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A longitudinal study of admissions to residential and nursing home care following the **Community Care** Reforms

Robin Darton, Ann Netten and Pamela Brown

PSSRU discussion paper 1417 September 1997

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A Longitudinal Study of Admissions to Residential and Nursing Home Care Following the Community Care Reforms

Robin Darton, Ann Netten and Pamela Brown

Discussion Paper 1417 September 1997 Paper given at the British Society of Gerontology Annual Conference, Bristol, 19-21 September 1997

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Abstract

In the autumn of 1995, the PSSRU began a longitudinal survey of elderly people admitted to residential and nursing home care with local authority financial support. The survey was commissioned by the Department of Health, initially to help to improve the Standard Spending Assessment (SSA) formulae for allocating funds to local authorities for the support of elderly people. Information was collected from social workers in 18 local authorities in England about the circumstances of admission and the level of dependency for 2544 elderly people admitted during a three-month period from mid-October 1995. Follow-up studies have been conducted six and 18 months after admission, and further follow-ups are planned for 30 and 42 months after admission. In the follow-ups, managers of homes are being asked to provide information on mortality or the current location of the elderly people, and, for those still resident in the home, information on dependency corresponding to that collected on admission. If an elderly person has moved to another home, the same information is being requested from the new home. A separate exercise is being conducted to follow up those elderly people who returned to a private household or who were discharged to hospital, in which information is being collected from social workers.

This paper contains tables of results from the initial survey of admissions and from the follow-up six months after admission, including some information about those admitted to a private household or who were discharged to hospital. The paper was drafted for use in preparing a presentation for the 1997 British Society of Gerontology Annual Conference. Approximately 4 per cent of the individuals included in the survey were recorded as having assets which exceeded the capital limit for public funding, and these cases have been excluded from the tables. Individuals admitted from another residential or nursing home have been excluded from the tables of results from the six month follow-up. For the remainder, information on location or mortality at six months was obtained for 84 per cent; of these, 64 per cent were still in the original home and 25 per cent had died. For elderly people who had left residential or nursing home care, the main reasons recorded for their departure were: their acceptance of the home; changes in their functional abilities; and the ability of the home to provide the appropriate care, such as for those exhibiting behavioural problems associated with dementia.

Dp1417

Dp1417 **1. Introduction**

In the autumn of 1995, the PSSRU began a longitudinal survey of elderly people admitted to residential and nursing home care with local authority financial support. The survey was commissioned by the Department of Health, initially to help to improve the Standard Spending Assessment (SSA) formulae for allocating funds to local authorities for the support of elderly people, and was undertaken in collaboration with 18 local authorities in England. The initial phase of the survey was conducted during the three months from mid-October 1995 to mid-January 1996, and identified over 2500 permanent admissions. For each person admitted, information was collected from social workers about their previous living arrangements, the circumstances of their admission, their dependency characteristics, the type of home to which they were admitted and the contractual arrangements made with the home. Follow-up studies have been conducted six and 18 months after admission, and further follow-ups are planned for 30 and 42 months after admission. In the follow-ups, managers of homes are being asked to provide information on mortality or the current location of the elderly people, and, for those still resident in the home, information on dependency corresponding to that collected on admission. If an elderly person has moved to another home, the same information is being requested from the new home. A separate exercise is being conducted to follow up those elderly people who returned to a private household or who were discharged to hospital without their bed in the home being kept open. Information about each of these cases is being obtained from a social worker in the local authority which made the original assessment for admission, and includes information on dependency for individuals who were still alive and who had not returned to residential or nursing home care. Those re-admitted to a residential or nursing home were then included in the main series of follow-up studies.

This paper presents results from the initial survey of admissions and from the follow-up six months after admission, including some information about those admitted to a private household or who were discharged to hospital. The paper was drafted for use in preparing a presentation for the 1997 British Society of Gerontology Annual Conference. The presentation focused on characteristics of admission, patterns of mortality and discharge, and levels of dependency six months after admission. This paper consists largely of tables; detailed discussions of the results appear elsewhere. A more detailed paper on the six month follow-up, based on all cases in scope (see below), was prepared previously (Darton and Brown, 1997).

2. The Dataset

In the admissions survey, information was collected about 2544 individuals, after excluding a small number of cases found to be out of scope. However, 106 were recorded as having assets exceeding the capital limit for public funding (£8000 at the time of the survey), and the information presented in this paper is based on the 2438 individuals (2544-106) without assets exceeding £8000.

The original survey in autumn 1995 included a check on the location of the elderly people one month after admission. Among the 2438 individuals included in this paper, 165 were reported to have died and 62 were reported as having moved to another location within one month of admission. At the six month follow-up, information was obtained for 1840 of the 2438 individuals, including two cases reported to have died within one month of

admission, although the information on location at the six month follow-up was incomplete for three cases. No information was obtained at the six month follow-up for 45 of the 62 individuals who were reported as having moved to another location within one month of admission. For these cases, the information obtained on their location one month after admission has been used as their location at six months. Thus the information on location at the six month follow-up is based on 2045 cases (1840-3+165-2+45), 84 per cent of the 2438 individuals included in the admissions survey. Among the individuals in the survey as a whole, those who were not followed up at six months included 44 who refused to be included in the follow-up and eight who were untraceable. No information is available on the reasons for nonresponse for the remaining (majority of) cases.

