CPR Process

THE NUTS AND BOLTS

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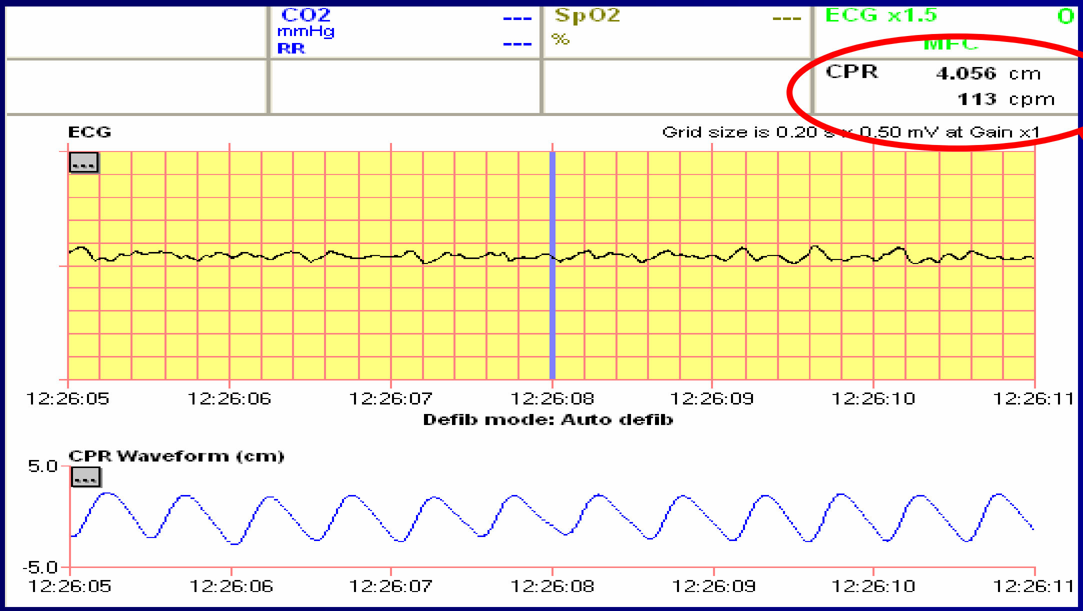
What is CPR Process



Compression Rate

Compression Depth

- Ability to measure parameters stressed in 2005 AHA guidelines

- Once measured, attempt to determine whether parameters impact both CPR performance and survival

Key Parameters Captured

Minute	Sec. w/c Comp.	Vents	Vents Imped	Vents etCO2	Comp. Count	Comp. Rate	Comp. Fraction	Unanl. Sec.	Mean Comp. Depth	Comp. in Target	Mean CO2
1	21	0	4	0	76	116	65.00 %	0	4.13	100.00 %	0.00
2	8	0	0	0	100	115	86.67 %	0	4.12	100.00 %	0.00
3	19	0	2	0	83	121	68.33 %	1	4.36	97.59 %	0.00
4	24	0	5	0	65	108	60.00 %	0	4.05	93.85 %	0.00
5	41	0	5	0	40	126	31.67 %	1	4.05	100.00 %	0.00
6	27	0	5	0	54	98	55.00 %	0	4.50	72.22 %	0.00

