

## APPLICATION OF ULTRASOUND IN PATIENTS WITH KIDNEY DISEASES.

Author : SUHAIL SABEENA MOHAMMED

Discipline of Rheumatology and Nephrology

Scientific supervisor: DORIAN SASU

### Introduction

The use of ultrasound in nephrology has been on the increase in recent years all over the world . Doctors are increasingly performing ultrasonography, which has applications across the spectrum of nephrology, including investigations of the kidneys and lower urinary tract, as well as guiding percutaneous operations.

### Keywords

Ultrasonography, nephrology, nephrologists

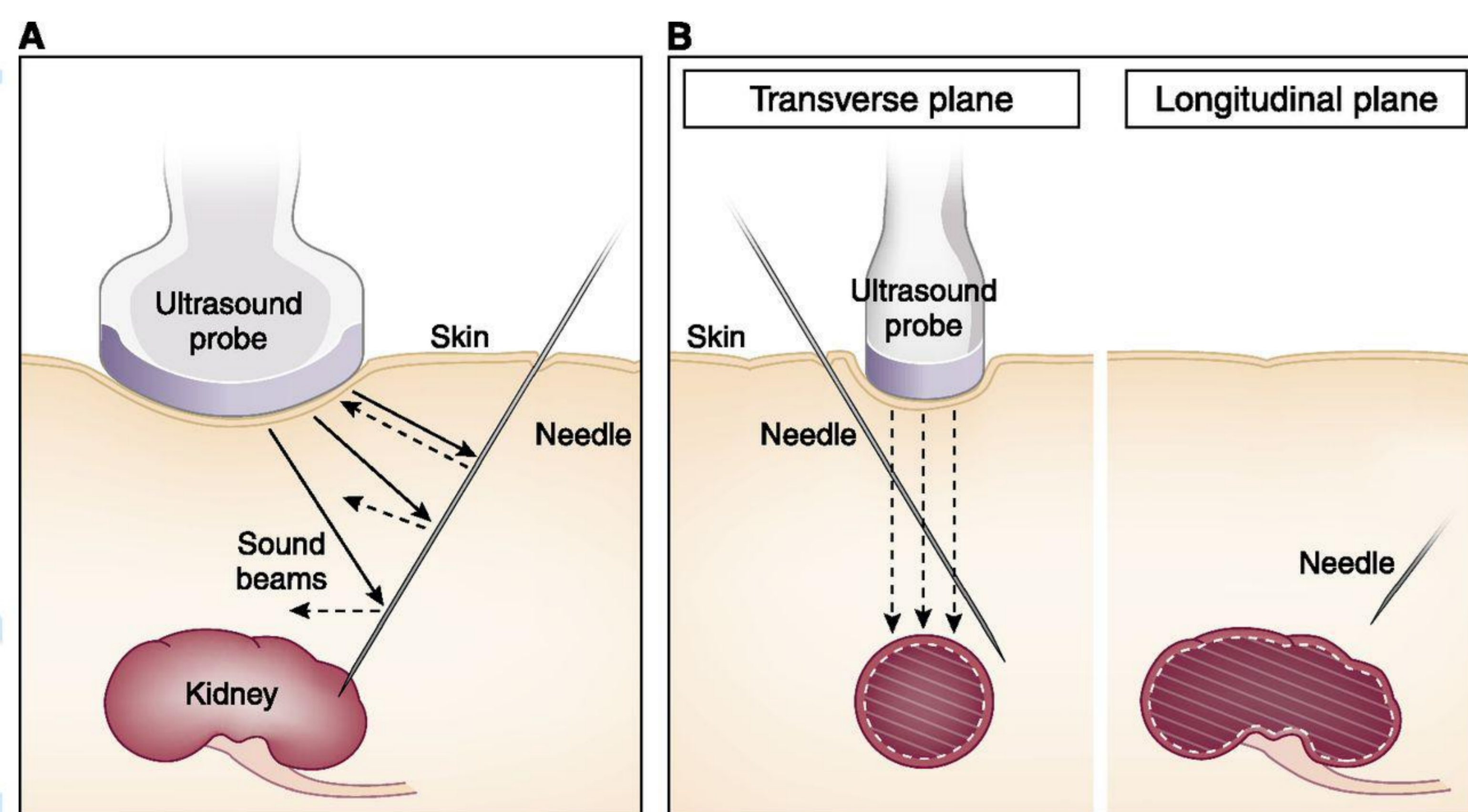


Image 1 : Ultrasound principles of real-time visualization.

### Purpose

To evaluate the application of the ultrasound in patient with kidney disease and draw a conclusion.

