efficiency.pdf](http://www.hcaf.biz/Recent/Tariff_efficiency.pdf)

Jones R (2009) Limitations of the HRG tariff: the RCL. *BJHCM* 15(2): 92-95. [http://www.hcaf.biz/Recent/Tariff\\_RCL.pdf](http://www.hcaf.biz/Recent/Tariff_RCL.pdf)

Jones R (2009) Limitations of the HRG tariff: local adjustments. *BJHCM* 15(3): 144-147. [http://hcaf.biz/2010/Tariff\\_Local\\_Adjustments.pdf](http://hcaf.biz/2010/Tariff_Local_Adjustments.pdf)

Jones R (2010) A maximum price tariff. *BJHCM* 16(3): 146-147. [http://hcaf.biz/2010/Maximum\\_price\\_tariff.pdf](http://hcaf.biz/2010/Maximum_price_tariff.pdf)

Jones R (2010) Nature of health care costs and the HRG tariff. *BJHCM* 16(9): 451-452. [http://hcaf.biz/2010/Healthcare\\_Costs\\_2.pdf](http://hcaf.biz/2010/Healthcare_Costs_2.pdf)

Jones R (2010) Emergency assessment tariff: lessons learned. *BJHCM* 16(12): 574-583. [http://hcaf.biz/2010/Assessment\\_Unit\\_Tariff.pdf](http://hcaf.biz/2010/Assessment_Unit_Tariff.pdf)

Jones R (2010) High efficiency or unfair financial gain? *BJHCM* 16(12): 585-586. [http://hcaf.biz/2010/Emergency\\_RCL.pdf](http://hcaf.biz/2010/Emergency_RCL.pdf)

Jones R (2010) Is the HRG tariff fit for purpose? nhsManagers.net: Managers Briefing [http://hcaf.biz/2010/HRG\\_Fit\\_For-Purpose.pdf](http://hcaf.biz/2010/HRG_Fit_For-Purpose.pdf)

Jones R (2011) Impact of the A&E targets in England. *BJHCM* 17(1): 16-22. [http://www.hcaf.biz/Recent/Costing\\_A&E\\_attendances.pdf](http://www.hcaf.biz/Recent/Costing_A&E_attendances.pdf)

Jones R (2011) Costs of paediatric assessment. *BJHCM* 17(2): 57-63. [http://hcaf.biz/2011/Costing\\_Paediatric\\_Assessment.pdf](http://hcaf.biz/2011/Costing_Paediatric_Assessment.pdf)

Jones R (2011) Is the short stay emergency tariff a valid currency? *BJHCM* 17(10): 496-497. [http://hcaf.biz/2011/Valid\\_Currency.pdf](http://hcaf.biz/2011/Valid_Currency.pdf)

Jones R (2011) Limitations of the HRG tariff: the national average. *BJHCM* 17(11): 556-557. [http://hcaf.biz/2011/Limitations\\_annual\\_average.pdf](http://hcaf.biz/2011/Limitations_annual_average.pdf)

Jones R (2011) Limitations of the HRG tariff: gross errors. *BJHCM* 17(12): 608-609. [http://hcaf.biz/2011/Limitations\\_gross\\_errors.pdf](http://hcaf.biz/2011/Limitations_gross_errors.pdf)

Jones R (2012) Is the Health Resource Group (HRG) tariff fit for purpose? *BJHCM* 18(1): 52-53. [http://hcaf.biz/2012/Fit\\_for\\_purpose.pdf](http://hcaf.biz/2012/Fit_for_purpose.pdf)

Jones R (2012) Limitations of the HRG tariff. Healthcare Analysis & Forecasting. [http://hcaf.biz/2012/Limitations\\_HRG\\_tariff.pdf](http://hcaf.biz/2012/Limitations_HRG_tariff.pdf)

Jones R (2013) A guide to maternity costs - why smaller units cost more. *British Journal of Midwifery* 21(1): 54-59. <https://www.magonlinelibrary.com/doi/abs/10.12968/bjom.2013.21.1.54>

### **Funding & the Funding Formula, also see the 'Benchmarking' series <http://www.hcaf.biz/forecastingdemand.html> This is intrinsically linked to financial risk (see above)**

Jones R (1994) GP Fundholding: Readies reckoner. *Health Service Journal* 104 (10<sup>th</sup> Feb): 31.