Ventilations

Compressions in one minute Epoch

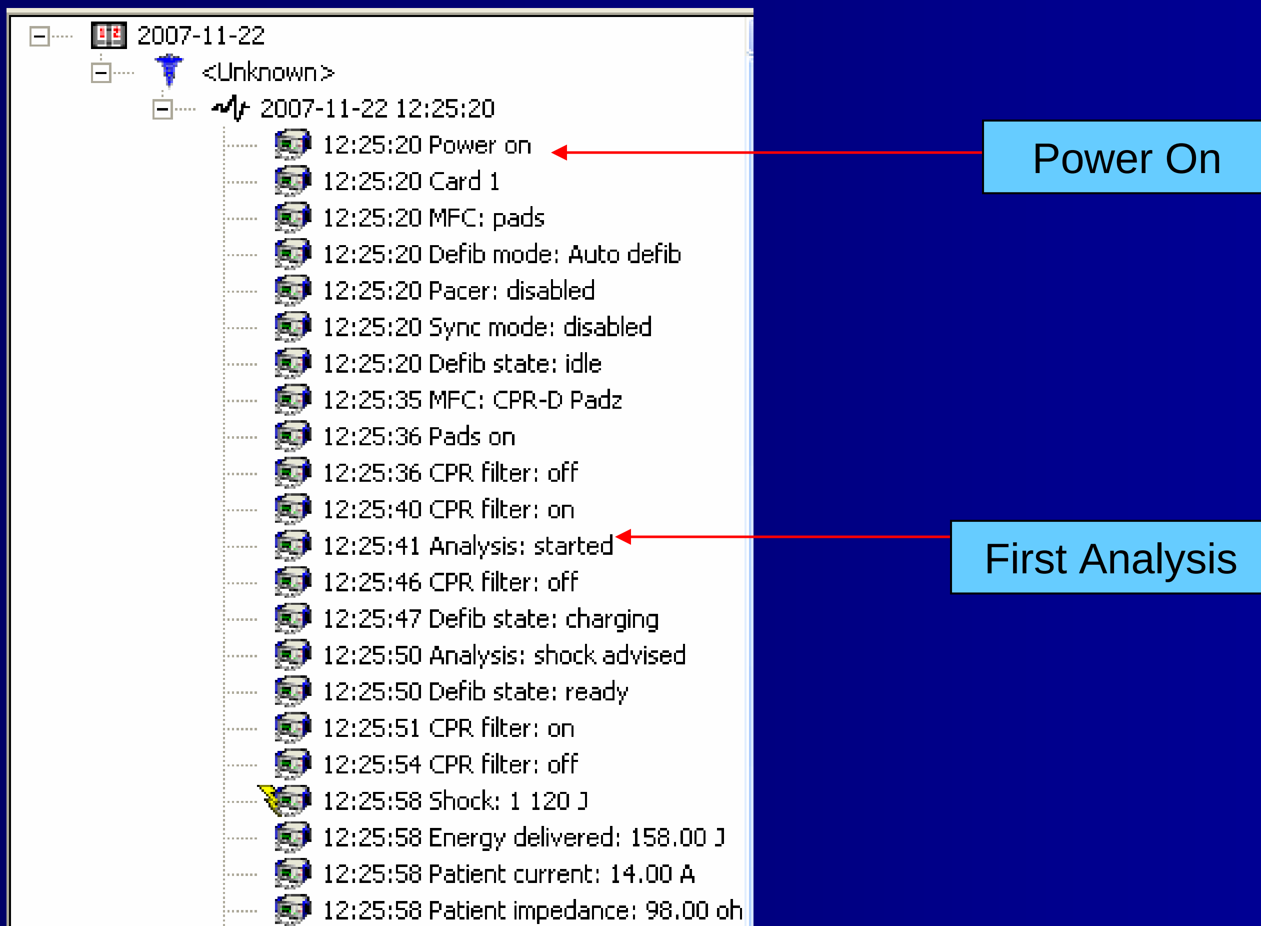
Compression Rate

CPR Fraction

Mean Compression Depth

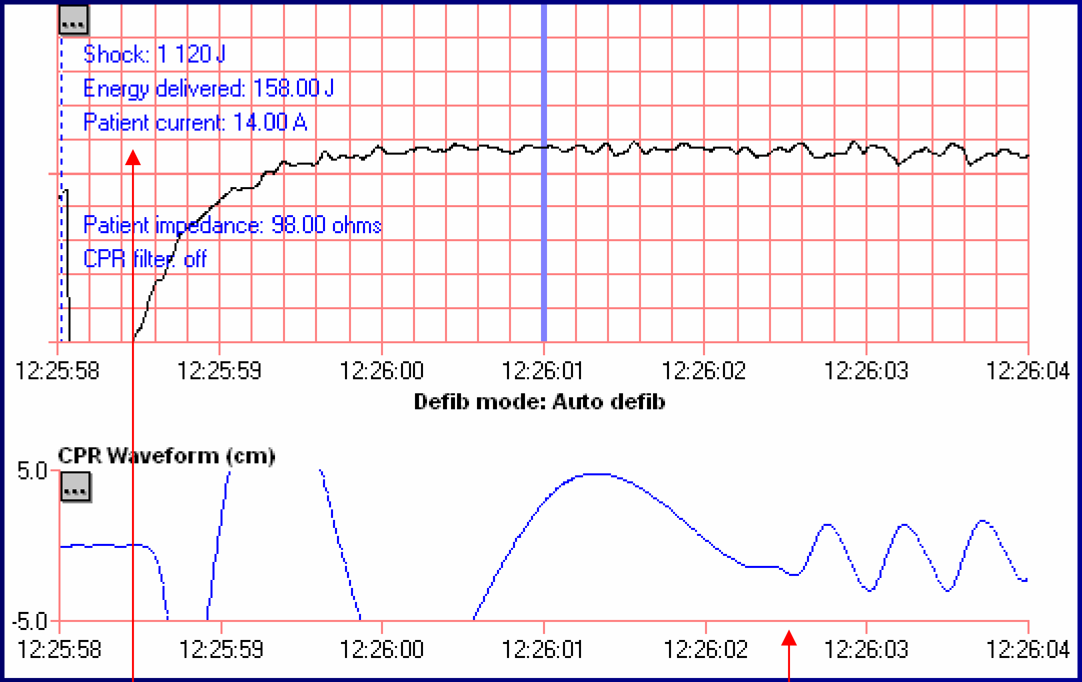
My Key Parameters

Time to Analysis: Power on to first Analysis



My Key Parameters

CPR Post Shock: Time to compressions after shock



shock delivered

compressions continued

My Key Parameters

COMPLIANCE WITH PROTOCOL

→Length of CPR between Analyses

→CPR time post shock

→Ventilation rate

All useless if can't capture CPR process

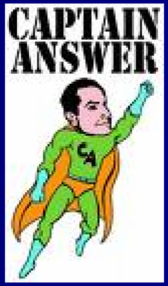
Must be able to capture CPR process by:

