

Chart Abstraction Questionnaire for the Investigation of Guillain-Barré Syndrome in Relation to Arboviral Infections

Study ID Number BR- ____ - ____ Case Control

The ID number begins with the 2 digit case number (for example BR01) followed by an "A" for the case patient, a "B" for the first control, a "C" for the second control, and a "D" for the third control. For example, the second control subject matched for case number 8 would be labeled "BR-08-C."

The following pages are to be abstracted from the medical records / exam for cases and applicable controls:

Chart Abstractor: _____ Abstraction Date: ____/____/____
DD MM YYYY

1. a. For both, in the 2 months prior to ____/____/____ (neuro onset date for case), did the individual seek care at a doctor/hospital at all with an acute illness (for cases, other than their neuro illness)? Yes No Unknown

b. If so, when did they report first feeling sick? ____/____/____

c. If so, what symptoms did they report having or what signs were noticed (check all that apply)?

- Fevers Chills Nausea or Vomiting Diarrhea
 Muscle pains Joint pains Skin rash Abnormally red eyes
 Headache Pain behind eyes Stiff neck Confusion
 Abdominal pain Coughing Runny nose Sore throat Calf pain

d. If any blood was taken for this acute illness, please fill out the following for the INITIAL blood draw :

Date ____/____/____ WBC ____ HgB ____ Plts ____ Na ____ K ____
 BUN ____ Cr ____ Glucose ____ TBili ____ AST ____ ALT ____ AlkPhos ____

e. If so, were they hospitalized for this acute illness? Yes No Unknown

f. If so, did they receive any blood products / IVIG for this illness? Yes No Unknown

What product? _____ Date? ____/____/____

g. If so, did they receive plasmapheresis / plasma exchange for this illness? Yes No Unknown

If yes, date? ____/____/____

2. a. For both, was this patient tested for dengue at the time of acute illness? Yes No Unknown

b. If so, what was the date of the specimen collection? ____/____/____

c. If so, which specimen(s) was/were collected: Serum Blood CSF

(If >1 specimen collected on individual, write in margin type of specimen, date collected, and result.)

d. If so, check the test(s) done and circle result (check all that apply)?

- PCR Pos Neg Unknown
 NS1 Pos Neg Unknown
 IgM Pos Neg Unknown
 IgG Pos Neg Unknown

3. a. For both, was this patient tested for chikungunya at the time of acute illness?

Yes No Unknown

b. If so, what was the date of the specimen collection? ____/____/____

c. If so, which specimen was collected Serum Blood CSF

(If >1 specimen collected on individual, write in margin type of specimen, date collected, and result.)

d. If so, check the test(s) done and circle result (check all that apply)?

PCR Pos Neg Unknown

IgM Pos Neg Unknown

IgG Pos Neg Unknown

4. a. For both, was this patient tested for Zika virus at the time of acute illness?

Yes No Unknown

b. If so, what was the date of the specimen collection? ____/____/____

c. If so, which specimen was collected: Serum Blood CSF Urine

(If >1 specimen collected on individual, write in margin type of specimen, date collected, and result.)

d. If so, check the test(s) done and circle result (check all that apply)?

PCR Pos Neg Unknown

IgM Pos Neg Unknown

IgG Pos Neg Unknown

5. a. For both, was this patient tested for leptospirosis at the time of acute illness? Yes No Unknown

b. If so, what was the date of the specimen collection? ____/____/____

c. If so, which specimen was collected Serum Blood CSF

(If >1 specimen collected on individual, write in margin type of specimen, date collected, and result.)

d. If so, which test? _____

e. If so, what was the result? _____

6. For both, are there any already available leftover specimens related to the above acute illness?

a. Serum Yes No Collection Date ____/____/____

b. Whole Blood Yes No Collection Date ____/____/____

c. CSF Yes No Collection Date ____/____/____

d. Urine Yes No Collection Date ____/____/____

7. For cases, what was the date of neuro onset for the case? (neuro symptoms, not preceding acute febrile illness or diarrhea)

____/____/____

8. For cases, what neurologic symptoms occurred on the DAY OF ONSET (check all that apply)?

- Leg weakness Arm weakness Face weakness Diplopia/Ophthalmoplegia
 Leg numbness/parasthesias Arm numbness/parasthesias Face numbness/parasthesias
 SOB / respiratory distress Gait imbalance (not weakness) Hand clumsiness (not weakness)

