



Master in Evidence-Based Practice
e Metodologia della Ricerca Clinico-assistenziale



Centro Studi EBN

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Systematic Review Protocol

The effectiveness of written information for adult post-operative hip replacement patients.

AUTHOR INFORMATION:

Primary Reviewer: Noemi Gaudenzi

Secondary Reviewer: Marina Zoli

Review title: The effectiveness of written information for adult post-operative hip replacement patients. Systematic review.

Review Question

To determine the effectiveness of providing written information about home exercises program in addition to verbal information, compared with verbal information alone, for post-operative hip replacement patients discharged from acute hospital to home, on the patients ability to manage own care and on hip motion, muscle strength and activity daily living (ADL).

Review Instrument : mastari

Background

Hip replacement procedures are significant in number and cost¹.

Discharging patients early from the hospital to a transitional home care program has the potential to reduce costs, while maintaining quality.²

It is becoming commonplace for patients to be discharged earlier from acute hospital settings to their own homes and be required to manage various aspects of their own care and their home based exercises programme for hip motion, muscle strength and Activity Daily Living (A.D.L.).

It has been suggested that providing written information in addition to verbal information can be more effective.³

A recent Cochrane review⁴ found only studies looking at parents caring for their children.

This review recommends the use of both verbal and written health information when communicating about care issues with patients and/or significant others on discharge from hospital to home. The combination of verbal and written health information enables the provision of standardised care information to patients and/or significant others, which appears to improve knowledge and satisfaction.

We know a few texts about providing written information in addition to verbal information after hip replacement procedures; they are lower evidence level studies, but they could be significant for physiotherapist's practice.

¹ Munin MC, Rudy TE, Glynn NW, Crossett LS, Rubash HE
Early inpatient rehabilitation after elective hip and knee arthroplasty.
JAMA. 1998 Mar 18;279(11):847-52.

² Shepperd S, Harwood D, Gray A, Vessey M, Morgan P.
Randomised controlled trial comparing hospital at home care with inpatient hospital care. II: cost minimisation analysis.
BMJ. 1998 Jun 13;316(7147):1791-6.

³ Wong J, Wong S, Nolde T, Yabsley RH.
Effects of an experimental program on post-hospital adjustment of early discharged patients.
Int J Nurs Stud. 1990;27(1):7-20.

⁴ Johnson A, Sandford J, Tyndall J.
Written and verbal information versus verbal information only for patients being discharged from acute hospital settings to home - Cochrane Database Syst Rev. 2003;(4):CD003716

Inclusion Criteria

Types of Participants

The quantitative component of this review will consider studies that include adult post-operative hip prosthesis patients discharged from acute hospital settings to home.

Types of intervention(s)

The quantitative component of the review will consider studies that evaluate the patient and/or significant others received written exercises program and verbal information in the intervention group, and verbal information only in the control group; and the intervention (written exercises home program and verbal information) was provided at any time prior discharge from acute hospital settings to home.

Types of outcome

This review will consider studies that include the following outcome measures: hip motion (Range of Motion scales), muscle strength and A.D.L. scales.

Types of studies

The quantitative component of the review will consider any randomised controlled trials; in the absence of RCTs other research designs, such as non-randomised controlled trials and before and after studies, will be considered for inclusion in a narrative summary to enable the identification of current best evidence regarding patients discharged from acute hospital settings to home.

Search strategy

The search strategy aims to find both published and unpublished studies. A three-step search strategy will be utilised in each component of this review. An initial limited search of MEDLINE and CINAHL will be undertaken followed by analysis of the text words contained in the title and abstract, and of the index terms used to describe article. A second search using all identified keywords and index terms will then be undertaken across all included databases. Thirdly, the reference list of all identified reports and articles will be searched for additional studies.

The databases to be searched include:

MEDLINE, EMBASE, CINAHL, PeDRO.PsyncINFO.

Limits: Human; only Italian, English, French Languages, All Adult

Computerised searches from 1990 to June 2008 because we found some publication types since 1990.

The search for unpublished studies will include:

the Cochrane Collaboration and Cochrane Central Register of Controlled Trials Review, and Joanna Briggs Institute Register, to find protocols.

Initial keywords to be used will be:

hip prosthesis, post-operative, written exercises home program, Physical Therapy education.

Assessment of Methodologic Quality

Quantitative papers selected for retrieval will be assessed by two independent reviewers for methodological validity prior to inclusion in the review using standardised critical appraisal instruments from the Joanna Briggs Institute Meta Analysis of Statistics Assessment and Review Instrument (JBI-MAStARI) (Appendix V).*

*Any disagreements that arise between the reviewers will be resolved through discussion, or with a third reviewer.

Data Collection

Quantitative data will be extracted from papers included in the review using the standardised data extraction tool from JBI-MAStARI (Appendix VI).*

*The data extracted will include specific details about the interventions, populations, study methods and outcomes of significance to the review question and specific objectives.

Data Syntesis

Quantitative papers will, where possible be pooled in statistical meta-analysis using the Joanna Briggs Institute Meta Analysis of Statistics Assessment and Review Instrument (JBI-MAStARI). All results will be subject to double data entry. Odds ratio (for categorical data) and weighted mean differences (for continuous data) and their 95% confidence intervals will be calculated for analysis. Heterogeneity will be assessed using the standard Chi-square. Where statistical pooling is not possible the findings will be presented in narrative form

Conflict of interest

None