

Outcomes Report 2018/19

Blackheath Brain Injury
Rehabilitation Centre
(BBIRU)



Blackheath Brain Injury Rehabilitation Centre (BBIRU) is a 34 bed specialist hospital for brain injury and neurological rehabilitation.

The Blackheath Brain Injury Rehabilitation Centre comprises two NHS England funded units:

Thames Brain Injury Rehabilitation Unit (TBIRU) (1c)
and Heathside Neurodisability Unit (HNDU) (2a).



TBIRU Level 1c

This service is for individuals with cognitive and/or behavioural impairments following a brain injury or as a result of a neurological condition. It is suitable for patients, who on assessment, could benefit from an intensive period of neurological rehabilitation and cognitive behavioural management from a highly skilled inter-disciplinary team.



HNDU Level 2a

This service is suitable for individuals who require specialist inpatient rehabilitation and have ongoing active physical therapy needs.

UKROC

The UK Rehabilitation Outcomes Collaborative (UKROC) database, set up in 2008, is a national clinical database which collects key information about any patient admitted to all Level1/2A specialist rehabilitation unit in England.

The UK ROC publishes its data quarterly and this report summarises some key measures for Huntercombe's Blackheath Brain Injury Rehabilitation Centre. The report compares progress made by Blackheath patients upon admission and then on discharge. The data is for the period January 2018 to December 2018.

Understanding the data

At Blackheath we take a holistic view of the patient with regard to their rehabilitation. UK ROC measure how people with brain injury improve under our care by looking at physical (motor) and cognitive gain. There are two measures of functional gain that do this:

- The Functional Independence Measure (FIM) is an 18 item measure of disability with each item being scored between one and seven. This measures how able a patient is physically.
- The Functional Assessment Measure (FAM) enhances FIM with an additional 12 items also scored between one and seven looking largely at cognitive and psychosocial function.

With both elements of FIM/FAM a higher score indicates greater independence and less disability.

Patient Complexity (RCS)



The UK ROC Rehabilitation Complexity Scale (RCS) provides an overall measure of a patient's care, nursing, therapy and medical needs from admission to discharge. Lower scores represent a reduction in complexity of needs. Blackheath's data shows that the complexity of need is reduced from admission to discharge in both units.



TBIRU



Admission

12.2



Discharge

9.3



HNDU



Admission

12



Discharge

10.6

Improvement in cognitive functioning (FAM)



The Functional Assessment Measure (FAM) enhances FIM with an additional 12 items also scored between one and seven looking largely at cognitive and psychosocial function. A higher score indicates greater independence and less disability. Blackheath's data shows that the improvement of cognitive functioning increased from admission to discharge in both units.



TBIRU



Admission

59.7



Discharge

78.4



Gains made

18.8



HNDU



Admission

54.3



Discharge

69.2



Gains made

14.9

Improvement in motor functioning (FIM)



The Functional Independence Measure (FIM) is an 18 item measure of disability with each item being scored between one and seven. This measures how able a patient is physically. A higher score indicates greater independence and less disability. Blackheath's data shows that the improvement of motor functioning increased from admission to discharge in both units.



TBIRU



Admission

77



Discharge

102.5



Gains made

25.5



HNDU



Admission

59.6



Discharge

83.9



Gains made

24.3

What other improvements do patients make at Blackheath?



The data below show improvements across other domains.

Mood

On a smaller sample of patients (30) data showed improvement on measures of anxiety and depression (Hospital Anxiety and Depression Scale, Snaith and Zigmond 1994) from admission to discharge. Lower scores show improvements with depression and anxiety.

HADS Depression

Admission mean score: 5.59
Discharge mean score: 3.72

HADS Anxiety

Admission mean score: 7.41
Discharge mean score: 4.41

Communication

Across a variety of Speech and Language measures there were improvements in language, speech and cognitive communication. Higher scores show improvements across all measures tested.

Australian Therapy Outcome Measures – A. Perry and J. Skeat,
Copyright La Trobe University 2004

The Mount Wilga High Level Language Test – J. Christie, W. Clark, L.
Mortensen, Mt Wilga Rehabilitation Centre 1986 1st Edition

Language

Admission mean score: 3.07
Discharge mean score: 4.17

Cognitive Communication

Admission mean score: 3.06
Discharge mean score: 3.78

Speech

Admission mean score: 3.60
Discharge mean score: 4.40

Orientation

Similarly there was improvement on the Orientation Log (Novack 2000), which measures a patient's awareness of time, place and situation. Higher scores show improvement with orientation.

