

# POCUS vs Manual Pulse Check: Which is Faster & More Accurate?



## SPEED ADVANTAGE

POCUS is 1.39 seconds **FASTER** per pulse check



## SENSITIVITY

POCUS Sensitivity **99%** vs Manual **62%**



## SPECIFICITY

POCUS **96%** vs Manual **91%**

## Comparison



### Manual Palpation

- Slower to assess
- Less reliable pulse detection
- Subject to human error



### POCUS

- Faster assessment time
- Highly accurate and objective
- Improved decision-making

## Study Statistics



7

studies



469

participants



2900+

ultrasound checks



1600+

manual checks



## Clinical Impact

In CPR, every second matters. Even small time reductions improve coronary and cerebral perfusion, potentially improving patient outcomes.



### References

Neto, E. S., Scapin, M., Lazaro-Paulina, F., Campbell, R. L., Molinari, D. F., & Kummer, T. (2025). Duration of resuscitation interruption using point-of-care ultrasound versus traditional manual pulse check: A systematic review and meta-analysis. *The American journal of emergency medicine*, 98, 145–152. <https://doi.org/10.1016/j.ajem.2025.08.049>



Endorsed by  
College of Emergency  
Physicians, Academy  
of Medicine, Malaysia

Infographic by  
Dr Zul Farhan Bin Zulkifli