

Liverpool Outcome Score (LOS) for assessing adults at Discharge

Name: _____ Date of birth (dd/mm/yy): ____ / ____ / ____

Age: _____ Study No. _____

Today's date (dd/mm/yy): ____ / ____ / ____ Sex: Male Female

Date of original admission to hospital (dd/mm/yy): ____ / ____ / ____

Date discharged from hospital (dd/mm/yy): ____ / ____ / ____

Relationship of person accompanying patient (e.g., wife / friend): _____

Name of person completing form – please print: _____

Job Title: _____

Answer each question. Circle or underline the correct answer, and write the score in the column

Ask the patient or caregiver the following questions:

For some of these questions, you ask the patient or the caregiver how this person compares with how they were immediately before the illness (irrespective of length of time in hospital)

1. Speech or communication:

Compared with before the illness, is the patient's speech:

- The same (5)
- Changed or reduced (3)
- Not speaking or communicating (2)

2. Feeding

The patient's feeding ability:

- Normal (same as before the illness) (5)
- Occasionally needs help (3)
- Always needs more help (2)

3. Leaving Alone

Before the illness could this person be left alone without coming to harm?

If No score 5 (5)

If Yes, can the patient now be left alone?

- Yes (5)
- Yes briefly in familiar environment (3)
- No (2)

4. Behaviour

Compared with before the illness does the accompanying friend/relative think the patient's behaviour is altered?

- No, completely normal (5)
- Gets angry easily (4)
- Other behavioural problems (4)
- Severely abnormal (2)

If abnormal give details _____

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5. Recognition

Could this person recognise family members other than their main carer, before the illness?

If No, score 5 (5)

If Yes can this patient now recognise their relatives, other than their main carer (if they have one)?

- Yes (5)
- Some (3)
- None (2)

6. Working

Before the illness, was the patient working?

If Yes, is the patient

- Now back to normal work (5)
- Not performing as well at the same work (4)
- Dropped to a less demanding job or no longer attending work (3)

If Not working before the illness, is the patient:

- Still able to do the same tasks at home and follow the same routine (5)
- Not able to do as well as before (4)
- Not able to do at all (3)

7. Epilepsy/ Seizures

Did the patient have seizures during their illness

If No score 5 (5)

If yes are they still having seizures?

- No seizures and not on anti-epileptic drugs (5)
- No seizures and on anti-epileptic drugs (4)
- Yes has had seizures (3)
- Yes, seizures most days (2)

8. Dressing

Is the patient's ability to dress:

- The same as before the illness (5)
- Occasionally needs extra help (3)
- Always needs more help than before the illness (2)

9. Bladder and Bowel control

Is urinary and faecal continence:

- The same as before the illness (5)
- Needs more help or is incontinent of bowel or bladder (2)

10. Hearing

Does the accompanying friend/relative think the patient's hearing is:

- Normal (5)
- Reduced in one or both ears (4)
- Cannot hear at all (3)

Observation of the patient's abilities

For these questions you observe what the patient can do. If you cannot get them to cooperate, answer these questions based on what the accompanying friend/relative says.

11. Sitting

Does the patient sit?

- Independently (5)
- Needs help (3)
- Not at all (2)

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12. Standing up

Can the patient get from sitting to standing?

- Yes, independently (5)
- Needs help (3)
- Not at all (2)

13. Walking

Observe this patient walking 5 metres across the room. The patient walks:

- Normally (5)
- Abnormally, but independently +/- crutches/stick (3)
- Not able to walk (2)

14. Hands on head

Put both your hands on your head, and ask the patient to copy you. Is it:

- Normal both hands (5)
- Abnormal one or both hands (4)
- Unable one or both hands (3)

15. Picking Up

Ask the patient to pick up pea-sized ball of paper or small coin:

- Normal pincer grasp both hands (5)
- Unable one hand (3)
- Abnormal one hand or both hands (3)
- Unable both hands (2)

Outcome Score =Lowest score for any single question (range 2-5)

Total Score = all the individual scores added up (range 33 –75)

(If the patient died, the score = 1)

Any other Comments: _____

The Final Liverpool Outcome Score is the lowest number scored for any question single question

5 = Full recovery & normal neurological examination

4 = Minor sequelae with mild effects on function or personality change or on medication.

3 = Moderate sequelae mildly affecting function, probably compatible with independent living

2 = Severe sequelae, impairing function sufficient to make patient dependent

1 = Death

Please feel free to use the score. We would recommend contacting Dr Sylviane Defres braininfections@liverpool.ac.uk for the latest information regarding the score. We request that data from use of the score be submitted, so that we can continue to improve and develop the score. See www.liv.ac.uk/braininfections for further information