

Jackson County Fire EMS Agencies Standing Orders

July 2019 Update Proposals

Multiple Xs mean protocol in somewhat final form
 ___ Single X under Proposed means still under consideration or review

	P r o p o s e d	W r i t t e n	Responsible Person
Separate HazMat section	X		
Administrative Rules			
G – Documentation – edit language	X		
J – Ambulance Response – edit language	X		
K- CQI – remove “radio”	X		
P – Equipment List ?	X		
R – EMS Abbreviations VAD – Ventricular Assist Device	X	X	
T – DEA Controlled Substances – Controlled Substances Act changes	X		
X – Error reporting & Tracking - NEW	X		
update index			
EMS Forms			
EMS-ED Report Form – remove “radio”	X		
update index			

Patient Care Protocols			
Anaphylaxis - nebulized epinephrine if severe?	X		
Cardiac Arrest with ROSC – remove “radio”	X		

Jackson County Fire EMS Agencies Standing Orders

July 2019 Update Proposals

Cardiac Chest Pain & STEMI Cell phone transmission of PHI preferred over radio transmission	X		
DNR – update with 2012 NAEMSP/ACSCOT guidelines	X		
Inhalation Injury – CPAP for CO toxicity RAD 57	X		
ID-X Activation – remove “radio”	X		
ID-A Activation – airborne transmitted diseases	X		
ID-D Activation – droplet transmitted diseases	X		
ID-C Activation – contact transmitted diseases	X		
ID-E Activation – Ebola (and similar) transmission	X		
ID-S Activation – severe respiratory transmitted diseases	X		
Sex Trafficking – how to recognize and what to do	X		
Stroke Stroke Scale result to be either Positive or Negative Cincinnati vs Los Angeles vs Portland Stroke Scale? Stroke Activation for posterior stroke signs/symptoms? Cell phone transmission of PHI preferred over radio transmission	X		
Termination of Resuscitation – clarify	X		
Trauma – add MARCH Massive hemorrhage Airway Respirations Cardiac Hypothermia	X		
Trauma Activation – remove “radio”	X		
Wide Complex Tachycardia – Sodium Bicarbonate if known TCA/Diphenhydramine overdose	X		
update index			
Medications			

Jackson County Fire EMS Agencies Standing Orders

July 2019 Update Proposals

Standardize & list concentrations where possible	X		
Weight-based dosing	X		
Amiodarone – lower age/weight limit for pediatric v.fib?	X		
dL instead of dl for deciliter	X		
Crystalloid – change to balanced salt solution	X		
Epinephrine Review pediatric infusion dose Pediatric IV dose for non-paramedic?	X		
Fentanyl Clarify contraindications	X		
LVAD – title changed to VAD Providence St. Vincent’s Hospital is the Oregon VAD Center	X	X	
Ketamine Clarify contraindications Define “severe hypertension”	X		
Lorazepam - for anxiety or muscle spasm	X		
Morphine Clarify contraindications	X		
Naloxone Clarify maximum mg and ml maximum IM	X		
Rocuronium to replace Succinylcholine?	X		
Sodium Bicarbonate – add for known Diphenhydramine poisoning with wide complex	X		
TXA – remove?	X		
update index			

Procedures			
BVM – new protocol? Pediatric BVM for kids & adults + infants? Infant BVM for infants Metronome for timing vs refill limiting valve Capnometry for all BVM	X		
Bariatric Transport – request via Mercy Flights	X		
CBD – Criteria Based Dispatching by 911	X		

Jackson County Fire EMS Agencies Standing Orders

July 2019 Update Proposals

Double Sequential Defibrillation?	X		
iGel to replace King LT?	X		
Intranasal Medication Administration – clarify maximum volume	X		
Nasogastric tube - remove	X		
On-site Physician procedure	X		
Pre-existing central line access	X		
RSI – Rocuronium as preferred paralytic?	X		
Transport Ventilators - update	X		
update index - create (Optional) explanations	X		
MCI			
Allow for radio, cell or data communication?	X		
2 point triage system Palpable radial pulse (1 or 0 points) Motor GCS = 6 (1 or 0 points)	X		
Dead/Expectant care – collection area & location tag before movement	X		
Pediatric triage system	X		
Triage tags – eliminate or revise?	X		
Review & update	X		
update index			

The next regular update will be on July 1, 2019.

