New disease: COVID-27



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Treatment T: A (0) and B (1)

New disease: COVID-27

Treatment T: A (0) and B (1)

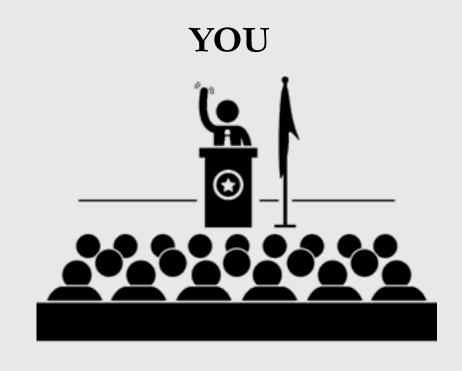


New disease: COVID-27



Treatment T: A (0) and B (1)

Condition C: mild (0) or severe (1)



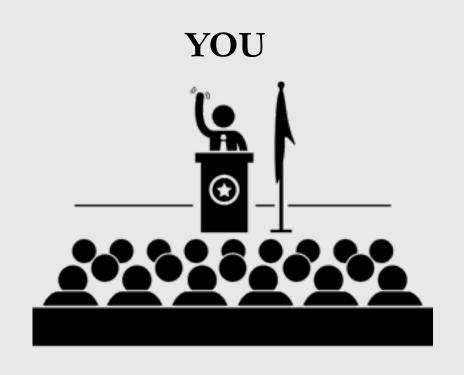
New disease: COVID-27



Treatment T: A (0) and B (1)

Condition C: mild (0) or severe (1)

Outcome Y: alive (0) or dead (1)



		Total
when't	A	<b>16%</b> (240/1500)
- Treatine nt	В	19% (105/550)
		$\mathbb{E}[Y T]$

		Mild	Severe	Total
- Treatment	A	15% (210/1400)	30% (30/100)	<b>16%</b> (240/1500)
Treatr	В	<b>10%</b> (5/50)	<b>20%</b> (100/500)	19% (105/550)
		$\mathbb{E}[Y T,C=0]$	$\mathbb{E}[Y T,C=1]$	$\mathbb{E}[Y T]$

### Condition

		Mild	Severe	Total
- Treatment	A	15% (210/1400)	30% (30/100)	<b>16%</b> (240/1500)
reali	В	<b>10%</b> (5/50)	<b>20%</b> (100/500)	19% (105/550)
		$\mathbb{E}[Y T C=0]$	$\mathbb{E}[Y T C=1]$	$\mathbb{E}[Y T]$

$$\mathbb{E}[Y|T, C=0] \qquad \mathbb{E}[Y|T, C=1] \qquad \qquad \mathbb{E}[Y|T]$$

$$\frac{1400}{1500} (0.15) + \frac{100}{1500} (0.30) = 0.16$$

$$\frac{50}{550} (0.10) + \frac{500}{550} (0.20) = 0.19$$

$$\frac{50}{550} (0.10) + \frac{500}{550} (0.20) = 0.19$$

Brady Neal

		Mild	Severe	Total
Treatment	A	15% (210/1400)	30% (30/100)	<b>16%</b> (240/1500)
Treati	В	<b>10%</b> (5/50)	<b>20%</b> (100/500)	19% (105/550)
		$\mathbb{E}[Y T,C=0]$	$\mathbb{E}[Y T,C=1]$	$\mathbb{E}[Y T]$

$$\frac{1400}{1500}(0.15) + \frac{100}{1500}(0.30) = 0.16$$

$$\frac{50}{550}(0.10) + \frac{500}{550}(0.20) = 0.19$$

$$\frac{50}{550} (0.10) + \frac{500}{550} (0.20) = 0.19$$

		Mild	Severe	Total
Treatinent.	A	15% (210/1400)	30% (30/100)	<b>16%</b> (240/1500)
Treati	В	<b>10%</b> (5/ <u>50</u> )	<b>20%</b> (100/ <u>500</u> )	19% (105/550)
		$\mathbb{E}[Y T,C=0]$	$\mathbb{E}[Y T,C=1]$	$\mathbb{E}[Y T]$

$$\boxed{\frac{1400}{1500}}(0.15) + \boxed{\frac{100}{1500}}(0.30) = 0.16$$

$$\frac{50}{550}(0.10) + \frac{500}{550}(0.20) = 0.19$$

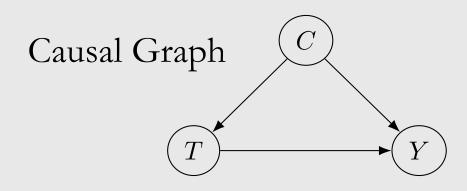
### Condition

		Mild	Severe	Total	
agent.	A	15% (210/ <u>1400</u> )	30% (30/100)	<b>16%</b> (240/1500)	$\frac{1400}{1500}(0.15) + \frac{100}{1500}(0.30) = 0.16$
Treatment.	В	<b>10%</b> (5/50)	<b>20%</b> (100/ <u>500</u> )	19% (105/550)	$\frac{50}{550}(0.10) + \frac{500}{550}(0.20) = 0.19$
		$\mathbb{E}[Y T,C=0]$	$\mathbb{E}[Y T,C=1]$	$\mathbb{E}[Y T]$	

