

## **An assessment of need for mental health rehabilitation amongst in-patients in a Welsh region**

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# Social Psychiatry and Psychiatric Epidemiology

## An assessment of need for mental health rehabilitation amongst in-patients in a Welsh region

--Manuscript Draft--

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<b>Abstract:</b>	<p><b>Title</b> An assessment of need for mental health rehabilitation amongst in-patients in a Welsh region</p> <p><b>Background</b> Rehabilitation services have received little attention compared with other types of mental health service provision over the past 15 years. However, they are an important component of whole-system functioning in mental health services. Lack of provision has a particular impact on acute in-patient services. Poor pathway management can result in delayed discharges, placement of service users far from home, and resultant loss of resource for the local mental health economy.</p> <p><b>Methods</b> A cross-sectional study gathered demographic, clinical, service utilisation, and financial data on 100 participants from out of area, rehabilitation and acute units. Financial data was provided by the Health Board. Other data was gathered by two clinicians from case records and staff interviews.</p> <p><b>Findings</b> 26·0% of people were inappropriately placed, with frequent overprovision of support. It was calculated that within an annual budget of £12·7M, £2·5M (19·7% of the total expenditure on this patient group) could be saved if all placements were appropriate.</p> <p><b>Interpretation</b> There were differences between the three cohorts. Those placed out of area had the most complex needs, although those in rehabilitation placements were similar. Most participants had been in contact with services for more than five years. A system better matched to their needs would benefit these patients and would also generate financial savings for reinvestment in the mental health economy.</p>

	<p>Funding</p> <p>This work was funded by Public Health Wales, Bangor University and the Local Health Board.</p>
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# ***Title***

An assessment of need for mental health rehabilitation amongst in-patients in a Welsh region

# ***Background***

Rehabilitation services have received little attention in the literature compared with other types of mental health service provision over the past 15 years. However, they are an important component of whole-system functioning in mental health services. Lack of provision has a particular impact on acute in-patient services. Poor pathway management can result in delayed discharges, placement of service users far from home, and resultant loss of resource for the local mental health economy.

# ***Methods***

A cross-sectional study gathered demographic, clinical, service utilisation, and financial data on 100 participants from out of area, rehabilitation and acute mental health units. Financial data was provided by the Health Board. Other data was gathered by two clinicians from case records and staff interviews.

# ***Findings***

26·0% of people were inappropriately placed, with frequent overprovision of support. It was calculated that within an annual budget of £12·7M, £2·5M (19·7% of the total expenditure on this patient group) could be saved if all placements were appropriate.

# ***Interpretation***

There were differences between the three cohorts. Those placed out of area had the most complex needs, although those in rehabilitation placements were similar. Most participants had been in contact with services for more than five years. A system better matched to their needs would benefit these patients and would also generate financial savings for reinvestment in the mental health economy.

# ***Funding***

This work was funded by Public Health Wales and the Local Health Board.

# ***Conflicts of Interest***

There are no conflicts of interest.

## Background

Since the closure of large mental hospitals, in-patient rehabilitation services have received little attention from policy makers. Reliance upon the private sector to provide beds has resulted in unplanned growth in services without reference to local need.<sup>1</sup> Current mental health strategies in England and Wales make no reference to rehabilitation services.<sup>2,3</sup> Nonetheless, the Joint Commissioning Panel for Mental Health has given clear and helpful guidance to commissioners about the content of rehabilitation care pathways, the importance of whole system working, and the need for services to be close to service users' homes.<sup>4</sup>

Acute and secure in-patient services are only effective when there is an active care pathway for service users to leave them and where the pathway operates as a whole system.<sup>5</sup> Sometimes this requires greater support than can be offered through standard community mental health team (CMHT) care coordination. Where local services lack clear pathways and adequate rehabilitation provision, service users are at risk of placement in out of area treatment settings (OATS), often at a distance from family and friends.<sup>6,7</sup> Such placements are an unbudgeted expense which drains financial resource from the local mental health economy. This is a poor use of money, as there is evidence that service users experience equally good outcomes when rehabilitation services are located in their area of origin.<sup>8</sup> OATS lead to inefficient use of staff time due to coordination of placements at a distance.<sup>9</sup> People placed in local services move more effectively through rehabilitation care pathways than those placed out of area.<sup>10</sup> Service users prefer to be supported close to families and friends as people placed out of area find it difficult to adjust to isolation in remote locations, and struggle to relocate back in their home area when care packages end.<sup>11</sup>

