

2015 Interim Training Materials Heartsaver® Student Workbook Comparison Chart

	New	Old	Rationale
First Aid			
Dental avulsion	First aid providers may be unable to	Place the tooth in milk—or clean	Dental avulsion can result in permanent
(First Aid CPR AED	reimplant an avulsed tooth due to	water if milk is not available.	loss of a tooth. The dental community
Student Workbook	lack of protective medical gloves,		agrees that immediate reimplantation of
and First Aid Student	training and skill or fear of causing		the avuised tooth arrords the greatest
Workbook, Part 3:	reimplantation is not possible it		be an option. In the event of delayed
Injury Emergencies)	may be beneficial to temporarily		reimplantation, temporary storage of an
	store an avulsed tooth in a solution		avulsed tooth in an appropriate solution
	shown to prolong viability of dental		may improve chances of tooth survival.
	cells (compared with saliva).		
	Solutions with demonstrated		
	efficacy at prolonging dental cell		
	viability from 30 to 120 minutes		
	include Hank's Balanced Salt		
	Solution (containing calcium,		
	potassium chloride and phosphate,		
	magnesium chloride and sulfate,		
	bicarbonate, sodium phosphate		
	dibasic and glucose) propolis egg		
	white coconut water Ricetral or		
	whole milk.		

	New	Old	Rationale
Chest pain	While waiting for EMS to arrive,	While waiting for EMS to arrive,	The administration of aspirin
(First Aid CPR AED	the first aid provider may	the first aid provider may	significantly decreases mortality due to
Student Workbook	encourage a person with chest pain	encourage the victim to chew and	myocardial infarction, but there is no
and First Aid Student	to chew 1 adult or 2 low-dose	swallow 1 adult (non–enteric-	evidence to support the use of aspirin for
Workbook Dort 2.	aspirins if the signs and symptoms	coated) or 2 low-dose "baby"	undifferentiated chest pain. A reduction
WORKDOOK, Fart 2:	suggest that the person is having a	aspirins if the victim has no	in mortality is also found when "early"
Medical Emergencies)	myocardial infarction, and if the	allergy to aspirin or other	administration of aspirin (ie, in the first
	person has no allergy or other	contraindication to aspirin, such	few hours after onset of symptoms from
	contraindication to aspirin. If a	as evidence of a stroke or recent	myocardial infarction) is compared with
	person has chest pain that does not	bleeding.	"later" (ie, after hospital arrival)
	suggest a cardiac source, or if the		administration of aspirin for chest pain
	first aid provider is uncertain of		due to acute myocardial infarction. It
	the cause of chest pain or is		remains unclear, nowever, whether first
	uncomfortable with administration		and providers can recognize the signs and
	of aspirin, then the first and		symptoms of myocardial infarction, and
	provider should not encourage the		non-condice courses of chest pain could
	decision to take aspirin and the		noncardiac causes of cliest pain could
	be deferred to an EMS movider		of aspirin used for chest pain was not
	be deferred to all EWIS provider.		specifically reviewed by the ILCOP First
			Aid Task Force, the bioavailability of
			enteric-coated aspirin is similar to non-
			enteric-coated when chewed and
			swallowed Thus there is no longer the
			restriction to use non-enteric-coated
			aspirin as long as the aspirin is chewed
			before swallowing.

	New	Old	Rationale
Anaphylaxis (severe	When a person with anaphylaxis	In unusual circumstances, when	The 2010 Guidelines recommended that
allergic reaction)	does not respond to an initial dose	advanced medical assistance is	first aid providers assist with or
(First Aid CPR AED	of epinephrine, and arrival of	not available, a second dose of	administer (the victim's own)
Student Workbook	advanced care will exceed 5 to 10	epinephrine may be given if	epinephrine to persons with symptoms of
	minutes, a repeat dose may be	symptoms of anaphylaxis persist.	anaphylaxis. Evidence supports the need
and First Aid Student	considered.		for a second dose of epinephrine for
Workbook, Part 2:			acute anaphylaxis in persons not
Medical Emergencies;			responding to a first dose; the guidelines
Pediatric First Aid			revision provides clarification as to the
CPR AED Student			time trame for considering a second dose
Workbook, Illnesses			of epinephrine.
and Injuries,			
Group A)			

