Publications on multimorbidity
(Updated on December 17, 2020)

INDEX
- Publications by subject
  1. THEORETICAL & REVIEW ARTICLES AND PROTOCOLS
  2. DEFINITION / CONCEPTUALISATION
  3. CLINICAL AND EPIDEMIOLOGICAL STUDIES
     3.1 Prevalence
     3.2 Aetiology
     3.3 Correlation with biological markers
     3.4 Interactions and patterns
     3.5 Socio-demographic, socio-economic, and psychosocial variables. Lifestyle factors
     3.6 Variables related to hospitalisation
     3.7 Resource utilisation
     3.8 Quality of life and functional level
     3.9 Psychological distress, depression, cognition, mental illnesses
     3.10 Medication
     3.11 Social support
     3.12 Other clinical variables
     3.13 Generalisation of clinical trials / Guidelines
     3.14 Other subjects
  4. ECONOMIC STUDIES
  5. METHODS TO MEASURE MULTIMORBIDITY AND COMORBIDITY
  6. EDITORIALS / OPINION ARTICLES
  7. QUALITATIVE RESEARCH
  8. INTERVENTION IDEAS
  9. OTHERS
     9.1 Physical activity
     9.2 Continuity of care
     9.3 Self-care
     9.4 Medical errors / Medical education
– Publications by subject

1. THEORETICAL & REVIEW ARTICLES AND PROTOCOLS


Fitzgerald SP, Bean NG, Ruberu RP. A method of decision analysis quantifying the effects of age and comorbidities on the probability of deriving significant benefit from medical treatments. Journal of Comorbidity 2017;7:50–63


Salive ME. Multimorbidity in Older Adults. *Epidemiol Rev.* Jan 31 2013.


Lupari M, Coates V, Adamson G, Crealey GE. We’re just not getting it right'--how should we provide care to the older person with multi-morbid chronic conditions? J Clin Nurs 2011;20.


Iezzoni LI. Multiple Chronic Conditions and Disabilities: Implications for Health Services Research and Data Demands. Health Serv Res. 2010;45(5 Pt 2):1523-40.


2. DEFINITION / CONCEPTUALISATION


3. CLINICAL AND EPIDEMIOLOGICAL STUDIES

3.1 Prevalence


Corallo B, Proser M, Nocon R. Comparing Rates of Multiple Chronic Conditions at Primary Care and Mental Health Visits to Community Health Centers Versus Private Practice Providers. J Ambul Care Manage 2020;43(2):136-47. doi: 10.1097/JAC.0000000000000324


3.2 Aetiology


3.3 Correlation with biological markers


### 3.4 Interactions and patterns


3.5 Socio-demographic, socio-economic, and psychosocial variables. Lifestyle factors


3.6 Variables related to hospitalization


Tran VT, Diard E, Ravaud P. Priorities to improve the care for chronic conditions and multimorbidity: a survey of patients and stakeholders nested within the ComPaRe e-cohort. BMJ Qual Saf 2020 doi: 10.1136/bmjqs-2020-011219


Juul-Larsen HG, Andersen O, Bandholm T, et al. Differences in function and recovery profiles between patterns of multimorbidity among older medical patients the first year


3.7 Resource utilisation


van den Bussche, H., et al., Patterns of ambulatory medical care utilization in elderly patients with special reference to chronic diseases and multimorbidity - Results from a claims data based observational study in Germany. BMC Geriatrics, 2011. **11**: p. 54.


3.8 Quality of life and functional level


Hodek JM, Ruhe AK, Greiner W. Relationship Between Health-Related Quality of Life and Multimorbidity. Gesundheitswesen. 2009 Sep 29. [Epub ahead of print]


3.9 Psychological distress, depression, and cognition


Thomeer MB. Multiple Chronic Conditions, Spouse's Depressive Symptoms, and Gender within Marriage. J Health Soc Behav. 2016;57:59-76.


Gallo JJ, Hwang S, Joo JH, Bogner HR, Morales KH, Bruce ML et al: Multimorbidity, Depression, and Mortality in Primary Care: Randomized Clinical Trial of an Evidence-Based Depression Care Management Program on Mortality Risk. J Gen Intern Med. 2015.


3.10 Medication


McCarthy C, Clyne B, Corrigan D, et al. Supporting prescribing in older people with multimorbidity and significant polypharmacy in primary care (SPPIRE): a cluster


Richardson, K., et al., Variation over time in the association between polypharmacy and mortality in the older population. *Drugs Aging,* 2011. 28: p.:547-60.


### 3.11 Social support


3.12 Other clinical variables


Woo J, Leung J. Multi-morbidity, dependency, and frailty singly or in combination have different impact on health outcomes. *Age (Dordr).* Apr 2014;36(2):923-931.


Landi F et al. Disability, more than multimorbidity, was predictive of mortality among older persons aged 80 years and older. *J Clin Epidemiol.* 2010. 63(7):752-9.


3.13 Generalisation of clinical trials / Guidelines


Hanlon P, Hannigan L, Rodriguez-Perez J, et al. Representation of people with comorbidity and multimorbidity in clinical trials of novel drug therapies: an individual-


Rothwell, P.M., External validity of randomised controlled trials: "to whom do the results of this trial apply?" *Lancet,* 2005. 365: p. 82-93.


### 3.14 Other subjects


Carvalho JN, de Camargo Cancela M, de Souza DLB. Lifestyle factors and high body mass index are associated with different multimorbidity clusters in the Brazilian population. PLoS One 2018;13(11):e0207649. doi: 10.1371/journal.pone.0207649


Adams ML. Differences Between Younger and Older US Adults With Multiple Chronic Conditions. Prev Chronic Dis. 2017;14:E76.


