

Cardiopulmonary Resuscitation: Comparison of Age Groups

| Maneuver | Adult Lay rescuer: ≥8 years HCP: Adolescent and older | Child Lay rescuers: 1 to 8 years HCP: 1 year to adolescent | Infant Under 1 year of age |
|---|---|---|---|
| Airway | Head tilt–chin lift (HCP: suspected trauma, use jaw thrust) | | |
| Breathing Initial | 2 breaths at 1 second/breath | 2 effective breaths at 1 second/breath | |
| HCP: Rescue breathing without chest compressions | 10 to 12 breaths/min (approximate) | 12 to 20 breaths/min (approximate) | |
| HCP: Rescue breaths for CPR with advanced airway | 8 to 10 breaths/min (approximately) | | |
| Foreign-body airway obstruction | Abdominal thrusts | | Back slaps and chest thrusts |
| Circulation HCP: Pulse check (≤10 sec) | Carotid | | Brachial or femoral |
| Compression landmarks | Lower half of sternum, between nipples | | Just below nipple line (lower half of sternum) |
| Compression method Push hard and fast Allow complete recoil | Heel of one hand, other hand on top | Heel of one hand or as for adults | 2 or 3 fingers HCP (2 rescuers): 2 thumb–encircling hands |
| Compression depth | 1½ to 2 inches | Approximately one third to one half the depth of the chest | |
| Compression rate | Approximately 100/min | | |
| Compression-ventilation ratio | 30:2 (one or two rescuers) | 30:2 (single rescuer) HCP: 15:2 (2 rescuers) | |
| Defibrillation AED | Use adult pads Do not use child pads | Use AED after 5 cycles of CPR (out of hospital). Use pediatric system for child 1 to 8 years if available HCP: For sudden collapse (out of hospital) or in-hospital arrest use AED as soon as available. | No recommendation for infants <1 year of age |

Note: Maneuvers used by only Healthcare Providers are indicated by "HCP."

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