# Systematic review of the effectiveness of planned short hospital stays for mental health care

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# Abstract

**Objective** To determine the effectiveness of planned short hospital stays versus standard care for people with serious mental illness.

**Design** Systematic review of all randomised controlled trials comparing planned short hospital stay versus long hospital stay or standard care for people with serious mental illness.

Subjects Four trials enrolled 628 patients. Main outcomes measures Relapse; readmission; death (suicides and all causes); violent incidents (self, others, property); lost to follow up; premature discharge; delayed discharge; mental state (not improved); social functioning; patient satisfaction, quality of life, self esteem, and psychological wellbeing; family burden; imprisonment; employment status; independent living; total cost of care; and average length of hospital stay.

**Results** Patients allocated to planned short hospital stays had no more readmissions (in four trials, odds ratio 0.93, 95% confidence interval 0.66 to 1.29 with no heterogeneity between trials), no more losses to follow up (in three trials of 404 patients, 1.09, 0.62 to 1.91 with no heterogeneity between trials), and more successful discharges on time (in three trials of 404 patients, 0.47, 0.27 to 0.85) than patients allocated long hospital stays or standard care. Some evidence showed that patients allocated planned short hospital stay were no more likely to leave hospital prematurely and had a greater chance of being employed than those allocated long hospital stay or standard care. Data on mental, social, and family outcomes could not be summated, and there were few or no data on patient satisfaction, deaths, violence, criminal behaviour, and costs.

**Conclusion** The effectiveness of care in mental hospitals is important to patients, carers, and policy makers. Despite inadequacies in the data, this review suggests that planned short hospital stays do not encourage a "revolving door" pattern of care for people with serious mental illness and may be more effective than standard care. Further pragmatic trials are needed on the most effective organisation and delivery of care in mental hospitals.

# Introduction

Many countries, including Britain, are reviewing their community care and favouring more hospital care for people with serious mental illness—after 40 years of mental hospital closures.<sup>1</sup> Reduced length of stay in hospital is cited as one of the reasons for failure of community care<sup>2</sup> and the emergence of "revolving door" and "new long stay" patients.<sup>3 4</sup> Although there is some merit in the argument for closing large institutions and preventing institutionalisation,<sup>5 6</sup> one important questions still remains: how long should a person with serious mental illness stay in hospital for

optimum benefit (and least harm) both to the patient and to society? Many researchers have attempted to answer this question, but with observational studies and using outcomes that are irrelevant for today's policy makers.<sup>7</sup>

We aimed to determine the effectiveness of planned short or brief hospital stays to long hospital stay or standard care for patients with serious mental illness, extracting outcomes data from all relevant randomised controlled trials.

## Methods

#### Search strategy

We identified relevant randomised trials (all languages) by searching several electronic databases: biological abstracts (January 1982 to May 1995); Embase (January 1980 to May 1998); Medline (January 1966 to May 1998); Psyclit (January 1974 to May 1995); Scisearch (1981 to May 1998), and the Cochrane Library (Issue 2, 1998). We conducted the search using the search strategy of the Cochrane Schizophrenia Group<sup>8</sup> combined with the phrase: short *or* brief, *or* early, near discharge, near admission, *or* hospital. We also inspected references of all identified studies for more studies, and results from unpublished trials were sought from key authors.

### Selection of trials

The search for trials was performed independently by us. We each read the abstract of all publications and discarded irrelevant publications, to create a pool of eligible studies. These two pools of studies were merged, and all original articles were obtained. We then each separately evaluated the studies in the pool, again selecting for inclusion. We resolved any disagreement on classification by discussion.

We categorised the quality of all included trials as described in the *Cochrane Collaboration Handbook*, including how random allocation was concealed and the inclusion of participants who had been randomised.<sup>9</sup>

All the trial participants were seriously mentally ill with primary psychiatric disorders requiring hospital stay (including schizophrenia, affective disorders, severe neuroses, and personality disorders). All the trials focused on adults, excluding children, adolescents, and elderly people (over 65 years) and those with learning disabilities, organic brain disease, and drug and alcohol misuse. We assessed the two interventions of planned short hospital stay versus long hospital stay or standard care.

