

Multimorbidity publications May - August 2018

1. Mounce LTA, Campbell JL, Henley WE, et al. Predicting Incident Multimorbidity. *Ann Fam Med* 2018;16(4):322-29. doi: 10.1370/afm.2271
2. Taleshan N, Petersen JH, Schioetz ML, et al. Multimorbidity and mortality thereof, among non-western refugees and family reunification immigrants in Denmark - a register based cohort study. *BMC Public Health* 2018;18(1):844. doi: 10.1186/s12889-018-5785-y
3. Mondor L, Cohen D, Khan AI, et al. Income inequalities in multimorbidity prevalence in Ontario, Canada: a decomposition analysis of linked survey and health administrative data. *Int J Equity Health* 2018;17(1):90. doi: 10.1186/s12939-018-0800-6
4. Han BH, Moore AA, Sherman SE, et al. Prevalence and correlates of binge drinking among older adults with multimorbidity. *Drug Alcohol Depend* 2018;187:48-54. doi: 10.1016/j.drugalcdep.2018.01.038
5. Hussin NM, Shahar S, Din NC, et al. Incidence and predictors of multimorbidity among a multiethnic population in Malaysia: a community-based longitudinal study. *Aging Clin Exp Res* 2018 doi: 10.1007/s40520-018-1007-9
6. Ryan BL, Bray Jenkyn K, Shariff SZ, et al. Beyond the grey tsunami: a cross-sectional population-based study of multimorbidity in Ontario. *Can J Public Health* 2018 doi: 10.17269/s41997-018-0103-0
7. Tetzlaff J, Epping J, Sperlich S, et al. Widening inequalities in multimorbidity? Time trends among the working population between 2005 and 2015 based on German health insurance data. *Int J Equity Health* 2018;17(1):103. doi: 10.1186/s12939-018-0815-z
8. Jacob L, Haro JM, Koyanagi A. Post-traumatic stress symptoms are associated with physical multimorbidity: Findings from the Adult Psychiatric Morbidity Survey 2007. *J Affect Disord* 2018;232:385-92. doi: 10.1016/j.jad.2018.02.063
9. Jureviciene E, Onder G, Visockiene Z, et al. Does multimorbidity still remain a matter of the elderly: Lithuanian national data analysis. *Health Policy* 2018;122(6):681-86. doi: 10.1016/j.healthpol.2018.03.003
10. Stanley J, Semper K, Millar E, et al. Epidemiology of multimorbidity in New Zealand: a cross-sectional study using national-level hospital and pharmaceutical data. *BMJ Open* 2018;8(5):e021689. doi: 10.1136/bmjopen-2018-021689
11. Violan C, Roso-Llorach A, Foguet-Boreu Q, et al. Multimorbidity patterns with K-means nonhierarchical cluster analysis. *BMC Fam Pract* 2018;19(1):108. doi: 10.1186/s12875-018-0790-x
12. Calderon-Larranaga A, Santoni G, Wang HX, et al. Rapidly developing multimorbidity and disability in older adults: does social background matter? *J Intern Med* 2018;283(5):489-99. doi: 10.1111/joim.12739
13. Jin L, Guo X, Dou J, et al. Multimorbidity Analysis According to Sex and Age towards Cardiovascular Diseases of Adults in Northeast China. *Sci Rep* 2018;8(1):8607. doi: 10.1038/s41598-018-25561-y
14. Islas-Granillo H, Medina-Solis CE, de Lourdes Marquez-Corona M, et al. Prevalence of multimorbidity in subjects aged  $\geq 60$  years in a developing country. *Clinical interventions in aging* 2018;13:1129-33. doi: 10.2147/CIA.S154418
15. Poitras ME, Maltais ME, Bestard-Denomme L, et al. What are the effective elements in patient-centered and multimorbidity care? A scoping review. *BMC Health Serv Res* 2018;18(1):446. doi: 10.1186/s12913-018-3213-8

16. Singh-Manoux A, Fayosse A, Sabia S, et al. Clinical, socioeconomic, and behavioural factors at age 50 years and risk of cardiometabolic multimorbidity and mortality: A cohort study. *PLoS Med* 2018;15(5):e1002571. doi: 10.1371/journal.pmed.1002571
17. Vetrano DL, Palmer K, Marengoni A, et al. Frailty and multimorbidity: a systematic review and meta-analysis. *J Gerontol A Biol Sci Med Sci* 2018 doi: 10.1093/gerona/gly110
18. Chaplin K, Bower P, Man MS, et al. Understanding usual care for patients with multimorbidity: baseline data from a cluster-randomised trial of the 3D intervention in primary care. *BMJ Open* 2018;8(8):e019845. doi: 10.1136/bmjopen-2017-019845
19. Barker K, Holland AE, Lee AL, et al. A rehabilitation programme for people with multimorbidity versus usual care: A pilot randomized controlled trial. *J Comorb* 2018;8(1):2235042X18783918. doi: 10.1177/2235042X18783918
20. Ge L, Yap CW, Heng BH. Sex differences in associations between multimorbidity and physical function domains among community-dwelling adults in Singapore. *PLoS One* 2018;13(5):e0197443. doi: 10.1371/journal.pone.0197443