Jones R (2011) Infectious outbreaks and the capitation formula. *BJHCM* 17(1): 36-38. [http://www.hcaf.biz/2010/Outbreak\\_capitation.pdf](http://www.hcaf.biz/2010/Outbreak_capitation.pdf)

Jones R (2013) A fundamental flaw in person-based funding. *BJHCM* 19(1): 32-38. [http://www.hcaf.biz/2013/Person\\_Based\\_Funding.pdf](http://www.hcaf.biz/2013/Person_Based_Funding.pdf)

Jones R (2013) Population density and healthcare costs. *BJHCM* 19(1): 44-45. [http://www.hcaf.biz/2013/Population\\_Density.pdf](http://www.hcaf.biz/2013/Population_Density.pdf)

Jones R, Kellet J (2018) The way healthcare is funded is wrong: it should be linked to deaths as well as age, gender and social deprivation. *Acute Medicine* 17(4): 189-193. See <https://acutemedjournal.co.uk/original-articles/the-way-healthcare-is-funded-is-wrong-it-should-be-linked-to-deaths-as-well-as-age-gender-and-social-deprivation/>

Jones R (2021) Multidisciplinary insights into health care financial risk and hospital surge capacity, Part 4: What size does a health insurer or health authority need to be to minimise risk? *Journal of Health Care Finance*. 47(3): <http://www.healthfinancejournal.com/~junland/index.php/johcf/index>

### **Outbreaks of a New Type of Infectious Immune Impairment Affecting Deaths and Medical Admissions (The World Health Organisation's Disease X?)**

Jones R (2010) Unexpected, periodic and permanent increase in medical inpatient care: man-made or new disease. *Medical Hypotheses* 74: 978-83. doi: <http://dx.doi.org/10.1016/j.mehy.2010.01.011>

Jones R (2010) Can time-related patterns in diagnosis for hospital admission help identify common root causes for disease expression. *Medical Hypotheses* 75: 148-154. doi: <http://dx.doi.org/10.1016/j.mehy.2010.02.009>

Jones R (2010) The case for recurring outbreaks of a new type of infectious disease across all parts of the United Kingdom. *Medical Hypotheses* 75: 452-457. doi: <http://dx.doi.org/10.1016/j.mehy.2010.04.023>