Please let me know of any other suggested changes, as well as corrections or concerns. Thanks.

Paul S. Rostykus, MD, MPH, FAEMS - Jackson County EMS Fire Agencies Supervising Physician

R. Jackson County EMS Approved Abbreviations

A&A	Albuterol & Atrovent	Defib	defibrillation
AC	antecubital	DM	diabetes mellitus
A-fib	atrial fibrillation	DNR	Do Not Attempt Resuscitation
AAA	abdominal aortic aneurysm	DOE	dyspnea on exertion
ABD	abdomen	DTs	delirium tremens
AICD	automatic implantable cardioverter-defibrillator	Dx	diagnosis
AMA	against medical advice	EBL	estimated blood loss
ASA	aspirin	ECG	electrocardiogram
bm	bowel movement	EJ	external jugular
BP	blood pressure	Epi	epinephrine
BS	breath sounds	ET	endotracheal
BT	bowel tones	ETCO ₂	end tidal CO ₂
BVM	bag valve mask	ETA	estimated time of arrival
°C	Celsius/centigrade	ETOH	ethyl alcohol
CA	carcinoma	♀	female
CABG	coronary artery bypass graft	°F	Fahrenheit
C/C	chief complaint	FB	foreign body
CHF	congestive heart failure	Fe	iron
CHI	closed head injury	FHT	fetal heart tones
cm	centimeter	fib	fibrillation
cms	circulation, movement & sensation	Fr	French
CO	carbon monoxide	Fx	fracture
C/O	complains of	ga	gauge
CO ₂	carbon dioxide	GCS	Glasgow coma score
COA	conscious, oriented, alert	G_P_	gravida/para = # pregnancies/# deliveries > 20 weeks
CBG	capillary blood glucose	GI	gastrointestinal
COPD	chronic obstructive pulmonary disease	gm	gram
CPSS	Cincinnati Prehospital Stroke Scale	GSW	gunshot wound
C-STAT	Cincinnati Prehospital Stroke Severity Scale	GU	genitourinary
CSF	cerebral spinal fluid	GYN	gynecological
CPR	cardiopulmonary resuscitation	HEENT	Head, Eyes, Ears, Nose, Throat
CT	computerized tomography	H ₂ O	water
CVA	cerebral vascular accident	H&P	history & physical
D/C	discontinue	HTN	hypertension
		Hx	history
		IDDM	insulin dependent diabetes mellitus

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Administrative Rules

R – EMS Abbreviations - 1

IM	intramuscular	NKDA	no known drug allergies
IN	intranasal	N/V/D	nausea, vomiting, diarrhea
IO	intraosseous	neg	negative
irreg	irregular	NIDDM	non-insulin dependent diabetes mellitus
IV	intravenous	NPA	nasopharyngeal airway
J	joules	NPO	nothing by mouth
JVD	jugular venous distention	NRB	non-rebreather
kg	kilogram	NS	normal saline
lb	pound	NSR	normal sinus rhythm
LBBB	left bundle branch block	NTG	nitroglycerin
LLQ	lower left quadrant	N ₂ O	nitrous oxide
L/min	liters per minute	OHCA	Out of Hospital Cardiac Arrest
LMP	last menstrual period	OLMC	on-line medical control
LOC	level or loss of consciousness	OG	orogastric tube
Lt	left	OPA	oropharyngeal airway
LUQ	left upper quadrant	oz	ounce
LVAD	left ventricular assist device	O ₂	oxygen
♂	male	P	pulse or heart rate
MAE	moves all extremities	PAC	premature atrial contraction
mcg	microgram	PAT	paroxysmal atrial tachycardia
meq	milliequivalent	PCR	patient care report
mg	milligram	PE	physical exam
MgSO ₄	magnesium sulfate	peds	pediatrics
MI	myocardial infarction	PERL	pupils equal & reactive to light
min	minute(s)	PMH	past medical history
misc	miscellaneous	po	by mouth
ml	milliliter	POLST	Physician Orders for Life Sustaining Treatment
mm	millimeter	PPE	personal protective equipment
MOI	mechanism of injury	pr	per rectal
MS	multiple sclerosis	prn	as needed
MVC	motor vehicle crash	prox	proximal
N/A	not applicable	PSVT	paroxysmal supraventricular tachycardia
N&V	nausea and vomiting	pt	patient
Na	sodium	PTA	prior to arrival
NaCl	sodium chloride	pulm	pulmonary
NC	nasal cannula	PVC	premature ventricular contractions
NG	nasogastric	PVD	peripheral vascular disease
NIBP	non-invasive blood pressure	R	respirations

