

Must include extended RBC antigen typing for C, E and Kell given high rate of alloimmunization in SCD

Consult hematology and blood bank if transfusion needed

Interventions:

Consultation with hematologist in ED, if possible

Consultation with obstetrics if SCD patient is pregnant

Supplementary oxygen only if hypoxic (<94% or >4% below baseline if have chronic hypoxia) to raise pO₂ >94%

Judicious fluid replacement with D5W if signs/symptoms of fluid deficit,

No more than 125ml/hour, decrease to 50ml/hour after 1 liter if tolerating oral fluids

Avoid fluid bolus as this may exacerbate pulmonary edema in SCD patients

Empiric antibiotics until bacterial infection ruled out if persistent high fever/unstable vital signs

For suspected pneumonia: macrolide and a third generation cephalosporin

Vancomycin if concern for line or skin infection (SCD patients can have an indwelling port or line, and/or leg ulcers)

Transfuse to decrease HbS and treat possible acute chest syndrome, particularly if Hb > 2gr/dL below baseline or serious respiratory compromise

Begin with simple transfusion if Hb < 10gr/dL

If Hb > 10gr/dL, given concern for hyperviscosity, arrange exO₂ Tz 0 Tr 12 0 0 12 408.52 403.13 Tm

For additional information, see:

- ASH COVID and SCD FAQs
<https://www.hematology.org/covid-19/covid-19-and-sickle-cell-disease>
- An outline to decrease burden and minimize morbidity from COVID-19 in SCD
<https://www.sicklecelldisease.org/2020/03/18/sickle-cell-disease-and-covid-19-provider-directory/>
- Registry for reporting of patients with COVID-19 and SCD
<https://covidsicklecell.org/updates-data/>

Please note:

While ASH aims to provide a forum for the exchange of information that is helpful, accurate and up-to-date, the relevant health information and data concerning the disease, as well as the various governmental actions and responses to the disease, are changing constantly, and ASH makes no representation, warranty, or guaranty whatsoever as to any information that may be exchanged through this webpage.

It remains the responsibility of each medical professional to decide on the appropriate medical advice, diagnosis, and treatment for patients. In rendering such advice, please bear in mind that although ASH