Many people in acute in-patient wards have long-term needs, often for rehabilitation. Delays whilst awaiting transfer to a rehabilitation service are common.<sup>12-15</sup> Some rehabilitation services have difficulty in moving people to suitable services following rehabilitation intervention.<sup>16</sup>

People move more slowly through "step down" pathways than "step up" pathways, particularly when there is concern over risk. Lengthy stays in acute inpatient beds awaiting transfer to a rehabilitation setting are counter-therapeutic and lead to increased use of out of

area placements for acute care (OATS) due to pressure on beds within the local service system.<sup>17</sup>

## **Aim**

To undertake a needs assessment for rehabilitation services of people currently using secondary care mental health services within a region of Wales, including those in OATS.

## **Methods**

A cross sectional needs assessment was undertaken using a designed-for-purpose proforma to gather a range of clinical, demographic and service utilisation information (see Appendix). Financial data were obtained on a case-by-case basis from the Health Board's finance department.

The cohort participants in this work were in-patients on 1<sup>st</sup> August 2014 in one of the following settings in the National Health Service or outside this sector:

- NHS rehabilitation in-patient bed (a facility supporting people to overcome longer term disability related to mental illness, often for two years or more)
- NHS acute in-patient bed (for people experiencing an acute mental illness) with a length of stay of >50 days or
- Medium Secure Unit bed (for high risk people requiring security and treatment) and identified as delayed discharge awaiting rehabilitation or
- Out of area rehabilitation inpatient placement outside the NHS (for people placed away from local services)

All services within the care pathway and all patients who met the above criteria were included in the study.

The proforma was piloted. Minor modifications were made prior to data collection.

For service users in NHS settings, demographic, clinical and service utilisation data was gathered in situ by two experienced clinicians (a consultant psychiatrist and a clinical nurse specialist, each with over 20 year's clinical practice in a wide range of settings) who examined case notes and interviewed staff on duty at the time.

Patients in out of area placements were identified using financial payment records and cross referencing these with clinical records held by staff monitoring the placements, in order to ensure all cases were identified. Data for those in OATS placements were obtained by the clinical nurse specialist who interviewed the NHS case managers responsible for individual care coordination.

In respect of the suitability of the placement, the two clinicians made a consensus assessment based on a detailed review of the patient's clinical records, including care plan and risk assessment, and a discussion with a qualified member of the care team. A Global Assessment of Functioning (GAF) score was also agreed.<sup>18</sup> Where the reviewers considered that patients were not appropriately placed, this judgement was discussed with the member of staff and agreement reached.

All data were gathered on paper proformas and then entered into Excel by an administrator. The Excel data entries were re-checked for accuracy by the clinical nurse specialist against the hard copy data. Financial data were added to the Excel file. The dataset was then analysed using Statistical Package for Social Sciences (SPSS) software.

Permission for the study was obtained from the Health Board Clinical Audit and Effectiveness Department who deemed it a service evaluation and that local Research Ethics Committee approval was unnecessary.

## **Findings**

### ***Demographic, clinical and service utilisation profiles***

A total of 100 people met the study criteria: 30 within NHS rehabilitation wards; 24 in acute wards; and 46 in out of area treatment. No service user in the Medium Secure Unit met the study criteria. As n=100, total figures are both the number and the percentage in all tables unless otherwise stated.

The majority were male and of white British ethnicity. Those in the rehabilitation cohort were the youngest group. The OATS group contained the greater number subject to Part III of the Mental Health Act (patients concerned with criminal proceedings or under sentence). Ninety percent of the total population were subject to Section 117 of the Mental Health Act (provision for legal entitlement to aftercare following detention in hospital) indicating previous compulsory in-patient use.