Among the 2544 individuals in the admissions survey, 331 had been admitted from another residential or nursing home, including one individual for whom the source of admission was missing. Among the 2438 individuals included in this paper, the corresponding figure was 315 (including the individual for whom the source of admission was missing). The individuals admitted from another residential or nursing home are not included in the information presented on the six month follow-up, which is based on 2123 individuals (2438-315). Information on their location at six months was obtained for 1793 of these 2123 individuals (84 per cent). Of these 1793 cases, 64 per cent were still in the original home, 25 per cent had died, 4 per cent had moved to a different home, 4 per cent had moved to a private household and 3 per cent had entered hospital (table 8).

The cases have not been weighted for the analyses presented in this paper.

The sources shown for the tables identify the relevant computer runs.

3. Measures of Dependency

The survey was designed to collect information relating to physical dependency and mental state which could be used to approximately reproduce the Barthel Index of ADL (activities of daily living) (Collin et al., 1988) and the MDS CPS (Cognitive Performance Scale) (Morris et al., 1994). In addition, the information collected could be used to provide approximations to other summary measures of dependency, for comparisons with previous surveys. In particular, approximations could be made to the Index of Independence in Activities of Daily Living (Katz et al., 1963, 1970) and to a measure of aggregate dependency originally developed for the 1970 Census of Residential Accommodation (DHSS, 1975), which is defined in Davies and Knapp (1978).

Each of these measures is included in the tables in this paper. In the case of mental confusion, the categories of the MDS Cognitive Performance Scale have been grouped into three categories. These are as follows: intact = intact (code 0); mild impairment = borderline intact (code 1), mild impairment (code 2) or moderate impairment (code 3); severe impairment = moderately severe impairment (code 4), severe impairment (code 5) or very severe impairment (code 6). These groupings have been selected to provide an approximation to the classification used in previous surveys, in which residents were classified as mentally alert, mildly confused or severely confused. For the purposes of presentation, the scores on the Barthel Index have been grouped into four categories, following Granger et al. (1979). The

amended version of the Index of Independence in Activities of Daily Living presented in this paper was designed to provide an approximation to the classification of physical disability used by the Audit Commission (1985), and is described in Darton and Wright (1992).

4. Follow-Up of Elderly People who left Residential or Nursing Home Care

As noted in section 1, a separate exercise was conducted to follow up those elderly people who left the residential or nursing home to return to a private household or who were discharged to hospital without their bed being kept open. In the course of the check on the location of the elderly people one month after admission and at the six month follow-up, 131 such individuals were identified in the survey as a whole. Ninety-nine of these individuals were followed up by contacting the local authority which made the original assessment for admission. Of the other 32 cases, 22 had died after leaving the home, five could not be traced and five were omitted from the follow-up exercise in error.

Among the 99 cases followed up, three were found to be out of scope and three were recorded as having assets exceeding the capital limit for public funding. For the remaining 93 individuals, table 19 shows their location at the time of the six month follow-up and their most recent known location, as reported in the separate follow-up exercise. Individuals admitted from another residential or nursing home have not been excluded from this table. Information was obtained from the local authorities for 82 of the 93 individuals, although seven refused to be included in the follow-up exercise. Among the remaining 75 individuals, 21 had died. In addition, one of the 11 individuals for whom no information was obtained from the local authority was also known to have died, and is recorded accordingly in the table. One of the individuals who refused to be included in the follow-up exercise was recorded as being in the original home.

For the 75 individuals for whom information was obtained from the local authority and who did not refuse to be included in the follow-up, their most recent location or, for those who had died, their location at the time of death, was as follows. Thirty-three people were living in a private household; 17 people had moved to a different home from the one in which they were originally placed; ten people had been re-admitted to the original residential or nursing home, including a small number who appeared to have never left the home; nine people were in temporary hospital care; and four people were in hospital long-stay care. For the remaining two cases, the location was not reported.

The situations resulting in the failure of placements can be broadly divided into three groups: factors associated with the clients' acceptance of their new home; changes in their functional abilities; and factors related to the ability of the homes to provide the care needed. The most common reason given by social workers for clients leaving the original placement was that they did not settle, either because they wanted to be back in their own home, or with their partner, or because they objected to some aspect of the care provided, such as the lack of privacy. Of those who were discharged to a private household, half gave this kind of reason for the discharge, while a third of these cases were able to go home because their physical condition improved or their rehabilitation was successfully completed. For the small number of people who moved into a long-term hospital bed, the most common reason was the inability of the home to cope with behavioural problems associated with dementia.

Clients discharged from the original home but found on follow-up to have been placed in residential or nursing home care also exhibited a wide variety of reasons for leaving the first placement. Almost all the people who had moved into nursing home care were said to have shown an increase in dependency, particularly a loss of mobility or increased confusion. Those who moved into a different residential home, however, had left the original home for a range of reasons more related to their personal reactions than to a change in functioning.

Acknowledgements

This survey was funded by the Department of Health as part of a wider study of residential and nursing home care for elderly people commissioned from the Personal Social Services Research Unit (PSSRU). The research team at the PSSRU includes Andrew Bebbington, Pamela Brown, Robin Darton, Julien Forder, Kathryn Miles and Ann Netten, with secretarial assistance from Lesley Banks. Responsibility for this report is the authors' alone. We are most grateful to the staff in the local authorities which agreed to participate in the survey and to the staff of residential and nursing homes for providing the information for the survey. The main data collection for the survey was undertaken by Research Services Limited (RSL). Finally, we are most grateful to the study as a whole.

