KEY - HS161 Exam 3/24/04 (C:\DATA\HS161\ex1-s04-key.wpd) — 100 points

PART	A						
Ch 1		Ch 2		Ch 3		Ch 5	
1.	c	17.	c	37.	b	62.	d
2.	b	18.	b	38.	d	63.	d
3.	d	19.	d	39.	a	64.	e
4.	a	20.	a	40.	c	65.	c
5.	b	21.	d	41.	a	66.	d
6.	a	22.	d	42.	d	67.	b
7.	c	23.	a	43.	a	68.	a
8.	d	24.	a	44.	a	69.	a
9.	a	25.	c	45.	d	70.	c
10.	c	26.	a	46.	c	71.	a
11.	a	27.	d	47.	b	72.	b
12.	d	28.	b	48.	c	73.	b
13.	b	29.	b	49.	a	74.	d
14.	a	30.	b	50.	d	75.	c
15.	d	31.	c	51.	c	76.	e
16.	d	32.	a	52.	b	77.	a
		33.	c	53.	d		
		34.	b	54.	d		
		35.	a	55.	b		
		36.	b	56.	a		
				57.	d		
				58.	c		
				59.	b		
				60.	d		
				61.	a		

Part R

1. [4 pt scale] A sensitive case definition is broad, while a specific case definition is narrow. A sensitive case definition is likely to uncover false positives, while a specific case definition is likely to result in false negatives.

2.	Į6	pts	ınc	lıcai	ted	. 1n	bo.	ld.	l

Vaccine status	Age group (yrs)	Cases	Population	Rate (per 1000)
Unvacci.	1–9	42	2552	_16.5_
	10–19	173	3342	_51.8_
	1–19			_36.5_
Vaccinated	1–9	3	3671	_0.8_
	10–19	14	4345	_3.2_
	1–19			_2.1_

^{3. [4} pt scale] Rates in 10-19 year-olds about 3-4× that of 1-9 year-olds.

^{4. [4} pt scale] Rates in unvaccinated 17× that of vaccinated.

^{5. [2} pt scale] VE = (36.5 - 2.1) / 36.5 = .94 = 94%

^{6. [3} pt scale] The vaccine is 94% effective. This means that 94 of 100 (about 19 of 20) people vaccinated would be fully immune. One cannot expect a vaccine to be 100%, and a judgment about effectiveness is difficult to give without context and comparison. One might say that 94% effectiveness is "good" but of course 99% would be better and 90% would be worse.