	<b>Rehabilitation wards (n = 30)</b>	<b>Acute wards (n = 24)</b>	<b>OATS (n = 46)</b>	<b>Total (n = 100)</b>
Sex (Male : Female)	23:7	13:11	34:12	70:30
Age range (mean)	18-67 (35·47 years)	21-87 (51·54 years)	19-72 (43·48 years)	18-87 (43·01 years)
Ethnicity				
White British	29	22	42	93
Other	1	2	4	7
Mental Health Act				
Informal	10	9	5	24
S2	0	0	1	1
S3	15	14	19	48
Part III	5	0	17	21
Other sections	0	1	4	6
S117	29	17	44	90

**Table 1: Demographic profiles**



Table 2 sets out current clinical diagnosis which were obtained from case records and interviews with clinical staff. There were fewer people with psychosis in the acute group than the other two groups. The OATS group had more people with multiple diagnoses and personality disorder.

	Rehabilitation wards (n = 30)	Acute wards (n = 24)	OATS (n = 46)	Total (n = 100)
Primary diagnosis				
Schizophrenia	22	10	20	52
Schizo-affective disorder	2	1	5	8
Affective psychosis	1	2	1	4
Personality disorder	4	2	11	17
Other psychosis	0	2	1	3
Other	1	7	7	15
No diagnosis currently	0	0	1	1
Number with more than one diagnosis	14	7	27	48

**Table 2: Diagnosis**

A large proportion of all three groups had significant past and current risk in a range of areas (Table 3). The OATS group had a high proportion of people with risk of harm or threats to others. A history of arson was largely confined to this group.

	Rehabilitation wards (n = 30)		Acute wards (n = 24)		OATS (n = 46)	
	Historic	Current	Historic	Current	Historic	Current
Self-harm	24	11	12	10	25	13
Self-neglect	22	14	20	10	34	23
Exploitation	14	18	12	5	26	18

Harm to others	24	10	12	5	39	25
Victim of any abuse	9	2	19	2	14	5
Threats to others	18	7	15	10	38	26
Arson	2	0	0	0	10	1
Sexually inappropriate behaviour	4	1	2	1	1	1

**Table 3: Risk profiles (historic and current)**

Staff identified higher levels of alcohol and substance misuse in the rehabilitation and OATS groups (Table 4).

	<b>Rehabilitation wards (n = 30)</b>	<b>Acute wards (n = 24)</b>	<b>OATS (n = 46)</b>	<b>Totals (n = 100)</b>
<b>Needs</b>				
Cannabis	13 (43.3%)	2 (8.3%)	14 (30.4%)	19
Cocaine	6 (20.0%)	0	5 (10.9%)	11
Amphetamines	7 (23.3%)	1 (4.2%)	9 (19.6%)	17
Alcohol	11 (36.7%)	6 (25.0%)	17 (36.2%)	34
Other substances	1 (3.3%)	0	3 (6.5%)	4

**Table 4: Drug and alcohol use**

In all three groups, the majority of people had been in contact with services for a long period of time. In the rehabilitation and OATS groups over three quarters had been known to services for more than five years (Table 5).

	<b>Rehabilitation wards (n = 30)</b>	<b>Acute wards (n = 24)</b>	<b>OATS (n = 46)</b>	<b>Totals (n = 100)</b>
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< 1 year	0	3 (12.5%)	0	3 (3.0%)
Between 1-5 years	7 (23.3%)	4 (16.7%)	7 (15.2%)	18 (18.0%)
> 5 years	23 (76.7%)	14 (58.3%)	36 (78.3%)	73 (73.0%)
Unknown	0	3 (12.5%)	3 (6.5%)	3 (3.0%)

**Table 5: Length of time known to services**

The two clinicians made a consensus assessment of the appropriateness of the current placement through review of case notes and interviews with staff on duty or care coordinators. They suggested the appropriate type of placement where the current placement was inappropriate (Table 6).

