WORKBOOK IN **EMERGENCY MEDICAL TREATMENT**

Review Problems for EMTs

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To Eugene Nagel

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PREFACE

Probably everyone has seen it on television—the scene in which the ambulance comes howling up to the man lying on the street, and the EMTs leap out, take charge, and have the man nicely trussed in bandages and splints just a few moments later. It all looks very easy the way it is done on television—but it is not. Nothing about it is easy. Being an EMT is, in fact, one of the toughest jobs a person can choose. It is also one of the best jobs, as anyone in the business will attest.

Becoming an EMT is also a tough job. There is a mass of information to absorb and a whole list of skills to acquire, often in a relatively short time. When simply reading a textbook, it is easy to become overwhelmed. One needs to pause every so often in order to make sure what has already been presented has been assimilated, before charging ahead to learn something new.

That is the main aim of this workbook—to provide a chance to pause after each chapter in Emergency Medical Treatment to take stock of what has penetrated into memory. The questions in the workbook are specifically designed to test each of the learning objectives outlined in the text, so that the student may immediately assess to what degree he or she has met those objectives. Because the human brain tends to eject more remote memories in favor of more recent information, we have also included four special Stop and Review sections in the workbook. These sections are intended to reinforce important concepts learned in earlier chapters—concepts that may be growing a bit dim in memory because of other information that had to be mastered in the meantime.

This workbook, in fact, has a dual function. In addition to serving as a workbook in conjunction with Emergency Medical Treatment, it is intended as a review book for EMTs who are preparing for certification examinations or who simply want to refresh their knowledge as part of a program of continuing education.

The book's main character, Morris Q. Morris (known to other operatives simply as MQM), is an EMT who was selected by a secret agency (because of his keen observational skills) to roam the world and gather intelligence about the care of the ill and injured. Whenever he gets a chance, MQM radios back a message in code, and we shall be decoding his transmissions periodically throughout the book to discover what secrets he has learned about emergency medical care.

N. L. C.

WORKBOOK IN EMERGENCY MEDICAL TREATMENT

1. THE EMT AND THE EMS SYSTEM

1-1. GALLOP AND GRAB

Humboldt Whizzer was an ambulance driver in 1892. Humboldt had the following responsibilities: (a) feed and water the horse, (b) keep the stretcher clean; (c) keep the wagon wheels oiled; and (d) in emergencies, get to the patient as fast as possible, load him into the wagon as fast as possible, and drive like mad to the hospital.

Humboldt's great-grandson, Bill Whizzer, is a certified EMT

a. In what respects do Bill Whizzer's responsibilities resemble those of his great-grandfather?

- b. In what respects do Bill's responsibilities differ from those of his great-grandfather?
- c. What additional responsibilities does Bill have that his great-grandfather did not?

1-2. WILL THE REAL EMT PLEASE STEP FORWARD?

Rosenkrantz and Gildenstern have applied to take an EMT course, and you must interview both candidates to determine their suitability for this type of work.

Rosenkrantz is 29 years old, 6 feet and 1 inch tall, and weighs 185 pounds. He comes to the interview dressed in a moth-eaten yellow sweatshirt and old blue jeans. He has a Mohican haircut. He has 14 years of education and saw combat duty as a medical corpsman in Viet Nam. He states that he probably knows most of the material already, so the course should be a breeze. He is currently working as a bartender, and he spends his free time skydiving.

Gildenstern is 23 years old, 5 feet and 3 inches tall, and weighs 140 pounds. He comes to the interview in a tie and jacket. He left high school after the tenth grade to support his mother and sisters, and he took a job as a hospital orderly. He has taken courses at night to become a nurse's aide. He states that he is not sure he has what it takes to be an EMT. He spends his free time working with the Big Brother organization.

For each of these candidates, indicate which of their qualities would suggest desirable traits for an EMT and which suggest undesirable traits. Explain your reasons Which one would you select for your course? Which would you rather have working with you on your squad?

1-3. THE PERFECT EMT GAME

Instructions: The game is played by two or more students, each of whom is supplied with a distinctive marker (such as a button) and a die. Each student begins at START and, sequentially, rolls his or her die to determine how many spaces to proceed. The

game continues until one student gets 30 points and thus becomes the Perfect EMT. Any player getting minus 30 points is automatically dropped from the game.