### Data extraction and analysis

We extracted data based on the original intention to treat analysis for each trial; those lost to follow up were rated as having a poor outcome. The data were entered onto RevMan software<sup>9</sup> such that the area to the left of the line of no effect (in the meta-analysis) indicates Berkshire Health Authority, Reading, Berkshire RG30 2BA Paul Johnstone, consultant in public health medicine

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Trials included	in	systematic	review
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Trial	Method (duration)	No and description of participants (setting)	Intervention	Outcomes
Glick 1975 <sup>4 10-12</sup>	"Random allocation," not blind (2 years)	155; all with schizophrenia (57% paranoid). Mean age 23, 84% single, 10% black, 85% social class 3-5 (San Francisco, USA)	Short admission: 21-28 days, early discharge plan, rapid assessment, crisis resolution, long term rehabilitation plan Standard admission: 90-120 days, assessment after 2 weeks, included psychotherapy Similar fixed drug regimens across both groups. Adjustment for higher education status, socioeconomic status, and premorbidity in long stay group reported	Readmission, days in hospital, premature discharge, mental state, health sickness rating scale, social function, patient satisfaction, family burden, employment status, economic data
Glick 1976 <sup>20-22</sup>	"Randomly assigned," not blind (26 months)	74; "non-schizophrenic" including affective disorders, neuroses, and severe personality disorders (excluding drug and alcohol dependency). Mean age not known (San Francisco, USA)	Short admission: as above Standard admission: as above	As above
Herz 1975 <sup>13-17</sup>	"Randomly assigned," not blind (2 years)	175; severe mental illness; 60% schizophrenic. Excluded: under 16 years, organic brain disease, concurrent medical illness, drug and alcohol misuse (New York, USA)	Short admission: 7 days' planned discharge to day hospital or outpatient care Standard admission: length of stay determined by carers	Global function, mental state, family burden
Hirsch 1979 <sup>18 19</sup>	"Randomly assigned," not blind (1 year)	224; with "functional psychiatric disorder." Excluded: under 16 years, outside catchment, organic brain disease (London, United Kingdom)	Short admission: planned discharge less than 8 days Standard admission: discharged at carers' discretion	Mental state, behaviour, discharge date, loss to follow up, re admission, costs

favourable outcome for short hospital stay (experiment group). We considered qualitative data only if they were measured by instruments published in peer reviewed journals. Data from rating scales were only used if (a) self reported or completed by an independent rater or relative, and (b) more than 50% complete. We presented binary outcomes as Peto odds ratios with 95% confidence intervals around these estimates. We tested differences between the results for heterogeneity.

We agreed outcome measures a priori to review. Principal outcomes were: readmission; death (suicides and all causes); violent incidents (self, others, property); lost to follow up; premature discharge; and delayed discharge. Other outcomes of interest were: percentage improved; mental state; social functioning; patient satisfaction, quality of life, self esteem, and psychological wellbeing; family burden; imprisonment; employment status; independent living; total cost of care; and average length of hospital stay.

Review: short versus long hospitalisation Comparison: SHORT versus LONG HOSPITAL STAY Outcome: readmission to hospital