	<b>Rehabilitation wards (n = 30)</b>	<b>Acute wards (n = 24)</b>	<b>OATS (n = 46)</b>	<b>Total (n = 100)</b>
Current placement	25 (83.3%)	16 (66.7%)	33 (71.8%)	74 (74.0%)
Rehabilitation ward	0	2 (8.4%)	0	2 (2.0%)
Care or nursing home	2 (6.7%)	3 (12.5%)	7 (15.2%)	12 (12.0%)
Supported accommodation / home support	3 (10.0%)	2 (8.3%)	5 (10.9%)	10 (10.0%)
Non-mental health service	0	1 (4.2%)	1 (2.2%)	2 (2.0%)

**Table 6: Required placement**

GAF scores were formulated for 85% of the cohort by the two clinicians, who made an assessment based on the data they collected as described above. Whilst there were differences between the groups who were deemed 'appropriately placed' and those deemed 'not appropriately placed' this was not statistically significantly (Table 7).

	GAF domain	N	Min	Max	Median	Std. Deviation
Appropriately placed	Disability	63	11	90	45.00	14.003
	Symptomatology	63	10	85	31.00	18.874
Not appropriately placed	Disability	22	11	85	51.00	20.428
	Symptomatology	22	5	88	45.00	26.730

**Table 7: Global Assessment of Functioning (GAF) scores by appropriateness of placement**

Much of the social circumstance data was unavailable in case records and therefore is not reported here.

### ***Financial analysis***

The weekly direct cost to the NHS was determined for all cases where current placement was considered appropriate to the person's needs. Where the placement was regarded as inappropriate, the cost of an ideal placement was calculated. Costs for services were based on Personal Social Services Research Unit cost findings for 2012 with an increase of 1.5% for inflation using the Bank of England General Inflation Rate Calculator Tool (Table 8).

Type of facility	Weekly cost (£s)	Comment
Independent hospital	2900.00	Based on median cost to the Health Board for this type of facility in August 2014
Care home with nursing	647.59	Based on costs from PRSSU study in 2012 plus inflation rate of 1.5%
Care home	647.59	Based on costs from PRSSU study in 2012 plus

inflation rate of 1.5%		
On site supported accommodation	248·00	Based on £12·30 per hour for three people an hour with 40 hours support to the group and 7 nights sleep in at £36 per night
Floating support package	123·00	Based on £12·30 per hour and 10 hours a week

**Table 8: Financial costs by facility type and rationale for establishing weekly costs**

The weekly NHS expenditure for the whole sample was calculated as £245,417, which equates to an annual cost of £12·76M (Table 9). These weekly costs could be reduced by £49,018 if all placements were matched to service users assessed needs, reducing the annual spend to £10·22M. Based on these figures there is a possible annual saving to local NHS services of over £2·55M; 19·97% of the total projected annual spend based on actual placements. The potential savings include single case contracted placements (often referred to as “spot contracts”) to the value of £1,703,402. This would release funds for reinvestment whilst improving the quality of service to patients.

	Weekly cost (£s)		Projected annual cost (£s)	
	Actual	If all were ideally placed	Actual	If all were ideally placed
Rehabilitation	50,380	44,135	2,619,760	2,295,020
Acute	58,866	48,849	3,061,032	2,540,148
OATS	136,171	103,415	7,080,892	5,377,580
<b>Totals</b>	<b>245,417</b>	<b>196,399</b>	<b>12,761,684</b>	<b>10,212,748</b>
Weekly differential (saving)	<b>49,018</b>			
Annual differential (saving)	<b>2,548,936</b>			

**Table 9: Actual costs and costs if all were ideally placed in August 2014 (n = 100)**

## Interpretation

The people in the rehabilitation group were young, yet had been in contact with services for a long time, and almost all had been treated under the Mental Health Act (29 of 30). The majority of the whole cohort had a primary diagnosis of psychosis. It is known that around 10% of people with a new diagnosis of psychosis will develop complex difficulties that lead to the use of rehabilitation services.<sup>21</sup>

Many participants had secondary diagnoses, with high rates of historical and current risk, and some drug and alcohol use, all of which reflect complex needs. The five participants in the rehabilitation group (16.7%) in need of alternative placement were overprovided for in their current service.

