History
Adult male with sickle cell disease.

Diagnosis
Hemosiderosis-Lymph Node

Discussion
Hemolytic anemias result in the deposition of iron in the reticuloendothelial system and other organs (bowel, pancreas, adrenal glands, etc) related to increased turnover of red blood cells and multiple transfusions. Iron accumulates in macrophages secondary to red blood cell lysis; macrophages are eventually sequestered by the liver, spleen and lymph nodes. Attenuation coefficients of lymph nodes range between 145 and 205 HU and appear calcified (the atomic numbers of iron and calcium are similar measuring 26 and 20 AU respectively).

Findings
CT- Axial and coronal noncontrast images demonstrate multiple enlarged and hyperdense lymph nodes in the periportal, retroperitoneal and mediastinal stations. Also note, the hepatic hemosiderosis and evolving splenic infarction.

Reference

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