START-	Successful CPR + 10 points	Good personal appearance + 3 points	Friendly	Abandoned patient - 4 points	Courteous	Went on call with empty oxygen tank -4 points	Gave treatment without consent	Told heart attack patient to take a cab - 10 points
	Blue jeans on the job -2 points					· · · · · · · · · · · · · · · · · · ·		Helped old lady across the street + 2 points
	Cool under pressure +4 points						*	Sloppy medical records ~3 points
	Controlled crowd at road accident +3 points							Accepts criticism +3 points
	Smoking in the presence of a patient 2 points	,					•	Stole patient's wallet ~ 5 points
	Did refresher practice in CPR +4 points							Resourceful
	Left jump kit at base —5 points							Forgot how to perform CPR
	Refused to go on a call ~10 points	Sympathetic	Detailed, legible medical- report +4 points	Abusive language to patient -4 points	Explained treatment fully to patient +3 points	Swoop and scoop - 3 points	Ambulance interior dirty and disorderly -4 points	Passed state EMT exam +10 points

1-4. THE EMS CHAIN

A 55-year-old man collapses at home in the presence of his wife and three children. His 16-year-old son recently passed a course in CPR. They live in a community where all emergency services (fire, police, ambulance) can be reached by dialing 911. Every fire fighter in the community is trained to the level of EMT-A, and there are two advanced life support units (with paramedics) for the city. The nearest firehouse is 3 minutes away; the nearest paramedic unit is 10 minutes away, and the nearest hospital is 20 minutes away.

List in order the steps that should be taken in han-

dling this emergency, and indicate which component of the EMS system is involved in each step.

1-5. WHAT'S WRONG WITH THIS PICTURE?

Willamena Whistlethorpe is a 75-year-old woman who lives in an old house just outside of town with her 31 dogs and 14 cats. One evening, while taking her after-dinner constitutional, she begins to notice a heavy sensation in her chest. She returns home to lie down. A neighbor phones, and Willamena reports that she is feeling a bit under the weather. The neighbor is concerned and goes to Willamena's house to check. She finds Willamena unconscious on the bedroom floor, with 31 dogs whimpering around her. Unable to find a telephone book, the neighbor runs back to her own house and begins hunting through the Yellow Pages for the number of an ambulance. At the first three numbers she calls, the dispatcher tells her that Willamena is not in their district. Finally, she reaches an EMT squad willing to respond. They arrive 10 minutes later and determine that Willamena is in cardiac arrest. They begin CPR and elect to transport Willamena to the hospital, 30 minutes away, giving CPR en route. When they arrive at the hospital, a sleepy-eyed doctor glances at Willamena and says, "Might as well quit-it's hopeless."

The above story illustrates several weak links in the EMS chain. How many of them can you identify?

1-6. LAW AND ORDER

Match the following terms with the definition that best fits each.

- a. standard of care
- b. duty to act
- c. implied consent
- d. negligence
- e. informed consent
- f. abandonment
- g liability
- h. litigation

 the abrupt termination of contact with the pa-
tient, without the patient's consent and without
allowing the patient sufficient time to find an-
other health care professional to look after him*
-

 а	lawsuit	

- _ the obligation of public and certain other ambulance personnel to respond to a call for assistance in their jurisdiction
- the norm for providing treatment, against which a person's performance is judged
- ___ failure to exercise the care that circumstances demand: an act of commission or omission that results in injury to the patient
- assumed agreement to receive emergency lifesaving treatment when the patient is physically or otherwise incapable of giving knowing con-
- _ legal obligation or responsibility

_ a patient's agreement to accept a certain treatment after the nature and risks of the treatment have been fully explained to him

^{*}Bear in mind that "him" may be "her"

1-7. MAY IT PLEASE THE COURT

For each of the following statements, place a T beside the statement if it is true and an F beside the statement if it is false.