- →Data Card
- →USB Key
- →Serial Port
- →Wireless

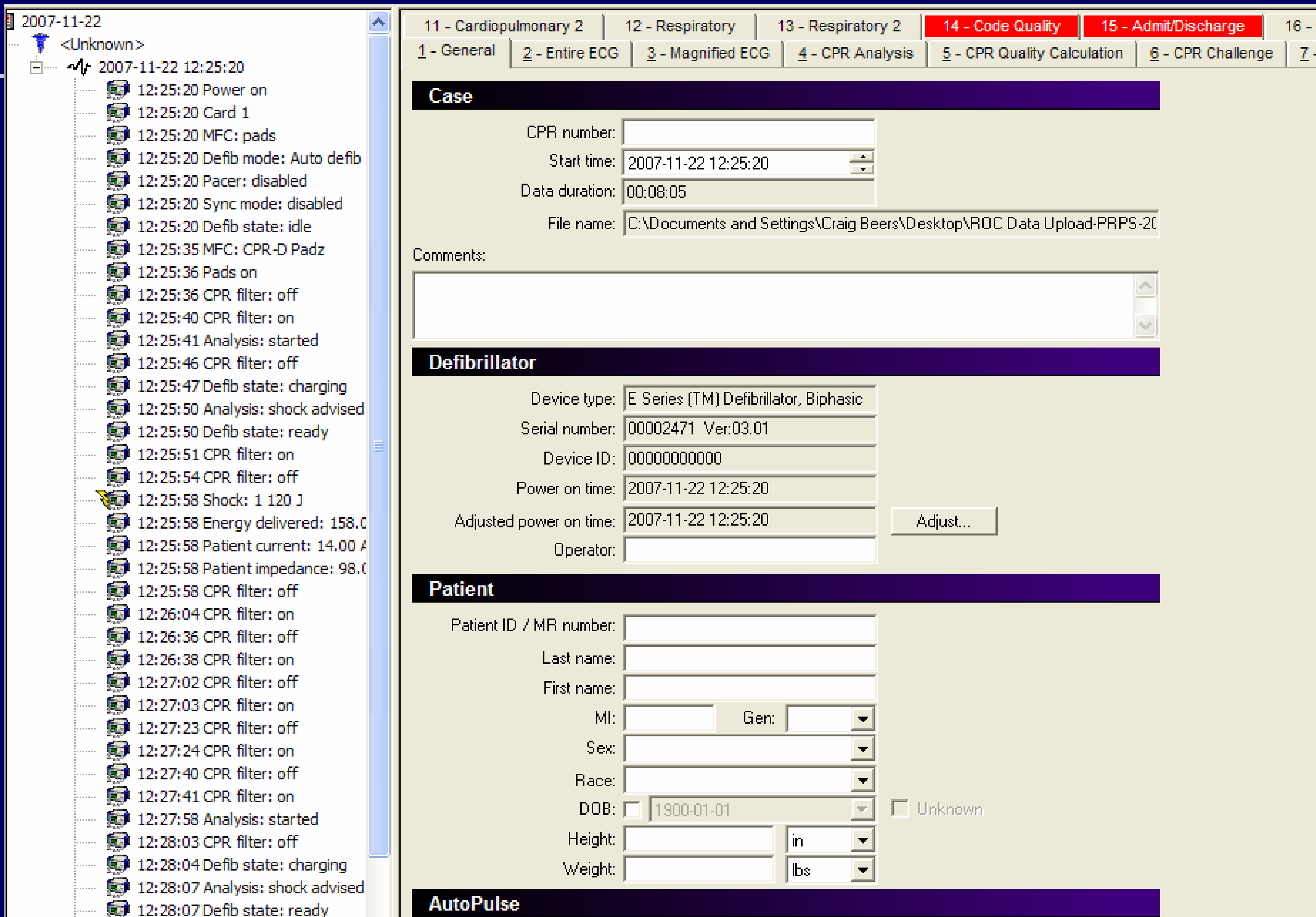
Data capture must be reliable over time

Zoll Software and CPR Process

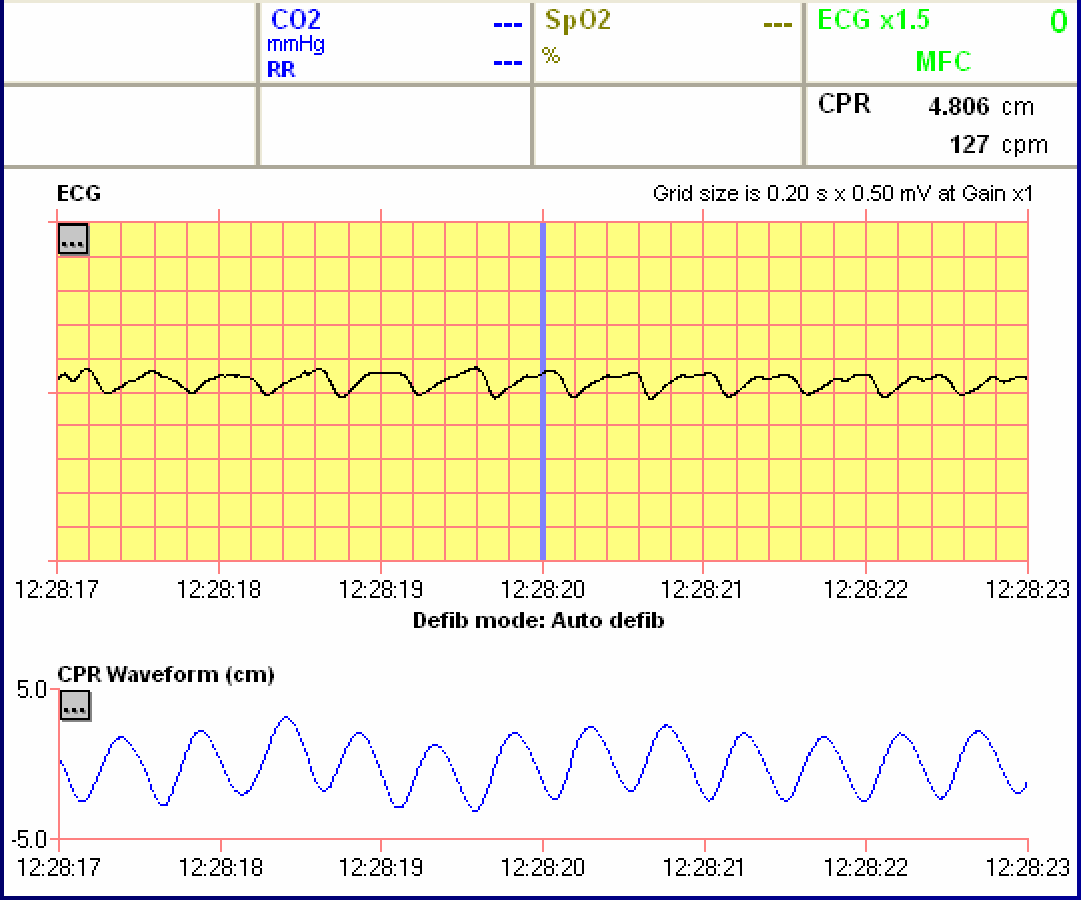
- Where do we find our answers?



