APPENDIX 1

Study Questionnaire
OPEN AORTIC ARCH PROCEDURES:

Question 1: What is your profession?
(A) Anesthesiologist □ (B) Surgeon □ (C) Intensivist □ (D) Perfusionist □ (E) Other-specify…

Question 2: In which country do you primarily work?
(A) China □ (B) Japan □ (C) USA □ (D) Canada □ (E) Europe (country) □ (F) Other-specify…

Question 3: How many open aortic arch procedures are performed at your institution per year?
(A) <50 per year □ (B) About 50 to 100 per year □ (C) > than 100 per year □

Question 4: How long is the typical aortic arch repair time?
(A) <30 minutes □ (B) 30-45 minutes □ (C) >45 minutes □

Question 5: At which location is temperature measured at your institution to assure hypothermia in the brain?
(A) tympanic □ (B) esophageal □ (C) rectal □ (D) bladder □ (E) skin □ (F) other specify…

Question 6: What degree of hypothermia is typically utilized at your institution during aortic arch procedures?
(A) <15 degrees Celsius □ (B) 15-20 degrees Celsius □ (C) >20 degrees Celsius □

Question 7: What is the end-point for cooling prior to aortic arch replacement at your institution (please mark all that apply)?
(A) temperature □ (B) jugular venous saturation □ (C) electroencephalogram □
(D) cerebral oximetry □ (D) BIS monitor □ (E) other-specify…

Question 8: What type(s) of cerebral perfusion is/are typically utilized at your institution during aortic arch procedures (please mark all that apply)?
(A) hypothermia □ (B) retrograde cerebral perfusion □ (C) unilateral anterograde cerebral perfusion (ACP) □ (D) bilateral ACP □

Question 9: During ACP, which monitors are used to track cerebral perfusion (please mark all that apply)?
(A) cerebral oximetry □ (B) radial arterial pressure monitoring □ (C) transcranial Doppler □
(D) ultrasound of the aortic arch or its branches □ (E) other-specify…

Question 10: Which of the following agents are typically utilized at your institution for cerebral protection during aortic arch procedures (please mark all that apply)?
(A) thiopental □ (B) propofol □ (C) hydrocortisone □ (D) methylprednisolone □
(E) dexamethasone □ (F) lidocaine □ (G) magnesium □ (H) other-specify…