- a. ____ An EMT may transport a psychiatric patient to the hospital against the patient's will.
- b. ____ If a child needs emergency treatment to save his life and no parent or guardian is available to give consent, the EMT may treat the child. because consent is said to be implied in such circumstances.
- c. ____ A mentally competent adult has the right to refuse treatment.
- d. ____ An EMT is expected to provide the same emergency treatment as a prudent lay person who has no first aid training would provide under the same circumstances.

1-8. PUT IT IN WRITING

The ambulance trip sheet or medical report may be called as evidence in court. List the minimum information that should be included in the report of an ambulance run. What should not be in the report?

1-9. YOUR DAY IN COURT

You have been called for jury duty, and as luck would have it, the cases assigned to your group are lawsuits against EMTs. You must help to decide, in each case, whether the EMT is guilty of the charges against him.

Case 1: Jock v. Rock

Randall Jock was a star fullback for his college football team and was about to sign a professional contract when he sustained a broken leg in an automobile accident. Rick Rock, the EMT on duty, arrived at the scene of the accident 4 minutes after receiving the call. He made a thorough assessment, noted that the broken leg was the only injury, and used a traction splint to stabilize it. His record of the case is detailed and has been submitted in evidence. Randall Jock's leg never healed properly and required multiple operations. Randall Jock is suing Rick Rock for damages, claiming that Rick's management at the scene was negligent and was the cause of his disability, which took away his livelihood in professional football.

Do you think Rick Rock was negligent? Explain the reasons for your conclusions.

Case 2: Widow Parsons v. EMT Jones

Reginald Parsons was a 55-year-old businessman who suffered from diabetes, but it was generally well-controlled with insulin On one very hectic day, however, he skipped a couple of meals, and when he got home that evening, he began to feel quite weak. About an hour later, his wife found him unconscious in the bedroom. She summoned an ambulance, and the ambulance arrived 6 minutes later. The EMT, Buck Jones, determined that the patient was breathing and had a pulse, and he then loaded the patient into the ambulance for transport. On arrival at the hospital, Buck noticed that all the doctors and nurses in the ER were occupied with the victims of a multicasualty road accident, so he transferred Reginald to a gurney in room 4. As he was doing so, he got a call on his radio for a possible sprained ankle case, so he left the ER immediately to respond to that call. Fifteen minutes later, when a nurse entered room 4 of the ER, she found Reginald Parsons dead from an obstructed airway. Now Reginald's widow is suing Buck Jones on the grounds that his negligence led to her husband's death.

Do you think Buck Jones was negligent? Explain the reasons for your conclusions.

2. AN INTRODUCTION TO ANATOMY

2-1. FIBULA, FIBULA, WHEREFORE ART THOU, FIBULA?

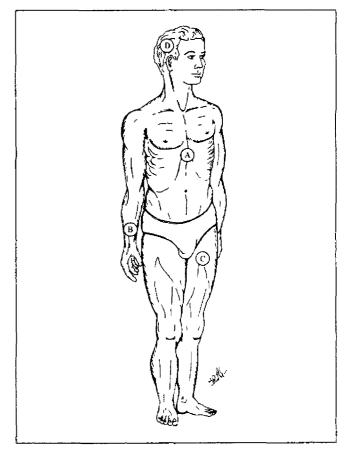
For each of the following statements, insert the correct word from the list below (Note: Some words may be used more than once.)

anterior medial left posterior lateral right superior proximal inferior distal 1. The elbow is _____ to the wrist. 2. The neck is _____ to the chest. 3. The knee is ______ to the hip.
4. The liver is in the _____ upper quadrant of the abdomen. 5. The temporal region of the skull is to the occipital region. 6. The heart is _____ to the lungs. 7. The stomach is _____ to the heart.

8.	ine nippies are	to the sternum.
9.	The esophagus is	to the larynx
	(voicebox).	
10.	The radius is	_ to the humerus.
11.	The clavicle is	to the sternum.
12.	The spleen is in the	upper
	quadrant of the abdomen.	
13	The femur is	to the tibia.
14.	The brachial pulse is	to the
	radial pulse.	
15.	The pelvis is	to the chest.
16.	The thorax is	_ to the abdomen.
17.	The carotid pulse is	to the
	femoral pulse.	
18.	The intestines are	to the
	kidneys.	
	The mandible is	
20.	The left eye is	to the left ear.

