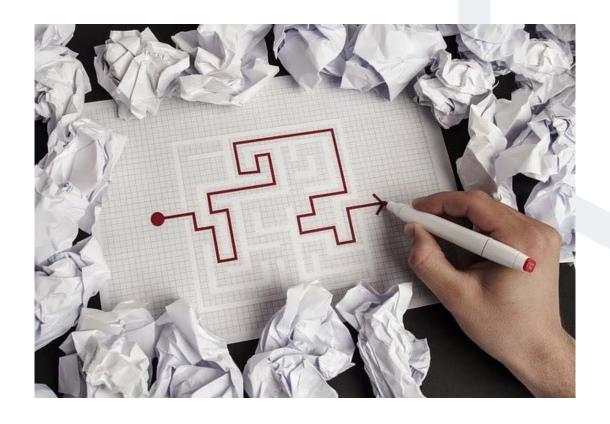


Identifying and managing the challenge of multimorbidity in primary care

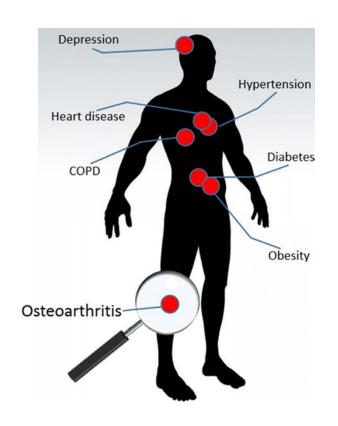
REF case study co-authors:
Drs Jonathan Quicke and Tom Kingstone

The case study journey so far...





Defining Multimorbidity



"The presence of two or more long-term health conditions."





Why is this work important?

- More people than ever are living longer with more than one long-term health condition
- This case study showcases a body of work identifying and investigating common comorbidities in primary care, highlighting need for new services
- It offers new service solutions and tests their feasibility, effectiveness and cost-effectiveness









- What is REF?
- What does this entail?
- Co-lead authorship



The goal

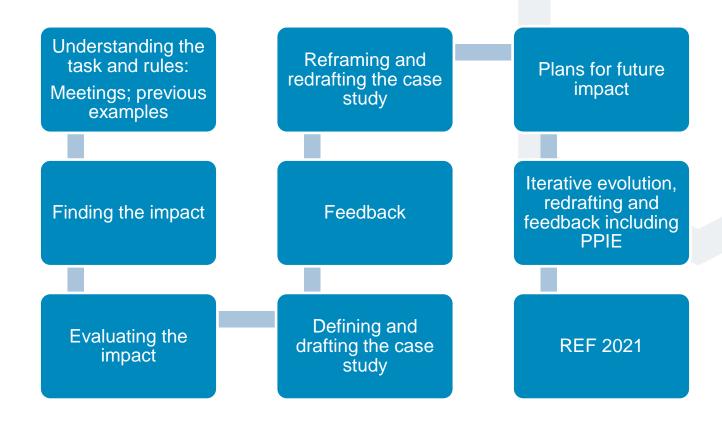
 Weaving together the highest quality most impactful evidence in a coherent narrative (to secure future University research funding)

Secondary goals...

- Learn more about impact
- Opportunity to understand existing research
- Influence future research and impact agenda



Case study evolution processes





Exploring new rules, defining the boundaries and making concessions

- Ref 2014
- How will it be judged?
- What about research from academics who are no longer at the centre?
- Losing out on gout





Decision making... coherent narrative vs highest impact?





Narrative choices





Focussed

General

OA/ joint pain & mental health

Musculoskeletal health & comorbidity

Multimorbidity in Primary Care

It's the Keele difference.



The process and stages

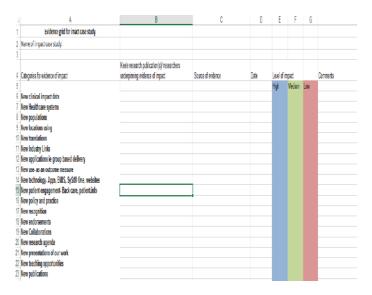








Tools we used along the way...

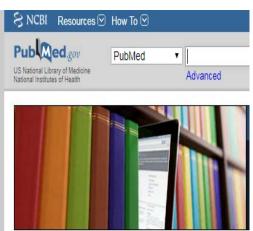
















Our growing multimorbidity spreadsheet...

