

Hannah Bubar Chapter 7&8 Homework

7.1

1. $6/18 = 0.333$, 33.3%
2. $2/9 = 0.222$, 22.2%
3. $15/18 = 0.833$, 83.3%

7.2

$19/724 = 0.0264$, 2.6% (GROSS RATE)

$(19-3)/(724-3) = 16/721 = 0.02219 = 2.2\%$ (NET DEATH RATE)

$6/19 = 0.31579 = 31.6\%$ (GROSS AUTOPSY RATE)

7.3

Gross rate - $267/18,521 = 0.014462$, 1.46%

Net death rate - $170/(267-20) = 0.063670$, 63.67%

Gross autopsy rate - $170/267 = 0.63670$, 63.67%

7.4

Gross rate - $35/1350 = 0.02592$, 2.59%

Net death rate - $12/32 = 0.37500$, 37.5%

Gross autopsy rate - $12/35 = 0.34287$, 34.29%

7.5

7.6

$13/27 = 0.48148$, 48.15%

7.7

A,b,c,e,f

7.8

Gross rate - $366/20,115 = 0.018195$, 1.82%

Net rate - $97/360 = 0.26944$, 26.94%

Gross autopsy rate - $97/366 = 0.26503$, 26.50%

Hospital rate - $109/372 = 0.29301$, 29.30%

7.9

$6/13 = 0.46154$, 46.15%

7.10

$10/27 = 0.37037 = 37.04\%$

7.11

Newborn autopsy rate = $1/2 = 0.500$, 50.0%

7.12

Newborn death rate- $500/966=0.0051759$, 0.52%

Newborn autopsy rate - $2/5 = 0.400000$, 40.00%

7.13

Newborn autopsy rate- $2/3=0.6666$, 66.67%

Fetal autopsy rate- $3/10 =0.30000$, 30.00%

7.14 on excel

Chapter 7 Matching

1.b

2.d

3.a

4.e

5.c

6.g

7.i

8.h

9.j

10.f

Chapter review

1. B

2. A

3. C

4. D

5. C

6. C

7. C

8. D

9. A

10. D

11. B

12. D

13. A

14. C

15. d

Chapter 8

8.1

Hospital acquired infection rate for adults and children - $18/2,190=0.008219$, 0.82%
Hospital acquired infection rate for newborn - $2/127=0.01574803$, 1.57%
Total hospital acquired infection rate = $20/2,317=0.00863185$, 0.86%
Gross mortality rate for this annual period = $14/2,317=0.0060423$, 0.60%

8.2 Excel

8.3

Postoperative infection rate = $14/2,176=0.00643382$, 0.64%
Postoperative mortality rate = $8/2,170=0.00368664$, 0.37%

8.4 Excel

1. March 0.15%
2. 0.50%
3. May 0.72%
4. 0.47%
5. 2.13%

8.5

Central line - $8/389=0.02056555$, 2.06%
Catheter line associated - $12/389=0.03084833$, 3.08%
Ventilator associated - $4/389=0.01028278$, 1.03%
Surgical site infections - $6/389=0.01542416$, 1.54%
Cardiovascular infections - $2/389=0.00514139$, 0.51%
Gastrointestinal infections - $3/389=0.00771208$, 0.77%
Skin and soft tissue infections - $1/389=0.00257069$, 0.26%
Ears, nose, and throat - $9/389=0.02313625$, 2.31%
Central nervous system infection - $7/389=0.01799486$, 1.80%
Systemic infection - $5/389=0.01285347$, 1.29%

8.6 excel

8.7 excel

8.8

C section rate = $101/504=0.20039683$, 20.04%
Vaginal delivery rate = $403/504=0.79960317$, 79.96%

8.9

C section rate - $20/130=0.15384615$, 15.38%
Newborn mortality rate - $1/130=0.00769231$, 0.77%
Fetal mortality rate - $4/134=0.02985075$, 2.99%

8.10

Medicine - $962/3,240=0.29691358$, 29.69%

Surgery - $827/3,754=0.22029835$, 22.08%

Obstetrics - $35/690=0.05072464$, 5.07%

Physicharic - $10/155=0.06451613$, 6.45%

Total $1834/7830=0.23422733$, 23.42%

8.11

Excel

8.12 excel

8.13 excel

8.14 eccel

8.15

Total of hospital patients in the medicine service- $5,967/9,845=0.60609446$, 60.61%

Complication rate for medicine service- $236/5,967=0.03955086$, 3.96%

Hospital acquired infection rate for medicine- $89/5,967=0.01491537$, 1.49%

Gross mortality rate for medicine service- $71/5,967=0.01189$, 1.1899%

Chapter 8 matching

1. G
2. A
3. E
4. C
5. J
6. D
7. B
8. I
9. H
10. f

Chapter 8 review

1. B
2. D
3. A
4. B
5. C
6. D
7. B
8. July -97.26%
August-99.55%
September 99.46%
Quarterly - 98.77%

- 9. D
- 10. A
- 11. C
- 12. D
- 13. B
- 14. A
- 15. D