2-2. REPORTING MAP COORDINATES

A 34-year-old man sustained four stab wounds, labeled A. B, C, and D on the following diagram. You have to describe the locations of these wounds by radio to a doctor at the base hospital. Using the correct technical terminology, describe as precisely as you can the location of each of the wounds.



BELONGS TO ME	OMEONE, AND SOMEONE ing parts of the body, indicate the	sternum liver carotid pulse	radial pulse rib humerus
a. head b. neck c. chest	d. abdomen e. extremities	ulna ulna temporal bone spleen fibula mandible	heart external jugular veir clavicle larynx
2-4. DEM BONES For each of the follow belongs to a. the upper extremity b. the lower extremity c. the skull d. the chest		parietal bone ulna ulna fibula rib metatarsal temporal bone radius sternum	humerus femur mandible metacarpal tibia clavicle patella

2-5. DEPARTMENT OF MISSING BONES

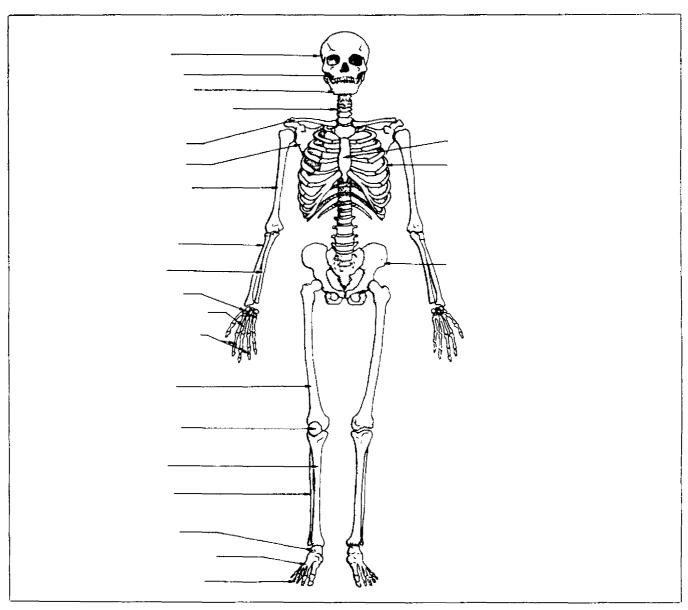
clavicle

Label the bones on the following diagram, using terms from this list.

> tibia pelvis

fibula carpals tarsals femur scapula patella humerus metacarpals cranium phalanges

radius rib metatarsals mandible maxilla sternum vertebra ulna



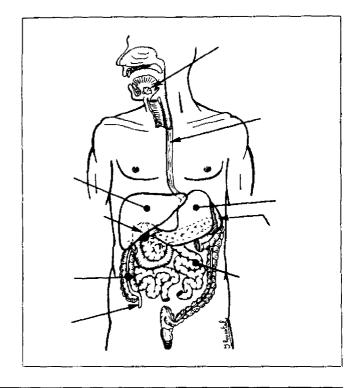
Which bone is missing?

2-6. A FULL BELLY

Label the following diagram, indicating the location of the

gallbladder liver
stomach spleen
tongue appendix
colon small intestine
esophagus

Which of these organs are in the right upper quadrant?



2-7. THERE'S A SYSTEM TO EVERYTHING

2 % THERE O IN STOTEM TO EVERTITING		
For each of the following, indicate whether it be-	stomach	sternum
longs to	biceps	kidney
	lungs	gallbladder
a. the skeletal system	aorta	pancreas
b. the muscular system	bladder	spinal cord
c the nervous system	ulna	uterus (womb)
d. the respiratory system	trachea	esophagus
e. the circulatory system	heart	patella
f. the digestive system	liver	testes
g. the genitourinary system	brain	colon