	New	Old	Rationale
CPR AED			
Compression rate	Push at a rate of 100 to 120	Push at a rate of at least 100	The number of chest compressions
(First Aid CPR AED	compressions per minute.	compressions per minute.	delivered per minute during CPR is an
Student Workbook			important determinant of return of
and CPR AFD			spontaneous circulation and survival with
and CI K AED Student Werkhoek			good neurologic function. The actual
Student workbook,			number of chest compressions delivered
CPR and AED for			per minute is determined by the rate of
Adults; CPR and			chest compressions and the number and
AED for Children;			duration of interruptions in compressions
CPR for Infants;			broaths allow AED analysis). In most
Pediatric First Aid			studies more compressions are
CPR AED Student			associated with higher survival rates and
Workbook, CPR,			fewer compressions are associated with
AED, and Choking)			lower survival rates. Provision of
			adequate chest compressions requires an
			emphasis not only on an adequate
			compression rate but also on minimizing
			interruptions to this critical component of
			CPR. An inadequate compression rate or
			frequent interruptions (or both) will
			reduce the total number of compressions
			delivered per minute. New to the 2015
			Guidelines Update are upper limits of
			recommended heart rate and compression
			depth, based on preliminary data
			suggesting that excessive compression
			The addition of an upper limit of
			compression rate is based on 1 large
			registry study analysis associating
			extremely rapid compression rates
			(greater than 140/min) with inadequate
			compression depth.

	New	Old	Rationale
Compression depth	Adult: During manual CPR,	Adult: The adult sternum	Compressions create blood flow
(First Aid CPR AED	rescuers should perform chest	should be depressed at least 2	primarily by increasing intrathoracic
Student Workbook	compressions to a depth of at least	inches (5 cm).	pressure and directly compressing the
and CPR AFD	2 inches (5 cm) for an average		heart, which in turn results in critical
	adult, while avoiding excessive	Pediatric: To achieve effective	blood flow and oxygen delivery to the
Student workbook,	chest compression depths (greater	chest compressions, rescuers	heart and brain. Rescuers often do not
CPR and AED for	than 2.4 inches [6 cm]).	should compress at least one third	compress the chest deeply enough
Adults; CPR and		the depth of the chest. This	despite the recommendation to "push
AED for Children;	Pediatric: It is reasonable that	corresponds to approximately 1.5	hard." While a compression depth of at
CPR for Infants;	rescuers provide chest	inches (about 4 cm) in most	least 2 inches (5 cm) is recommended,
Pediatric First Aid	compressions that depress the	infants and about 2 inches (5 cm)	the 2015 Guidelines Update incorporates
CPR AFD Student	chest at least one third the depth of	in most children.	new evidence about the potential for an
	the chest in pediatric victims		upper threshold of compression depth
WORKDOOK, CPR,	(infants [younger than 1 year] to		(greater than 2.4 inches [6 cm]), beyond
AED, and Choking)	children up to the onset of		which complications may occur.
	puberty). This equates to		Compression depth may be difficult to
	approximately 1.5 inches (4 cm) in		judge without use of feedback devices,
	infants to 2 inches (5 cm) in		and identification of upper limits of
	children. Once children have		compression depth may be challenging.
	reached puberty (ie, adolescents),		It is important for rescuers to know that
	the recommended adult		the recommendation about the upper
	compression depth of at least 2		limit of compression depth is based on I
	inches (5 cm) but no greater than		very small study that reported an
	2.4 inches (6 cm) is used.		association between excessive
			compression depth and injuries that were
			not life-threatening. Most monitoring via
			CPR feedback devices suggests that
			compressions are more often too shallow
			than they are too deep.