**Associations of prolonged QTc in sickle cell disease**

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**Supplemental Data and Methods**

**Heme Assay**

Plasma samples (10 μl) from adult sickle cell patients in the UC cohort were mixed with 5 μl sample buffer (Tris/SDS/β-mercaptoethanol/glycerol without bromophenol blue) and diluted to 30 ul with PBS. The samples were heated at 70°C for 2 min in a dry bath and were separated using gel electrophoresis in 4-20 % Tris glycine gel. After the electrophoresis, the gel was washed in distilled water and was imaged at 600 nm channel (2 minutes exposition time) on Li-Cor Fc image station. Total fluorescence signal from heme was quantified and analyzed on Image Studio 5.0 software.

**S1 Table. Clinical, echocardiographic and laboratory characteristics of the UIC cohort**

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|  | **UIC cohort** |
| Age at time of ECG (years) | 34.6 [25.7, 47.3] |
| Sex (female, n=) | 224 |
| Hydroxyurea use (n=) | 70 |
| Hg SS (n=) | 171 |
| Hg SC (n=) | 36 |
| Other genotypes (n=) | 16 |
| ECG (in-patient, n=,%) | 128 (58.0%) |
| QTc (ms)\* | 441 [428, 460] |

Data presented as median [interquartile range]. Age determined at time of vital assessment. Hg SS, Hemoglobin SS genotype; Hb SC, Hemoglobin SC genotype