Supplementary Table 1. Participating institutions and their principal investigators at each site

| Hospital                                           | University                     | Site investigators                                      |
|----------------------------------------------------|--------------------------------|--------------------------------------------------------|
| Ann & Robert Lurie’s Children’s Hospital           | Northwestern University        | Joshua Goldstein                                        |
| Boston Children’s Hospital                         | Harvard University             | Tobias Loddenkemper, Iván Sánchez Fernández, Robert C. Tasker |
| Children’s Hospital Colorado                       | University of Colorado         | Kevin E. Chapman                                        |
| Children’s National Medical Center                 | George Washington University   | Jessica Carpenter, Nathan Dean, William Gaillard        |
| Cincinnati Children’s Hospital Medical Center      | University of Cincinnati       | Ravindra Arya, Tracy Glauser, Katrina Peariso, John Pestian (Bio-informatics) |
| Duke Children’s Hospital                           | Duke University                | Mohamad Mikati, Margie Ream, David Goldstein (Genetics), Erin Heinzen (Genetics) |
| Langone Medical Center                             | New York University            | James J. Riviello, Jr.                                  |
| Phoenix Children’s Hospital                        | University of Arizona          | Korwyn Williams                                         |
| Texas Children’s Hospital                          | Baylor University              | Satish Agadi                                             |
| The Children’s Hospital of Philadelphia            | Perelman School of Medicine at the University of Pennsylvania | Nicholas S. Abend, Alexis Topjian                       |
| The Hospital for Sick Children                     | University of Toronto          | Cecil Hahn                                               |
| The University of Virginia Children’s Hospital     | University of Virginia         | Howard Goodkin, Melissa Sacco                           |