- Jones R (2013) Do recurring outbreaks of a type of infectious immune impairment trigger cyclic changes in the gender ratio at birth? *Biomedicine International* 4(1): 26-39. <https://www.bmijournal.org/index.php/bmi/article/download/27/25>
- Jones R (2013) Widespread outbreaks of a subtle condition leading to hospitalization and death. *Epidemiology: Open access* 4(3): 137. doi: 10.4172/2161-1165.1000137
- Jones R (2014) Unexpected single-year-of-age changes in the elderly mortality rate in 2012 in England and Wales. *Journal of Advances in Medicine and Medical Research* 4(16): 3196-3207. <https://journaljammr.com/index.php/JAMMR/article/view/15127>
- Jones R (2015) Unexpected and Disruptive Changes in Admissions Associated with an Infectious-like Event Experienced at a Hospital in Berkshire, England around May of 2012. *Journal of Advances in Medicine and Medical Research* 6(1): 56-76. [Unexpected and Disruptive Changes in Admissions Associated with an Infectious-like Event Experienced at a Hospital in Berkshire, England around May of 2012 | Journal of Advances in Medicine and Medical Research \(journaljammr.com\)](https://journaljammr.com/index.php/JAMMR/article/view/15127)
- Jones R (2015) A previously uncharacterized infectious-like event leading to spatial spread of deaths across England and Wales: Characteristics of the most recent event and a time series for past events. *Journal of Advances in Medicine and Medical Research* 5(11): 1361-1380. [A Previously Uncharacterized Infectious-like Event Leading to Spatial Spread of Deaths Across England and Wales: Characteristics of the most Recent Event and a Time Series for Past Events | Journal of Advances in Medicine and Medical Research \(journaljammr.com\)](https://journaljammr.com/index.php/JAMMR/article/view/15127)
- Jones R (2015) Are emergency admissions contagious? *BJHCM* 21(5): 227-235. [http://www.hcaf.biz/2015/Double\\_Epidemic.pdf](http://www.hcaf.biz/2015/Double_Epidemic.pdf)
- Jones R (2015) Recurring outbreaks of an infection apparently targeting immune function, and consequent unprecedented growth in medical admission and costs in the United Kingdom: A review. *Brit J Med and Medical Research* 6(8): 735-770. [Recurring Outbreaks of an Infection Apparently Targeting Immune Function, and Consequent Unprecedented Growth in Medical Admission and Costs in the United Kingdom: A Review | Journal of Advances in Medicine and Medical Research \(journaljammr.com\)](https://journaljammr.com/index.php/JAMMR/article/view/15127)
- Jones R (2016) A presumed infectious event in England and Wales during 2014 and 2015 leading to higher deaths in those with neurological and other disorders. *Journal of Neuroinfectious Diseases* 7(1): 1000213 doi: 10.4172/2314-7326.1000213
- Jones R (2017) A reduction in acute thrombotic admissions during a period of unexplained increased deaths and medical admissions in the UK. *European Journal of Internal Medicine* 46: e31-e33 doi: <http://dx.doi.org/10.1016/j.ejim.2017.09.007>
- Jones R (2017) Age-specific and year of birth changes in hospital admissions during a period of unexplained higher deaths in England. *European Journal of Internal Medicine* 45: 2-4. doi: <http://dx.doi.org/10.1016/j.ejim.2017.09.039>
- Jones R (2018) Periods of unexplained higher deaths and medical admissions have occurred previously – but were apparently ignored, misinterpreted, or not investigated. *European Journal of Internal Medicine* 40: e18-e20. <https://doi.org/10.1016/j.ejim.2017.11.004>
- Jones R (2018) Do outbreaks of ‘Disease X’ regulate NHS beds and costs? *BJHCM* 24(4): 204-205. [http://www.hcaf.biz/2018/Bed\\_Disease\\_X.pdf](http://www.hcaf.biz/2018/Bed_Disease_X.pdf)
- Jones R (2018) Deaths in 2017 reached a new (unexpected) high. *BJHCM* 24(5): 256-257. [http://www.hcaf.biz/2018/Deaths\\_2017.pdf](http://www.hcaf.biz/2018/Deaths_2017.pdf)
- Jones R (2019) Unusual international behaviour of deaths suggests a possible new kind of disease outbreak. Healthcare Analysis & Forecasting. Via SSRN <http://ssrn.com/abstract=3364795>
- Jones R (2019) Why are deaths in the UK behaving in such a peculiar way? Healthcare Analysis & Forecasting. doi: 10.13140/RG.2.2.13685.42728