The acute group had a more even gender distribution and were older than the other two groups. They had a wide range of diagnoses, but fewer secondary diagnoses. Historical and current risk profiles were lower than the other two groups, while a high proportion had been detained and were subject to legal aftercare provisions (S117; 17 of 24). Overall this group had shorter contact with mental health services than the other two groups. Only 16 of the 24 people (67%) were placed appropriately. Almost a third required some form of step-down service (i.e. a lower level of care). The finding of a lower rate of substance misuse in this group is surprising. It may be due to lower rates of ascertainment or recording, or chance variation.

The OATS group contained the greatest proportion of Mental Health Act Part III detained patients, people with a primary diagnosis of personality disorder, people with multiple diagnoses, and people with historical and current risk of harms and threats to others. They had been known to services for a long time.

The services provided across the three cohorts are expensive. The resource was used inefficiently, with 26% of people inappropriately placed at the time of the needs assessment. There were potential financial savings of approximately 20%, based on people being supported in the most appropriate service for their needs.

Despite there being no difference in 'disability' score between those 'appropriately' and 'not appropriately' placed score there was a higher mean 'symptomatology' score in those 'not

appropriately placed'. This suggests noticeable features of illness may be a factor preventing people moving on and worthy of further exploration.

It is interesting to compare our study with the national rehabilitation services study in England.<sup>22</sup> Both studies identified mainly male cohorts who were around 40 years of age. The majority were long term users of secondary care mental health services with previous hospital admissions. Historical self harm rates were similar between the two studies. There are some differences. The English study found almost 90% had a primary diagnosis of schizophrenia, schizo-affective disorder or affective psychosis, whereas the Welsh study identified two thirds with diagnoses of psychosis and a significant proportion of people with a primary diagnosis of personality disorder. Self neglect and harm to others were found in three quarters of the Welsh cohort, whereas these historical risks were observed in around half of the English cohort. GAF social function score had a mean of 45, which is nine points less than in the English study. Lengths of stay were shorter in the Welsh study. An explanation for the differences may be found in inclusion of all patients in need of rehabilitation in the Welsh study, whereas the English study included only people resident in NHS rehabilitation facilities only.

Finally, there are some limitations associated with this work that should be noted. In particular, the clinical reviewers were unable to interview patients in the study. The GAF was the only standardised tool that was utilised although the data collection proforma had been used in a number of other similar settings. Staff interviews may have introduced a bias and data from casenotes may have contained some inaccuracies or missing information as they were paper based. There was a considerable amount of missing data on the social circumstances.

## Conclusions

In England and Wales, the closure of mental hospitals has left a small but significant group of people with inadequate local services. They are people with complex mental health needs, and they are amongst the most vulnerable in the mental health system. Relying heavily upon the private sector to provide specialist care does not appear to be cost efficient, and there is evidence of unnecessary expenditure on inappropriate placements.

1 People with long term mental health needs are not adequately served by service systems that  
2 are primarily focused upon risk, crisis, and acute care. Failure to address their needs has an  
3 impact on the availability of acute care facilities.<sup>23</sup> Effective acute care services require a  
4 whole system approach, including well-managed local rehabilitation pathways. Those who  
5 commission or manage services must recognise the importance of rehabilitation provision if  
6 they are to avoid wasteful and inappropriate expenditure. Inappropriate care provision is  
7 detrimental to patients. It also leads to loss of financial resource to the local mental health  
8 economy.

16 Remote location of facilities was one of the key problems with the asylum system. It is  
17 replicated in the modern virtual asylum. The problem persists fourteen years after the term  
18 was coined.<sup>1</sup> Residential placements far from family and friendship networks, away from  
19 local services that should support them as they move into recovery are inappropriate and  
20 inhumane. There are major difficulties in monitoring remote placements. Overprovision of  
21 care is damaging. Patients can become demoralised and demotivated and can be regarded as  
22 incarcerated and stuck. The lack of alternative service provision, such as Early Intervention,  
23 for younger people with psychosis within the acute care pathway, prior to contact with  
24 rehabilitation services within this region, may contribute to the profile of the cohort. The  
25 present study was conducted in Wales. England has a reliance on OATS, despite persistent  
26 efforts to change this. Both countries would benefit from national studies that examine all  
27 rehabilitation services, including those outside the NHS as they are a significant part of the  
28 service system, and the need for rehabilitation where people may be stuck in other parts of the  
29 pathway, such as acute in-patient or secure services.



