



People with chronic diseases more likely to utilise LONDON SCHOOL health care, particularly those with multimorbidity

Thavorn et al. Effect of socio-demographic factors on the association between multimorbidity and healthcare costs: a population-based, retrospective cohort study. BMJ Open 2017;7(10):e017264. https://bmjopen.bmj.com/content/7/10/e017264.long

Figure 1 . Distribution of total number of population and total health system costs in Ontario from 1 April 2009 to 31 March 2010

Figure 2. Unadjusted mean total healthcare cost per capita for Ontario adults, by service type, number of conditions and age group from 1 April 2009 to 31 March 2010.

Source: Thavorn et al. (2017)



Health care largely built around acute, episodic model of care



- Health care not well-equipped to meet the requirements of people with multiple or complex care needs
 - complex response over extended period of time
 - co-ordinated inputs from a wide range of professionals
 - access to essential medicines and monitoring systems
 - active engagement of patients
- Fragmentation of services acting as barrier to coordination of services along the continuum of care
 - Patients receive care for a disease from many different physicians or providers
 - They are frequently called upon to monitor, coordinate, or carry out their own treatment plan

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Care coordination or integration can improve selected outcomes



- Rising number of people with complex care needs requires the development of delivery systems that bring together a range of professionals and skills from both the cure (healthcare) and care (longterm and social care) sectors
- Failure to better integrate or coordinate services may result in suboptimal outcomes
- Evidence that is available points to a positive impact of coordinated care on the quality of patient care and improved health or patient satisfaction outcomes

But

Uncertainty remains about the relative effectiveness of different systemlevel approaches on care coordination and outcomes, with particular scarcity of robust evidence on the economic impacts of integrated care approaches



Evidence of economic impacts of integrated care remains uncertain

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What is the

evidence on the

economic impacts

of integrated care?

Ellen Nolte, Emma Pitchforth



 Review of 19 systematic reviews/meta-analyses
Substantial variation in conceptualisation and measurement; quality of evidence typically low

> (small number of studies; before-after designs)
> Early supported discharge or discharge planning: Evidence of significant reduction of readmission rates for older people with heart failure and adults with mental health problems but not stroke patients

'Hospital at home': non-significant increase in admissions but also significant reduction in mortality at six months (Shepperd et al. 2008)

- Intervention may increase cost
- Impact of health system setting: cost differences for discharge planning for heart failure were smaller in non-US based trials than in US-based trials (Philips et al. 2004)

Source: Nolte & Pitchforth (2014)



'Integrated care': widely but variously used in different contexts



- Principal aim: to link the cure and care sector to enhance outcomes for those with complex needs
- Different types of integration can occur at different levels within the system
 - Target: Functional, organisational, professional, clinical
 - Hierarchical level / breadth: Horizontal, vertical
 - Degree: Continuum of integration (linkage – coordination – integration)
 - Process: Normative, systemic

Source: Nolte & McKee (2008)

Valentijn et al. Understanding integrated care: a comprehensive conceptual framework based on the integrative functions of primary care. Int J Integr Care 2013;13:e010. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3 653278/

Figure 3. Conceptual framework for integrated care based on the integrative functions of primary care





Integrated care: complexity as a key defining feature



Source: Greenhalgh & Papoutsi (2018); Petticrew et al. (2019)

Wide range of health service and public health interventions conceptualised as 'complex intervention'

- health promotion interventions, e.g. health education
- public health legislation, e.g. smoking ban
- organisational interventions, e.g. integrated care
- Complex intervention
 - multiple components acting independently and inter-dependently ('active ingredient' not easy to identify)
 - non-linear relationships between 'intervention' and effects
 - context-dependent, requiring flexibility and local adaptation to 'work'