### Small-Area Spatiotemporal Patterns in the Spread of a New Type or Kind of Infectious Disease (The WHO Disease X?)

- Jones R (2013) A recurring series of infectious-like events leading to excess deaths, emergency department attendances and medical admissions in Scotland. *Biomedicine International* 4(2): 72-86. <http://www.bmijournal.org/index.php/bmi/article/view/35>
- Jones R (2014) Infectious-like Spread of an Agent Leading to Increased Medical Admissions and Deaths in Wigan (England), during 2011 and 2012. *Journal of Advances in Medicine and Medical Research* 4(28): 4723-4741 [Infectious-like Spread of an Agent Leading to Increased Medical Admissions and Deaths in Wigan \(England\), during 2011 and 2012 | Journal of Advances in Medicine and Medical Research \(journaljammr.com\)](https://journaljammr.com/index.php/JAMMR/article/view/15127)
- Jones R, Beauchant S (2015) Spread of a new type of infectious condition across Berkshire in England between June 2011 and March 2013: Effect on medical emergency admissions. *Journal of Advances in Medicine and Medical Research* 6(1): 126-148. [Small Area Spread of a New Type of Infectious Condition across Berkshire in England between June 2011 and March 2013: Effect on Medical Emergency Admissions | Journal of Advances in Medicine and Medical Research \(journaljammr.com\)](https://journaljammr.com/index.php/JAMMR/article/view/15127)
- Jones R (2015) Simulated rectangular wave infectious-like events replicate the diversity of time-profiles observed in real-world running 12-month totals of admissions or deaths. *FGNAMB* 1(3): 78-79. doi: 10.15761/FGNAMB.1000114
- Jones R (2015) A new type of infectious outbreak? *SMU Medical Journal* 2(1): 19-25. <http://smu.edu.in/content/dam/manipal/smu/documents/Journal%20Issue%203/A%20New%20Type%20of%20Infectious%20Outbreak.pdf>
- Jones R (2015) Small area spread and step-like changes in emergency medical admissions in response to an apparently new type of infectious event. *FGNAMB* 1(2): 42-54. doi: 10.15761/FGNAMB.1000110
- Jones R (2015) Infectious-like spread of an agent leading to increased medical hospital admission in the North East Essex area of the East of England. *FGNAMB* 1(3): 98-111. doi: 10.15761/FGNAMB.1000117
- Jones R (2015) A time series of infectious-like events in Australia between 2000 and 2013 leading to extended periods of increased deaths (all-cause mortality) with possible links to increased hospital medical admissions. *International Journal of Epidemiologic Research* 2(2): 53-67. [http://ijer.skums.ac.ir/article\\_12869\\_2023.html](http://ijer.skums.ac.ir/article_12869_2023.html)
- Jones R (2015) Deaths and international health care expenditure. *BJHCM* 21(10): 491-493. [http://www.hcaf.biz/2015/Deaths\\_international.pdf](http://www.hcaf.biz/2015/Deaths_international.pdf)
- Jones R (2016) A fatal flaw in mortality-based disease surveillance. *BJHCM* 22(3): 143-145. [http://www.hcaf.biz/2016/Flaw\\_monitoring.pdf](http://www.hcaf.biz/2016/Flaw_monitoring.pdf)
- Jones R (2016) Deaths in English Lower Super Output Areas (LSOA) show patterns of very large shifts indicative of a novel recurring infectious event. *SMU Medical Journal* 3(2): 23-36. <https://pdfs.semanticscholar.org/c3aa/71a1b78e053cba4a871093dd43aa896d9ef6.pdf>
- Jones R (2016) A regular series of unexpected and large increases in total deaths (all-cause mortality) for male and female residents of mid super output areas (MSOA) in England and Wales: How high-level analysis can miss the contribution from complex small-area spatial spread of a presumed infectious agent. *Fractal Geometry and Nonlinear Analysis in Medicine and Biology* 2(2): 1-13. doi: 10.15761/FGNAMB.1000129
- Jones R (2017) Outbreaks of a presumed infectious agent associated with changes in fertility, stillbirth, congenital abnormalities and the gender ratio at birth. *Journal of Advances in Medicine and Medical Research* 20(8): 1-36. doi: 10.9734/BJMMR/2017/32372
- Jones R (2017) Outbreaks of a presumed infectious pathogen creating on/off switching in deaths. *SDRP Journal of Infectious Diseases Treatment and Therapy* 1(1): 1-6. <http://www.openaccessjournals.siftdesk.org/articles/pdf/Outbreaks-of-a-presumed-infectious-pathogen-creating-on-off-switching-in-deaths20170606102727.pdf>
- Jones R (2017) Year-to-year variation in deaths in English Output Areas (OA), and the interaction between a presumed infectious agent and influenza in 2015. *SMU Medical Journal* 4(2): 37-69. <http://smu.edu.in/content/dam/manipal/smu/smims/Volume4No2July2017/SMU%20Med%20July%202017%20-%204.pdf>
- Jones R (2017) Deaths and medical admissions – what is happening in the UK? *FGNAMB* 3(1): 1. doi: 10.15761/FGNAMB.1000143
- Jones R (2018) Deaths and medical admissions in the UK show an unexplained and sustained peak after 2011. *European Journal of Internal Medicine* 47: e14-e16. DOI: <http://dx.doi.org/10.1016/j.ejim.2017.09.021>



## Cytomegalovirus (CMV) and Human Disease

Jones R (2011) CMV and health care costs. *BJHCM* 17(4): 168-169.