Study	Experimental group (No/total No)	Control group (No/total No	Peto odds ratio ) (95% Cl fixed)	Weight (%)	Peto odds ratio (95% Cl fixed)		
By 3 months Herz 1975 Subtotal $\chi^2$ = 0.00 (df=0) Z=0.	31/112 31/112 79	14/63 14/63	-	100.0 100.0	1.33 (0.66 to 2.69) 1.33 (0.66 to 2.69)		
<b>By 6 months</b> Herz 1975 Subtotal $\chi^2$ = 0.00 (df=0) Z=0.	37/112 37/112 39	19/63 19/63	-	100.0 100.0	1.14 (0.59 to 2.21) 1.14 (0.59 to 2.21)		
$\begin{array}{l} \textbf{By 1 year} \\ \textbf{Glick 1975} \\ \textbf{Glick 1976} \\ \textbf{Herz 1975} \\ \textbf{Hirsch 1979} \\ \textbf{Subtotal} \\ \chi^2 = 3.22 \ (df=3) \ Z=0 \end{array}$	29/75 5/37 55/112 39/115 128/339 45	25/80 8/37 30/63 46/109 109/289		25.3 7.8 29.0 37.9 100.0	1.38 (0.72 to 2.67) 0.58 (0.18 to 1.89) 1.06 (0.57 to 1.96) 0.70 (0.41 to 1.21) 0.93 (0.66 to 1.29)		
By 2 years Glick 1975 Glick 1976 Subtotal $\chi^2$ = 0.02 (df=1) Z=0.	39/75 13/37 52/112 21	40/80 13/37 53/117	0.1 0.2 1 5 10	69.5 30.5 100.0	1.08 (0.58 to 2.03) 1.00 (0.39 to 2.58) 1.06 (0.63 to 1.78)		
Fig 1 Readmissions to hospital at 3 and 6 months and 1 and 2 years							

## Results

#### **Results of search**

The initial electronic search identified 206 citations. Fourteen studies were identified for assessment, of which four were included because they fulfilled the above criteria.<sup>4 10-22</sup> Three excluded studies were quasirandomised trials, which were analysed and discussed separately.<sup>23-27</sup> Seven trials were excluded as they were not randomised trials.

Of the four included randomised controlled trials, three were from the United States,<sup>4</sup> <sup>10–22</sup> and one from the United Kingdom,<sup>18 19</sup> spanning 15 years from 1969 (table). Blinding of raters was not mentioned in any trial. Short hospital stays were planned from 1 week<sup>13–17</sup> to 21-28 days.<sup>4 10–12</sup> The average length of stay of those patients allocated to short hospital stay ranged from 10.8 days<sup>13–17</sup> to 25.0 days.<sup>4 10–12</sup> Short stay care included discharge planning and training for crisis resolution.<sup>4 10–12</sup> No specific community care was described, except for day care by Hirsch et al.<sup>18 19</sup> The duration of long hospital stays before the trial were only clearly reported in one study (90 to 120 days, mean 94 days),<sup>4 10–12</sup> otherwise professional carers determined length of stay.

Fourteen different outcome scales, some of unknown validity, were used without any reference to SDs, and therefore could not be summated. Only one paper presented data from a continuous measure that could be extracted in dichotomous form, and this was "percentage of people improved."<sup>4 10-12</sup> The main drug treatment was with neuroleptics, and all trials reported similar use in patients allocated both long and short hospital stay.

#### **Results of review**

*Readmissions (fig 1)*—All trials reported readmission data (total of 628 patients). No difference was found between short and long hospital stay groups by 1 year (odds ratio 0.93, 95% confidence interval 0.66 to 1.29) and by 2 years (1.06, 0.63 to 1.29), with no heterogeneity between trials ( $\chi^2$ =3.22, df=3, P>0.25 at 1 year). Adding three quasirandomised trials to the sensitivity analysis introduced heterogeneity, due to Burhan's study<sup>27</sup> which showed significantly fewer readmissions for those in the short hospital stay group throughout the 2 year period.

Loss to follow up (fig 2)—No differences were found in loss to follow up between short or long hospital stay groups at 1 and 2 years (three trials of 404 patients, 1.09, 0.62 to 1.91 with no heterogeneity at 2 years). At 1 year, just over 5% of people in both groups were lost to follow up and this rose to 14% by 2 years.

*Leaving hospital prematurely*—Only two trials reported abrupt premature discharge against medical advice<sup>4  $10-12 \ 20-22$ </sup>; no differences were found between the groups for this outcome (0.76, 0.31 to 1.86).

Discharge delayed beyond planned time (fig 3)—In three trials of 404 patients, significantly fewer delayed discharges were found in the short hospital stay groups compared with long hospital stay groups (0.47, 0.27 to 0.85), with no heterogeneity between trials ( $\chi^2 = 0.70$ , df = 2, P > 0.5). Including data from quasirandomised trials, however, reduced this to no effect and introduced significant heterogeneity ( $\chi^2 = 27.45$ , df = 4, P < 0.001).