Dp1417 **Tables and Figures**

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Demographic characteristics		Residential beds		Nursing beds	All beds
	Local authority	Voluntary	Private		
Number of individuals	206	243	865	1124	2438
Age group 65 to 69 70 to 74 75 to 79 80 to 84 85 and over	2 8 15 31 45	3 9 12 24 52	3 8 15 26 48	4 10 19 26 41	3 9 17 26 45
Sex Male Female	31 69	28 72	25 75	32 68	29 71
Source of admission Domestic household Sheltered housing Residential care Nursing home Hospital Other	44 8 7 <1 39 0	40 10 8 2 39 2	35 8 10 2 44 2	18 2 12 4 63 2	28 5 10 3 52 1
Household composition Lived alone Lived with others In hospital In resid/nursing home Elsewhere	34 18 39 8 0	31 19 39 10 2	31 12 44 11 2	9 11 63 16 2	21 13 52 13 1
Household composition (8 weeks before admission) Lived alone Lived with others In hospital In resid/nursing home Elsewhere	67 29 3 1 0	62 31 4 2 1	62 24 7 6 <1	38 35 16 11 <1	51 30 10 7 <1

Table 1. Demographic Characteristics of Admissions by Type of Bed to which Admitted (Percentages)

Demographic characteristics		Residential beds	5	Nursing beds	All beds
	Local authority	Voluntary	Private		
Household tenure Owner occupied/mortgaged Rented from LA/NT/HA Privately rented Other Not living in household Household tenure (8 weeks before admission) Owner occupied/mortgaged Rented from LA/NT/HA Privately rented	14 33 4 2 48 24 60 8	17 29 2 1 50 26 56 7	11 25 5 2 57 23 50 10	7 10 2 <1 80 22 44 5	10 19 3 1 66 23 49 7
Other Not living in household	3 4	3 8	3 14	2 27	3 19

Table 1. (cont'd) Demographic Characteristics of Admissions by Type of Bed to which Admitted (Percentages)

Table 2. Reasons for Admission by Type of Bed to which Admitted (Percentages)

Reasons for admission		Residential beds		Nursing beds	All beds
	Local authority	Voluntary	Private		
Number of individuals	206	243	865	1124	2438
Physical or functional needs	74	78	75	83	79
Mental health needs	51	49	47	39	44
Carer related factors	44	49	40	38	40
Lack of motivation	22	29	25	16	21
Housing problem	14	13	16	15	15
Social contact	4	2	3	1	2
Other	7	8	7	3	5

Table 3. Disorders and Diseases of Admissions by Type of Bed to which Admitted (Percentages)

Disorders and diseases		Residential beds		Nursing beds	All beds
	Local authority	Voluntary	Private		
Number of individuals	206	243	865	1124	2438
Dementia (diagnosed)	40	40	37	39	38
Arthritis	39	36	33	28	32
Stroke	18	17	17	26	21
Cardiovascular disease	21	15	19	20	19
Respiratory/chest disease	15	15	14	15	14
Deafness	19	15	15	11	14
Depression (diagnosed)	12	11	16	12	13
Fracture	9	9	10	11	10
Blindness	9	9	10	10	10
Malignancy	4	3	5	13	8
Other psychiatric disorder	5	7	6	5	6
Gastrointestinal disease	4	4	4	6	5

Table 4. Dependency of Admissions by Type of Bed to which Admitted (Percentages)