Jones R (2013) Could cytomegalovirus be causing widespread outbreaks of chronic poor health? In *Hypotheses in Clinical Medicine*, pp 37-79, Eds M. Shoja, et al. New York: Nova Science Publishers Inc. Available from: [http://www.hcaf.biz/2013/CMV\\_Read.pdf](http://www.hcaf.biz/2013/CMV_Read.pdf)

Jones R (2014) A Study of an unexplained and large increase in respiratory deaths in England and Wales: Is the pattern of diagnoses consistent with the potential involvement of Cytomegalovirus? *Journal of Advances in Medicine and Medical Research* 4(33): 5179-5192. [A Study of an Unexplained and Large Increase in Respiratory Deaths in England and Wales: Is the Pattern of Diagnoses Consistent with the Potential Involvement of Cytomegalovirus? | Journal of Advances in Medicine and Medical Research \(journaljammr.com\)](#)

Jones R, Goldeck D (2014) Unexpected and unexplained increase in death due to neurological disorders in 2012 in England and Wales: Is cytomegalovirus implicated? *Medical Hypotheses* 83(1): 25-31. <http://dx.doi.org/10.1016/j.mehy.2014.04.016>

Jones R (2015) Roles for cytomegalovirus in infection, inflammation and autoimmunity. In *Infection and Autoimmunity*, 2<sup>nd</sup> Edition, Eds: N Rose, et al. Elsevier: Amsterdam. Chapter 18, pp 319-357. doi:10.1016/B978-0-444-63269-2.00068-4

Jones R (2015) An unexpected increase in adult appendicitis in England (2000/01 to 2012/13): Could cytomegalovirus (CMV) be a risk factor? *Journal of Advances in Medicine and Medical Research* 5(5): 579-603. [An Unexpected Increase in Adult Appendicitis in England \(2000/01 to 2012/13\): Could Cytomegalovirus \(CMV\) be A Risk Factor? | Journal of Advances in Medicine and Medical Research \(journaljammr.com\)](#)

Jones R (2016) Is cytomegalovirus involved in recurring periods of higher than expected death and medical admissions, occurring as clustered outbreaks in the northern and southern hemispheres? *Journal of Advances in Medicine and Medical Research* 11(2): 1-31. <https://journaljammr.com/index.php/JAMMR/article/view/9833>

Jones R (2017) International outbreaks of a novel type of infectious immune impairment: A call to action.

*Досягнення біології та медицини (Achievements of Biology and Medicine - transl)* 29(1): 75-81.

[http://files.odmu.edu.ua/biomed/2017/01/d171\\_75.pdf](http://files.odmu.edu.ua/biomed/2017/01/d171_75.pdf) or [BIO171a.pm6 \(hcaf.biz\)](http://BIO171a.pm6(hcaf.biz))

Jones R (2017) Outbreaks of a presumed infectious agent associated with changes in fertility, stillbirth, congenital abnormalities and the gender ratio at birth. *Journal of Advances in Medicine and Medical Research* 20(8): 1-36. [Outbreaks of a Presumed Infectious Agent Associated with Changes in Fertility, Stillbirth, Congenital Abnormalities and the Gender Ratio at Birth | Journal of Advances in Medicine and Medical Research \(journaljammr.com\)](#)

### Data Quality

Jones R (1995) Check your outpatient data. *Fundholding* 4(6): 24-25.