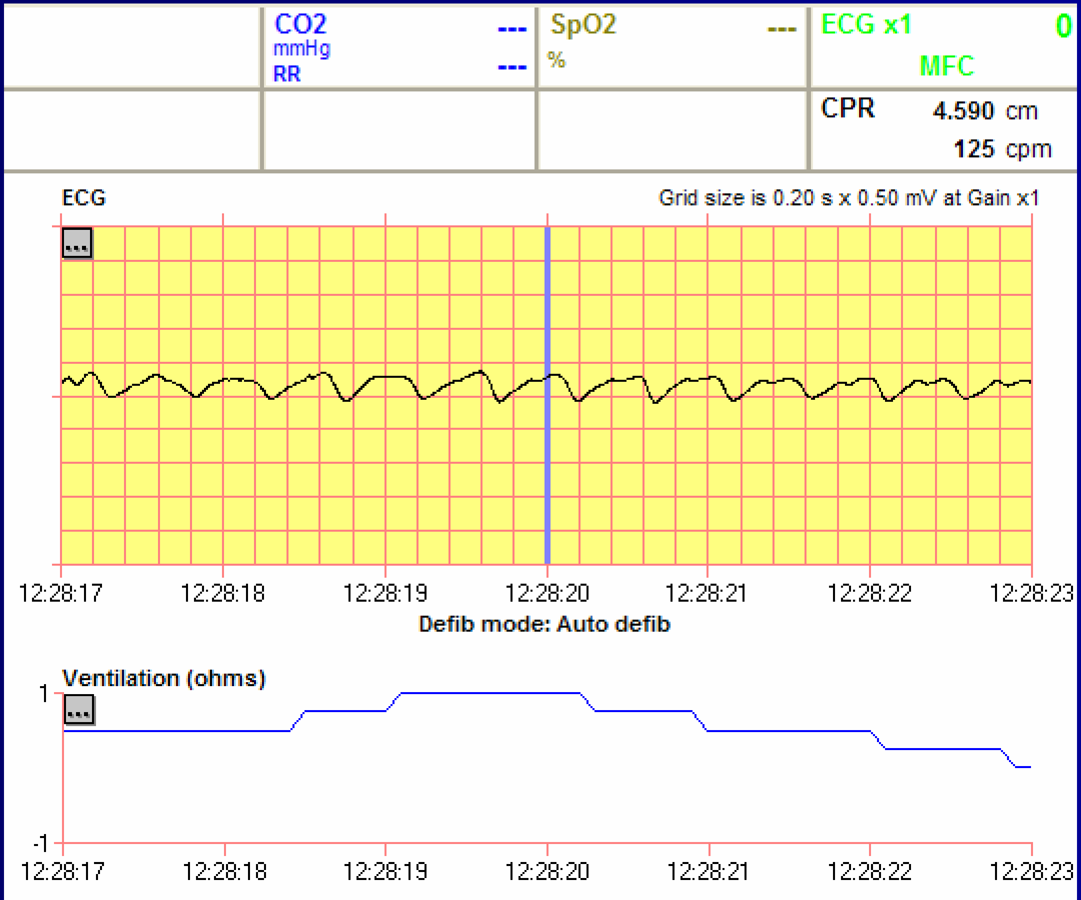
Start Point : The General Tab

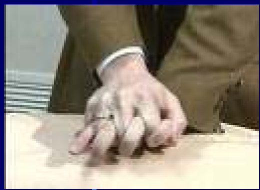


Magnified ECG and CPR Waveform

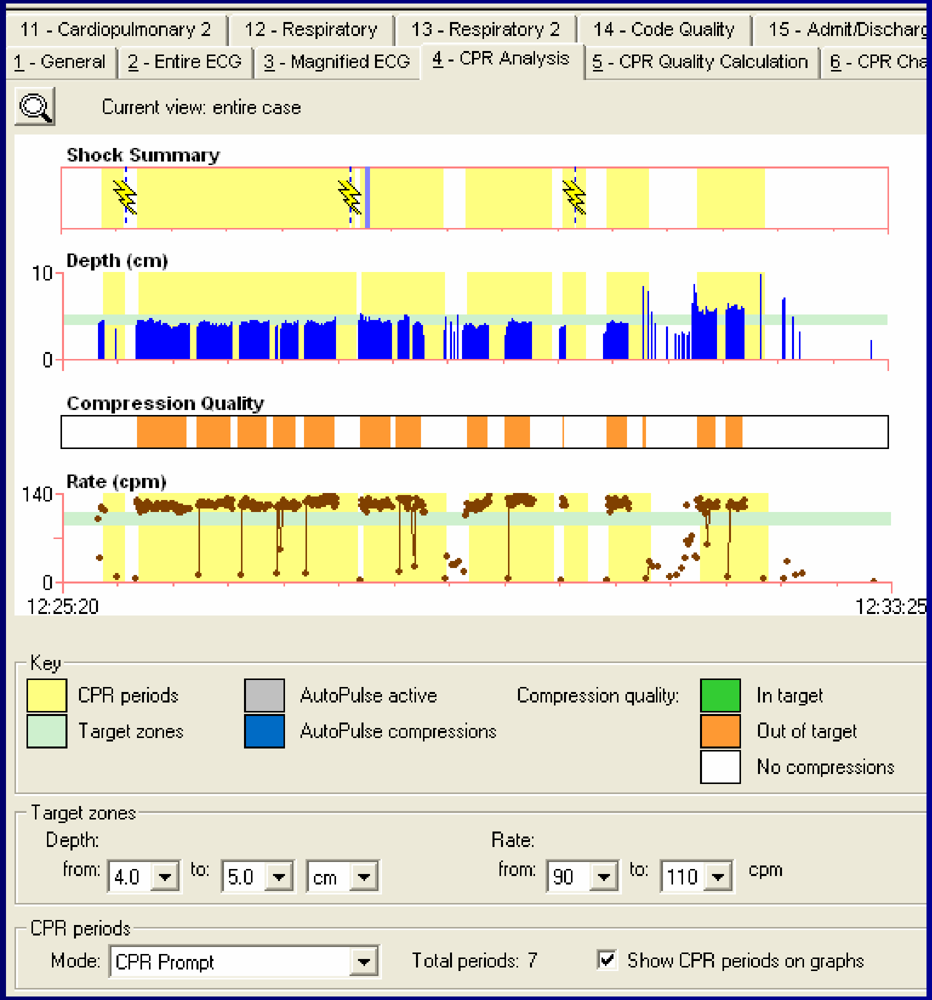