$\begin{tabular}{ c c c c c c } \hline Local authority & Private & & & & & & & & & & & & & & & & & & &$	Dependency characteristics]	Residential beds	3	Nursing beds	All beds
Number of individuals20624386511242438Mobility Walk outdoors191516411Walk indoors and stairs201415511Indoors on level/with aids3532311123Walk indoors with help1115212320Chair or bedfast4542915Self-care (need assistance)45363567Wash face and hands2536356749Bath or wash all over8988859590Dress5160588872Feed self712123823Use WC2030297349Transfer (bed/chair)22343531301221144629Continence5544552440Confusion1221144635Incontinent2833244635Severe impairment2833244635Severe impairment232323192020Mid inpairment4849543645Severe impairment2323231924Severe impairment2323231924Severe impairment24192223 <td< td=""><td></td><td>Local authority</td><td>Voluntary</td><td>Private</td><td></td><td></td></td<>		Local authority	Voluntary	Private		
Mobility u	Number of individuals	206	243	865	1124	2438
Walk outdoors191516411Walk indoors and stairs201415511Indoors on level/with aids3532311123Walk indoors with help1115212320Mobile in wheelchair1115212320Chair or bedfast4542915Self-care (need assistance) $$	Mobility					
Walk indoors and stairs201415511Indoors on level/with aids3532311123Walk indoors with help1115212320Mobile in wheelchair1119132820Chair or bedfast4542915Self-care (need assistance)	Walk outdoors	19	15	16	4	11
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Walk indoors and stairs	20	14	15	5	11
Walk indoors with help1115212320Mobile in wheelchair1119132820Chair or bedfast4542915Self-care (need assistance)	Indoors on level/with aids	35	32	31	11	23
Mobile in wheelchair1119132820Chair or bedfast4542915Self-care (need assistance)Wash face and hands2536356749Bath or wash all over8988859590Dress5160588872Feed self712123823Use WC2030297349Transfer (bed/chair)2234347652ContinenceConfusion1221144629Incontinent223335313031Incontinent1221144629ConfusionIntact2419221820Severe impairment2833244635Frequency of problem behaviour Never/very unusual (aily)6760696566Sometimes (>weekly)2323192020Frequenty (daily)1017121614Bathel Index (grouped) Low dependence (Score >12)5946521234Moderate dep. (Score >58)101816322323Total dependence (Score >58)1018163223Total de	Walk indoors with help	11	15	21	23	20
Chair or bedfast4542915Self-care (need assistance) Wash face and hands2536356749Bath or wash all over8988859590Dress5160588872Feed self712123823Use WC2030297349Transfer (bed/chair)2234347652Continent5544552440Occasional accidents3335313031Incontinent1221144629Confusion	Mobile in wheelchair	11	19	13	28	20
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Chair or bedfast	4	5	4	29	15
Wash face and hands Bath or wash all over 25 89 36 88 35 85 67 90 49 90 Bath or wash all over 89 88 88 85 95 90 90 90 Dress 51 12 60 58 88 88 72 12 Feed self 7 12 12 22 12 34 38 34 76 Use WC Continent Occasional accidents 22 33 34 35 76 52 Continent Occasional accidents 55 12 44 55 52 44 46 29 Confusion Intact Severe impairment 24 28 19 23 22 23 18 23 20 26 Frequency of problem behaviour Never/very unusual Severe impairment 67 23 23 66 66 52 19 20 20 20 Barthel Index (grouped) Low dependence (Score >12) Severe dep. (Score 5-8) 10 7 18 16 7 37 7 4 37 37 Require nursing care Daily dressings Bedfast procedures $< <1$ <1 7 21 23 23 26 30 28 19 24 37 28 33 Require nursing care Daily dressings Acta star 7 21 9 7 7 9 7 37 22 24 Any tasks 21 27 23 23 66 43	Self-care (need assistance)					
Bath or wash all over8988859590Dress5160588872Feed self712123823Use WC2030297349Transfer (bed/chair)2234347652Continence	Wash face and hands	25	36	35	67	49
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Bath or wash all over	89	88	85	95	90
Feed self71212123823Use WC2030297349Transfer (bed/chair)2234347652Continence203035313031Continent5544552440Occasional accidents3335313031Incontinent1221144629Confusion1221144629Intact2419221820Mild impairment2833244635Severe impairment2833244635Frequency of problem behaviour Never/very unusual Erequently (daily)6760696566Sometimes (>weekly)232319202020Frequently (daily)1017121614Barthel Index (grouped) Low dependence (Score 9-12)2930281924Severe dep. (Score 9-12)293028192423Severe dep. (Score 0-4)2743719Require nursing care Daily dressings1621173928Bedfast procedures Any tasks2127236643	Dress	51	60	58	88	72
Use WC Transfer (bed/chair)2030297349Transfer (bed/chair)2234347652Continence Continent5544552440Occasional accidents3335313031Incontinent1221144629Confusion Intact2419221820Mild impairment4849543645Severe impairment2833244635Frequency of problem behaviour Never/very unusual Frequently (daily)6760696566Sometimes (>weekly)232319202020Frequently (daily)1017121614Barthel Index (grouped) Low dependence (Score 9-12)5946521234Severe dep. (Score 5-8)1018163223Total dependence (Score 0-4)2743719Require nursing care Daily dressings1621173928Bedfast procedures Any tasks2127236643	Feed self	7	12	12	38	23
Transfer (bed/chair)2234347652Continence Continent5544552440Occasional accidents3335313031Incontinent1221144629Confusion Intact2419221820Mild impairment2419221820Mild impairment2833244635Frequency of problem behaviour Never/very unusual Sometimes (>weekly)6760696566Sometimes (>weekly)232319202020Frequently (daily)1017121614Barthel Index (grouped) Low dependence (Score >12)5946521234Severe dep. (Score 5-8) Total dependence (Score 0-4)2743719Require nursing care Daily dressings Bedfast procedures </td <td>Use WC</td> <td>20</td> <td>30</td> <td>29</td> <td>73</td> <td>49</td>	Use WC	20	30	29	73	49
$\begin{array}{c cccc} Continent & 55 & 44 & 55 & 24 & 40 \\ Continent & 33 & 35 & 31 & 30 & 31 \\ Incontinent & 12 & 21 & 14 & 46 & 29 \\ \hline \\ Confusion & & & & & & & & & & \\ Intact & 24 & 19 & 22 & 18 & 20 \\ Mild impairment & 28 & 33 & 24 & 46 & 35 \\ \hline \\ Severe impairment & 28 & 33 & 24 & 46 & 35 \\ \hline \\ Frequency of problem behaviour \\ Never/very unusual & 67 & 60 & 69 & 65 & 66 \\ Sometimes (>weekly) & 23 & 23 & 19 & 20 & 20 \\ Frequently (daily) & 10 & 17 & 12 & 16 & 14 \\ \hline \\ Barthel Index (grouped) & & & & & & & & \\ Low dependence (Score >12) & 59 & 46 & 52 & 12 & 34 \\ Moderate dep. (Score 5-8) & 10 & 18 & 16 & 32 & 23 \\ Total dependence (Score 0-4) & 2 & 7 & 4 & 37 & 19 \\ \hline \\ Require nursing care & & & & & & & & \\ Daily dressings & 16 & 21 & 17 & 39 & 28 \\ Bedfast procedures & <1 & <1 & 2 & 24 & 12 \\ Other tasks & 9 & 7 & 9 & 37 & 22 \\ Any tasks & 21 & 27 & 23 & 66 & 43 \\ \hline \end{array}$	Transfer (bed/chair)	22	34	34	76	52
Continent5544552440Occasional accidents3335313031Incontinent1221144629Confusion1221144629Intact2419221820Mild impairment4849543645Severe impairment2833244635Frequency of problem behaviour6760696566Sometimes (>weekly)2323192020Frequently (daily)1017121614Barthel Index (grouped) $$	Continence					
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Occasional accidents	33	35	31	30	31
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Incontinent	12	21	14	46	29
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Severe impairment2833244635Frequency of problem behaviour Never/very unusual6760696566Sometimes (>weekly)2323192020Frequently (daily)1017121614Barthel Index (grouped) Low dependence (Score >12)5946521234Moderate dep. (Score 9-12)2930281924Severe dep. (Score 5-8)1018163223Total dependence (Score 0-4)2743719Require nursing care Daily dressings1621173928Bedfast procedures<1	Mild impairment	48	49	54	36	45
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Severe impairment	28	33	24	46	35
Never/very unusual 67 60 69 65 66 Sometimes (>weekly) 23 23 19 20 20 Frequently (daily) 10 17 12 16 14 Barthel Index (grouped) 10 17 12 16 14 Low dependence (Score >12) 59 46 52 12 34 Moderate dep. (Score 9-12) 29 30 28 19 24 Severe dep. (Score 5-8) 10 18 16 32 23 Total dependence (Score 0-4) 2 7 4 37 19 Require nursing care	Frequency of problem behaviour					
Sometimes (>weekly) 23 23 10 17 12 36 30 Barthel Index (grouped)1017121614Barthel Index (grouped) 59 46 52 1234Low dependence (Score >12) 59 46 52 1234Moderate dep. (Score 9-12) 29 30 28 1924Severe dep. (Score 5-8)101816 32 23 Total dependence (Score 0-4)274 37 19Require nursing care $ -$ Daily dressings162117 39 28 Bedfast procedures <1 <1 2 27 23 Any tasks 21 27 23 66 43	Never/very unusual	67	60	69	65	66
Barthel Index (grouped) Low dependence (Score >12)1017121614Barthel Index (grouped) Low dependence (Score >12)5946521234Moderate dep. (Score 9-12)2930281924Severe dep. (Score 5-8)1018163223Total dependence (Score 0-4)2743719Require nursing care Daily dressings1621173928Bedfast procedures<1	Sometimes (>weekly)	23	23	19	20	20
Barthel Index (grouped) Low dependence (Score >12)5946521234Moderate dep. (Score 9-12)2930281924Severe dep. (Score 5-8)1018163223Total dependence (Score 0-4)2743719Require nursing care $$	Frequently (daily)	10	17	12	16	14
Low dependence (Score >12)5946521234Moderate dep. (Score 9-12)2930281924Severe dep. (Score 5-8)1018163223Total dependence (Score 0-4)2743719Require nursing care $ -$ Daily dressings1621173928Bedfast procedures<1	Barthel Index (grouped)					
Moderate dep. (Score 9-12) 29 30 28 19 24 Severe dep. (Score 5-8) 10 18 16 32 23 Total dependence (Score 0-4) 2 7 4 37 19 Require nursing care	Low dependence (Score >12)	59	46	52	12	34
Arodenice dep. (Score 5-12) 10 10 18 16 32 23 Severe dep. (Score 5-8) 10 18 16 32 23 Total dependence (Score 0-4) 2 7 4 37 19 Require nursing care	Moderate den (Score 9-12)	29	30	28	19	24
Total dependence (Score 0-4) 2 7 4 37 19 Require nursing care 16 21 17 39 28 Daily dressings 16 21 17 39 28 Bedfast procedures <1 <1 2 24 12 Other tasks 9 7 9 37 22 Any tasks 21 27 23 66 43	Severe den (Score 5-8)	10	18	16	32	23
Require nursing care Daily dressings1621173928Bedfast procedures<1	Total dependence (Score 0-4)	2	7	4	37	19
Require nursing care1621173928Daily dressings1621173928Bedfast procedures<1		_	,			.,
Daily dressings1621173928Bedfast procedures<1	Require nursing care					
Bedfast procedures <1 <1 2 24 12 Other tasks 9 7 9 37 22 Any tasks 21 27 23 66 43	Daily dressings	16	21	17	39	28
Other tasks 9 7 9 37 22 Any tasks 21 27 23 66 43	Bedfast procedures	<1	<1	2	24	12
Any tasks 21 27 23 66 43	Other tasks	9	7	9	37	22
	Any tasks	21	27	23	66	43

