**Legend**

X=Overlap between Tweel and Boston University Calculator

X=Overlap between Sebastiani and Boston University Calculator

X=Overlap between all 3 methods of calculation

X=Overlap between Tweel and Boston University Calculator

X=Overlap between Sebastiani and Boston University Calculator

X=Overlap between all 3 methods of calculation

**Sebastiani Article**

**Boston University Calculator**

**Tweel Article**

|  |
| --- |
| Bone necrosis (avascular) |
| Cerebral infarcts/vasculopathy (stroke) |
| Hepatic sequestration (acute) |
| Pneumococcal meningitis/septicemia |
| Priapism |
| Splenic sequestration |
| ACS |
| Painful crisis |
| Hemoglobin |
| HbF (%) |
| LDH |
| Leucocytes |

|  |
| --- |
| ACS |
| Age |
| Bilirubin |
| Blood Transfusion |
| LDH |
| MCV |
| Pain |
| Priapism |
| Reticulocyte count |
| Sepsis |
| Sex |
| Stroke |
| Systolic BP |
| WBC |
| Hemoglobin genotype |
| AVN |

|  |
| --- |
| ACS |
| Age |
| Bilirubin level |
| Blood transfusion |
| LDH |
| MCV |
| Pain |
| Priapism |
| Reticulocyte count |
| Sepsis |
| Sex |
| Stroke |
| WBC count |
| Sys BP |

**Platt Article**: no creation of a calculator

-“Modeling revealed that in patients with sickle cell anemia, the acute chest syndrome, renal failure, seizures, a base-line white-cell count above 15,000 cells per cubic millimeter, and a low level of fetal hemoglobin were associated with an increased risk of early death”.

**Belini article:**

-concluded that the network/Bayesian model to predict severity for sickle cell proved accurate for a severity calculation. He proved this by plotting certain symptoms with severity score and seeing the general trends

**Ms. Ashley said that we do not have values for ACS, LDH, or Sepsis. She suggested that we replace the values that we did not calculate with Hgb and HbF. We should create a point system that will give us numerical data in order to categorize severity. Ms. Ashley agrees on this plan of action.**