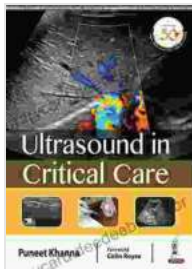


# Ultrasound in Critical Care: A Comprehensive Guide by Dr. Puneet Khanna

Ultrasound is an essential tool in critical care, providing real-time, non-invasive imaging of the heart, lungs, abdomen, and other organs. This article provides a comprehensive guide to ultrasound in critical care, with a focus on the techniques, applications, and limitations of this technology.



## Ultrasound in Critical Care by Puneet Khanna

★★★★☆ 4.4 out of 5

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## Techniques of Ultrasound in Critical Care

There are two main techniques of ultrasound in critical care: transthoracic echocardiography (TTE) and transabdominal ultrasonography (TAU). TTE is performed by placing an ultrasound probe on the patient's chest, and TAU is performed by placing an ultrasound probe on the patient's abdomen. Both techniques can be used to visualize the heart, lungs, liver, kidneys, gallbladder, and other organs.

### TTE

TTE is the most common type of ultrasound in critical care. It is used to evaluate the heart's structure and function, and to diagnose conditions

such as:

\* \*\*Cardiac tamponade\*\* \* \*\*Pericardial effusion\*\* \* \*\*Valvular heart disease\*\* \* \*\*Congestive heart failure\*\* \* \*\*Myocardial infarction\*\* \* \*\*Pulmonary embolism\*\*

## TAU

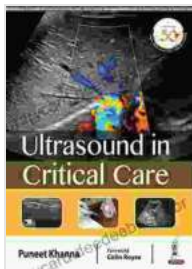
TAU is used to evaluate the abdomen and its contents. It is used to diagnose conditions such as:

\* \*\*Appendicitis\*\* \* \*\*Cholecystitis\*\* \* \*\*Hepatitis\*\* \* \*\*Cirrhosis\*\* \* \*\*Pancreatitis\*\* \* \*\*Renal failure\*\*

## Applications of Ultrasound in Critical Care

Ultrasound has a wide range of applications in critical care, including:

\* \*\*Diagnosis of critical illnesses\*\* \* \*\*Monitoring of critically ill patients\*\* \* \*\*Guidance of invasive procedures\*\* eoc ...



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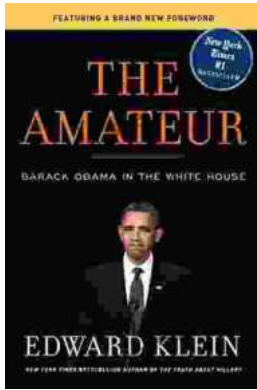
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