21. Cheung JTK, Yu R, Wu Z, et al. Geriatric syndromes, multimorbidity, and disability overlap and increase healthcare use among older Chinese. *BMC Geriatr* 2018;18(1):147. doi: 10.1186/s12877-018-0840-1
22. Chen H, Chen Y, Cui B. The association of multimorbidity with healthcare expenditure among the elderly patients in Beijing, China. *Arch Gerontol Geriatr* 2018;79:32-38. doi: 10.1016/j.archger.2018.07.008
23. Wister A, Lear S, Schuurman N, et al. Development and validation of a multi-domain multimorbidity resilience index for an older population: results from the baseline Canadian Longitudinal Study on Aging. *BMC Geriatr* 2018;18(1):170. doi: 10.1186/s12877-018-0851-y
24. Lupianez-Villanueva F, Anastasiadou D, Codagnone C, et al. Electronic Health Use in the European Union and the Effect of Multimorbidity: Cross-Sectional Survey. *J Med Internet Res* 2018;20(5):e165. doi: 10.2196/jmir.7299
25. Leijten FRM, Hoedemakers M, Struckmann V, et al. Defining good health and care from the perspective of persons with multimorbidity: results from a qualitative study of focus groups in eight European countries. *BMJ Open* 2018;8(8):e021072. doi: 10.1136/bmjopen-2017-021072
26. Amer Nordin A, Mohd Hairi F, Choo WY, et al. Care Recipient Multimorbidity and Health Impacts on Informal Caregivers: A Systematic Review. *Gerontologist* 2018 doi: 10.1093/geront/gny072
27. Nguyen QD, Wu C, Odden MC, et al. Multimorbidity Patterns, Frailty, and Survival in Community-Dwelling Older Adults. *J Gerontol A Biol Sci Med Sci* 2018 doi: 10.1093/gerona/gly205
28. Randall DA, Lujic S, Havard A, et al. Multimorbidity among Aboriginal people in New South Wales contributes significantly to their higher mortality. *Med J Aust* 2018;209(1):19-23.
29. Wang L, Cocker F, Kilpatrick M, et al. The Associations of Multimorbidity With Health-Related Productivity Loss in a Large and Diverse Public Sector Setting: A Cross-Sectional Survey. *J Occup Environ Med* 2018;60(6):528-35. doi: 10.1097/JOM.0000000000001243
30. von Buedingen F, Hammer MS, Meid AD, et al. Changes in prescribed medicines in older patients with multimorbidity and polypharmacy in general practice. *BMC Fam Pract* 2018;19(1):131. doi: 10.1186/s12875-018-0825-3
31. Harrison SM, Wei MY, Lamerato LE, et al. Multimorbidity is associated with uptake of influenza vaccination. *Vaccine* 2018;36(25):3635-40. doi: 10.1016/j.vaccine.2018.05.021

32. Panagioti M, Reeves D, Meacock R, et al. Is telephone health coaching a useful population health strategy for supporting older people with multimorbidity? An evaluation of reach, effectiveness and cost-effectiveness using a 'trial within a cohort'. *BMC Med* 2018;16(1):80. doi: 10.1186/s12916-018-1051-5
33. van den Brink AMA, Gerritsen DL, de Valk MMH, et al. What do nursing home residents with mental-physical multimorbidity need and who actually knows this? A cross-sectional cohort study. *Int J Nurs Stud* 2018;81:89-97. doi: 10.1016/j.ijnurstu.2018.02.008
34. Deruaz-Luyet A, N'Goran AA, Pasquier J, et al. Multimorbidity: can general practitioners identify the health conditions most important to their patients? Results from a national cross-sectional study in Switzerland. *BMC Fam Pract* 2018;19(1):66. doi: 10.1186/s12875-018-0757-y
35. Hanlon P, Nicholl BI, Jani BD, et al. Frailty and pre-frailty in middle-aged and older adults and its association with multimorbidity and mortality: a prospective analysis of 493 737 UK Biobank participants. *Lancet Public Health* 2018;3(7):e323-e32. doi: 10.1016/S2468-2667(18)30091-4
36. Mazya AL, Garvin P, Ekdahl AW. Outpatient comprehensive geriatric assessment: effects on frailty and mortality in old people with multimorbidity and high health care utilization. *Aging Clin Exp Res* 2018 doi: 10.1007/s40520-018-1004-z
37. Nicholson C, Davies JM, George R, et al. What are the main palliative care symptoms and concerns of older people with multimorbidity?-a comparative cross-sectional study using routinely collected Phase of Illness, Australia-modified Karnofsky Performance Status and Integrated Palliative Care Outcome Scale data. *Ann Palliat Med* 2018 doi: 10.21037/apm.2018.06.07
38. Stanley J, Millar E, Semper K, et al. The impact of multimorbidity on people's lives: a cross-sectional survey. *N Z Med J* 2018;131(1477):78-90.