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11<sup>th</sup> February 2016.

# Rehabilitation Needs Assessment 2014 – data collection proforma

<p><b>Client ID</b> (project code) <input type="text"/></p> <p><b>Client's postcode</b> (first part only) <input type="text"/></p> <p><b>Date of admission</b> <input type="text"/></p> <p><b>Date declared delayed discharge (DD/MM/YY)</b> <input type="text"/></p> <p><b>Mental health Act status</b> 1 = Not subject to Act 2 = Section 3 3 = Section 2 4 = Other Civil MHA Section (specify) 5 = Part III section</p> <p><b>Type of ward</b> 1 = Acute adult admission 2 = PICU 3 = Older person's admission ward 4 = Rehabilitation ward 5 = Other (specify) .....</p> <p><b>Name of service</b> .....</p> <p><b>Name of consultant</b> .....</p> <p>(state "No" if no consultant allocated)</p> <p><b>Date of (last) previous admission</b></p> <p><b>Admitted</b> <input type="text"/></p> <p><b>Discharged</b> <input type="text"/></p> <p><b>Client's sex</b> 1 = male 2 = female</p> <p><b>Client's age</b> <input type="text"/></p> <p><b>Date of birth (dd/mm/yy)</b> <input type="text"/></p> <p><b>Ethnic group</b> 01 = white British 02 = white other 03 = black Caribbean 04 = black African 05 = black other 06 = Indian 07 = Pakistani 08 = Bangladeshi 09 = Chinese 10 = other Asian 11 = other (specify)..... 12 = not known</p> <p><b>Primary diagnosis (current)</b> 01 = schizophrenia 02 = schizo-affective disorder 03 = affective psychosis 04 = other psychosis 05 = depression (not psychotic) 06 = anxiety 07 = personality disorder 08 = dementia 09 = eating disorder 10 = alcohol abuse disorder 11 = other substance abuse disorder 12 = learning disability 13 = other (specify) .....</p>	<p><b>Secondary diagnoses (current)</b> <i>Please indicate any secondary diagnoses</i></p> <p><input type="text"/></p> <p><b>Living group</b> 01 = alone 02 = with spouse/partner 03 = spouse/partner and child(ren) under 18 04 = child(ren) under 18 only 05 = child(ren) over 18 06 = own parents 07 = other family 08 = adults (non-family) 09 = other service users (non-family) 10 = staffed accommodation (full-time) 11 = staffed accommodation (part-time) 12 = other (specify) .....</p> <p><b>Housing</b> 1 = council/housing association 2 = owner-occupied 3 = rented privately 4 = lodgings 5 = homeless/NFA 6 = NHS/SSD/voluntary/Indep provider 7 = Other (specify) .....</p> <p><b>Informal carer</b> 1 = Lives with service user 2 = Lives separately 3 = No informal carer 4 = Not known</p> <p><b>Visitors whilst in hospital</b> 1 = Daily; 2 = Weekly; 3 = Monthly; 4 = Less frequently; 5 = Never; 6 = Don't know</p> <p>Partner / wife / husband</p> <p>Children</p> <p>Parent</p> <p>Other family</p> <p>Friends</p> <p><b>Describe any carer involvement in the MDT</b> .....</p> <p><b>Income</b> 1 = State benefits only 2 = State benefits &amp; income from other sources 3 = no benefits received, all income from other sources 4 = other (specify) .....</p> <p><b>Employment status</b> 01 = working full-time 02 = working part-time 03 = sheltered work 04 = unemployed 05 = long-term sick 06 = caring for home/family 07 = student 08 = retired 09 = working permitted hours 10 = other (specify) .....</p>	<p><b>CTP level at current time</b> 1 = On CTP 2 = Not on CTP 3 = Under assessment / awaiting allocation</p> <p><b>Does the person have the following which makes placement difficult?</b> <i>1 = yes, 2 = no, 3 = not known</i> 1 = Learning disability..... 2 = Personality disorder..... 3 = A "perceived" challenging behaviour 4 = Other issues (specify) .....</p> <p><b>Does the person have a co-existing substance misuse problem with:</b> <i>1 = yes, 2 = no, 3 = not known</i> 1 = Cannabis ..... 2 = Cocaine ..... 3 = Amphetamines ..... 4 = Alcohol ..... 5 = Other substances (specify) .....</p> <p><b>Are any specialist tools used to assess and / or manage? (1 = Yes 2 = No 3 = Don't know)</b></p> <p>Learning disability Personality disorder Alcohol misuse Substance misuse</p> <p><b>Is the person subject to S.117:</b> 1 = Yes, 2 = No, 3 = Don't know</p> <p><b>Is the person subject to a Community Treatment Order?</b> 1 = Yes, 2 = No, 3 = Don't know</p> <p><b>Length of time known to mental health services</b> 1 = Less than 4 weeks 2 = 1 – 3 months 3 = 4 – 6 months 4 = 7 – 12 months 5 = between 1 and 5 years 6 = more than 5 years 7 = not known</p> <p><b>Frequency of contact with the Care Coordinator during admission</b> (indicate nearest average) 1 = more than once per day 2 = daily 3 = less than daily, at least 3 times per week 4 = once per week 5 = once per fortnight 6 = once per month 7 = less than once per month 8 = less than once per 3 month 9 = no contact</p>
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Local authority responsible for client (specify)

