

Parent education and support in preparation for discharge and home care include education in home management, dietary restrictions, infection prevention, and the need for follow-up care and health supervision. Health supervision is continued with weekly followed by monthly visits for evaluation and urinalysis.

Miscellaneous Renal Disorders

Hemolytic Uremic Syndrome

Hemolytic uremic syndrome (HUS) is an uncommon, acute renal disease that occurs primarily in infants and small children between 6 months and 5 years old. HUS is one of the most frequent causes of acquired AKI in children ([Grisaru, 2014](#)). The clinical features of the disease include acquired hemolytic anemia, thrombocytopenia, renal injury, and central nervous system (CNS) symptoms. The etiology of HUS is thought to be associated with bacterial toxins, chemicals, and viruses. The appearance of the disease has been associated with *Rickettsia* organisms, viruses (especially coxsackievirus, echovirus, and adenovirus), *E. coli*, pneumococci, shigellae, and salmonellae and may represent an unusual response to these infections. Multiple cases of HUS caused by enteric infection of the *E. coli* O157:H7 serotype have been traced to undercooked meat, especially ground beef. Other sources are unpasteurized milk or fruit juice, especially apple; alfalfa sprouts; lettuce; and salami. Drinking or swimming in sewage-contaminated water can also cause infection. The clinical presentation is usually a history of a prodromal illness (most often gastroenteritis or an upper respiratory tract infection) followed by the sudden onset of hemolysis and renal failure.

Pathophysiology

The primary site of injury appears to be the endothelial lining of the small glomerular arterioles, which become swollen and occluded with deposits of platelets and fibrin clots (intravascular coagulation). RBCs are damaged as they attempt to move through the partially occluded blood vessels. These damaged cells are removed by the spleen, causing acute hemolytic anemia. The platelet aggregation within the damaged blood vessels or the