			The re	esults	
Disease	Number	++	+-	-+	
$d_1$	3215	2110	301	704	100
$d_2$	2125	396	132	1187	410
$d_3$	4660	510	3568	73	509
Total	10000				

$$P(d_1 \mid ++) = \frac{P(d_1)P(++ \mid d_1)}{P(d_1)P(++ \mid d_1) + P(d_2)P(++ \mid d_2) + P(d_3)P(++ \mid d_3)}$$

$$= \frac{0.3215 \times \frac{2110}{3215}}{0.3215 \times \frac{2110}{3215} + 0.2125 \times \frac{396}{2125} + 0.4660 \times \frac{510}{4660})}$$

$$= \frac{2110}{2110 + 396 + 510} = 0.6996...$$

	$d_1$		
$P(d_i \mid ++)$	.6996	.1313	.1691
$P(d_i \mid +-)$	.0752	.0330	.8918
$P(d_i \mid -+)$	.3585	.6044	.0372
$P(d_i \mid ++)$ $P(d_i \mid +-)$ $P(d_i \mid -+)$ $P(d_i \mid)$	.0981	.4024	.4995
	•		