*Not improved*—Only one trial reported percentages of people "not improved."<sup>4–10–12</sup> No differences were reported between short and long hospital stay groups as measured by two different scales. This outcome was reported in only the preliminary study, which was a subset of the larger trial.

*Deaths (all causes)*—Herz et al reported three deaths in the short hospital stay group and four deaths in the long hospital stay group (0.39, 0.08 to 1.86).<sup>13-17</sup>

Employment status and independent living—Patients from the short hospital stay groups were less likely to be unemployed at 2 years than those from the long hospital stay groups (0.34, 0.21 to 0.55, reported in two trials with 327 patients). There was, however, heterogeneity between the two trials ( $\chi^2 = 6.01 \text{ df} = 1$ , P<0.025).

*Cost of care*—Glick et al reported costs for outpatient services only and suggested that short stay care was slightly more expensive.<sup>4 10–12</sup>

Average length of stay—No SDs were reported for average lengths of hospital stays and therefore these could not be summated. For those allocated short hospital stays, the average length of stay ranged from 10.8 days<sup>13-17</sup> to 25.0 days.<sup>4 10-12</sup> The average length of long hospital stay ranged from 28 days<sup>18 19</sup> to 94 days.<sup>4 10-12</sup>

# Discussion

This review provides a timely evaluation of the evidence of effectiveness for hospital care and use of beds when many countries are reassessing their mental health policies. Although inpatient costs use about 80% of mental health resources, this review highlights a longstanding record of poor or inadequate evidence on the organisation and delivery of hospital care (in contrast with some aspects of community care).

Despite this, our review summarises important findings for new policies on modernising mental health services. Planned short hospital stays seemed to be as effective as long hospital stays for several important outcomes. Patients allocated short hospital stay experienced no more readmissions and no more losses to follow up and were more likely to be discharged on time than patients allocated long hospital stay. In addition, those allocated to short stay care had lower rates of unemployment, although these data should be interpreted with caution and warrant further investigation. Review: short versus long hospitalisation Comparison: SHORT versus LONG HOSPITAL STAY Outcome: lost to follow up

Study	Experimental group (No/total No)	Control group (No/total No)		eto odds ratio 95% Cl fixed)		Weight (%)	Peto odds ratio (95% Cl fixed)
By 6 months Herz 1975 Subtotal $\chi^2$ = 0.00 (df=0) Z=1	25/112 25/112 .02	10/63 10/63		-		100.0 100.0	1.49 (0.69 to 3.22) 1.49 (0.69 to 3.22)
By 1 year Glick 1975 Glick 1976 Hirsch 1979 Subtotal $\chi^2 = 0.59 (df=2) Z=1$	2/75 4/37 56/115 62/227 .10	3/80 3/37 62/109 68/226		-		7.2 9.5 83.2 100.0	0.71 (0.12 to 4.19) 1.37 (0.29 to 6.41) 0.72 (0.43 to 1.22) 0.77 (0.47 to 1.23)
By 2 years Glick 1975 Glick 1976 Herz 1975 Subtotal $\chi^2 = 0.72$ (df=2) Z=0	4/75 5/37 34/112 43/224 30	3/80 3/37 20/63 26/180	0.1 0.2		5 10	13.8 14.9 71.3 100.0	1.44 (0.32 to 6.53) 1.74 (0.40 to 7.47) 0.94 (0.48 to 1.83) 1.09 (0.62 to 1.91)

Fig 2 Loss to follow up at 6 months and 1 and 2 years

Review: short versus long hospitalisation

Comparison: SHORT versus LONG HOSPITAL STAY

Outcome: discharge delayed beyond the time planned in study

Study	Experimental group (No/total No)	Control group (No/total No)	Peto odds ratio (95% Cl fixed)	Weight (%)	Peto odds ratio (95% Cl fixed)
Glick 1975 Glick 1976 Herz 1975	3/75 3/37 19/112	10/80 4/37 18/63		26.4 14.1 59.5	0.33 (0.11 to 1.03) 0.73 (0.16 to 3.44) 0.50 (0.24 to 1.06)
Total χ <sup>2</sup> = 0.70 (df=2) Z=2.	25/224 51	32/180	0.1 0.2 1 5 10	100.0	0.47 (0.27 to 0.85)