Magnified ECG and Ventilations





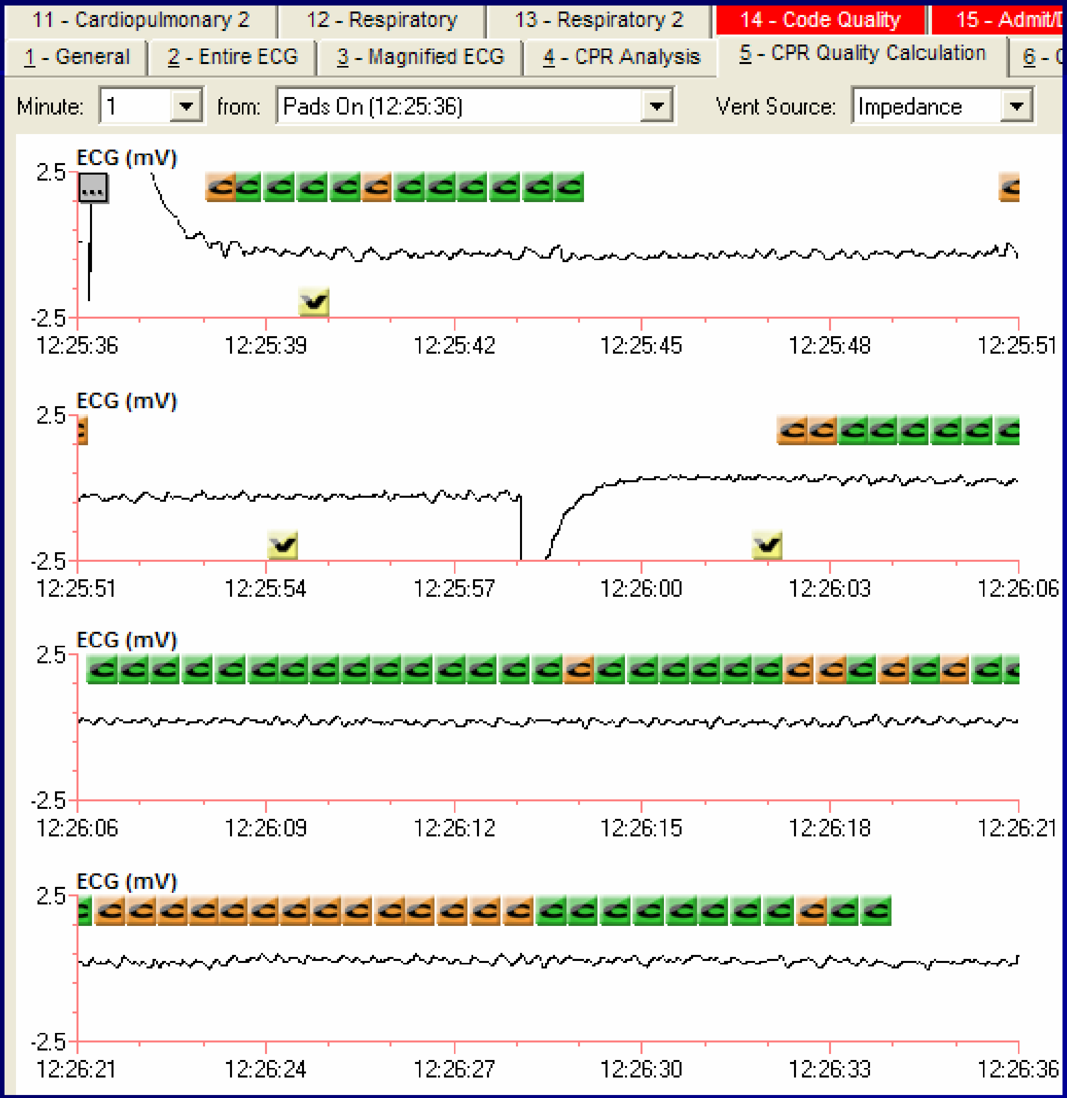
CPR Analysis



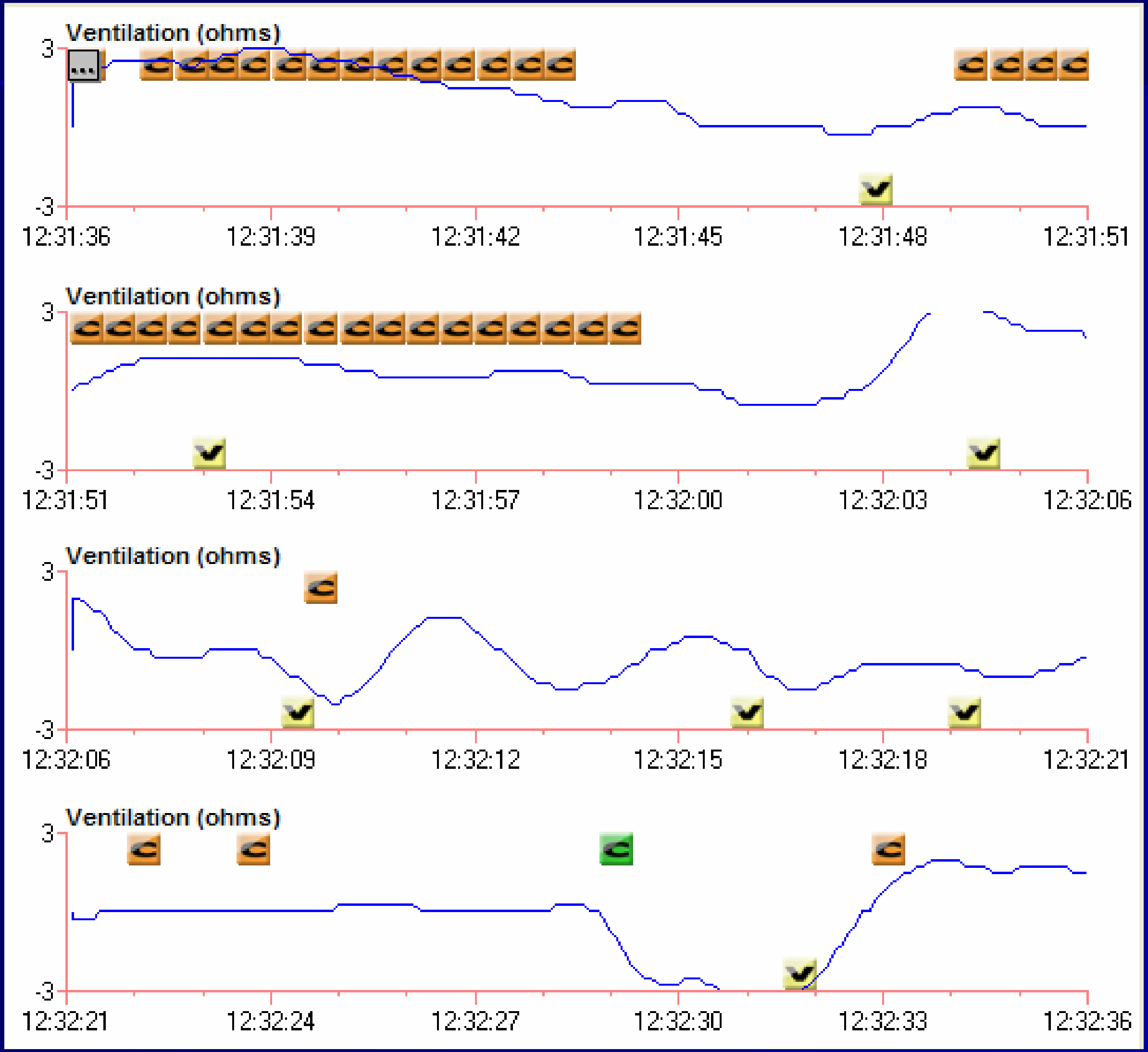
CPR Quality Calculation

Where the answers lie

CPR Quality Calculation



