**Question:** Amongst healthcare providers and lay providers, does the use of CPR Feedback devices during training, compared with no CPR feedback device, improved quality of CPR?

| **Certainty assessment** | **№ of patients** | **Effect** | **Certainty** | **Importance** |
| --- | --- | --- | --- | --- |
| **№ of studies** | **Study design** | **Risk of bias** | **Inconsistency** | **Indirectness** | **Imprecision** | **Other considerations** | **CPR Feedback device used during resuscitation training** | **No CPR feedback device used during resuscitation training** | **Relative(95% CI)** | **Absolute(95% CI)** |
| **Mean compression depth** |
| 15 | randomised trials | Serious a | Serious b | not serious | not serious | strong association | 1996 | 2189 | - | SMD **0.76 SD higher**(0.02 higher to 1.50 higher) | ⨁⨁⨁◯Moderate a,b | IMPORTANT |
| **Depth compliance (Percentage of compression depth meeting guidelines)** |
| 16 | randomised trials | Serious a | Serious b | not serious | not serious | very strong association | 2032 | 2272 | - | SMD **0.98 SD higher**(0.10 higher to 1.87 higher) | ⨁⨁⨁⨁High a,b | IMPORTANT |
| **Mean compression rate** |
| 17 | randomised trials | Serious a | not serious | not serious | not serious | none | 2041 | 2286 | - | SMD **0.29 SD lower**(0.49 lower to 0.10 lower) | ⨁⨁⨁◯Moderate a | IMPORTANT |
| **Rate compliance (percentage of compression rate meeting guidelines)** |
| 9 | randomised trials | Serious c | not serious  | not serious | not serious | none | 445 | 460 | - | SMD **0.44 SD higher**(0.23 higher to 0.66 higher) | ⨁⨁⨁◯Moderate c | IMPORTANT |
| **Recoil compliance (percentage of compression with complete recoil)** |
| 10 | randomised trials | Serious c | not serious  | not serious | not serious | none | 1909 | 2035 | - | SMD **0.53 SD higher**(0.31 higher to 0.75 higher) | ⨁⨁⨁◯Moderate c | IMPORTANT |
| **Overall compression quality (assessed with: Computer software)** |
| 8 | randomised trials | not serious | Serious b | Serious d | not serious | strong association | 1574 | 1687 | - | SMD **0.71 SD higher**(0.40 higher to 1.03 higher) | ⨁⨁⨁◯Moderate b,d | IMPORTANT |
| **Overall Excellent Compression (depth, rate, and recoil all meeting guideline)** |
| 3 | randomised trials | not serious | not serious | not serious | not serious | none | 84/171 (49.1%)  | 57/178 (32.0%)  | not estimable | **19 more per 100**(from 1 more to 38 more) | ⨁⨁⨁⨁High | IMPORTANT |

**CI:** confidence interval; **SMD:** standardised mean difference

#### Explanations

a. 2 studies with serious risk of bias concerns.

b. High heterogeneity

c. 1 study with serious risk of bias concern

d. Lack of strong validity evidence for the outcome measure