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Administrative Rules

R – EMS Abbreviations - 2

RBBB	right bundle branch block	y/o	years old
RLQ	right lower quadrant	Δ	change
R/O	rule out	@	at
ROSC	Return of Spontaneous Circulation	°C	Degrees Centigrade
RSI	rapid sequence intubation	°F	Degrees Fahrenheit
Rt	right	↑	increase
RUQ	right upper quadrant	↓	decrease
RX	prescription or treatment	1°	primary
rxn	reaction	2°	secondary
SpO ₂	oxygen saturation/pulse oximetry	♀	female
SL	sublingual	♂	male
S.O.A.P.	subjective, objective, assessment, plan	Ψ	psych
SOB	shortness of breath	∅	None or nothing
SQ	subcutaneous	>	Greater than
stat	at once, immediately	<	Less than
STEMI	ST elevation MI	≥	Greater than or equal to
ST	sinus tachycardia	≤	Less than or equal to
SVT	supraventricular tachycardia		
SZ	seizure		
T	temperature		
TKO	to keep open		
TOR	Termination of Resuscitation		
tsp	teaspoon		
Tx	treatment		
URI	upper respiratory infection		
UTI	urinary tract infection		
UV	umbilical vein		
VAD	ventricular assist device		
vag	vaginal		
VF	ventricular fibrillation		
vo	verbal order		
VT	ventricular tachycardia		
V/S	vital signs		
WNL	within normal limits		
WPD	warm, pink, dry		
WPW	Wolff-Parkinson-White		
x	multiplied by		

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Administrative Rules

R – EMS Abbreviations - 3

Agency Abbreviations

AVFD	Applegate Valley Fire Department
ACH	Ashland Community Hospital
APD	Ashland Police Department
AFR	Ashland Fire & Rescue
AMR	American Medical Response
ARFF	RVI/Medford Airport Fire Department
ECSO	Emergency Communications of Southern Oregon
FD3	Fire District 3
JCFD4	Jackson County Fire District #4
JCFD5	Jackson County Fire District #5
JCFD6	Jackson County Fire District #6
JCSO	Jackson County Sheriff Office
JFD	Jacksonville Fire Department
MFR	Medford Fire & Rescue
MPD	Medford Police Department
MFI	Mercy Flights, Inc.
OSP	Oregon State Police
PMMC	Providence Medford Medical Center
RRMC	Rogue Regional Medical Center
RRFD	Rogue River Fire District
TRMC	Three Rivers Medical Center

EMS Provider Abbreviations

EMR	Emergency Medical Responder
EMT	Emergency Medical Technician
AEMT	Advanced Emergency Medical Technician
EMT-I	Emergency Medical Technician - Intermediate

DOUBLE DEFIBRILLATION

EMT-I, Paramedic

INDICATIONS:

Adult patients in cardiac arrest with persistent ventricular fibrillation.

