

# COMPARISON OF MANUAL CPR TO LIFE-STAT™ CPR

QUALITY CPR REQUIREMENTS	MANUAL CPR	LIFE-STAT™ CPR
Compression depth 1.5 inches	Difficult to perform well	Exact depth can be set
Full chest release	Difficult to perform well	Active full chest release - demonstrated synergy with ITD and ITPR technology to increase cardiac output
30:2 Mode - facemask ventilation	Difficult to perform, must count to 30, give two breaths	Exact, hands-free, automatic
Continuous CPR - advanced airway	Takes two rescuers, one does compressions at rate of 100/min, one does ventilation at rate of 8 to 10/min	Exact, hands-free automatic. Rescuers freed to do other tasks
Keep performing as long as required	AHA states rescuers fatigue after only one minute compromises quality of CPR	Can provide exact AHA CPR for as long as needed. Rescuers freed to do other tasks
Provide defibrillator shock	Rescuer must stand clear	Provides CPR during and after shock delivered
Perform CPR while patient is being carried to emergency vehicle	Requires at least 3 rescuers and chest compressions are usually ineffective because of movement and awkward angle	Requires only two rescuers to carry patient. Fully effective CPR is provided hands-free
Perform CPR while patient is on spine board going up or down stairs	Requires at least 3 rescuers and chest compressions are usually ineffective because of movement and awkward angle	Requires only two rescuers to carry patient. Fully effective CPR is provided hands-free
Read ECG	Stop CPR	With properly placed electrodes, ECG can often be read while CPR is applied. Can be used with ECG monitors utilizing CPR artifact signal averaging
Perform CPR in emergency vehicle	Requires at least one rescuer who is then not strapped in for 30:2 mode and may require 2 rescuers not strapped in for continuous CPR	Provides hands-free CPR in either 30:2 or continuous mode so rescuers can strap in or provide other treatment
Maintain coronary perfusion pressure (CPP) > 15 mm HG	Virtually impossible	Studies show LIFE-STAT™ piston action provides CPP significantly above 15 mm HG



**888.522.5574**

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