

Author(s):

Date:

Question: Corrective CPR feedback device compared to no device for BLS/ALS training

Setting:

Bibliography:

Quality assessment							№ of patients		Effect		Quality	Importance
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	corrective CPR feedback device	no device	Relative (95% CI)	Absolute (95% CI)		
Rate (assessed with: Persons who were within guidelines)												
6	randomised trials	serious <u>12</u>	not serious	not serious	not serious	none			OR 4.10 (2.81 to 6.00)	4 fewer per 1000 (from 3 fewer to 6 fewer)	⊕⊕⊕○ MODERATE <u>12</u>	IMPORTANT
Rate (assessed with: Mean compression rate)												
12	randomised trials	not serious	not serious	not serious	not serious	none	634	509	-	MD 2.89 compressions/minute fewer (4.19 fewer to 1.6 fewer)	⊕⊕⊕⊕ HIGH	IMPORTANT
Rate (assessed with: Mean compressions per minute)												
2	randomised trials	serious <u>3</u>	not serious	not serious	not serious	none	45	47	-	MD 7.34 more (2.99 more to 11.69 more)	⊕⊕⊕○ MODERATE <u>3</u>	IMPORTANT
Depth (assessed with: Mean depth of compressions)												
10	randomised trials	serious <u>12</u>	not serious	not serious	not serious	none	614	488	-	MD 0.1 fewer (0.58 fewer to 0.39 more)	⊕⊕⊕○ MODERATE <u>12</u>	IMPORTANT
Depth (assessed with: proportion of subjects within guidelines)												
9	randomised trials	serious <u>12</u>	not serious	not serious	not serious	none			OR 3.47 (2.55 to 4.73)	3 fewer per 1000 (from 3 fewer to 5 fewer)	⊕⊕⊕○ MODERATE <u>12</u>	IMPORTANT
Overall (assessed with: Subjects with correct rate and depth)												
6	randomised trials	serious <u>1234</u>	not serious	not serious	not serious	none			OR 1.33 (0.92 to 1.93)	1 fewer per 1000 (from 1 fewer to 2 fewer)	⊕⊕⊕○ MODERATE <u>1234</u>	IMPORTANT
Hand placement												
8	randomised trials	serious <u>5</u>	not serious	not serious	not serious	none			OR 1.38 (0.88 to 2.15)	1 fewer per 1000 (from 1 fewer to 2 fewer)	⊕⊕⊕○ MODERATE <u>5</u>	IMPORTANT
Recoil												
4	randomised trials	serious <u>1</u>	not serious	not serious	not serious	none			OR 1.06 (0.54 to 2.08)	1 fewer per 1000 (from 1 fewer to 2 fewer)	⊕⊕⊕○ MODERATE <u>1</u>	IMPORTANT
Hands off time (assessed with: seconds)												
3	randomised trials	serious <u>1</u>	not serious	not serious	not serious	none	262	145	-	SMD 0.1 fewer (0.31 fewer to 0.11 more)	⊕⊕⊕○ MODERATE <u>1</u>	IMPORTANT
Skill performance at 1 year rate												

1	randomised trials	very serious	not serious	very serious <u>6</u>	not serious	strong association	48	47	-	MD 530 fewer (11.64 fewer to 1.04 more)	⊕○○○ VERY LOW <u>6</u>	IMPORTANT
Skill performance at 1 year depth												
1	randomised trials	very serious <u>78</u>	not serious	very serious <u>6</u>	not serious	strong association	48	47	-	MD 3.8 more (0.91 more to 6.69 more)	⊕○○○ VERY LOW <u>678</u>	IMPORTANT

MD - mean difference, RR - relative risk

1. Significant differences between testing group and control- Dine
2. Loss of follow-up in Dine
3. Loss of data in Spooner
4. Possible selective reporting in Sutton
5. Loss of data in Fisher
6. Significant dose bias and indirect to clinical question
7. Significant loss to follow-up
8. Possible selection bias