Table 5. Dependency of Admissions by Source of Admission (Percentages)

Dependency characteristics	Hospital	Private household	Other	Total
Number of individuals	1269	818	350	2437
Barthel Index (grouped)				
Low dependence (Score >12)	27	44	33	34
Moderate dep. (Score 9-12)	22	28	23	24
Severe dep. (Score 5-8)	27	17	22	23
Total dependence (Score 0-4)	23	11	23	19
Confusion				
Intact	19	23	19	20
Mild impairment	45	47	41	45
Severe impairment	36	31	40	35
Frequency of problem behaviour				
Never/unusual	67	65	62	66
Sometimes (>weekly)	19	21	21	20
Frequently (daily)	13	13	17	14

Table 6. Dependency of Admissions by Type of Household (Percentages)

Dependency characteristics	Single person household	Multi-occupancy household	Total
Number of individuals	1252	734	1986
Barthel Index (grouped)			
Low dependence (Score >12)	42	26	36
Moderate dep. (Score 9-12)	25	26	25
Severe dep. (Score 5-8)	21	23	21
Total dependence (Score 0-4)	13	26	17
Confusion			
Intact	22	18	21
Mild impairment	50	40	46
Severe impairment	28	42	33
Frequency of problem behaviour			
Never/unusual	69	62	66
Sometimes (>weekly)	19	22	20
Frequently (daily)	12	16	14

Table 7.Logistic Regression Equations Comparing Individuals admitted to a Nursing Bed with those admitted to aResidential Bed (Odds Ratios)

