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Title	IRON METABOLISM AND ROLE OF HEPCIDIN IN CRITICALLY ILL PATIENTS.
Department	SREE BALAJI MEDICAL COLLEGE AND HOSPITAL. DEPARTMENT OF BIOCHEMISTRY.
Category	Miscellaneous
Abstract	<p>Iron deficiency anemia occurs due to various causes. Critically ill conditions especially inflammation is most important cause which results in inadequate availability of iron to tissues. Our study reveals the role of iron states in critically ill patients and the importance of iron supplementation to the critically ill patients. Heparin inhibit the iron absorption and reducing the level of iron in the blood. Serum ferritin level is also increased during inflammation.</p> <p>OBJECTIVES: This study is aimed to understand the cause and effect of iron metabolism in critically ill state.</p> <p>METHODS: 100 patients who will be admitted to the ICU of a tertiary care hospital of sree balaji medical college and hospital with critically ill state will be evaluated for iron parameters like iron, ferritin, total iron binding capacity, transferrin saturation and results will be statistically evaluated.</p> <p><input type="checkbox"/>Period of study : Four months <input type="checkbox"/>Age group : 20 to 90 yrs <input type="checkbox"/>Genders : 60 males and 40 females</p> <p>Parameters and base line investigation were done to the critically ill patients.</p> <p>DISCUSSION: Hepcidin is homeostatically increased by iron loading and decreased by anemia and hypoxia.hepcidin also elevated during infections and inflammations causing decrease in serum iron levels and contribute to anemia of inflammation. More than 90% of ICU patients have low serum iron, total iron binding capacity and both, but have a normal or elevated serum ferritin levels. Similarly, low iron parameters and elevated ferritin levels are observed in patients with multiple organ dysfunction. A comparably blunted EPO response to physiologic stimuli also has been reported in critically ill children.</p> <p>CONCLUSION: Better knowledge of iron metabolism including the discovery of hepcidin, may allow for easier recognition of iron deficiency in critically ill patients. This opens new areas for research in exploring the role of iron treatment for these patients.</p>
Conflicts	None
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Decision of Scientific committee	
State if accepted for oral	