### Material and methods

Study design - systematic review. The use of ultrasound in a patient with kidney illness is investigated using WHO data and scientific papers from the PubMed, MedLine databases.

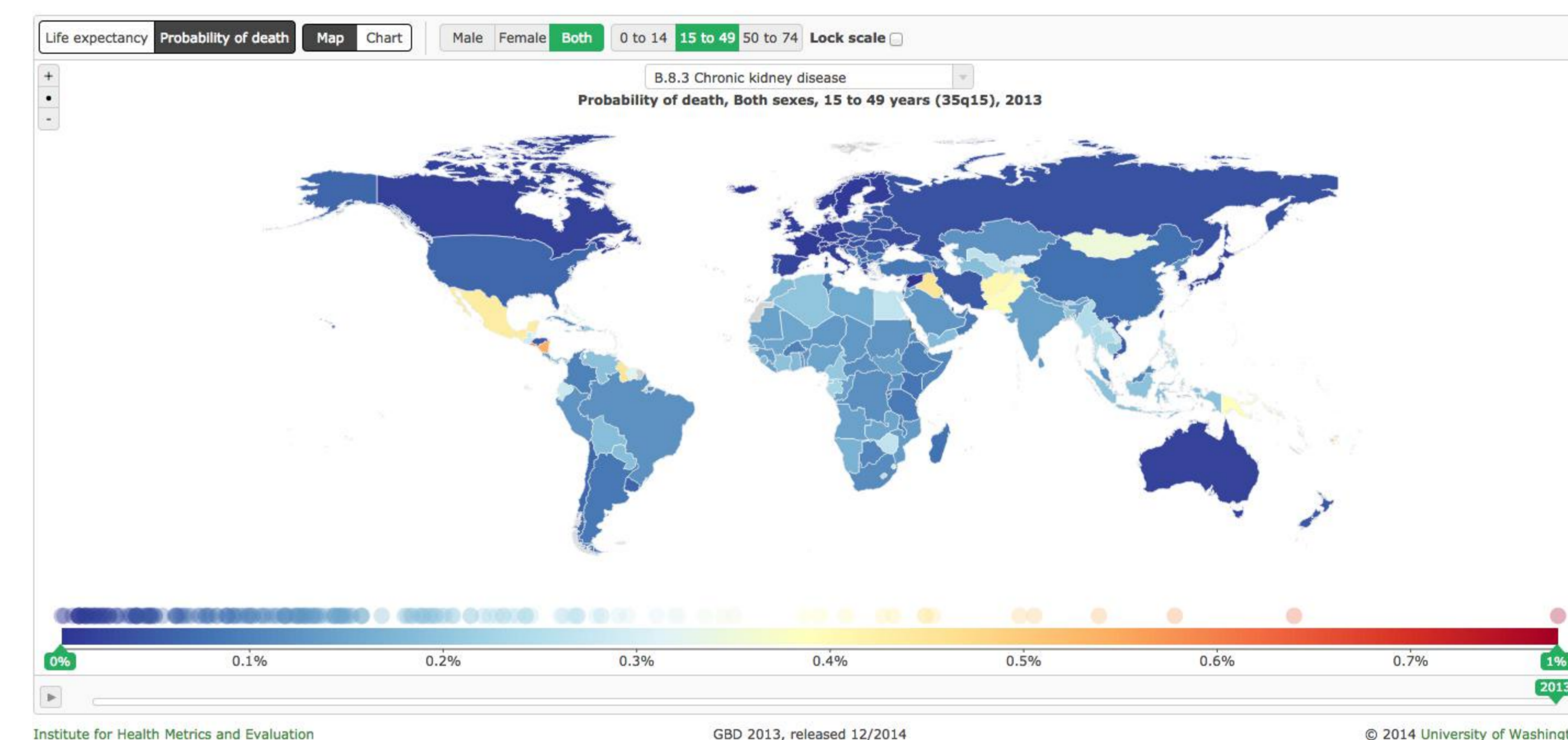


Image 2 : Probability of death from chronic kidney disease among both sexes, ages 15 to 49, 2013

### Results

As the number of people with chronic renal disease rises, there is a strong need for procedures that are less time-consuming, less costly, and non-invasive. The technique is simple to learn and improves nephrology related diseases, hence ultrasonography-mediated diagnosis is becoming more popular.

### Conclusions

Ultrasonography plays a significant part in today's environment, assisting nephrologists in becoming more self-independent, efficient, and cost-effective while improving patient treatment.

Nowadays, more nephrologists are striving to do these procedures. As a consequence, appropriate training in diverse approaches, as well as create recognized certification and teaching programmes, should begin.