CPR Quality Calculation



CPR Performance Summary

Minute	Sec. w/c Comp.	Vents	Vents Imped	Vents etCO2	Comp. Count	Comp. Rate	Comp. Fraction	Unanl. Sec.	Mean Comp. Depth	Comp. in Target	Mear CO2
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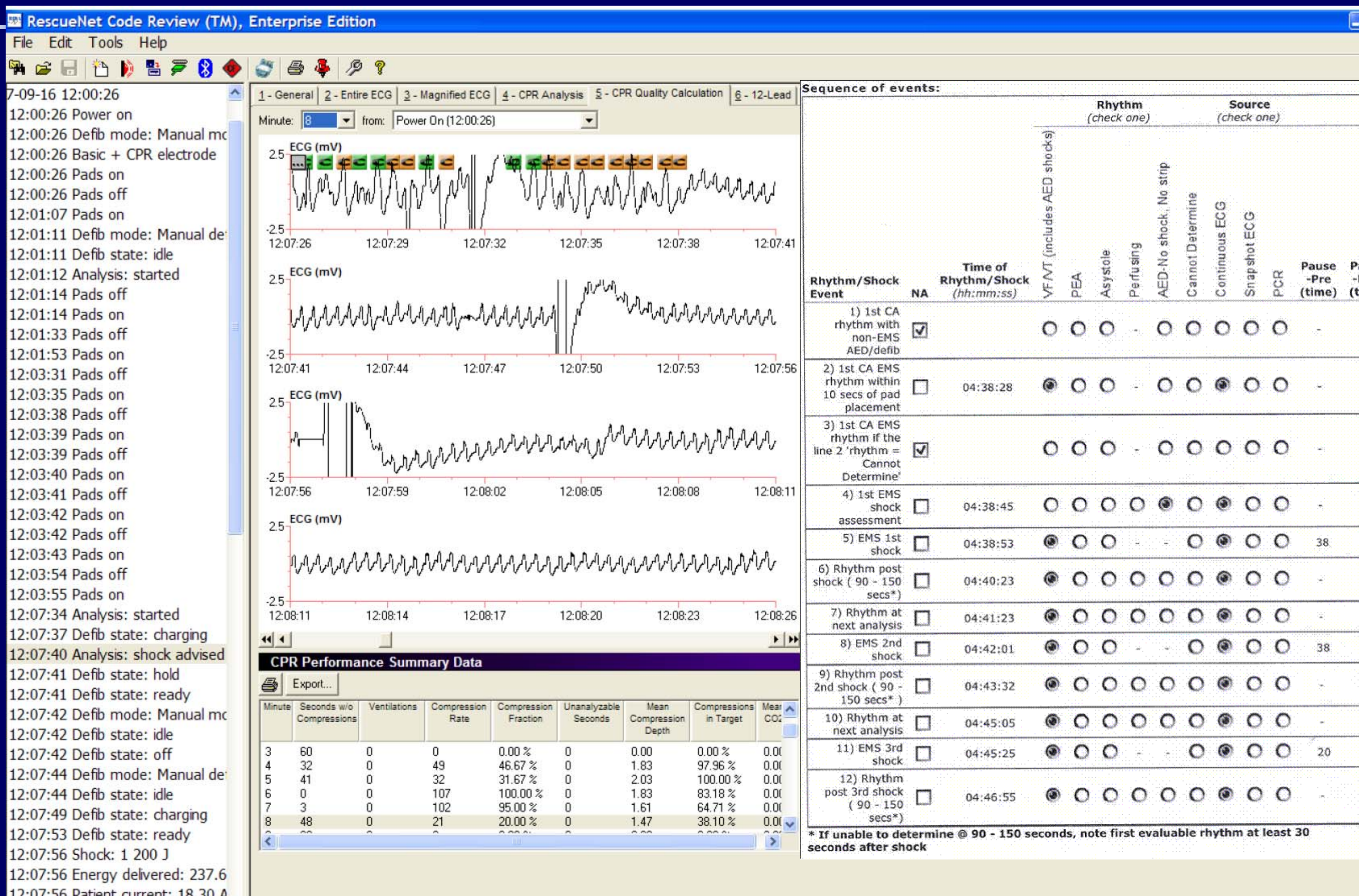
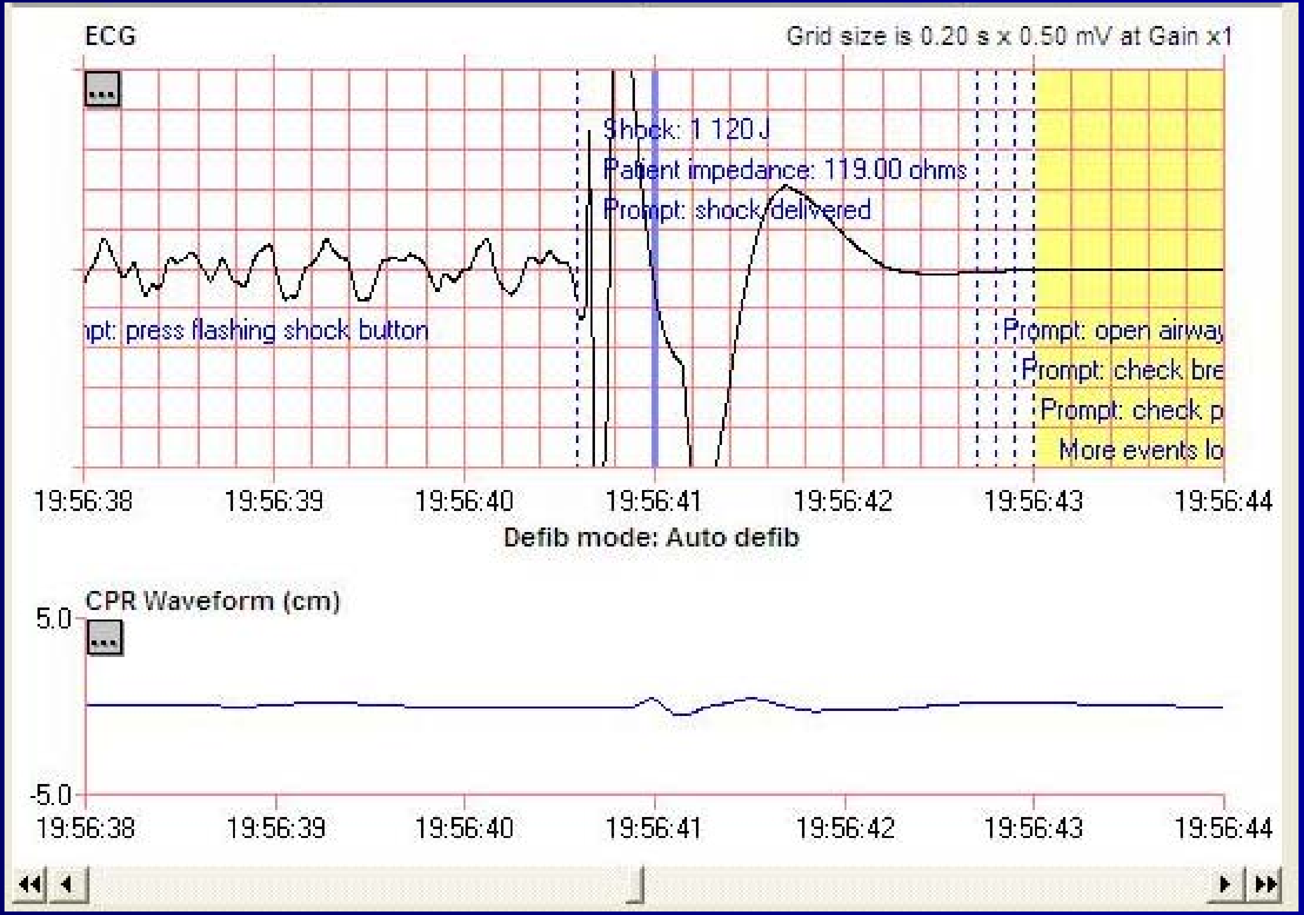
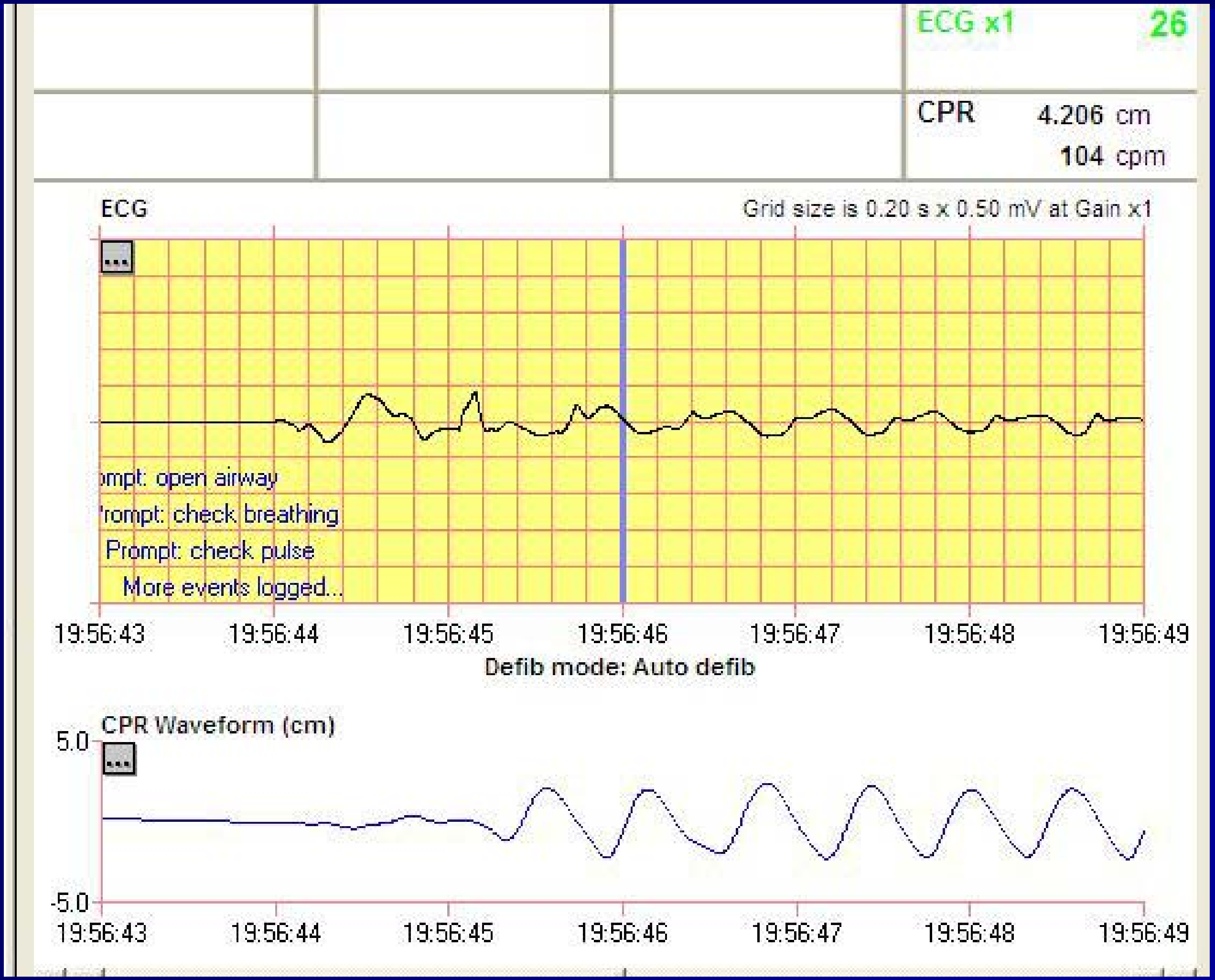
The future of CPR Process and ROC PRIMED