39. Johnston MC, Crilly M, Black C, et al. Defining and measuring multimorbidity: a systematic review of systematic reviews. *Eur J Public Health* 2018 doi: 10.1093/eurpub/cky098
40. Gonzalez-Bueno J, Calvo-Cidoncha E, Sevilla-Sanchez D, et al. Patient-Centered Prescription Model to improve therapeutic adherence in patients with multimorbidity. *Fam Hosp* 2018;42(3):128-34. doi: 10.7399/fh.10961
41. Irfan Khan A, Gill A, Cott C, et al. mHealth Tools for the Self-Management of Patients With Multimorbidity in Primary Care Settings: Pilot Study to Explore User Experience. *JMIR Mhealth Uhealth* 2018;6(8):e171. doi: 10.2196/mhealth.8593
42. Gates ML, Hunter EG, Dicks V, et al. Multimorbidity patterns and associations with functional limitations among an aging population in prison. *Arch Gerontol Geriatr* 2018;77:115-23. doi: 10.1016/j.archger.2018.03.012
43. Romano I, Buchan MC, Ferro MA. Multimorbidity in children and youth: a scoping review protocol. *BMJ Open* 2018;8(5):e022413. doi: 10.1136/bmjopen-2018-022413
44. Caughey GE, Hillen JB, Bacon S, et al. Implementation of medication-related indicators of potentially preventable hospitalizations in a national chronic disease management program for older patients with multimorbidity. *Int J Qual Health Care* 2018 doi: 10.1093/intqhc/mzy133
45. Gebregziabher M, Ward RC, Taber DJ, et al. Ethnic and geographic variations in multimorbidity: Evidence from three large cohorts. *Soc Sci Med* 2018;211:198-206. doi: 10.1016/j.socscimed.2018.06.020
46. Gnadinger M, Herzig L, Ceschi A, et al. Chronic conditions and multimorbidity in a primary care population: a study in the Swiss Sentinel Surveillance Network (Sentinella). *Int J Public Health* 2018 doi: 10.1007/s00038-018-1114-6

47. Tyack Z, Kuys S, Cornwell P, et al. Reproducibility, longitudinal validity and interpretability of the disease burden morbidity assessment in people with chronic disease. *Chronic Illn* 2018;1742395318789469. doi: 10.1177/1742395318789469
48. Markle-Reid M, Ploeg J, Valaitis R, et al. Protocol for a program of research from the Aging, Community and Health Research Unit: Promoting optimal aging at home for older adults with multimorbidity. *J Comorb* 2018;8(1):2235042X18789508. doi: 10.1177/2235042X18789508
49. England-Mason G, Casey R, Ferro M, et al. Child maltreatment and adult multimorbidity: results from the Canadian Community Health Survey. *Can J Public Health* 2018;109(4):561-72. doi: 10.17269/s41997-018-0069-y
50. Silber JH, Reiter JG, Rosenbaum PR, et al. Defining Multimorbidity in Older Surgical Patients. *Med Care* 2018;56(8):701-10. doi: 10.1097/MLR.0000000000000947
51. Kim N, Nam HJ, Noh J, et al. The effect of multimorbidity on the gap between global and age-comparative self-rated health scores among the Korean elderly. *Arch Gerontol Geriatr* 2018;76:19-25. doi: 10.1016/j.archger.2018.01.002
52. Kingston A, Robinson L, Booth H, et al. Projections of multi-morbidity in the older population in England to 2035: estimates from the Population Ageing and Care Simulation (PACSim) model. *Age Ageing* 2018;47(3):374-80. doi: 10.1093/ageing/afx201
53. Moen K, Ormstad H, Wang-Hansen MS, et al. Physical function of elderly patients with multimorbidity upon acute hospital admission versus 3 weeks post-discharge. *Disabil Rehabil* 2018;40(11):1280-87. doi: 10.1080/09638288.2017.1294211
54. Zemedikun DT, Gray LJ, Khunti K, et al. Patterns of Multimorbidity in Middle-Aged and Older Adults: An Analysis of the UK Biobank Data. *Mayo Clin Proc* 67(2):144-57 2018;93(7):857-66. doi: 10.1016/j.mayocp.2018.02.012
55. Heid AR, Pruchno R, Wilson-Genderson M. Illness Representations of Multiple Chronic Conditions and Self-Management Behaviors in Older Adults: A Pilot Study. *Int J Aging Hum Dev* 2018;87(1):90-106. doi: 10.1177/0091415018771327