2-8. CROSSWORD PULSES

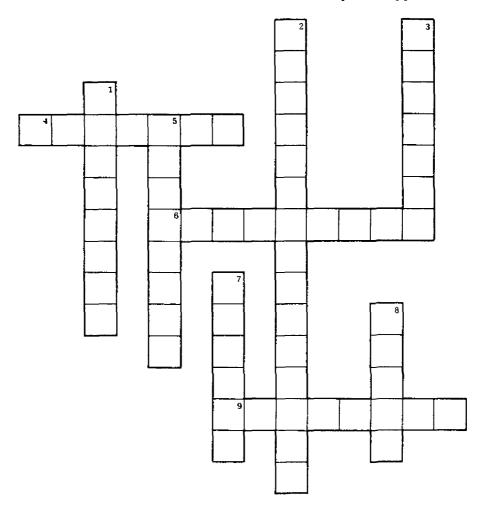
Do you know your pulses? Then you should have no trouble in filling in this crossword.

Across

- 4. Artery that supplies the brain
- 6. Artery that supplies the leg
- 9. Artery that supplies the arm

Down

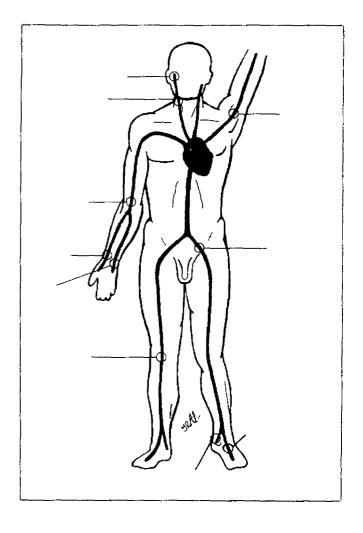
- 1. Artery that supplies the forearm
- 2. Artery that supplies the foot, felt behind the medial malleolus
- 3. Artery that supplies the lower extremity
- 5. Artery that supplies the scalp
- 7. Artery that supplies the hand, felt just proximal to the base of the thumb
- 8. Other artery that supplies the hand



On the following diagram, indicate the location of

the femoral pulse the radial pulse the carotid pulse the posterior tibial pulse the axillary pulse the temporal pulse the temporal pulse the brachial pulse the dorsalis pedis pulse the ulnar pulse the popliteal pulse

Which pulse is usually monitored in deciding whether to start chest compressions in CPR?



3. MEDICAL TERMINOLOGY

		·	
3-1. FINDING YOUR R Match the following roo each.	OOTS its with the word that best fits		
a. cardio b. cerebro c. dermato d. entero e. gastro	f. hepato g. nephro h. neuro i. oto j pneumo	skin lungs stomach ear brain	heart kidney gut nerves liver
3-2. FROM START TO Match the following pr phrase that best fits eac	refixes and suffixes with the		
aalgia b. brady- c. dys- dectomy e. hyper- fitis gmegaly	h. oligo- iostomy jpathy kplegia lpnea m. tachy- nuria	 disease surgical opening difficult, painful, disordered enlargement paralysis rapid few, small amount 	pain cxcessive cinflammation cycles c
3-3. IT'S GREEK TO M Match the following m ment that best describe a. apnea b. tachycardia c. hypoglycemia d. leukocyte e. hepatomegaly f. neuropathy g. arthralgia h. enteritis	edical terms with the state-	inflammation of the gale enlargement of the live diminished or small until runny nose absence of breathing low blood sugar inflammation of the inflammation of the inflammation of the skin surgical removal of the disease of nerves pain in the joints rapid heart rate paralysis of all four extends white blood cell disease of the muscle of weakness on one side of the side of the muscle of the mu	er rine volume testine ction of blood under the e testicle(s) tremities of the heart

3-4. PUT THIS MESSAGE INTO CODE Beside each of the following phrases, write the medical term that has the same meaning.	7. Blood in the urine 8. Enlargement of the heart
EXAMPLE: inflammation of the kidney nephritis	9. Red blood cell
	10. Slow heart rate
1. Difficulty in breathing	11. Inflammation of the inner part of the hear
3. Paralysis of one side of the body	12. Increased menstrual flow
4. Disease of muscle	13. High blood sugar
5. Inflammation of a vein	14. Pain in muscles
	15. Surgical removal of the uterus
6 Surgical removal of the stomach	
- -	16. Pus in the urine

3-5. WHAT'S WRONG WITH JOE?

