## Adult Sickle Cell Health Maintenance Recommendations

In general, both specialist and PCP visits at least twice a year. All elements of routine health maintenance, including routinely recommended vaccines, in addition to sickle cell specific care. All elements of care could be done by either specialist or PCP with communication of results.

Point PointED Visits and Hospital Admissions (Provider Portal)Each visitED Visits and Hospital Admissions (Provider Portal)Each visitSpecialist or other outpatient visits (Provider Portal)Each visitAcute or chronic painEach visit, Increasing frequency or severity or chronic pain, See Pain algorithmPriapismEach visit, Painful erection or lasting >2 hr, Pain algorithmPain medications used (CSRS, Provider Portal)Each visit, Assess for multiple unexpected fills from multiple providers, Pain algorithmPain Agreement PlanEach visit, Recommended for patients with chronic pain, Pain algorithm	
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Pain Agreement Plan Each visit, Recommended for patients with chronic pain, Pain algorithm	
If long acting pain meds, pain provider? Each visit, one main pain provider preferred, Pain algorithm	
Hydroxyurea Each visit, Typically prescribed by specialist. Generally recommended for Hg SS and SBthal0 with 3+ painful crises a year, severe anemia, etc. CBC every 4-12 weeks if on hydroxyurea.	ACS,
Each visit, Typically managed by specialists. Marker of severe disease. Risk of liver and heart failure with significant long	
Receiving chronic transfusion   standing iron overload (Hydroxyurea algorithm)     Vision   Risk of retinal infarction. Refer to ophthalmologist for concerns	
Shortness of breath control important in sickle cell disease patients	
Depression screen: PHQ-2/PHQ-9 Each visit, Manage depression or link to behavioral health specialists in your area	
Vision Vision screen each visit, Comprehensive eye exam annually, Risk of retinal infarction. Refer to ophthalmologist for conce	ns
Spleen     Each visit, If palpable and enlarged, consider splenic sequestration, requiring hospitalization and transfusion	
Liver and gall bladderEach visit, if painful or enlarged, consider gall stones which are associated with increased risk of multi-organ failure. ReferSickle Cell specialists	r to
Bip/knee/shoulder pain Each visit, See Pain algorithm	
Hip/knee/shoulder pain Leg ulcers Each visit, See Pain algorithm Each visit, possible etiology venous insufficiency, Initial standard therapy (debridement, wet to dry dressings, topical ager risk of osteomyelitis with chronic recalcitrant deep ulcers, wound culture if infection is suspected or if ulcers deteriorate Each visit, OSA associated with night time hypoxia, ACS, progression of CNS and peripheral vascular disease. Refer to EN	.,
ENT exam, enlarged tonsils with s/sxs of OSA Dentition Sickle Cell specialist Each visit, Dental caries has risk of chronic seeding and inflammation that can worsen chronic pain and trigger acute pain Refer to dentist.	
EKG to assess QTc if on methadone At least annually, If QTc > 400ms, wean down Methadone	
CBC with retic*Every 6 months, Typically done by specialist. Red flag Hg < 2 g/dl or < 6g/dl than baseline. Risk of acute splenic sequestr aplastic episode, ACS, etc. Refer for emergency care.	ıtion,
Ferritin     Typically done by specialist annually, red flag >1000 ng/m, Ensure sickle cell specialists has results	
T. Bili, LDH Typically done by specialist every 6 months. Red flag significantly elevated above baseline. Ensure specialist has results.	
AST, ALT, Cr Typically done by specialist every 6 months, Red flag elevated above normal. Ensure specialist has results.	
UA. First morning void spot micro-albumin/Cr ratio, if UA+ Typically done by specialist annually. Red flag >30mg albumin/g Cr. Ensure specialist has results.	
Paransition to adult care Each visit for patients age 18-22 years, Counseling about school, college, working	
토 PCN If hx of surgical splenectomy or pneumococcal sepsis, at least to age 21, consider longer	
Transition to adult care   Each visit for patients age 18-22 years, Counseling about school, college, working     PCN   If hx of surgical splenectomy or pneumococcal sepsis, at least to age 21, consider longer     Pneumococcal vaccine (PPSV23)   If onfirmed that 2 doses were given during childhood, give another dose after age 65 yrs. If confirmation of earlier dose unavailable, give one dose and then repeat after age 65 years.	\$
Meningococcal vaccine (MCV4, Menactra) Every 5 years	

\* To establish baseline, consider doing Hg levels monthly for 3 months Developed by the NC Division of Public Health; the comprehensive sickle cell centers at Carolinas Health Care, Duke University, East Carolina University, University of North Carolina at Chapel Hill, Mission, and Wake Forest University; and primary care physicians from across North Carolina. Adapted from the 2014 NIHLBI guidelines for Evidence-Based Management of Sickle Cell Disease.