56. Bunn F, Goodman C, Russell B, et al. Supporting shared decision making for older people with multiple health and social care needs: a realist synthesis. *BMC Geriatr* 2018;18(1):165. doi: 10.1186/s12877-018-0853-9
57. Martin Lesende I, Mendibil Crespo LI, Castano Manzanares S, et al. Functional decline and associated factors in patients with multimorbidity at 8 months of follow-up in primary care: the functionality in pluripathological patients (FUNCIPLUR) longitudinal descriptive study. *BMJ Open* 2018;8(7):e022377. doi: 10.1136/bmjopen-2018-022377
58. Humphreys J, Jameson K, Cooper C, et al. Early-life predictors of future multi-morbidity: results from the Hertfordshire Cohort. *Age Ageing* 2018;47(3):474-78. doi: 10.1093/ageing/afy005
59. Rutten-van Molken M, Leijten F, Hoedemakers M, et al. Strengthening the evidence-base of integrated care for people with multi-morbidity in Europe using Multi-Criteria Decision Analysis (MCDA). *BMC Health Serv Res* 2018;18(1):576. doi: 10.1186/s12913-018-3367-4
60. Kastner M, Cardoso R, Lai Y, et al. Effectiveness of interventions for managing multiple high-burden chronic diseases in older adults: a systematic review and meta-analysis. *CMAJ* 2018;190(34):E1004-E12. doi: 10.1503/cmaj.171391
61. Rieckert A, Trampisch US, Klaassen-Mielke R, et al. Polypharmacy in older patients with chronic diseases: a cross-sectional analysis of factors associated with excessive polypharmacy. *BMC Fam Pract* 2018;19(1):113. doi: 10.1186/s12875-018-0795-5

62. Vainieri M, Quercioli C, Maccari M, et al. Reported experience of patients with single or multiple chronic diseases: empirical evidence from Italy. *BMC Health Serv Res* 2018;18(1):659. doi: 10.1186/s12913-018-3431-0
63. Vancampfort D, Smith L, Stubbs B, et al. Associations between active travel and physical multi-morbidity in six low- and middle-income countries among community-dwelling older adults: A cross-sectional study. *PLoS One* 2018;13(8):e0203277. doi: 10.1371/journal.pone.0203277
64. Swietek KE, Domino ME, Beadles C, et al. Do Medical Homes Improve Quality of Care for Persons with Multiple Chronic Conditions? *Health Serv Res* 2018 doi: 10.1111/1475-6773.13024
65. Iglesias FH, Celada CA, Navarro CB, et al. Complex Care Needs in Multiple Chronic Conditions: Population Prevalence and Characterization in Primary Care. A Study Protocol. *Int J Integr Care* 2018;18(2):16. doi: 10.5334/ijic.3292
66. Mannucci PM, Nobili A, Pasina L, et al. Polypharmacy in older people: lessons from 10 years of experience with the REPOSI register. *Intern Emerg Med* 2018 doi: 10.1007/s11739-018-1941-8
67. Behm L, Bjorkman E, Ahlstrom G. Mental health and reactions to caregiving among next of kin of older people (65+) with multi-morbidity discharged home after hospitalization. *Scand J Caring Sci* 2018 doi: 10.1111/scs.12592
68. Bratzke LC, Carlson BA, Moon C, et al. Multiple chronic conditions: Implications for cognition - Findings from the Wisconsin Registry for Alzheimer's Prevention (WRAP). *Appl Nurs Res* 2018;42:56-61. doi: 10.1016/j.apnr.2018.06.004
69. King DE, Xiang J, Pilkerton CS. Multimorbidity Trends in United States Adults, 1988-2014. *J Am Board Fam Med* 2018;31(4):503-13. doi: 10.3122/jabfm.2018.04.180008
70. Hajat C, Kishore SP. The case for a global focus on multiple chronic conditions. *BMJ Glob Health* 2018;3(3):e000874. doi: 10.1136/bmjgh-2018-000874
71. DuGoff EH. Continuity of Care in Older Adults With Multiple Chronic Conditions: How Well Do Administrative Measures Correspond With Patient Experiences? *J Healthc Qual* 2018;40(3):120-28. doi: 10.1097/JHQ.0000000000000051