PRECAUTIONS:

Double defibrillation to be used only for persistent ventricular fibrillation.

Recurrent ventricular fibrillation should be treated in the same manner as the last successful defibrillation.

PROCEDURE:

1. Continue 2 minute cycles of High Performance CPR with a defibrillation shock between each cycle if indicated
2. Have performed 3 single defibrillation shocks without a change in rhythm from ventricular fibrillation
3. Place a 2nd set of defibrillator pads in the alternate orientation
If original pad placement was right upper chest & left apex, then use anterior/posterior as alternate pad placement
If original pad placement was anterior/posterior, then use right upper chest & left apex as alternate pad placement
4. Administer a maximum charge defibrillation shock with the defibrillator pads in the alternate orientation
5. If no change in rhythm from ventricular fibrillation, administer a 2nd maximum charge defibrillation shock with the defibrillator pads in the alternate orientation
6. If no change in rhythm from ventricular fibrillation, connect a defibrillator to each set of pads (both original and alternate placement) and deliver maximum defibrillation shock from each defibrillator simultaneously (one EMS provider pushes the buttons on both defibrillators)
7. If patient develops ROSC, support patient's airway and ventilation, continuously monitor patient and vital signs, and transport patient to the hospital.
If patient with ROSC develops recurrent ventricular fibrillation, defibrillate at last energy setting.
8. If no change in rhythm from ventricular fibrillation with double defibrillation:
Contact Online Medical Control (OLMC) to discuss the situation.
Deliver a 2nd maximum defibrillation shock from each defibrillator simultaneously.
Prepare patient for transport to the hospital.
9. Send PCR to the agency's supervising physician

VENTRICULAR ASSIST DEVICE (VAD)

SUBJECTIVE:

Ventricular Assist Devices (VADs) are mechanical pumps implanted in patients with severe heart failure awaiting or in place of a heart transplant allowing the patient to return home. The VAD is dependent on an external power supply, either 110 volt AC or battery. A patient with a VAD, along with their close family members or friends, will have received extensive training in the use and operation of the VAD from the center which implanted the VAD. Almost all VAD patients will have had a Left Ventricular Assist Devices (LVAD) implanted and some may also have had a Right Ventricular Assist Device (RVAD) implanted.

OBJECTIVE:

The level of consciousness will be of prime importance in evaluating the patient's condition. Patients with a VAD will likely not have a palpable pulse, blood pressure detectable by EMS personnel (unless using a Doppler) or reliable pulse oximeter reading. The mean arterial pressure (MAP), if measureable, should be at least 50 mm Hg.

End tidal CO₂ measurements will be reliable with a normal value of 35-45 mm Hg and should be at least 20 mm Hg.

A hum from the implanted pump will usually be heard or palpated in the patient's central or left lower chest.

Most patients with a VAD will have received an Automatic Implantable Cardioverter Defibrillator (AICD).

ASSESSMENT:

Patient with an VAD

The 2 most common reasons for VAD pump failure are disconnection of the power and failure of the driveline.

TREATMENT:

EMR:

- Oxygen

EMT:

- Ensure that the VAD controller is On and working. Exchange the controller.
- Defibrillation can be performed normally.
- ETCO₂ monitoring.
- Contact the patient's VAD Center, or Providence St. Vincent's Hospital VAD Center at (971) 678-4042, or Stanford VAD Center (650) 723-4000
- Package patient to avoid constriction on the VAD or tension on cables.
- One patient companion knowledgeable about the VAD should be transported in the back of the ambulance along with the patient.
- Transport all VAD equipment (power supply, controllers, batteries, emergency backup bag, etc.) with the patient.
- Any patient with an VAD should be transported to PMMC or RRMC.
- Chest compressions and CPR may be performed if:
The patient is unconscious, apneic and without an VAD hum.

AEMT

- Large bore IV or IO with crystalloid

EMT-I:

- Cardiac monitoring

Paramedic:

- Cardiac medications can be administered
- 12 lead ECG

