

Insights

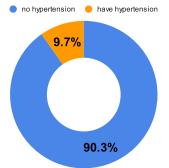
- * The patient distribution according to age category follows a fairly normal distribution with the exception of elderly patients that make up 3.64% of the data.
- * The highest number of patients belong to the middle aged adult bracket, which makes up 30.61% of the data.
- * The bar chart visualization of the age vs stroke distribution shows that the risk of having a heart attack increases as the patient ages.
- * Pediatric risk of stroke is 0.23% while elderly stroke risk is highest at 21.51%, which is almost twice as much as seniors.
- * Note that the number of elderly patients are only 3.64% of the data, therefore the smallest movements in occurence of stroke can make significant changes.

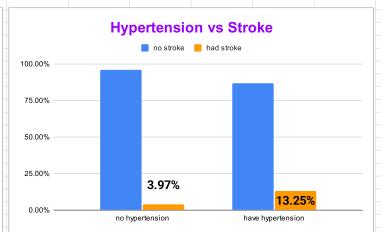
Hypertension Distribution Analysis

	stroke category	Values							
	no stroke			had stroke			Grand Total		
hypertension	Count	Row %	Column %	Count	Row %	Column %	Count	Row %	Column %
no hypertension	4429	96.03%	91.11%	183	3.97%	73.49%	4612	100.00%	90.25%
have hypertension	432	86.75%	8.89%	66	13.25%	26.51%	498	100.00%	9.75%
Grand Total	4861	95.13%	100.00%	249	4.87%	100.00%	5110	100.00%	100.00%

Hypertension Distribution

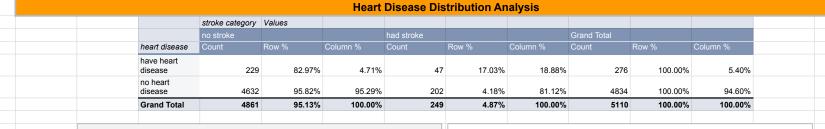
Nearly 1 in 10 patients in the group is diagnosed with hypertension

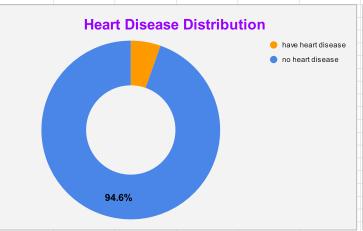


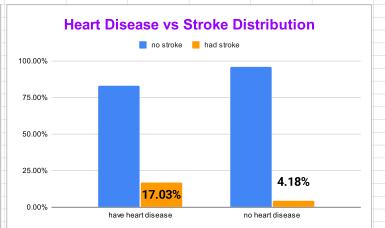


Insights

- * Nearly 1 in 10 patients have been diagnosed with hypertension, this represents a heavily imbalanced data distribution.
- * The risk of having a stroke for patients with hypertension is 13.25%, which is nearly four times as much as patients without hypertension (3.97%).



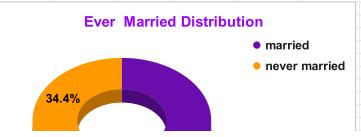


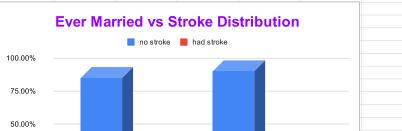


Insights

- * Only 5.4% of the data represents patients with heart disease.
- * Patients with heart disease posts a risk of 17.03% of having a stroke this is the highest risk percentage that we have observed so far.
- * Patients with heart disease is a little more than four times as likely to have a stroke than patients with no heart disease (4.18%)

Heart Disease Distribution Analysis													
		stroke category	Values										
		no stroke			had stroke			Grand Total					
	ever married	Count	Row %	Column %	Count	Row %	Column %	Count	Row %	Column %			
	married	3133	93.44%	64.45%	220	6.56%	88.35%	3353	100.00%	65.62%			
	never married	1728	98.35%	35.55%	29	1.65%	11.65%	1757	100.00%	34.38%			
	Grand Total	4861	95.13%	100.00%	249	4.87%	100.00%	5110	100.00%	100.00%			





	65.6%				- - - - - - - - -	25.00%	n	6.56%	ln	1.65% ever married			
	Insights												
* Married and o	* Married and once married patients make up 65.6% of the data, which is almost under twice as much as the never married patients (34.4%)												
* Married and o	nce married patier	nts have a 6.56% li	kelyhood of havir	ng a stroke while o	only patients taht v	vere never marrie	d only have a 1.65	5% risk of having	a stroke - around	four times less lik	ely to have a strol	ke.	
			Ever										