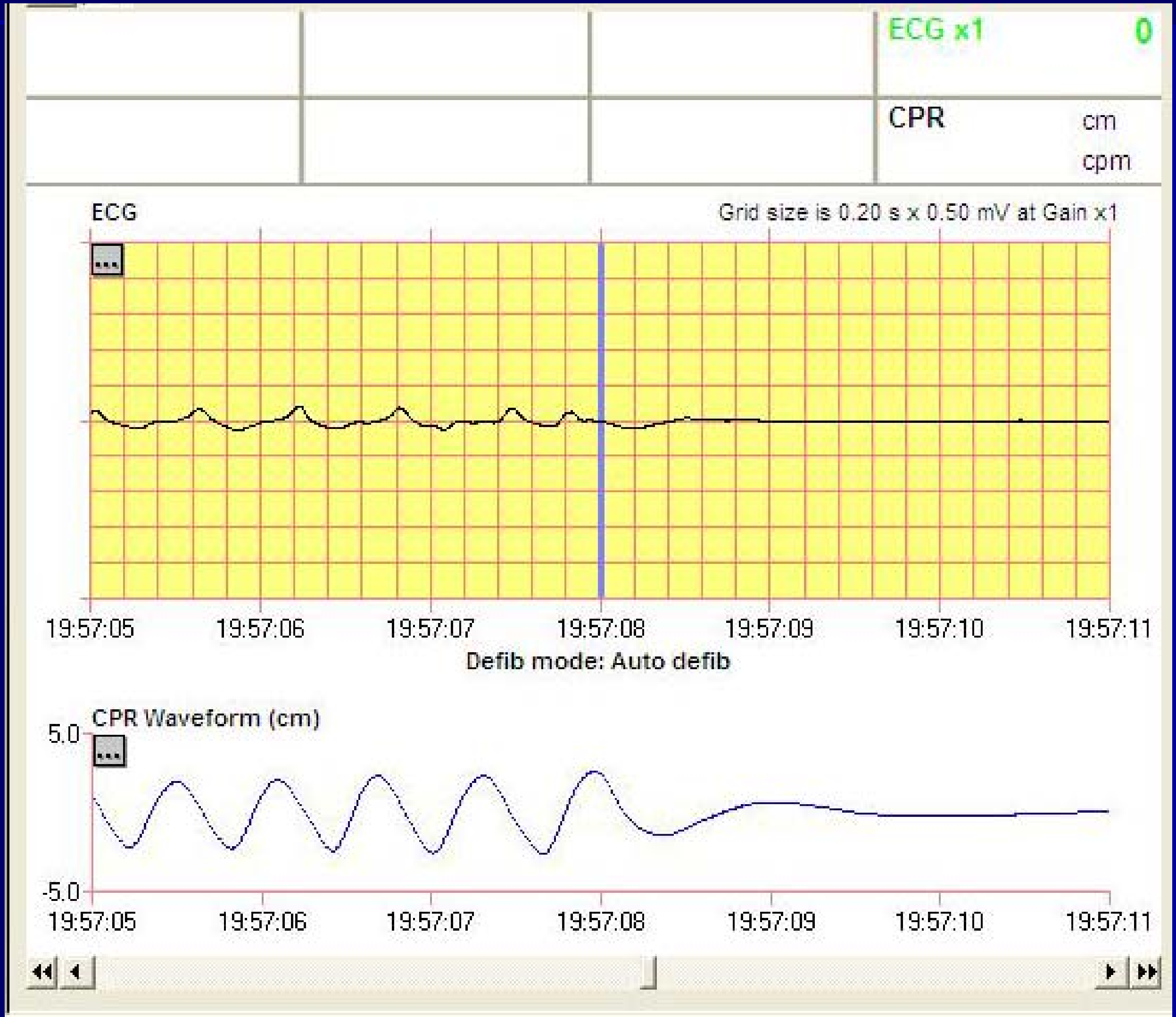


Putting it all together

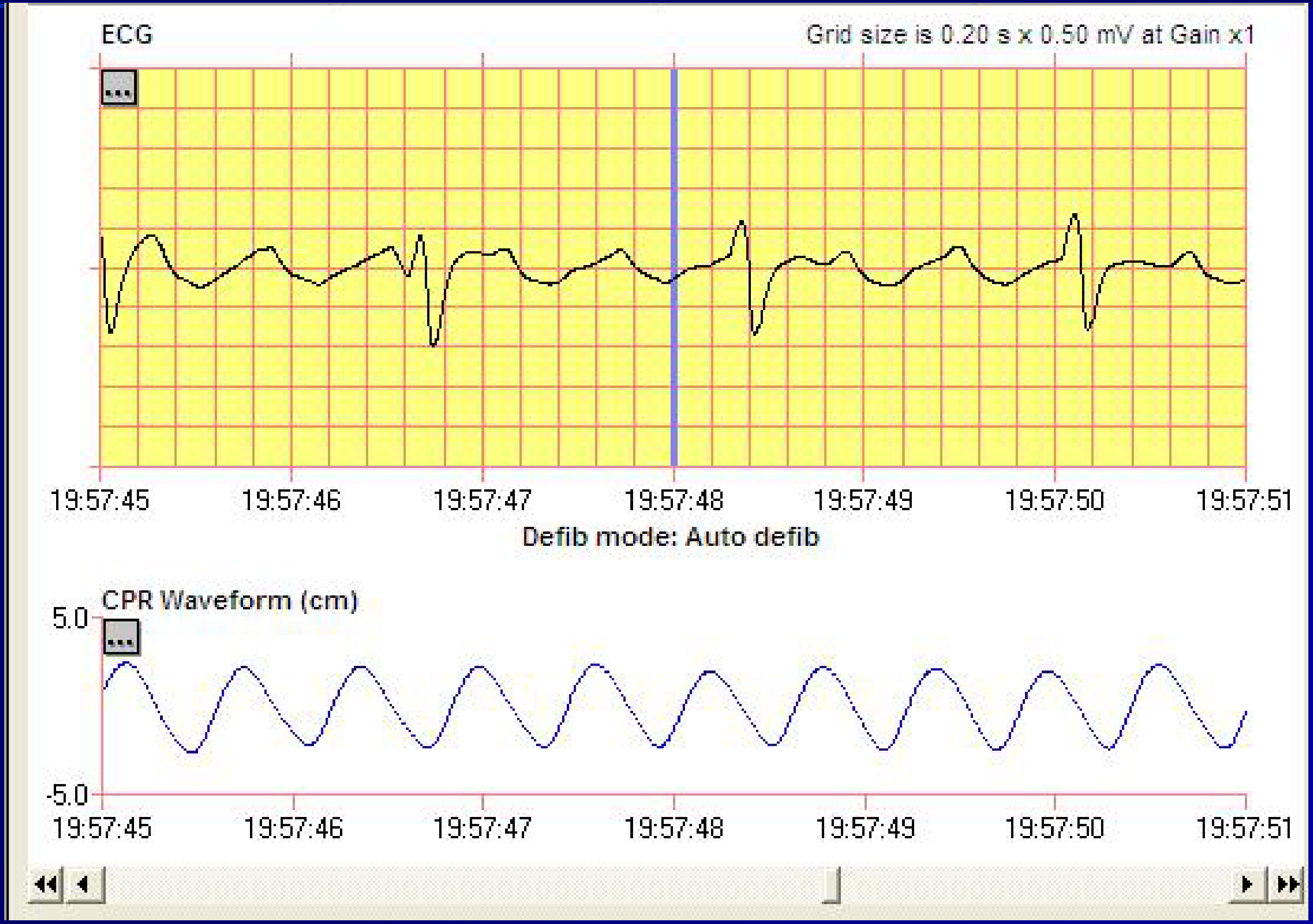
What does a SAVE look like in CPR process?


ECG
Grid size is 0.20 s x 0.50 mV at Gain x1
Shock: 1 120 J
Patient impedance: 119.00 ohms
Prompt: shock delivered
npt: press flashing shock button
Prompt: open airway
Prompt: check bre
Prompt: check p
More events lo
19:56:38
19:56:39
19:56:40
19:56:41
19:56:42
19:56:43
19:56:44
Defib mode: Auto defib
CPR Waveform (cm)
5.0
-5.0
19:56:38
19:56:39
19:56:40
19:56:41
19:56:42
19:56:43
19:56:44


ECG x1
26
CPR
4.206 cm
104 cpm
ECG
Grid size is 0.20 s x 0.50 mV at Gain x1
mpt: open airway
rompt: check breathing
Prompt: check pulse
More events logged...
19:56:43
19:56:44
19:56:45
19:56:46
19:56:47
19:56:48
19:56:49
Defib mode: Auto defib
CPR Waveform (cm)
5.0
-5.0
19:56:43
19:56:44
19:56:45
19:56:46
19:56:47
19:56:48
19:56:49



ECG x1
0
CPR
cm
cpm
ECG
Grid size is 0.20 s x 0.50 mV at Gain x1
19:57:05
19:57:06
19:57:07
19:57:08
19:57:09
19:57:10
19:57:11
Defib mode: Auto defib
CPR Waveform (cm)
5.0
-5.0
19:57:05
19:57:06
19:57:07
19:57:08
19:57:09
19:57:10
19:57:11


ECG
Grid size is 0.20 s x 0.50 mV at Gain x1
19:57:45
19:57:46
19:57:47
19:57:48
19:57:49
19:57:50
19:57:51
Defib mode: Auto defib
CPR Waveform (cm)
5.0
-5.0
19:57:45
19:57:46
19:57:47
19:57:48
19:57:49
19:57:50
19:57:51

Thank you!

Questions?