Orientation Log

Admission mean score: 25.97
Discharge mean score: 27.90

Mobility

Across three different Physiotherapy outcomes (Berg Balance Scale, Functional Independence Sitting Test and Six-Minute Walk Test) all outcomes showed improvements from admission to discharge. Higher scores show improvements across all measures tested.

Wood-Dauphinee, S., Berg, K. O., Bravo, G., Williams, J. L. (1997).
Gorman SL, Radtka S, Melnick ME, Abrams GM, Byl NN.(2010)
Am J Respir Crit Care Med, 166(1), 111-117. (2002)

Berg Balance Scale

Admission: 40.0
Discharge: 50.25

Six-Minute Walk Test

Admission: 294.05
Discharge: 361.45

Functional Independence Sitting Test

Admission: 45.60
Discharge: 52.60

Does Blackheath reduce the ongoing cost of care?



UK ROC measures the cost of care for patients on admission and at discharge. It then calculates the savings. On average, on-going weekly care costs are £531 less per week after treatment at Blackheath for our Level 1c service and £278 for our Level 2a service.



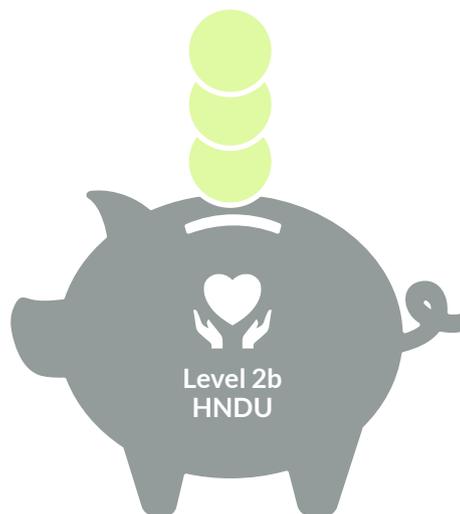
£531

Saved per week

£916 Mean cost of care per week on admission

£386 Mean cost of care per week on discharge

£531 Mean saving cost per week



£278

Saved per week

£1039 Mean cost of care per week on admission

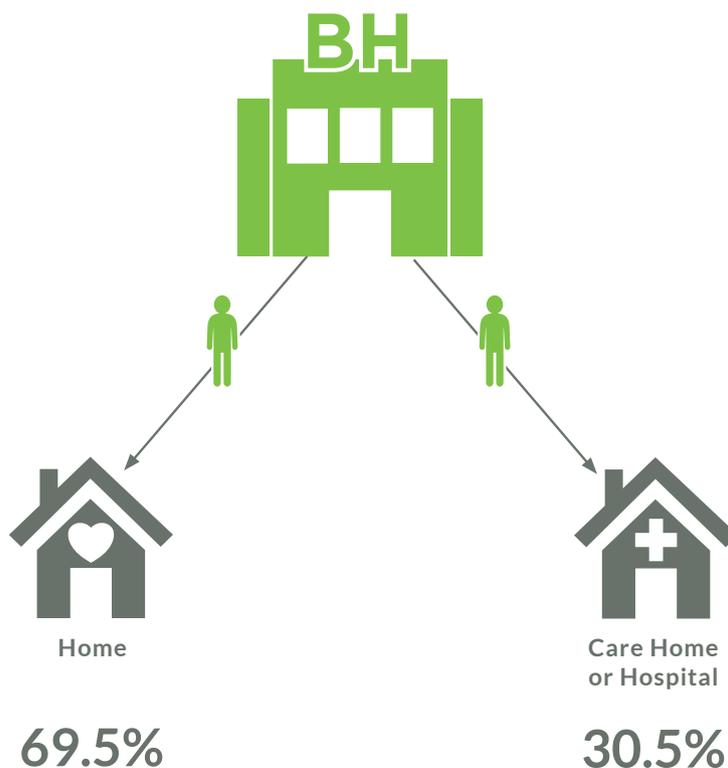
£761 Mean cost of care per week on discharge

£278 Mean saving cost per week

Discharge destination



In 2018 over half our patients were discharged home either to independent living or with a package of care.



Contact us

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12.6.19

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the huntercombe
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Believing and achieving together

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