Demographic and dependency characteristics	Equation 1	Equation 2
Age group		
65-69	1 0000	1,0000
70-74	0 7991	1 0180
75-79	0.9188	1.0682
80-84	0.7023	0.8689
85 and over	0.6278	0.8131
Sex		
Male	1.0000	1.0000
Female	0.7977*	0.8625
Source of admission		
Domestic household	1.0000	1.0000
Sheltered housing	0.5395**	0.5983
Residential or nursing home	1.9623***	2.2572***
Hospital	2.2314***	2.3014***
Other	1.8334	1.3962
Household composition		
Lived alone	0.4970***	0.4887***
Lived with others	0.7437	0.7699
Not living in household	1.0000	1.0000
Barthel Index (grouped)		
Low dependence (Score >12)	1.0000	1.0000
Moderate dependence (Score 9-12)	2.7537***	2.2917***
Severe dependence (Score 5-8)	7.3856***	4.8078***
Total dependence (Score 0-4)	28.1913***	12.9747***

Table 7. (cont'd)

Logistic Regression Equations Comparing Individuals admitted to a Nursing Bed with those admitted to a Residential Bed (Odds Ratios)

Demographic and dependency characteristics	Equation 1	Equation 2
Confusion		
Intact	1 0000	1,0000
Mild impairment	0.6745***	0 7013**
Severe impairment	0.9649	1.0697
Frequency of problem behaviour	1.0000	1.0000
Never/very unusual	1.0000	1.0000
Sometimes (>weekly)	1.0143	1.0808
Frequently (daily)	1.1851	1.3756*
Require daily dressings		
No	-	1.0000
Yes	-	1.9454***
Require bedfast procedures		
No	-	1.0000
Yes	-	6.7904***
Require other pursing care		
No	_	1,0000
Ves	_	4 0820***
105	-	4.0620
Number of individuals		
Total number	2438	2438
Number in analysis	2269	2269
McEadden's \mathbb{R}^2	0.275	0 349
	0.275	0.347
Percentage of correct predictions		
Residential beds	80.7	86.1
Nursing beds	70.1	71.4
Overall	76.0	79.5

Source: S506

Note: * $0.10 \ge p > 0.05$; ** $0.05 \ge p > 0.01$; *** $0.01 \ge p$.

Table 8. Location of Individuals at 6 Month Follow-Up by Type of Bed to which Originally Admitted

Location	All be	spe	Resident	tial bed	Nursin	g bed
	No.	%	No.	%	No.	%
Total number of individuals	2438	I	1314	1	1124	ı
Number admitted from a residential or nursing home	315		139	I	176	ı
Number not admitted from a residential or nursing home	2123	100.0	1175	100.0	948	100.0
In a residential or nursing home	1227	57.8	765	65.1	462	48.7
In home originally admitted to	1154	54.4	716	60.9	438	46.2
Moved to another residential home	15	0.7	15	1.3		ı
Moved to a nursing home	34	1.6	34	2.9		
Moved to a residential home	L	0.3		I	L	0.7
Moved to another nursing home	17	0.8	I	I	17	1.8
Elsewhere	121	5.7	89	7.6	32	3.4
In hospital (bed not being kept open)	56	2.6	39	3.3	17	1.8
In private household	65	3.1	50	4.3	15	1.6
Died in home or while temporarily absent	445	21.0	150	12.8	295	31.1
No or incomplete information	330	15.5	171	14.6	159	16.8

Source: S499

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Location All	Mean	ber of individuals	otal number who had left of guidt nome umber with information on length of stay	dividuals with length of stay $< \delta$ months 61	lifferent home	loved to residential bed	loved to nursing bed 76	vhere	thospital (bed not being kept open) 66	private household 52	in home or while temporarily absent 59	
beds	No.	007	029 625	582		20	47		49	58	408	
Resident	Mean		1 1	99		86	80		75	47	65	
tial bed	No.	000	280 280	258		14	31		34	45	134	
Nursin	Mean		1 1	57		56	69		44	67	56	
g bed	No.	251	345	324		9	16		15	13	274	

Table 9. Mean Length of Stay of Individuals who had left the Home within 6 Months of Admission, by Type of Bed to which Originally Admitted (Days)

Table 10. Distribution of Length of Stay of Individuals who had left the Home within 6 Months of Admission, by Type of Bed to which Originally Admitted (Percentages of Individuals who had left)

th of stay	All b	oeds	Residen	tial bed	Nursin	g bed
	All individuals	Died	All individuals	Died	All individuals	Died
luals	582	408	258	134	324	274
6	16	13	12	8	19	17
	20	14	20	10	21	17
	12	7	13	4	12	6
	10	8	6	9	11	10
	9	5	L	5	9	4
	9	5	5	3	7	9
	4	33	5	2	4	3
	5	33	9	2	4	4
	4	33	4	2	4	4
	4	33	9	4	3	2
	4	2	5	2	3	2
	5	33	5	3	4	3
	3	2	3		3	2
	100	70	100	52	100	85

	phic Characteristics of Individuals by Location at 6 Month Follow-Up (Percentages)
Table 11.	Demographic Chai

Demographic characteristics	Residential bed	Nursing bed	Hospital	Private household	Died	No information	All individuals
Number of individuals	734	493	56	65	445	330	2123
Age group 65-69 70-74 75-79 80-84 85 and over	3 8 25 48	4 11 39 39	4 14 39 30	6 11 44	3 18 25 47	4 17 28 41	4 17 26 44
Sex Male Female	26 74	31 69	36 64	23 77	34 66	31 69	30 70
Source of admission Domestic/sheltered household Hospital Other	52 47 1	27 72 <1	34 63 4	52 45 3	31 67 2	35 62 3	39 60 2
Household composition (8 weeks before admission) Lived alone Lived with others Not living in household	68 25 7	43 39 18	63 25 13	60 35 5	52 35 13	47 34 18	55 32 13
Household tenure (8 weeks before admission) Owner occupied/mortgaged Rented from LA/NT/HA Privately rented Other Not living in household	24 57 3 3	24 66 18	23 7 13	40 11 5 3	5 4 2 3 2 8 8 13 2 8	26 46 3 18	24 8 13 3