Brenk-Franz K, Strauss B, Tiesler F, Fleischhauer C, Schneider N, Gensichen J. Patient-provider relationship as mediator between adult attachment and self-management in


Chan CL, You HJ, Huang HT, Ting HW. Using an integrated COC index and multilevel measurements to verify the care outcome of patients with multiple chronic conditions. *BMC Health Serv Res.* 2012;**12**:405.


Wong A, Boshuizen HC, Schellevis FG, Kommer GJ, Polder JJ. Longitudinal administrative data can be used to examine multimorbidity, provided false discoveries are controlled for. *J Clin Epidemiol* 2011;64(10):1109-17.


4. ECONOMIC STUDIES


5. METHODS TO MEASURE MULTIMORBIDITY AND COMORBIDITY


Holzhausen M, Fuchs J, Busch M, et al. Operationalizing multimorbidity and autonomy for health services research in aging populations--the OMAHA study. BMC Health Serv Res 2011;11:47.


Charlson, M., et al., Validation of a combined comorbidity index.


Katz, J.N., et al., Can comorbidity be measured by questionnaire rather than medical record review? Medical Care., 1996. 34: p. 73-84.


Ware JE, Bayliss MS, Rogers WH, Kosinski M, Tarlov AR. Differences in 4-year health outcomes for elderly and poor, chronically ill patients treated in HMO and fee-for-service systems. Results from the Medical Outcomes Study. JAMA 1996; 276(13):1039-1047.

6. EDITORIALS / OPINION ARTICLES


Mathew R. Rammya Mathew: Learning to manage multimorbidity. BMJ 2020;368:m871. doi: 10.1136/bmj.m871


Duncan H. Managing multimorbidity: all doctors started as generalists. BMJ 2020;368:m733. doi: 10.1136/bmj.m733

Coughlan C, Watson M. Managing multimorbidity: listening to patients and integrated care. BMJ 2020;368:m713. doi: 10.1136/bmj.m713

Sharpe M. Time to transcend "physical" and "mental" health. BMJ 2020;368:m609. doi: 10.1136/bmj.m609


Whitty CJM, Watt FM. Map clusters of diseases to tackle multimorbidity. Nature 2020;579(7800):494-96. doi: 10.1038/d41586-020-00837-4


Fortin M. "It-that-must-not-be-named": Addressing patient discomfort with the term multimorbidity. Can Fam Physician 2018;64(12):881-82.


Oliver D. David Oliver: A manifesto for multimorbidity. BMJ 2018;360:k1044. doi: 10.1136/bmj.k1044


Wise J. Patients with multimorbidity need longer GP consultations, says RCGP. BMJ. 2016;355:i5961.


Gunn J. Designing care for people with mixed mental and physical multimorbidity. *BMJ.* 2015;**350**:h712.


Tinetti ME, Basu J. Research on multiple chronic conditions: where we are and where we need to go. Med Care. Mar 2014;52 Suppl 3:S3-6.


Roland M, Paddison C. Better management of patients with multimorbidity. BMJ. 2013;346:f2510


Rudland S, Macey N. Value of a well organised team approach in primary care in managing patients with multimorbidity. BMJ. 2013;346:f3555.


Haggerty JL. Ordering the chaos for patients with multimorbidity. *BMJ.* 2012;345:e5915.


Hawkes N. Better training is needed to deal with increasing multimorbidity. *BMJ.* 2012;344:e3336.


Shepherd DJ. We need a system that accounts for multimorbidity at practice level. *BMJ*. 2012;345:e5464.


7. QUALITATIVE RESEARCH


Prazeres F, Simoes JA. Key Factors to Consider in Team Meetings when Dealing with Multimorbidity in Primary Care: Results from a Delphi Panel. Cureus 2019;11(6):e4990. doi: 10.7759/cureus.4990


Laursen J, Kornholt J, Betzer C, et al. General Practitioners' Barriers Toward Medication Reviews in Polymedicated Multimorbid Patients: How can a Focus on the


van Dongen JJ, de Wit M, Smeets HW, Stoffers E, van Bokhoven MA, Daniels R. "They Are Talking About Me, but Not with Me": A Focus Group Study to Explore the Patient Perspective on Interprofessional Team Meetings in Primary Care. Patient. 2017.


Slightam CA, Brandt K, Jenchura EC, Lewis ET, Asch SM, Zulman DM. "I had to change so much in my life to live with my new limitations": Multimorbid patients' descriptions of their most bothersome chronic conditions. Chronic Illn. 2017;1742395317699448.


8. INTERVENTION IDEAS


Prados-Torres A, Cura-Gonzalez ID, Prados-Torres JD, et al. MULTIPAP Study: Improving healthcare for patients with multimorbidity. Br J Gen Pract 2020;70(suppl 1) doi: 10.3399/bjgp20X711257


Braithwaite RS, Fiellin D, Justice AC. The payoff time: a flexible framework to help clinicians decide when patients with comorbid disease are not likely to benefit from practice guidelines. Med Care. 2009 Jun;47(6):610-7.


9. OTHERS

9.1 Physical activity


### 9.2 Continuity of care


DuGoff EH. Continuity of Care in Older Adults With Multiple Chronic Conditions: How Well Do Administrative Measures Correspond With Patient Experiences? *J Healthc Qual.* 2017.


9.3 Self-care


### 9.4 Medical errors / Medical Education


