Montgomery County Fire and Rescue Service

Fire Chief's General Order

NUMBER: 14-05
April 7, 2014

TO: **All MCFRS Personnel**

FROM: **Fire Chief Steven E. Lohr**

SUBJECT: **High Performance CPR**

High Performance CPR (HPCPR) is to be used on all attempted resuscitations for patients in cardiac arrest responded to by MCFRS personnel.

The Training Academy will provide the required guidelines for HPCPR in its initial and recertification programs.

After patient care is completed, the Code Summary from the LP15 must be transmitted to CODESTAT for HPCPR analysis and Quality Improvement review. Data Transfer is accomplished via the LifePak digital modem by selecting Report: All and Site: CODESTAT MCFRS on the transmit menu of the Lifepak. The ALS provider in charge of the call is responsible for this upload as well as uploading the ECG(s) to the ePCR or eMEDs report. This must be done after each attempted resuscitation regardless of whether the patient was transported to the hospital.

Feedback will be provided to personnel by the EMS Section via the EMS Duty Officers. Provider feedback will include the compression rate and the "Compression Ratio," which is the percentage of time the crew did HPCPR, compared to the total time available to do HPCPR during the resuscitation. The feedback will be provided constructively to allow crews the ability to evaluate their performance and improve it.

Remember, the goal is to provide:
- HPCPR during 95% of each two-minute cycle
- chest compressions at a rate between 100 - 120 compressions/minute.

Any questions should be directed to Assistant Chief Barry Reid at
barry.reid@montgomerycountymd.gov
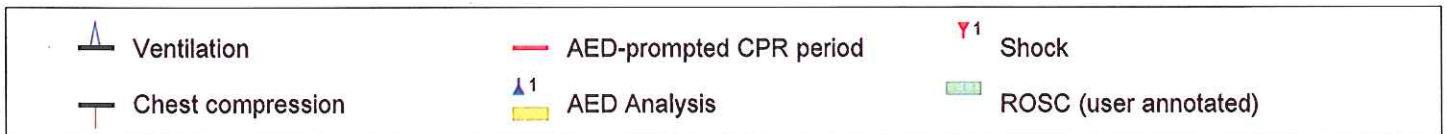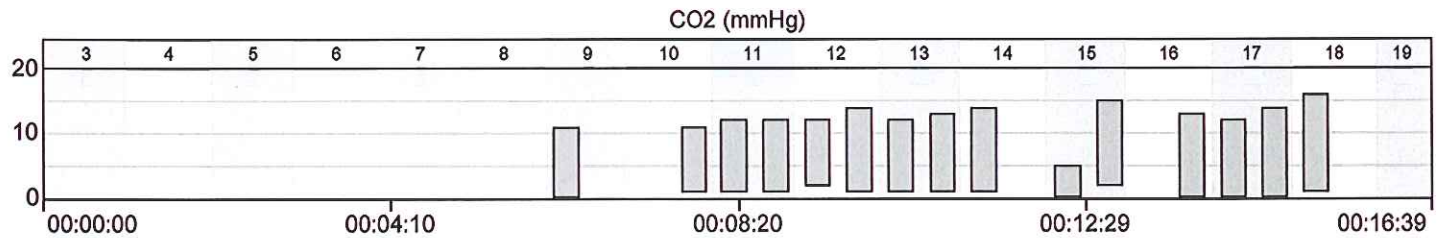
Attachment: CPR Feedback form

Sample **CPR** Feedback **Report**

PHYSIO CONTROL	Device Type: LIFEPAK 15 Power On: Redacted CPR Annotations Edited: No Device Configuration: *Times have been adjusted by the system	Duration: 00:40:14 Incident ID: redacted Statistical Parameters: 1000-0300-3000-05	

CPR Ratio (/total time)

14:52 / 16:29 = 90 %

Prompted CPR Ratio (/AED-prompted CPR time)

--

Compressions Ratio (/total time)

14:20 / 16:29 = 87 %

Prompted Compressions Ratio (/AED-prompted CPR time)

--

Compression Rate

105/minute

Compressions/minute

87/minute

Ventilation Rate

--

Ventilations/minute

--

Initial Rhythm

x1.0 25mm/sec

CO2 (mmHg)

⋀ Ventilation	— AED-prompted CPR period	⊻ 1 Shock	
— Chest compression	⊼ 1 AED Analysis	▭ ROSC (user annotated)	