Source: S499

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All individuals	2123	33 11 11	20 20 15	48 23 23 25 23 25	40 31 29
No information	330	10 21	21 17 20	52 53 53 53	38 28 34
Died	445	4 7 4 20	23 26 21	59 95 81 60 65	27 34 39
Private household	65	25 11 28	14 8	28 71 23 29	55 32 12
Hospital	56	13 9 32 9	23 17 6	30 91 68 41 45	46 20 34
Nursing bed	493	s 12 7 2	23 28 25	63 93 30 69 74	28 29 42
Residential bed	734	16 18 31	17 13 4	33 86 30 30 30	54 33 13
Dependency characteristics	Number of individuals	Mobility Walk outdoors Walk indoors and stairs Indoors on level/with aids	Walk indoors with help Mobile in wheelchair Chair or bedfast	Self-care (need assistance) Wash face and hands Bath or wash all over Dress Feed self Use WC Transfer (bed/chair)	Continence Continent Occasional accidents Incontinent

Table 12. Dependency Characteristics of Individuals at Admission by Location at 6 Month Follow-Up (Percentages)

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All individuals	20 46 34	66 20 14
No information	16 48 46	62 21 17
Died	20 40	67 21 13
Private household	38 50 13	80 8 8
Hospital	23 47 30	74 19 8
Nursing bed	19 38 43	66 18 17
Residential bed	22 52 26	67 22 12
Dependency characteristics	Confusion Intact Mild impairment Severe impairment	Frequency of problem behaviour Never/very unusual Sometimes (>weekly) Frequently (daily)

Table 12. (cont'd) Dependency Characteristics of Individuals at Admission by Location at 6 Month Follow-Up (Percentages)

Table 13. Measures of Aggregate Dependency of Indivi	viduals at Admissi	on by Location at	t 6 Month Follow-	.Up (Percentages)			
Dependency measures	Residential bed	Nursing bed	Hospital	Private household	Died	No information	All individuals
Number of individuals	734	493	56	65	445	330	2123
Amended Index of ADL No dependent functions Dependent in bathing 1-4 dep/can transfer and feed Dependent in transfer or feed	13 24 35	5 5 13	9 16 29	26 26 34	4 8 8 68 68	6 13 21 59	8 14 56
Barthel Index (grouped) Low dependence (Score >12) Moderate dependence (Score 9-12) Severe dependence (Score 5-8) Total dependence (Score 0-4)	55 28 3	15 20 35 30	39 30 13	57 23 8 12	19 25 31	31 21 23	34 24 18
DHSS 4-category Minimal Limited Appreciable Heavy	10 25 44	2 13 82	6 19 49	30 25 28	2 10 69	6 14 15 65	6 15 61

Source: S499

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Table 14. Dependency of Individuals at Admission by Location at Admission, Type of Bed to which Originally Admitted and Location at 6 Month Follow-Up

Table 15. Dependency of

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Nursing bed	Died No. of In original Elsewhere Died individuals home or nursing bed	148 777 451 38 288	11.7 339 7.7 9.2 6.9 9.7 296 6.6 7.1 6.0 12.8 141 6.4 7.5 5.4	21 329 39 33 33 44 288 49 31 57 57 46 50 50
	In original Elsewher viduals home or residential bed	988 720 120	563 13.1 14.0 265 12.2 11.1 60 12.9 13.6	543 22 14 261 33 39 43 32 17
Dependency characteristics and location 8 weeks before admission	N indri	Number of individuals 9	Mean Barthel Score Lived alone Lived with others Hospital	Severe confusion (%) Lived alone Lived with others 2 Hospital

Table 16.

Logistic Regression Equations Comparing Individuals who had Died with those who were Still Alive at 6 Month Follow-Up, by Type of Bed to which Originally Admitted (Odds Ratios)

Demographic and dependency characteristics	All beds	Residential bed	Nursing bed
Age group			
65-69	1.0000	1.0000	1.0000
70-74	0.8319	0.8821	0.7785
75-79	1.1828	1.0818	1.2482
80-84	1.1879	1.2543	1.0992
85 and over	1.4412	1.5235	1.3064
Sex			
Male	1.0000	1.0000	1.0000
Female	0.7333**	0.7328	0.7302*
Source of admission			
Domestic/sheltered household	1.0000	1.0000	1.0000
Hospital	1.0904	1.1620	1.0655
Other	1.7656	1.3682	2.2908
Household composition			
Lived alone	1.1166	2.7402	0.9027
Lived with others	1.0188	2.8844*	0.7449
Not living in household	1.0000	1.0000	1.0000
Barthel Index (grouped)			
Low dependence (Score >12)	1.0000	1.0000	1.0000
Moderate dependence (Score 9-12)	1.7045***	1.7407***	1.3335
Severe dependence (Score 5-8)	1.4862**	1.8661**	1.0232
Total dependence (Score 0-4)	2.6069***	3.6498***	1.9489***
Confusion			
Intact	1.0000	1.0000	1.0000
Mild impairment	0.9252	1.0822	0.8581
Severe impairment	1.0047	1.3114	0.8821

Table 16. (cont'd)

Logistic Regression Equations Comparing Individuals who had Died with those who were Still Alive at 6 Month Follow-Up, by Type of Bed to which Originally Admitted (Odds Ratios)

Demographic and dependency characteristics	All beds	Residential bed	Nursing bed
Frequency of problem behaviour Never/very unusual Sometimes (>weekly) Frequently (daily)	1.0000 1.1561 0.9102	1.0000 1.0012 0.7428	1.0000 1.2570 0.9597
Type of bed			
Residential bed Nursing bed	1.0000 2.4922***	-	- 1.0000
Number of individuals Total number Number in analysis	1793 1656	1004 956	789 700
McFadden's R ²	0.082	0.035	0.026
Percentage of correct predictions			
Still alive	96.9	100.0	93.3
Died	11.4	0.0	15.4
Overall	75.6	84.7	63.7

Sources: S504, S505, S508

Note: * $0.10 \ge p > 0.05$; ** $0.05 \ge p > 0.01$; *** $0.01 \ge p$.

