## Cranio-cervical Junction

1. \*Cervical posture:

 [ ]  Normal Lordosis [ ]  Straightening [ ]  Head tilt

1. \*Compression (at surgical site):

[ ]  N/A

[ ]  Cranioplasty

[ ]  Tenderness

[ ]  R [ ]  L [ ]  B [ ]  MRB [ ]  LB [ ]  UB [ ]  DB [ ]  T [ ]  M

1. \*Axial loading:

[ ]  Well tolerated [ ]  Painful

1. \*Cervical extraction (sitting):

[ ]  Pain relief [ ]  Neutral [ ]  Increased pain

1. \*Jugular compression:

[ ]  Worsening headache

[ ]  Neutral

[ ]  Relief

1. \*Muscle spasm:

[ ]  None [ ]  Tenderness (R;L;B) [ ]  Induration (R;L;B)

1. \*Trigger points:

[ ]  Suboccipital; indicate ([ ]  R [ ]  L [ ]  B)

[ ]  Paracervical; indicate ([ ]  R [ ]  L [ ]  B)

[ ]  Trapezius; indicate ([ ]  R [ ]  L [ ]  B)

[ ]  Rhomboid; indicate ([ ]  R [ ]  L [ ]  B)

## Thoraco-lumbar Spine:

1. \*\*Lumbar posture:

[ ]  Normal

[ ]  Straightening
[ ]  Exaggerated

1. \*Heel walking:

[ ]  N/T

[ ]  Unable

[ ]  Back pain/Leg pain

[ ]  Urgency

[ ]  Weakness

[ ]  R [ ]  L [ ]  B

1. \*\*Toe walking:

[ ]  N/T

[ ]  Unable

[ ]  Back pain/Leg pain

[ ]  Urgency

[ ]  Weakness

[ ]  R [ ]  L [ ]  B

1. \*\*Spinal percussion:

[ ]  N/T

[ ]  Neutral

[ ]  Local pain (describe)

1. \*\*Palpation of SI joints:

[ ]  N/T

[ ]  Neutral

[ ]  Local pain (describe)

1. \*Pelvic traction:

[ ]  N/T

[ ]  Unable

[ ]  Back pain/Leg pain

[ ]  Urgency

[ ]  Incontinence

[ ]  Suboccipital headache

1. \*Truncal flexion:

[ ]  N/T

[ ]  Unable

[ ]  Back pain/Leg pain

[ ]  Urgency

[ ]  Incontinence

[ ]  Suboccipital headache

1. \*Truncal extension:

[ ]  N/T

[ ]  Unable

[ ]  Back pain/Leg pain

[ ]  Urgency

[ ]  Incontinence

[ ]  Suboccipital headache

1. \*\*Straight leg raising:

[ ]  N/T

[ ]  Unable

[ ]  Back pain

[ ]  Leg pain

[ ]  R [ ]  L [ ]  B; degrees

## Extremities

1. \*\*Tinel's signs:

[ ] Positive; indicate [ ]  R [ ]  L [ ]  B

[ ] Negative; indicate [ ]  R [ ]  L [ ]  B

1. \*\*Phalen’s signs:

[ ] Positive; indicate [ ]  R [ ]  L [ ]  B

[ ] Negative; indicate [ ]  R [ ]  L [ ]  B

1. \*\*Adson's maneuvers:

[ ] Pulse lost in internal rotation; indicate [ ]  R [ ]  L [ ]  B

[ ] Pulse lost in external rotation; indicate [ ]  R [ ]  L [ ]  B

1. \*Knee/patella exam:

[ ]  N/T

[ ]  Unable

[ ]  Crepitation

[ ]  Excessive laxity

[ ]  Pain

1. \*ROM at hips:

[ ]  N/T

[ ] Pain on internal rotation; indicate [ ]  R [ ]  L [ ]  B

[ ] Pain on external rotation; indicate [ ]  R [ ]  L [ ]  B

1. \*Stair climbing:

[ ]  Not reported

[ ]  Unable

[ ]  Difficulty with R or L leg

[ ]  More difficulty going up

[ ]  More difficulty going down

\*Element is classified as Supplemental

\*\*Element is classified as Exploratory

## General Instructions

This form contains data elements that are collected for Chari I Malformation diagnosis. The questions should be answered to the best of the participant’s/subjects ability.

## Specific Instructions

Please see the Data Dictionary for definitions for each of the data elements included in this CRF Module.

### Cranio-cervical Junction

1. Cervical posture: Neck posture
2. Compression (at surgical site): Decompression site
3. Axial loading: Downward pressure on head
4. Cervical extraction (sitting): Elevate head with hands on occiput and chin
5. Jugular compression: Gentle, bilateral jugular compression (30 sec)
6. Muscle spasm: Palpation of posterior paracervical muscles
7. Trigger points: Exquisite, sharp pain on deep palpation

### Thoraco-lumbar Spine

1. Lumbar posture: Low back posture
2. Heel walking: Symptoms on heel walk 10 paces up & back
3. Toe walking: Symptoms on toe walking 10 paces up & back
4. Spinal percussion: Fist percussion down spinous processes
5. Palpation of SI joints: Pressure at the SI in prone position
6. Pelvic traction: Lying supine, stabilize the upper torso and extract legs by the ankles
7. Truncal flexion: Lying supine, flex torso forward, arms extended to touch toes (head/neck neutral)
8. Truncal extension: Lying prone, extend back in push-up maneuver
9. Straight leg raising: Lying supine, passively flex straightened leg individually to 90 deg

### Extremities

1. Tinel's signs: Percussion at wrist
2. Phalen's signs: Pain on forceful flexion or extension of the wrist
3. Adson's maneuvers: With arm abducted and elbow flexed observe radial pulse in external and internal rotation
4. Knee/patella exam: Passive movement of the knee and lateral movement of the patella
5. ROM at hips: Lying supine, internal and external rotation with hip flexed
6. Stair climbing: Question patient on ability to climb stairs