9. For cases, what neurologic symptoms occurred AT ANY TIME during the neuro illness (check all that apply)?

- Leg weakness Arm weakness Face weakness Diplopia/Ophthalmoplegia
 Leg numbness/parasthesias Arm numbness/parasthesias Face numbness/parasthesias
 SOB / respiratory distress Gait imbalance (not weakness) Hand clumsiness (not weakness)

10. For cases, how long from onset until maximum/worst neuro symptoms? _____ minutes/hours/days/weeks

11. For cases, at their worst during this neuro illness, was the patient (check all that apply)?

- Unable to walk without assistance (e.g. cane, walker) Unable to walk at all
 Admitted to the hospital Admitted to the ICU/CCU Intubated

12. Hughes Disability Score at time of evaluation: (Date recorded ___/___/____)

Hughes Disability Score: F-score (0 to 6) Unknown

[0 = Complete recovery; no sequelae, 1 = Minor symptoms and capable of running, 2 = Able to walk 10 metres or more without assistance but unable to run, 3 = Able to walk 10 metres with help, 4 = Bedridden or chairbound (unable to walk 10 meters with help), 5 = Requiring assisted ventilation for at least part of the day, 6 = Dead]

13. If any blood was taken for this neurologic illness, please fill out the following for the INITIAL blood draw :

Date ___ / ___ / 2015 WBC ____ HgB ____ Plts ____ Na ____ K ____
 BUN ____ Cr ____ Glucose ____ TBili ____ AST ____ ALT ____ AlkPhos ____

14. For cases, was a lumbar puncture (LP) done? Yes No Unknown

LP date ___/___/___ RBCS ____ WBCS ____ Protein (mg/dL) ____ Glucose (mg/dL) ____
 LP date ___/___/___ RBCS ____ WBCS ____ Protein (mg/dL) ____ Glucose (mg/dL) ____

15. For cases, was there documented hyporeflexia/areflexia in the chart or by neurologists? Yes No Unknown

16. For cases, were any upper motor neuron signs found in the chart or by neurologists? Yes No Unknown

If yes, specify: _____

17. For cases, are there any already available leftover specimens related to the above neuro illness?

- a. Serum Yes No Collection Date ____/____/____
- b. Whole Blood Yes No Collection Date ____/____/____
- c. CSF Yes No Collection Date ____/____/____
- d. Urine Yes No Collection Date ____/____/____

18. For cases, did they receive any blood products / IVIG for this neuro illness? Yes No Unknown

What product? _____ Date? ____/____/____

19. For cases, were any of the following diseases tested for? If so, what was the result (including specimen and type of test)?

- a. *Campylobacter jejuni* Yes No Result: _____
- b. *Mycoplasma pneumoniae* Yes No Result: _____
- c. *Haemophilus influenza* Yes No Result: _____
- d. *Salmonella* species Yes No Result: _____
- e. Cytomegalovirus (CMV) Yes No Result: _____
- f. Epstein-Barr virus (EBV) Yes No Result: _____
- g. Varicella-zoster virus (VZV) Yes No Result: _____
- h. Human immunodeficiency virus (HIV) Yes No Result: _____
- i. Enterovirus / Rhinovirus Yes No Result: _____

20. For cases, was neuro imaging done? If so, what was the result?

Yes No Result: _____
 _____ Date ____/____/____

21. For cases, were electro-diagnostics done (e.g. EMG)? If so, what were the results?

Yes No Result: _____
 _____ Date ____/____/____

22. For cases, what was the GBS Brighton level? 1 2 3 4 5

Levels of Diagnostic Certainty

Level 1	Level 2	Level 3	Level 4*	Level 5
Absence of an alternative diagnosis for weakness				NOT a case
Acute onset of bilateral and relatively symmetric flaccid weakness of the limbs				
Decreased or absent deep tendon reflexes in affected limbs				
Monophasic illness pattern with weakness nadir between 12 hours and 28 days, followed by clinical plateau				
				* Lacking documentation to fulfill minimal case criteria

Albuminocytologic dissociation (elevation of CSF protein level above laboratory normal value and CSF total white cell count < 50 cells/mm ³)	CSF with a total white cell count < 50 cells/mm ³ (with or without CSF protein elevation above laboratory normal value) or if CSF not collected or results not available, and electrodiagnostic studies consistent with GBS			
Electrophysiologic findings consistent with GBS				