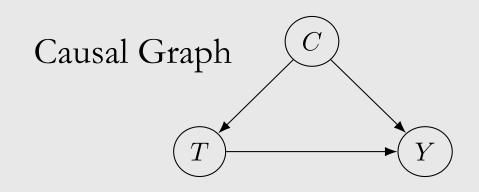
Which treatment should you choose?

		Mild	Severe	Total
reatment.	A	15% (210/1400)	30% (30/100)	<b>16%</b> (240/1500)
reali.	В	<b>10%</b> (5/50)	<b>20%</b> (100/500)	19% (105/550)

		Mild	Severe	Total
reatment	A	15% (210/1400)	30% (30/100)	<b>16%</b> (240/1500)
real.	В	<b>10%</b> (5/50)	<b>20%</b> (100/500)	19% (105/550)

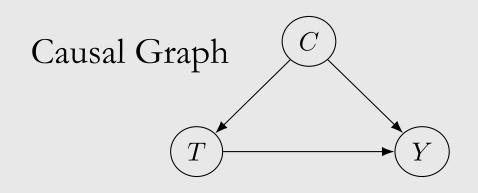


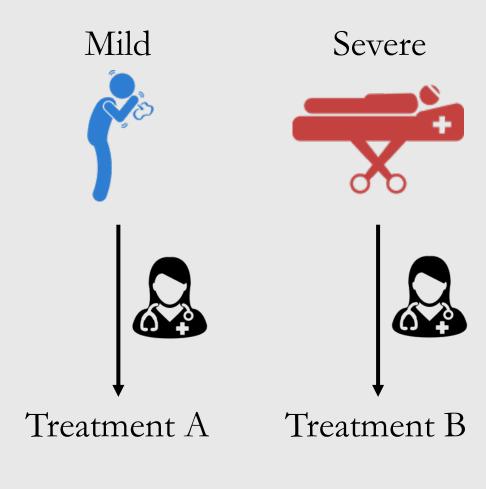
		Mild	Severe	Total
in't	A	15% (210/1400)	30% (30/100)	<b>16%</b> (240/1500)
	В	<b>10%</b> (5/ <u>50</u> )	<b>20%</b> (100/500)	19% (105/550)





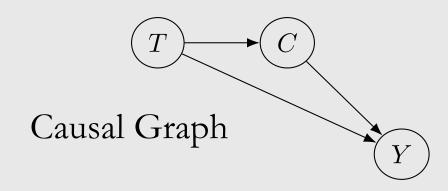
		Mild	Severe	Total
_	A	15% (210/1400)	30% (30/ <u>100</u> )	<b>16%</b> (240/1500)
	В	<b>10%</b> (5/ <u>50</u> )	<b>20%</b> (100/ <u>500</u> )	19% (105/550)



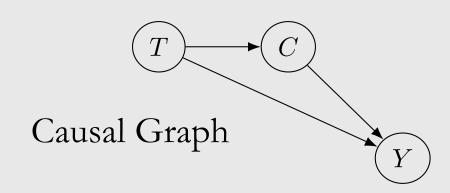


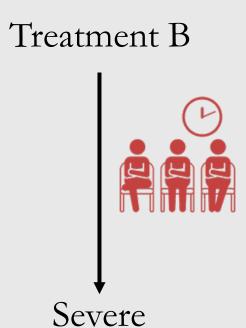
		Mild	Severe	Total
Treatment.	A	15% (210/1400)	30% (30/100)	<b>16%</b> (240/1500)
realing.	В	<b>10%</b> (5/50)	<b>20%</b> (100/500)	19% (105/550)

		Mild	Severe	Total
reatment.	A	15% (210/1400)	30% (30/100)	<b>16%</b> (240/1500)
reali.	В	<b>10%</b> (5/50)	<b>20%</b> (100/500)	19% (105/550)



		Mild	Severe	Total
athent	A	15% (210/1400)	30% (30/100)	<b>16%</b> (240/1500)
	В	<b>10%</b> (5/ <u>50</u> )	<b>20%</b> (100/ <u>500</u> )	19% (105/550)





		Mild	Severe	Total
,	A	15% (210/1400)	30% (30/ <u>100</u> )	<b>16%</b> (240/1500)
	В	<b>10%</b> (5/ <u>50</u> )	<b>20%</b> (100/ <u>500</u> )	19% (105/550)