Fig 3 Delayed discharge beyond time planned in study

Why did short stay care seem as successful as longer stay care? Goffman's theories of institutionalisation may explain why patients allocated long hospital stay had negative results.<sup>4</sup> He suggested that longer hospitalisation led to difficulties for patients in re-entering the "real world." In addition, short stay care with discharge planning and a date for discharge may have provided an impetus for managed care that was both focused and coordinated compared with standard care (similar to the care provided in stroke units). Patients may also prefer short hospital stays (which may help improve engagement in treatment), although this should also be investigated.

Other important outcomes were not assessed in the original trials or could not be summated, including deaths, violence, criminal offence or imprisonment, and continuous data on mental state, social functioning, and family burden. No trial reported patient satisfaction as an outcome, possibly because these views were not considered important in the 1960s and 1970s. Economic information was also very poor and difficult to interpret. If the mean actual length of hospital stay was used as a measure of resources consumed, the average costs for short hospital stay were more than three times cheaper than those for long hospital stay, suggesting that short stay care offered the same or better outcomes for less resources.

We found that adding the three lower quality quasirandomised trials introduced heterogeneity to

## Key messages

- The effectiveness of care in mental hospitals is important to patients, carers, and policymakers irrespective of the quality and quantity of community care and the provision of newer psychotic drugs
- Inpatient costs use around 80% of mental health resources, yet a longstanding record of poor or inadequate evidence on the organisation and delivery of hospital care was highlighted
- Despite this, planned short hospital stays seem to be as successful, or more so, than standard care: patients experienced no more readmissions and no more losses to follow up and were more likely to be discharged on time than those receiving standard care
- Further pragmatic trials are needed that focus on the most effective organisation and delivery of care in mental hospitals

most outcomes, thus supporting the use of Cochrane criteria for inclusion of methodologically rigorous trials in reviews. One trial merits further discussion.<sup>27</sup> We were concerned about the randomisation technique used, which could have led to unequal chances of being randomised into the short hospital stay group from a hospital cohort. The author, however, provided sole aftercare including counselling and continuous personal access via a telephone. Lessons could be learnt from this unusual trial, although it may not be easily replicated in practice.

Finally, planners usually assess the extent of inpatient provisions on the basis of national and international comparisons rather than on their effectiveness. Our review attempts to address this and, on the basis of limited data so far, commissioning short stay policies seem to be an appropriate use of resource irrespective of the quality and quantity of care after discharge and the provision of newer antipsychotics. Further pragmatic trials are needed to fill important gaps in knowledge, strengthen existing evidence, and allow greater generalisability to other care cultures.

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Contributors: PJ initiated the review, discussed core ideas, coordinated the review's hypothesis and protocol formulation, participated in data and publication searches, data extraction, analysis contacting original trialists, and writing drafts for the Cochrane review and paper publication. GZ participated and contributed to core ideas and the review's hypothesis and protocol formulation, and participated in searches, data extraction, analysis, and writing drafts for publication. Clive Adams (the coordinating editor of the Cochrane Schizophrenia Group) contributed to the formulation of the protocol and preparation of the review, assisting and providing additional training in searches and in providing advice on the drafts for publication in the Cochrane Library. Dr Dinesh Sethi, Professor Tom Burns, and Dr Robert Pugh provided additional comments and advice on successive drafts for publication.

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# Endpieces

## Plus ça change ...

A deal is a commercial transaction between purchaser and provider, involving prohibited or strictly controlled items of exchange, conducted in neutral indeterminate spaces not intended for such use, by means of tacit understanding, recognised signals, or conversation with double meaning—the aim of which is to avoid the risk of betrayal and fraud implicit in such operations—at any hour of day or night, independently of the official opening hours of authorised commercial outlets, but mostly when the latter are shut.

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