

Title of thesis: The Role of lung ultrasound in differentiating types of shock in critically ill patients.

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Abstract

This thesis aims at assessment of role of lung ultrasound (FALLS-protocol) in differentiating types of shock in critically ill patients. As acute circulatory failure is one of the most familiar concerns & challenges of the intensivist. It is suggested that artifacts generated by lung ultrasound can be of help. The FALLS-protocol (Fluid Administration Limited by Lung Sonography) is a tool proposed for the management of unexplained shock, mainly using lung ultrasound. The study included 50 patients presented with undiagnosed shock. All patients were subjected to full history taking including, complete clinical examination, vital signs recording, Complete set of routine laboratory tests, ECG, fast bedside echocardiography and an ultrasound machine was used to apply FALLS-protocol and measuring IVC diameter & collapsibility. The thesis concluded that bedside chest ultrasound FALLS-protocol should be considered in the resuscitation pathways with a possible significant impact on patient management.

Keywords: *FALLS protocol, lung ultrasound, shock.*