Type of contact by Care Coordinator

1 = Solely or mainly face to face

2 = Solely or mainly phone

3 = Roughly equal

4 = N/A

How many consultant changes during the admission

How many CTP care coordinator changes during the admission

How many ward changes during the admission

Risk behaviours

1 = yes, 2 = no, 3 = not known

Past Current

Self-harm

Self-neglect

Exploitation

Harm to others

Victim of any abuse

Threats to others

Arson

Other risk (specify)

Is it appropriate for the person to be on the ward at time of review?

1 = Yes

2 = No

3 = Don't know (Give reason)

If "no", where should they be supported?

1 = Ward in the community

2 = Care home with nursing

3 = Care Home

4 = On site supported accommodation

5 = Floating support

6 = At own tenancy / home with domiciliary care

7 = At own tenancy / home with routine CMHT / AOT or EIT support

8 = PICU

9 = Acute inpatient adult ward

10 = Older adult in-patient wards

11 = Low secure unit

12 = Medium secure unit

13 = In a non-mental health bed (specify)

14 = Other

Is there a clear date where the person was no longer suitably placed on the ward?

1 = Yes

2 = No

3 = Don't know

If, so what was the date?

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If no clear day identified indicate approximately how long

Other professionals involved during the admission (list and describe involvement)

Reason for delayed discharge

1 = No suitable placement identified

2 = Placement identified but no bed available

3 = Care package not in place (e.g. if in own accommodation

4 = Other (specify)

5 = Not in delayed discharge group

Type of placement required upon discharge (as identified by reviewers)

Has the type of placement been agreed by the MDT?

1 = Yes

2 = No

3 = Don't know (Give reason)

Details of placement identified by MDT

Current medication (1 = yes, 2 = No)

Clozapine

Other oral anti-psychotics

Depot anti-psychotics

Lithium carbonate

Other mood stabilisers

Anti-depressants

Anxiolytics

Anti-cholinesterase inhibitors

Other psychotropic medicines

Other psychiatric medications (specify)

Non-psychiatric medications

Evidence of a strategic treatment plan

1 = Yes

2 = No

3 = Don't know

Evidence of a discharge plan

1 = Yes

2 = No

3 = Don't know

Describe what is being done to move the person on from the service

Does the person experience rapid relapse in mental health?

1 = Yes

2 = No

3 = Don't know

Describe any intractable symptoms

Other factors inhibiting discharge / transfer

Is the care being delivered compliant with the Mental Health Measure?

1 = Yes

2 = No

3 = Partly (specify)

What is the person's understanding of the situation? (Do they know the staff believe they should not be on the Ward / Unit?)

Any other comments / observations?



## **Title page**

### **Title**

An assessment of need for mental health rehabilitation amongst in-patients in a Welsh region

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