Joe is feeling terrible. He has myalgias, cephalalgia, and rhinorrhea. He goes to the emergency room, where a doctor examines his retropharyngeal area and does a phlebotomy (causing a hematoma) for tests. The tests show leukocytosis.

Explain in plain English

- a. What were Joe's symptoms?
- b. What did the doctor examine? What did the doctor do to Joe?
- c. What did the test show?

What do you think is wrong with Joe?

3-6. THE HIDDEN LANGUAGE OF MEDICINE

The diagram below contains 54 medical terms or words relating to the body, spelled out horizontally, vertically, or diagonally. We have started you off by finding the word leg. How many words can you find? Do you know the meaning of all of them?

M T 0 C Α R C 0 S Α C R U M В Α 0 R G Α N C Y I G R 0 U T P Ų P Α 0 N Ε R C L U I L Α P M R Α U S Α L Ε Α R T R I Ţ I S Ν U 0 L G 0 В V Η A Y N C U Ş C Α P U L Α Α Ν C Y E M E Т Ν Ţ R Α C Η E A U S T E 0 Y Ι Ν E V 0 I L Α L M Ε R G Α U S S \mathbf{v} E Ľ O R N N Η Α S Α (G_i) E N Ε U R 0 P Α T Η Y L A T Ε 1 N Ι A P E C O R I S T Ι A L L M L 0 В U S Ţ L E R L O C 0 Α Ë N P R E E S U L T 0 N R K D Y S P E Α N R R Α M T Η I T H E M Ι P L E G I Α Α R I O N 0 Т C V В O E R G 0 Α N R U S 0 L W U L L I T Ι S T L M I Ι L R 0 V N I P L Ε U R Α N Ş K U L L P R V Y U 0 C L N S Η Α S N Α N C Y T S T R 0 U T U I E S U M L Ε E Ε Y R Ι D Ε R T T S C M Α I 0 Η Ε S T R C Y В C P Α P B Α S T U L E M U 0 О P L 0 P Y N C U I Α R D A H N Α Α D Α M M L E M 0 M E R Α Α F T Η R L G I T Α Α A R Α S I L В 0 W N 0 M В Α Y S T T E E K L 1 Α I K E I M I S U P N Ε R Y S C E Е Α A L D E R Ν L Y Ν M Ε T U Т E S 0 T R S Į E R Т Η Y P 0 G L Y C E M I В I S Ι Α A S Н Ε Α T I M O M Α N G L U В U L E S I R P T S S 0 D E L E R E M С T I S 0 T I Ν Α P N E Α N В S S Α

3-7. NEVER A CROSS WORD SHALL PASS AN EMT'S LIPS

Now, for the grand finale! Test your medical (and nonmedical) word power on the Super EMT Crossword Puzzle. If you finish in less than an hour, you

ctionary Award.	105 Nearer the midline				 -	115 Addition to a letter 116 Abbreviation meaning right eve	 	_		125. Root Word for body of evally 128. Pertaining to the neck	 	134. Main artery of the neck	 	-	143. Suinx for Qiconol	٠		-	_	157. Frenx pertaining to the unitary tract	159. Where to find the spleen	160. Wrist bone		164 Freitx meaning both 165 Abbreviation for extraoculor				174. Good, strong pulse	177 Prefix for hand			 16/, Sains 5 second word 188. Side of the chest where the heart		191 Suffix meaning inflammation
win the Webster Walking Dictionary Award	Across	2 Prefix for below decreased	5. Prefix for blood vessel	_		18 Prefix for increased, excessive no Prefix for water:		25 Abbreviation for eyes, ears, nose,	-	27, Suinx meaning pain 28. Prefix meaning of	-	 34 Larger bone of the lower leg		 	55 Root Word for blood					66. Abbreviation for carottal sinus 60. Branch of the American mulitary	_			78 Commonly abused drug		86 Lying down	89 Abbreviation for endotracheal			93. Poor means to transport the infitted	95. Emergency Medical Services, for	97 Big tooth 98 A way to treat constination	; Z	_

