Health Economics at UCL

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Department of Applied Health Research

Dr Elena Pizzo
e.pizzo@ucl.ac.uk
The group: who we are

Stephen Morris
Professor Health Economics

Nishma Patel
Research Associate

Estela Capelas Barbosa
Research Associate

Elena Pizzo
Senior Research Associate

Mariya Melnychuk
Research Associate

Nicholas Swart
Research Associate

Laura Vallejo Torres
Senior Research Associate
Our research interests

- Economic evaluation
- Modelling
- Discrete Choice Experiment
- Decision making
- Policy evaluation
- Reconfiguration of services
- Workforce impact
- Equity
Use of evidence in decision making

DECIDE: Discrete Choice Experiment on the use of evidence in local decision making (Health Foundation)

Cost-effectiveness or budget impact for decision makers? An applied study based on cancer drugs appraised by NICE between 2001 and 2015 (NIHR CLAHRC NT)

STAR: socio technical allocation of resources to prevent diabetes in London (NIHR CLAHRC NT)
Staff and organisation

Impact of structure of medical hospital workforce in smaller hospitals on patients outcome and costs (NIHR HS&DR)

Costs and outcomes associated with the use of 1:1 care by 'Nurse specials' at UCLH (NIHR CLAHRC-UCLH)

The SLT workforce in London (HENCEL-RCSLT)
Reconfiguration and quality improvement

RESPECT 21: centralisation of specialist cancer surgical services (NIHR HS&DR)

Reconfiguration of stroke services in England (NIHR HS&DR)

METRO 24/7: Mixed methods analysis of the London Hyperacute Stroke System (NIHR HS&DR)

iQUASER: cost-consequence analysis of the role of boards on quality improvement (NIHR CLAHRC NT)

Evaluation of the PRM Cloud to improve NHS 111 service (Redbridge CCG)

Evaluation of the Sign up to Safety scheme to reduce errors and claims (NHS LA)
Paediatric and children care

Development and preliminary evaluation of a package to support parents of excessively crying infants (NIHR HTA)

Impact of morbidities associated with paediatric cardiac surgery on cost and outcomes (NIHR HS&DR)

Evaluating The Pilot Implementation Of Vaccinating Healthy School-Aged Children Against Seasonal Influenza (Department of Health Policy Research Programme)

Lifetime costs of child maltreatment (NSPCC)
Teenagers & adults

BRIGHTLIGHT Different levels of specialist care for teenagers and young adults aged 13-24 (TYA) (NIHR)

Identification and Referral to Improve Safety (IRIS) in domestic violence (NIHR CLAHRC NT)

Evaluation of GIRFT to improve quality and reduce cost of NHS orthopedic care (NIHR CLAHRC NT)

Complex Pain management multidisciplinary team in secondary care (NIHR CLAHRC-UCLH)
Surgery and high risk patients

Tissue oxygen monitoring for detecting impending shock states and guiding therapy in the critically ill and those at high risk (Health Innovation Challenge Fund)

POMSHIP: Evaluation of new Peri-Operative Medicine pathway to manage high-risk patients after surgery (NIHR CLAHRC-UCLH)

ABLE: CEA of fresh blood transfusions (NIHR HTA)

PREVENTT - Preoperative intravenous iron to prevent blood transfusion in major surgery (NIHR HTA)
HIV and other infections

Cost-effectiveness of screening for HIV in primary care: following the RHIVA2 randomized controlled trial (NIHR CLAHRC NT)

RESCUING: Retrospective observational study to assess the clinical management and outcomes of hospitalised patients with complicated urinary tract infection (cUTI) in 8 countries. (European Union Seventh Framework Programme)
Cancer

Using **Specialist Screening Practitioners (SSPs)** to increase uptake of the bowel scope screening programme in South Tyneside NHS Foundation Trust *(NIHR)*

**Modelling analysis of FIT (Faecal Immunochemical Testing) for bowel cancer screening** *(NIHR HTA)*

**Impact of multiparametric MRI on staging and management of patients with suspected or confirmed ovarian cancer** *(NIHR HTA)*

**Thermal ablation versus surgery for patients with colorectal liver metastases** *(NIHR HTA)*
Ageing..

Evaluation of thrombectomy to treat ischemic stroke

The cost of teleswallowing in London (HENCEL)

The impact of delayed discharge
Systematic review (NIHR CLAHRC NT)

VALID- Cost-effectiveness of Occupational therapy versus Treat As Usual (TAU) in Dementia (NIHR HTA)
Valuing Active Life in Dementia

• In the UK over 700,000 older people have dementia; they experience deterioration in activities of daily living, reduced ability in social and functional activities

• In The Netherlands a Community Occupational Therapy Intervention for Dementia (COTID) has demonstrated benefits to quality of life of patients and their carers.

• VALID is implementing COTID in the UK

• **Aims:** promote independence, meaningful activity and quality of life for people with dementia and their family carers

* Research study funded by the NIHR Programme Grants for Applied Research and led by Professor Orrell and Dr Wenborn
Economic evaluation

- Markov decision model to assess the costs and effects of COTID-UK versus Treat As Usual (TAU) using a lifetime horizon
- Costs: NHS perspective & costs borne by families and carers
- Outcomes will be valued in Bristol Activities of Daily Living Scale (BALDS) and Quality Adjusted Life Years (QALYs)
- Results will show the difference in costs and effectiveness of COTID and TAU and will tell if COTID is cost-effective
- Sensitivity analysis

- Results in 2018
PhD students

Thomas Stephens
Impact of cognitive function on quality of care

Jenny Shand
Economics of Multi-Sectoral Working in Health and Social care

Chris Brew-Graves
Cost-effectiveness of Intra-Operative Radiotherapy in Breast Cancer

Iftekhar Khan
Modelling Health Related Quality of Life Data for Economic Evaluation of Cancer Treatments: applications in Lung Cancer
Future interest in multidisciplinary collaborations

• Genomics
  – Costs and benefits of Whole Genome Sequencing for diagnosing rare diseases in the 100,000 Genome Project. DAHR- GOSH (NIHR HS&DR)
  – Evaluating co-ordinated care in people with rare diseases – mixed methods study DAHR- Genetic Alliance UK (NIHR HS&DR)

• Prevention
• Cancer
• Reconfiguration of services
Main sources of funding

NHS
National Institute for
Health Research

Department of Health

NIHR Health Services &
Delivery Research
(HS&DR) Programme

Health Foundation

Litigation Authority

Collaboration for Leadership in
Applied Health Research and Care
North Thames

NSPCC
Questions

Dr Elena Pizzo
e.pizzo@ucl.ac.uk

Department of Applied Health Research
University College London