72. Ko D, Bratzke LC, Roberts T. Self-management assessment in multiple chronic conditions: A narrative review of literature. *Int J Nurs Stud* 2018;83:83-90. doi: 10.1016/j.ijnurstu.2018.04.009
73. Collins DM, Downer B, Kumar A, et al. Impact of Multiple Chronic Conditions on Activity Limitations Among Older Mexican-American Care Recipients. *Prev Chronic Dis* 2018;15:E51. doi: 10.5888/pcd15.170358
74. Francis H, Carryer J, Wilkinson J. Self-management support? Listening to people with complex co-morbidities. *Chronic Illn* 2018;1742395318796176. doi: 10.1177/1742395318796176
75. De Maria M, Vellone E, Ausili D, et al. Self-care of patient and caregiver DyAds in multiple chronic conditions: A Longitudinal study (SODALITY) protocol. *J Adv Nurs* 2018 doi: 10.1111/jan.13834
76. Salisbury C, Man MS, Bower P, et al. Management of multimorbidity using a patient-centred care model: a pragmatic cluster-randomised trial of the 3D approach. *Lancet* 2018;392(10141):41-50. doi: 10.1016/S0140-6736(18)31308-4
77. Fredericksen RJ, Gibbons L, Brown S, et al. Medication understanding among patients living with multiple chronic conditions: Implications for patient-reported measures of adherence. *Res Social Adm Pharm* 2018;14(6):540-44. doi: 10.1016/j.sapharm.2017.06.009

78. Ferris R, Blaum C, Kiwak E, et al. Perspectives of Patients, Clinicians, and Health System Leaders on Changes Needed to Improve the Health Care and Outcomes of Older Adults With Multiple Chronic Conditions. *J Aging Health* 2018;30(5):778-99. doi: 10.1177/0898264317691166
79. Rose AJ, Bayliss E, Huang W, et al. Evaluating the PROMIS-29 v2.0 for use among older adults with multiple chronic conditions. *Qual Life Res* 2018;27(11):2935-44. doi: 10.1007/s11136-018-1958-5
80. Faruqi SHA, Alaeddini A, Jaramillo CA, et al. Mining patterns of comorbidity evolution in patients with multiple chronic conditions using unsupervised multi-level temporal Bayesian network. *PLoS One* 2018;13(7):e0199768. doi: 10.1371/journal.pone.0199768
81. Zidan A, Awaisu A, El-Hajj MS, et al. Medication-Related Burden among Patients with Chronic Disease Conditions: Perspectives of Patients Attending Non-Communicable Disease Clinics in a Primary Healthcare Setting in Qatar. *Pharmacy (Basel)* 2018;6(3) doi: 10.3390/pharmacy6030085
82. Li Y, White K, O'Shields KR, et al. Light-Intensity Physical Activity and Cardiometabolic Risk Among Older Adults With Multiple Chronic Conditions. *Am J Health Promot* 2018;890117118796459. doi: 10.1177/0890117118796459
83. Jia H, Lubetkin EI, Barile JP, et al. Quality-adjusted Life Years (QALY) for 15 Chronic Conditions and Combinations of Conditions Among US Adults Aged 65 and Older. *Med Care* 2018;56(8):740-46. doi: 10.1097/MLR.0000000000000943
84. Liu H, Lou VWQ. Transitioning into spousal caregiving: contribution of caregiving intensity and caregivers' multiple chronic conditions to functional health. *Age Ageing* 2018 doi: 10.1093/ageing/afy098
85. Mann C, Shaw A, Wye L, et al. A computer template to enhance patient-centredness in multimorbidity reviews: a qualitative evaluation in primary care. *Br J Gen Pract* 2018;68(672):e495-e504. doi: 10.3399/bjgp18X696353
86. Backman C, Stacey D, Crick M, et al. Use of participatory visual narrative methods to explore older adults' experiences of managing multiple chronic conditions during care transitions. *BMC Health Serv Res* 2018;18(1):482. doi: 10.1186/s12913-018-3292-6
87. Song X, Wu J, Yu C, et al. Association between multiple comorbidities and self-rated health status in middle-aged and elderly Chinese: the China Kadoorie Biobank study. *BMC Public Health* 2018;18(1):744. doi: 10.1186/s12889-018-5632-1