CPR Report

PHYSIO CONTROL
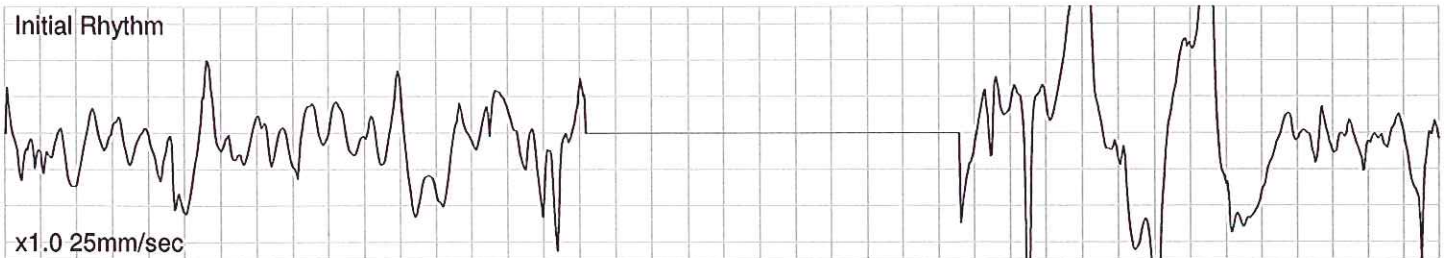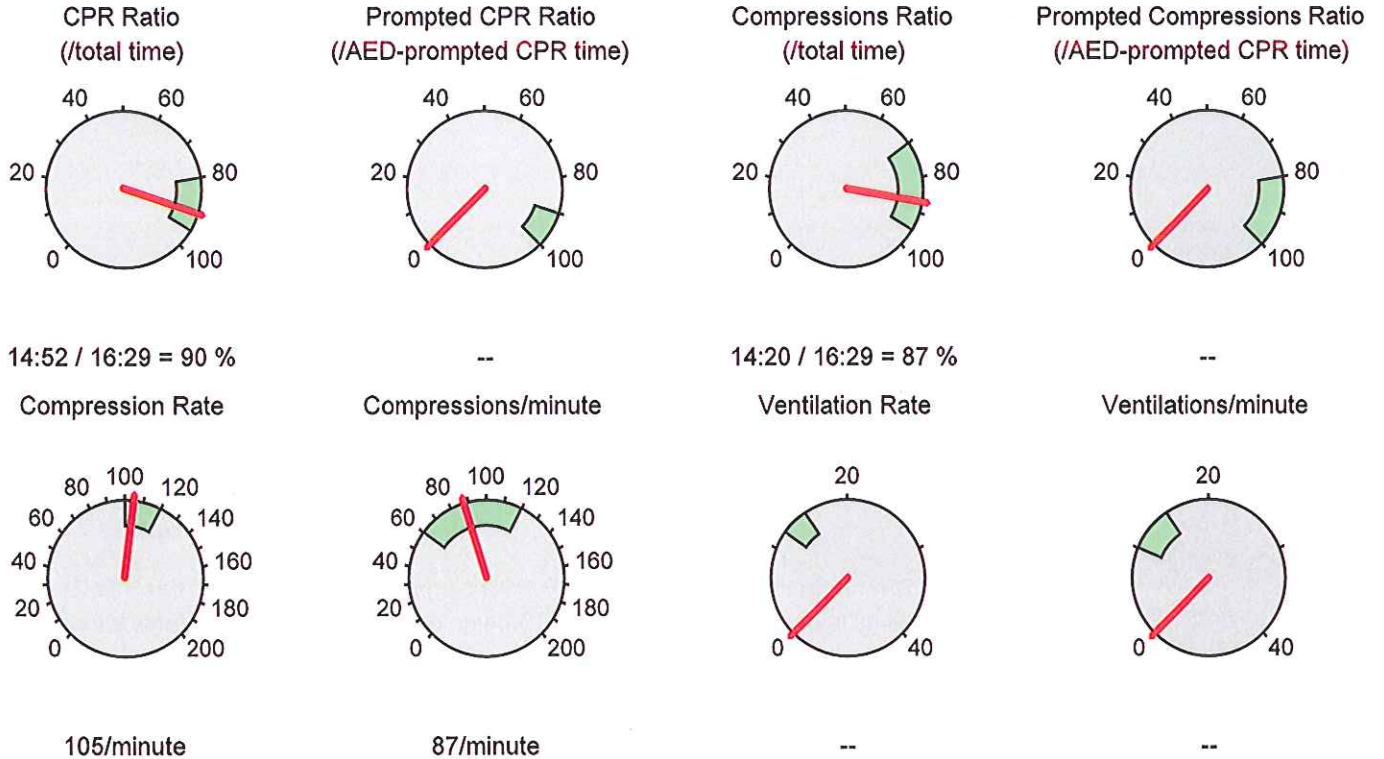
Device Type:	LIFEPAK 15
Power On:	
CPR Annotations Edited:	No
Device Configuration:	

*Times have been adjusted by the system

Duration:	00:40:14
Incident ID:	
Statistical Parameters:	1000-0300-3000-05

CPR QUIK-VIEW

Interval Statistics

Time	CPR Ratio, %	Prompt. CPR Ratio, %	Compr. Ratio, %	Prompt. Compr. Ratio, %	Compr. Rate	Compr. /min	Vent. Rate	Vent. /min
-2:00	--	--	--	--	--	--	--	--
-1:00	--	--	--	--	--	--	--	--
0:00	93	--	93	--	104	95	--	--
1:00	100	--	100	--	105	103	--	--
2:00	83	--	83	--	104	77	--	--
3:00	80	--	74	--	105	74	--	--
4:00	100	--	96	--	105	93	--	--
5:00	100	--	100	--	104	104	--	--
6:00	71	--	71	--	104	70	--	--
7:00	89	--	78	--	103	76	--	--
8:00	100	--	100	--	104	99	--	--
9:00	100	--	96	--	105	100	--	--
10:00	91	--	91	--	105	94	--	--
11:00	93	--	93	--	106	97	--	--
12:00	74	--	74	--	106	72	--	--
13:00	84	--	76	--	106	76	--	--
14:00	100	--	100	--	111	108	--	--
15:00	100	--	91	--	103	81	--	--
16:00	68	--	49	--	122	54	--	--

Shock	Time	Energy	Pre-shock CPR Pause	Post-shock CPR Pause
1	3:31	200J	0:11	0:04
2	6:57	300J	0:17	0:11
3	13:08	360J	0:25	0:04