**Supplemental** **Table 1.** Demographic characteristics of study participants (n=562)

|  |  |
| --- | --- |
| Age in years |  |
| Mean (range) | 29.8 (0.5-87) |
| Sex (%) |  |
| Male patients | N = 195 (35) |
| Female patients | N = 363 (65) |
| Number of patients with at least one revision surgery(%) | N = 455 (81) |
| Mean number of revision surgeries per patient(Range) | N = 10 (1- 200 surgeries) |
| Mean age of first shunt placement, (Range) | 18.3 years (0-81 years) |