

Innovative Patient-Centred Approach for Social Care Provision to Complex Conditions

Evaluation of the economic impact of the INNOVCare pilot

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The information contained in this publication does not necessarily reflect the official position of the European Commission

Why health economics?

- Limited resources in society
- Prioritisation
- Opportunity costs
- Rational decision-making
- Helps us make transparent, explicit choices



Costs

- Direct costs
 - Health care costs
 - Hospital, medication, primary care etc
 - Direct costs outside health care
 - Transportation
- Indirect costs
 - Costs due to lost production

Strategies when estimating costs

- Top-down
 - published data on aggregate figures on consumption related to diagnosis
 - only data that has a certain disease, e.g. diabetes, registered as main diagnosis
- Bottom-up
 - cost estimates derived from an investigation of a sample of people with a rare disease
 - more comprehensive inventory of utilisation and costs of care
 - easier to analyse the impact of socio-demographic factors

Economic evaluation

- A comparative analysis of two (or more) options in terms of both costs and benefits
- Aims to determine if an interventions provides good value for money
 - Cheaper than exisiting alternatives, while maintaining health
 - More expensive, but adding more health

Costs and consequences

- Resources consumed in the programme
 - Health care sector
 - Other sectors
 - Patient/family
 - Production losses
- Consequences of the programme
 - Health improvements
 - Resource savings

Relevant perspective for the analysis

- Clinic/primary care unit
- Hospital

Societal

- Budget, e.g., pharmaceutical
- County council/region
- Health care system
 - Otherwise risk for suboptimisation
 - The consequences for different actors may be presented separately

Economic evaluation methods

Method "Cost-of-illness"

Cost-minimisation analysis

Cost-effectiveness analysis

Cost-utility analysis

Cost-benefit analysis

Description of health outcome

Includes only costs, no comparison with other treatment alternatives

Includes only costs, health outcomes assumed identical in the alternatives

Health outcomes are a one-dimensional, physical measure such as life years

Incorporates length and quality of life into one measure, e.g. QALYs

Health outcomes expresses in monetary terms (money)



Use of economic evaluations

- Increasing interest among decision-makers for economic evaluation as an aid for decision making
- Drug reimbursement decisions whether to subsidise new drugs
- Resource allocation within health care the NHS

Problems when care is not integrated

- Increased costs
 - Increased risk that patients have to take unnecessary tests or tell their story again and again => increased costs and less good resource use
 - Suboptimal outcomes
- Negative impact on the quality of patient care
- Negative impact on health or patient satisfaction outcomes

Economic impact of integrated care

- Utilization and cost were the most common economic outcomes
 - focused on hospital utilization; (re)admission rates, length of stay or admission days and emergency department visits
 - cost and/or expenditure data in some form most frequently in relation to hospital costs
- Evidence of cost–effectiveness of selected integrated care approaches but the evidence base remains weak
 - integrated care an intervention or a complex strategy to innovate and implement long-lasting change in the way services in the health and social-care sectors are being delivered

Nolte (2014) What is the evidence of the economic impacts of integrated care?

Literature review – challenges

- Integrated care, coordinated care, person-centred care, ...
 - Vertical vs horisontal integration
 - Children, adolescents, adults, elderly
- Rare diseases, complex conditions, chronic disease
- Close to 3000 abstracts => 64 full-text articles



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Our parts in the questionnaires



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Generic instruments

- Clinical studies and population studies
- Makes it possible to compare different disease groups, areas and interventions
- Less sensitive
- Understood and used by non-professionals

Examples of generic instruments:

• EQ-5D, SF-36, HUI, QWB, SIP...

Condition-specific instruments

- Used for a specific disease or condition
- Sensitive
- Intuitively appealing to clinicians
- Two types
 - Clinical
 - Experiential
- Prohibiting comparisons across groups

Measuring HRQoL of patients with a RD

Children

- PedsQL inventory
- KINDL
- Patient Global Assessment
 5-point scale (perceived by parents)
- EQ-5D-Y

Adults

- EQ-5D
- SF-36, SF-12, SF-6D
- Beck Depression Inventory (BDI)
- State Trait Anxiety Inventory (STAI)
- St George's Respiratory Questionnaire (SGRQ)
- Barthel Index (level of disability)
- WHO-5 Well-being Index modified version

Measuring HRQoL of caregivers

- SF-36
- EQ-5D
- Zarit Caregiver burden scale
- Family Strain Questionnaire
- General Health Questionnaire (depression/anxiety)
- ULQIE (quality of life of parents of chronically ill children)

Costs for and impact on patients

- Health care
 - Admitted to hospital
 - Emergency care
 - Visit to physicians or other healthcare professionals
 - Respite care
- Community and other services
 - Personal assistant, home aid, etc
 - Transportation services
- Healthcare insurance and cost-sharing
 - Insurance coverage
 - Out-of-pocket expenses for healthcare visits, tests, medicines or medical devices

- Health and well-being
 - EQ-5D-Y
- Socio-economic differences
 - Level of education
 - Marital status
 - Employment status
 - Income

Costs for and impact on caregivers

- Health care for person
 - Admitted to hospital
 - Emergency care
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- Health and well-being
 - EQ-5D-5L
 - Zarit Caregiver Burden
- Socio-economic differences
 - Level of education
 - Marital status
 - Employment status
 - Sick leave
 - Income

Challenges with the evaluation

- A variation of rare conditions
- Patients are both children, adolescents and adults
- Many of the patients have cognitive challenges
- Focusing on measures that can be affected by the intervention



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Thank you

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