Jones R (1996) Getting the best from hospital patient information. Healthcare Analysis & Forecasting, UK. <http://www.hcaf.biz/Recent/Handbook.pdf>

Jones R (2007) A level playing field? A discussion document for PCT's exploring the implications of how events get counted at acute trusts. Healthcare Analysis & Forecasting, UK. <http://www.hcaf.biz/For%20PCTs/Microsoft%20Word%20-%20Level%20playing%20field.pdf>

---

*Dr Rodney Jones has 30-years' experience in health care demand forecasting, capacity and bed number planning, and financial risk in health care purchasing and commissioning. He provides capacity and demand forecasting advice to healthcare organisations, see [www.hcaf.biz](http://www.hcaf.biz)*

*He has published over 300 papers and reports on these topics. His 'Research Interest' score places him in the top 5% (top 25% for researchers of the same age) of international researchers out of 20+ million Research Gate members. His papers have over 1,000 citations [https://www.researchgate.net/profile/Rodney\\_Jones](https://www.researchgate.net/profile/Rodney_Jones).*

**Researcher ID: D-2972-201; ORCID ID: 0000-0002-4810-7638**

---

Dr Rodney Jones can be contacted at: [hcaf\\_rod@yahoo.co.uk](mailto:hcaf_rod@yahoo.co.uk) or 07890 640399

## Biotechnology Publications

- Jones R, Greenfield P. The potential for fuel alcohol production from cellulose. Department of Chemical Engineering, University of Queensland, 1980. A report to the Queensland Government, Department of Trade and Industry.
- Jones R, Pammment N, Greenfield P. Alcohol fermentation by yeast – the effect of environment and other variables. **Process Biochemistry** 1981; 16(3): 42-49.
- Jones R, Greenfield P. Batch ethanol production with dual organisms. **Biotechnology Letters** 1981; 3(5): 225-30.
- Jones R, Greenfield P. Effects of carbon dioxide on yeast growth and fermentation. **Enzyme and Microbial Technology** 1982; 4(4): 210-23.
- Jones R, Greenfield P. A review of yeast ionic nutrition – growth and fermentation requirements. **Process Biochemistry** 1984; 19, 48-60.
- Jones R, Greenfield P. Kinetics of yeast apparent cell death induced by ethanol. **Biotechnology Letters** 1984; 6(6): 461-71.
- Jones R, Greenfield P. Replicative inactivation and metabolic inhibition in yeast ethanol fermentations. **Biotechnology Letters** 1985; 7(4): 223-28
- Jones R. Ethanol-environment interactions influencing fermentative yeast growth. PhD thesis, University of Queensland, 1985.
- Jones R, Greenfield P. Role of water activity in ethanol fermentations. **Biotechnology and Bioengineering** 1986; 28(1): 29-40.
- Jones R. Effect of relative concentration of ion species on yeast growth and ethanol production. **Process Biochemistry** 1986; 21, 183-87
- Jones R, Greenfield P. Ethanol and the fluidity of the yeast plasma membrane. **Yeast** 1987; 3(4): 223-32.
- Jones R, Greenfield P. Specific and non-specific inhibitory effects of ethanol on yeast growth. **Enzyme and Microbial Technology** 1987; 9(6): 334-8.
- Jones R. Factors influencing the deactivation of yeast cells exposed to ethanol. **Journal of Applied Bacteriology** 1987; 63(2): 153-64.
- Jones R. Measures of yeast death and deactivation and their meaning. **Process Biochemistry** 1987; 22(4): 118-128.
- Jones R. Intracellular ethanol accumulation and exit from yeast and other cells. **FEMS Microbiology Letters** 1988; 54(8): 239-58
- Jones R. Biological principles for the effects of ethanol. **Enzyme and Microbial Technology** 1989; 11(3): 130-153.
- Jones R. Roles for replicative deactivation in yeast-ethanol fermentations. **Critical Reviews in Biotechnology** 1990; 10(3): 205-22
- Jones R, Gadd G. Ionic nutrition of yeast – physiological mechanisms involved and implications for biotechnology. **Enzyme and Microbial Technology** 1990; 12(6): 402-418.