FAce validity of Back pain Outcome reporting methods (FABO)

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Background

- How outcomes of clinical trials are reported alters the way clinicians interpret the
 effectiveness of the interventions under investigation
- Interventions are interpreted as more effective when results have been reported in relative terms as opposed to absolute terms
- It is not clear which reporting methods have the highest face validity from clinicians' perspectives – which reporting methods best describe outcomes?

Aims

- To explore the face validity of different reporting methods of LBP trial outcomes, through series of qualitative interviews with clinicians who see patients with LBP
- To explore how these clinicians would prefer to see LBP trial outcomes reported, which methods they feel offer the most relevant information to decision making, which of the presented methods are preferred, and why they are preferred

Materials and methods

· In-depth interviews

- Purposive sample of clinicians who see patients with LBP, by experience, sector, sex, and specialty
- Participants presented with five summary cards reporting a fictional RCT of a fictional intervention: 'physical behavioural praxis'
- · Primary outcome was a hypothetical measure of pain and disability: the iBAQ scale
- Comparisons of iBAQ results between intervention and control groups reported in scenarios were a transformation of results of the manual therapy arm of the UK Back Pain Exercise And Manipulation (BEAM) trial
- · Outcomes reported using:
- 1. Between group mean difference (with and without advice on minimally important change for an individual) and including the standardised mean difference (SMD)
- Proportion of individual responders to treatment i.e., with a score decrease greater than the minimally important change
- 3. Relative risk
- 4. Odds ratio
- Number needed to treat (NNT) for improvement, and for 'benefit'- the number needed to treat on average for one patient to improve or to prevent one deterioration
- · Participants perceptions and preferences for each method were explored
- Interviews recorded and transcribed
- · Analysed using the Framework method
- QSR NVIVO 7 for data management
- · Ethics and research governance approval from local REC and four health trusts

Results

- Data saturation after 14 interviews
- Sample included: 1 chiropractor, 2 GPs, 1 Neurosurgeon, 1 Orthopaedic surgeon, 3 osteopaths, 2 pain psychologists, 3 physiotherapists, and 1 rheumatologist
- 6 clinicians practised in the NHS only, 5 in the private sector only, and 3 practiced in both sectors

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5. Felt guidance on how to interpret unusual reporting methods would be useful;

their preference would be for simpler methods that do not require explanation