193	Abbreviation for month	37.	Middle of knee	129.	
194	Suffix meaning pain	38	Shoulder blade	133	Issue forth
195.	Score in football	40	Anterior surface of the hands	139	Frenx meaning egg
196	Abbreviation for obstatrics	41	What horses eat	139,	Fart of the spine fused to the
197.	Abbreviation meaning by mouth	42,	Prefix meaning away from	:	petvis
198.	-	43.	Nitrous oxide is one	142.	Means for immobilizing
199		44	Where to find the popliteal artery		spine-injured patient
202.		45	Prefix meaning three	145	Prefix meaning below
204		48	Robert Hope's nickname	146	Abbreviation meaning by mount
202	Abbreviation for physical	6	Labium	148	Ecchymoses around the eyes:
6	examination	25	Patient's response to getting an IV	140	Abhraylation for blood pressure
208	Prenx meaning air or lung	Ž i	Pertaining to the Kittingy What a named should do if he gets	150	noticated for the pressure faither of Dwight Lavingstone
;	A part discussion of the body	ò	what a paraout simula do note goes		lineracker
214	resence of the body Where the cervical vertebrae are	ů	Citest parti	152.	Abbreviation meaning symptoms
216	Reference source	5 2	Viddish word for Are von married	153	Sound of a horse or a zebra
218	First half of talk	;	vet?	154	Prefix for pertaining to an egg
219	Taut	63	Prefix meaning between	156.	Prefix for kidney
220.		67	Where to find the patella	158.	
	ınjured	68	Wormlike structure attached to the	159.	Angle of, beside
227	Pharynx and larynx		cecum		second intercostal space
224.		20	Below the ribs	163.	Chemical suffix
	assistant	71.	Above the anterior bone of the	165.	Prefix relating to the intestines
225.	Keeps the metacarpals warm		pelvis	99	Anne Frank's initials
227.		2	Section of the brain	100.	Sumx pertaining to me urine
228.		33	Very special person	60,	EM I s equipment
229	Simple sugar	74	Vessel that carries blood lowerd	170	Prefix meaning stone
230	Prefix for hip	í	the near	1/1	Frenx meaning mate
231	Inflammation of the testicies	į	Prenx meaning breathing	17.5	Apprehension meaning ungnesss
٤	:	÷ 6	Source of vitamin D	176	Miss reep a first fiding Deafy magning white
IMON	E	ė	Frenx meaning ordin	17.0	Frenk moderng wine Dorson broughs been emorrone
_ `	Prefix meaning cell	į	What to do for a good EM!	9/1	retain anowing basic ornergency
		200	Frenx meaning eye Decimal of an illusing	90	Late is a life.
יי		3 4	Deginning of an inness	100.	Omornicas Backs possible sugar
d i u		ė		101	Arbanistics for such passed
ni (9	QUELUE EWBy	. 6	
٥	Type of food ulcer patients should	9 6	wong Walk	196	Fatelli Wakan
,		5 6	Organs for sight	981	
. 60		6	By oneself	ė	
o o i		91	Kneecap	190	What the skin does in dehydration
	chief	ġ.	Funny bone	192.	Pronto
10	Tear	98	Two-thirds of ear	196	Prefix meaning vision or sight
11	Distal	66	Prefix meaning stomach	198.	Where to find the calcaneus
12	Lowest female voice	100	Lying face down	200	Nagging pain
13		103.	To the side; farther from the	201	Baby dogs
7.	Meaning of intra-			203.	
12	Abbreviation for street	2 :		205	
9:	Not a friend	9		206.	10-4 Abbassiasias for abusiasi sharass
` ;	What to do with data	3 :		9 6	Contestation for physical election
3 2	Major pone of this book	113	what to say when you get a snot Windowns	210	riena meanning new Women's orestest problem
24		115		211.	Clincopathologic conference
25		118.		213.	What cyst- means
92	Backslide		the ears	215	Abbreviation for slow IV rate
31.		120		217.	
,		122	Big, stupid bird	220.	_
35		124	Prefix meaning few or little	223.	Abbreviation meaning before
9 6		126	Frenx meaning oil	900	Medis Where to transporer the all and
9 6	Frenk meaning rapid Relow	121.	vertical line down the center of the body	777	
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