



# Relationship between Volume Status by Clinical Criteria and Lung Ultrasound in Hemodialysis Patients

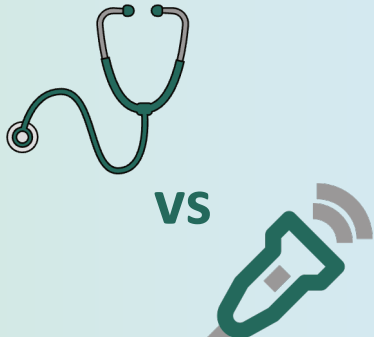


## Methods


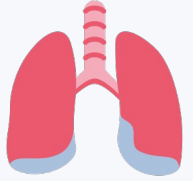

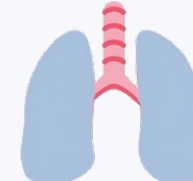




 Prospective comparative study in 52 Hemodialysis (HD) patients

 Defence Services General Hospital in Yangon, Myanmar

 October 2022 to June 2023

 Clinical Examination (CE) vs Lung Ultrasound (LUS) before and after HD treatment

## Results

		Lung Ultrasound				
						
		Clinical Examination	No Overload	Mild Overload	Moderate Overload	Severe Overload
Pre-HD	 Hypervolemic	n=29	0%	3.4%	69%	27.6%
	 Evolemic	n=23	43.5%	56.5%	0%	0%
Post-HD	 Hypervolemic	n=29	0%	25%	70%	5%
	 Evolemic	n=23	50%	31.2%	18.8%	0%

Spearman's  $\rho$  0.883  
Spearman's  $\rho$  0.622

**Conclusion:** There was a strong relationship between clinical volume status and volume overload assessed by LUS in HD patients. Clinical evaluation and LUS are effective in assessing volume status and volume overload severity.

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