Performance of automated versus nurse-measured respiratory rate measurements in hospitalized malnourished children

Abstract

In resource limited settings accurate respiratory rate (RR) measurement directly informs medical decision-making for children with respiratory problems. Counting RR remains a challenge: it may not be done or gives rise to highly disparate values despite the use of RR counters. Technological solutions may permit more children to have assessments and may alter clinical decisions. A hand-held pulse oximeter with integrated RR measurement (Rad-G, Masimo, Irvine California) in 97 children reported good agreement between measurements of the device and pediatricians.