

## CLINICAL "SNIPPETS"

**Effect of mattress deflection on CPR quality assessment for older children and adolescents.**

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**Overview:** Appropriate chest compression (CC) depth is associated with improved CPR outcome. CCs provided in hospital are often conducted on a compliant mattress. The objective was to quantify the effect of mattress compression on the assessment of CPR quality in children.

**Conclusions:** Chest compressions conducted on a non-rigid surface may not be deep enough. A force and deflection sensor may overestimate CC depth by 28% on ICU beds, and 10% on stretcher beds.