Author	Title	Journal	Year	IF Jour	nal rating Type of article	Multimorbidity type	s Sub-types	Conclusions	Any other key metrics etc.
Evidence in	cluded in REF Case study draft 2017								
Kadam	Clinical comorbidity in patients with osteoarthritis: a case control study of general practice consulters in England and Wales.	Ann Rheum Dis	2004	12.8	Research (case control)	OA + Comorbidity		An important question remains as to whether comorbidity in general practice significantly adds to the disability or further impairs the health of patients with OA.	
Kadam	Clinical comorbidity in osteoarthritis: associations with physical function in older patients in family practice.	Rheum	2007	4.8		OA + Comorbidity		Comorbidity increases the likelihood of poor physical function in patients with OA in population-based family practice.	33 citations
Fraccaro	Predicting mortality from change-over-time in the Charlson Comorbidity Index: A retrospective cohort study in a data-intensive UK health system.	Medicine (Baltimore)	2016	1.8		Comorbidity			
Muth	The Ariadne principles: how to handle multimorbidity in primary care consultations.	BMC Med.	2014	8.1	Consensus meeting	Comorbidity			BMC metrics: accessed >10,000 times, score 34. In the top 5% of all research o https://biomedcentral.altmetric.com/d
Tan	The triple whammy anxiety depression and osteoarthritis in long-term conditions.	BMC Fam Pract.	2015	2.1	Commentary	OA + MH			
Mallen	The effects of implementing a point-of-care electronic template to prompt routine anxiety and depression screening in patients consulting for osteoarthritis (the Primary Care Osteoarthritis Trial): a cluster randomised trial in primary care.	Plos Medicine.	2017	13.6		OA + MH			Altmetric score 7. In the top 25% of all Altmetric, https://www.altmetric.com/
Healey	Improving the care of people with long-term conditions in primary care: protocol for the ENHANCE pilot trial.	J Comorb	2015	??	Protocol	OA + MH			Cited within the policy report from the musculoskeletal conditions and multin file:///c:/Users/pra35/Downloads/mu d-multimorbidity-report.pdf.
Camacho	Long-term cost-effectiveness of collaborative care (vs usual care) for people with depression and comorbid diabetes or cardiovascular disease: a Markov model informed by the COINCIDE randomised controlled trial.	BMJ Open.	2016	2.4	Research	MH + LTC	Collaborative care	Potentially cost effective	BMJOpen metrics: full article accessed score 7. In the top 25% of all research Altmetric, https://bmj.altmetric.com/c
Coventry	Integrated primary care for patients with mental and physical multimorbidity: cluster randomised controlled trial of collaborative care for patients with depression comorbid with diabetes or cardiovascular disease.	ВМЈ.	2015	20.7	Research	MH + LTC	Collaborative care		BMJ metrics: full article accessed >27, of 108. In top 5% of all research outpu https://bmj.altmetric.com/details/370
Knowles	Managing depression in people with multimorbidity: a qualitative evaluation of an integrated collaborative care model.	BMC Family Practice.	2015	2.1	Research (qualitative)	MM + MH	Collaborative care		BMC metrics: accessed: >1000 times, 2 10. In the top 25% of all research outp https://biomedcentral.altmetric.com/o
Potential n	ew evidence for re-draft								
Camacho	Long-term clinical and cost-effectiveness of collaborative care (versus usual care) for people with mental-physical multimorbidity: cluster-randomised trial.	Br J of Psychiatry	2018	6.3		MH and LTC	Collaborative care	Potentially cost effective	
Knowles SE,	C Better together? a naturalistic qualitative study of inter-professional working in collaborativ	/ Implementation Science	2013	4.7	Research (qualitative)	MH + LTC	QUALITATIVE	16 citations	
					er, + MM themes + Prior +				



Engaging stakeholders

Research leaders

Patients & public



Commissioners

Impact team

NICE fellows

Clinicians



It's the Keele difference.

Synnergistic co-lead authorship

- Two minds are better than one
- Links to different research teams
- Lightens the load



Feedback-identifying weaknesses





It's the Keele difference.

- Limit to 6 highest quality references
- Consider using more impact quotes
- Consider expanding patient involvement
- Expand international impact
- Try systematic impact capturing
- Stakeholder AHSN



Future plans for impact





Local stakeholder engagement Regional stakeholder event

National event

International conference workshop/ symposium



It's the Keele difference.



Breaking down silos...

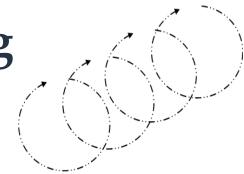


Highlighting areas for new research and impact growth





Iterative case study reworking



- Integrating new research and impact
- Responding to new REF guidance
- Amend in light of draft feedback and other case study decisions



Questions & suggestions for improvement

- So how could we improve our case study design processes?
- What are your thoughts about breadth and high impact vs coherent narrative and less impact?

 Have we missed any tricks for evaluating impact and engaging stakeholders?

Acknowledgments

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Our multimorbidity stakeholders







Thank you

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