Table 17.

Logistic Regression Equations for Individuals who were Still Alive at 6 Month Follow-Up, Comparing those who had left Residential or Nursing Home Care with those who remained, by Type of Bed to which Originally Admitted (Odds Ratios)

Demographic and dependency characteristics	All beds	Residential bed	Nursing bed
Age group			
65-69	1.0000	1.0000	1.0000
70-74	0 7993	0.9348	0.7727
75-79	0.5022	0.9264	0.1124**
80-84	0.5803	0.8658	0.3190
85 and over	0.4227*	0.6260	0.2284*
Sex			
Male	1.0000	1.0000	1.0000
Female	1.0358	0.9691	1.2809
Source of admission			
Domestic/sheltered household	1.0000	1.0000	1.0000
Hospital	0.9993	1.0011	1.0738
Other	3.4348**	2.9045	2625.1340
Household composition			
Lived alone	1 4264	1 2003	1 5386
Lived with others	1.4204	1.2905	1.5580
Not living in household	1.0000	1.0000	1.0000
e			
Barthel Index (grouped)			
Low dependence (Score >12)	1.0000	1.0000	1.0000
Moderate dependence (Score 9-12)	0.9027	0.9506	0.5516
Severe dependence (Score 5-8)	0.5428*	0.8444	0.1930**
Total dependence (Score 0-4)	1.0984	0.3803	0.9019
Confusion			
Intact	1.0000	1.0000	1.0000
Mild impairment	0.7627	0.9883	0.3474**
Severe impairment	0.5447*	0.5398	0.4678
L L			

Table 17. (cont'd)

Logistic Regression Equations for Individuals who were Still Alive at 6 Month Follow-Up, Comparing those who had left Residential or Nursing Home Care with those who remained, by Type of Bed to which Originally Admitted (Odds Ratios)

Demographic and dependency characteristics	All beds	Residential bed	Nursing bed
Frequency of problem behaviour Never/very unusual Sometimes (>weekly) Frequently (daily)	1.0000 0.6844 0.5171	1.0000 0.7930 0.9239	1.0000 0.4421 0.0000
Type of bed Residential bed Nursing bed	1.0000 0.7166	1.0000 -	- 1.0000
Number of individuals Total number Number in analysis	1348 1244	854 810	494 434
McFadden's R ²	0.039	0.022	0.185
Percentage of correct predictions Individuals who remained Individuals who left Overall	100.0 0.0 90.8	100.0 0.0 89.5	100.0 6.7 93.6

Sources: S504, S505, S508

Note: * $0.10 \ge p > 0.05$; ** $0.05 \ge p > 0.01$; *** $0.01 \ge p$.

Change in Dependency between Admission and 6 Month Follow-Up for Individuals in Residential and Nursing Homes at Follow-Up, Including Deaths, by Source of Admission (Percentages) Table 18.

All (no.) 26 22 28 28 23 (952) (875) $\begin{array}{c}
 19 \\
 44 \\
 37 \\
 37
 \end{array}$ Died $20 \\ 23 \\ 28 \\ 28 \\ 31 \\ 31$ $\begin{array}{c} 30\\27\\31\\31\end{array}$ Admitted from hospital Higher 26 19 1 81 35 20 15 Same 54 117 226 332 332 35 38 37 37 Lower -15 26 16 - 25 27 20 18 All (no.) 23 46 31 (615) 43 28 17 12 (628) Admitted from domestic household Dependency at 6 month follow-up Died 23 23 23 Higher 24 9 20 36 18 16 Same 62 33 33 41 41 41 43 41 41 Lower - 332 255 16 -17 20 All (no.) 33 25 24 18 (1580) 21 45 35 (1490) Died All sources of admission 17 28 29 29 28 27 25 32 28 Higher 25 26 16 36 19 - 16 19 Same 58 17 32 33 36 38 37 39 Lower - 16 30 18 28 21 17 Dependency at admission Barthel Index (grouped) Severe impairment Mild impairment All (number) All (number) Score 9-12 Score 5-8 Score 0-4 Score >12Confusion Intact

Table 19. Location of Individuals who left Residential or Nursing Home Care, at 6 Month Follow-Up and Most Recent Known Location

Location	At 6 month follow-up	Most recent known location
	No.	No.
Total number of individuals	93	93
In home originally admitted to	3	7
Same type of bed	3	7
Changed to residential bed	0	0
Changed to nursing bed	0	0
Temporarily absent	0	0
In a different home	0	14
Moved to residential home	0	7
Moved to rursing home/hospice	0	6
Moved to dual registered - residential bed	0	0
Moved to dual registered - nursing bed	0	1
Moved to unspecified type of home	0	0
	-	
Elsewhere	89	33
In hospital	27	4
In private household	62	29
Died	1	22
	1	
No information	0	17
Refused	0	7
No response	0	10

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