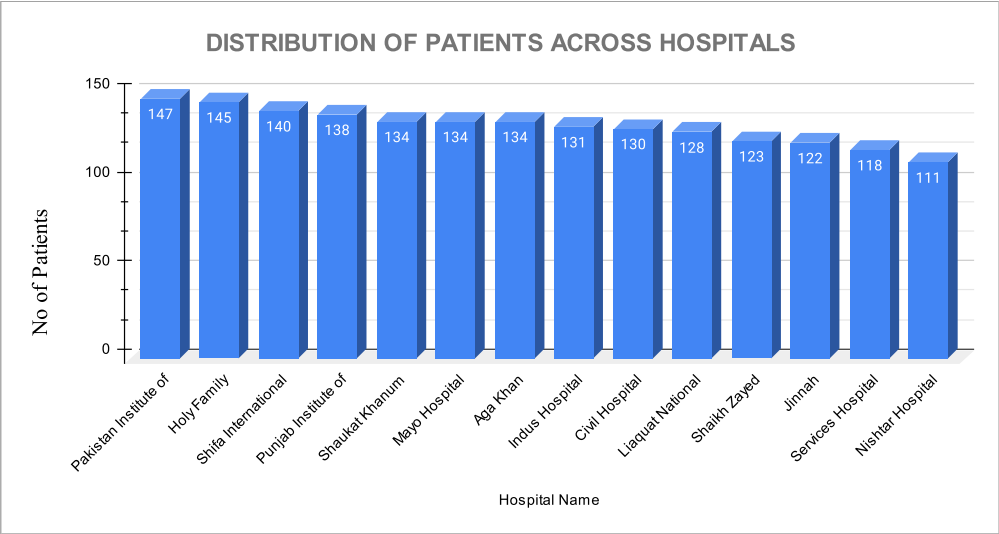


Excel Portfolio Project:

## Health Data Analysis in Pakistan

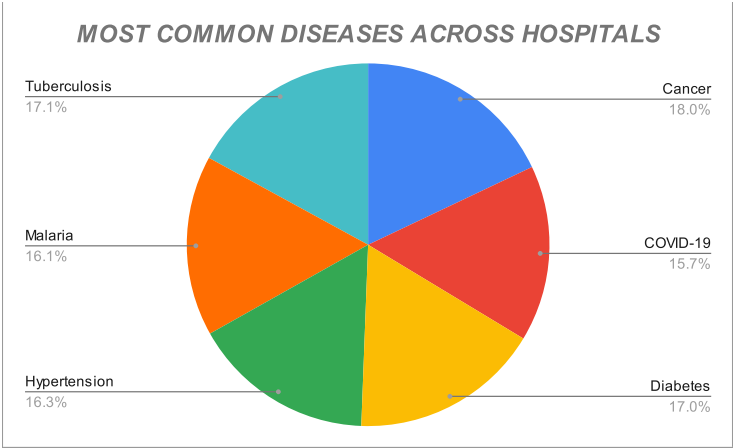
**Hospital Statistics:** What is the distribution of patients across different hospitals?

Hospital Name	COUNTA of Patient N
Lady Reading Hospital	165
Pakistan Institute of Medicine	147
Holy Family Hospital	145
Shifa International Hospital	140
Punjab Institute of Cardiology	138
Shaukat Khanum Memorial	134
Mayo Hospital	134
Aga Khan University Hospital	134
Indus Hospital	131
Civil Hospital Karachi	130
Liaquat National Hospital	128
Shaikh Zayed Hospital	123
Jinnah Postgraduate Medical Center	122
Services Hospital	118
Nishtar Hospital	111
Grand Total	2000



**Disease Frequency:** What are the most common diseases treated in these hospitals?

Disease	COUNTA of Patient N
Cancer	359
COVID-19	314
Diabetes	339
Hypertension	325
Malaria	322
Tuberculosis	341

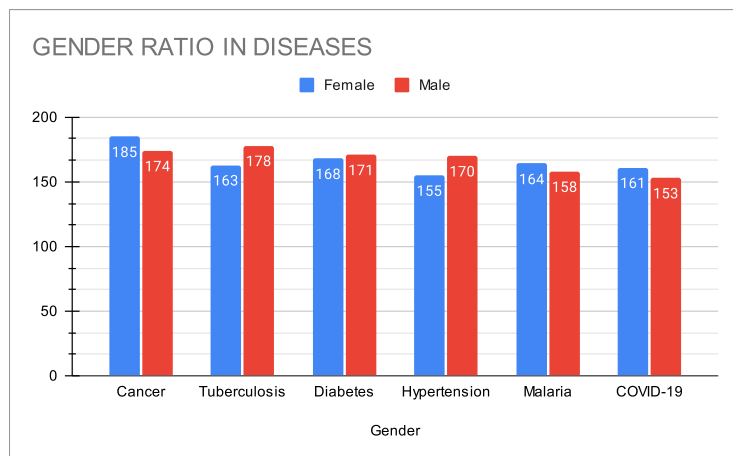


**Age Distribution:** What is the age distribution of patients in each hospital?

COUNTA of Patient Name	Age Range						
Hospital Name	0-17	18-29	30-39	40-49	50-59	60+	
Aga Khan University Hospital		24	18	12	13	15	52
Civil Hospital Karachi		18	13	15	9	16	59
Holy Family Hospital		25	16	15	16	16	57
Indus Hospital		21	7	13	18	18	54
Jinnah Postgraduate Medical Centre		26	13	8	12	11	52
Lady Reading Hospital		31	21	20	14	17	62
Liaquat National Hospital		17	18	20	7	13	53
Mayo Hospital		30	13	15	12	17	47
Nishtar Hospital		21	14	12	12	4	48
Pakistan Institute of Medical Sciences		29	19	13	17	12	57
Punjab Institute of Cardiology		24	19	17	7	13	58
Services Hospital		18	13	14	13	11	49
Shaikh Zayed Hospital		20	9	9	21	9	55
Shaukat Khanum Memorial Cancer Hospital		19	16	15	14	14	56
Shifa International Hospital		21	18	11	14	14	62

**Gender Ratio:** What is the gender ratio of patients for each disease?

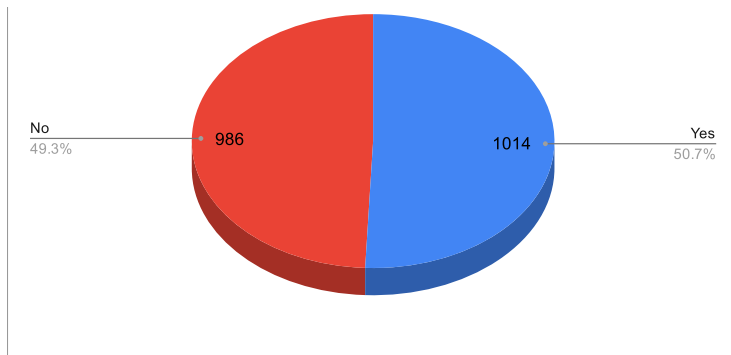
COUNTA of Patient Name	Disease					
Gender	Cancer	Tuberculosis	Diabetes	Hypertension	Malaria	COVID-19
Female	185	163	168	155	164	161
Male	174	178	171	170	158	153
Grand Total	359	341	339	325	322	314



**Insurance Coverage:** What percentage of patients had insurance coverage?

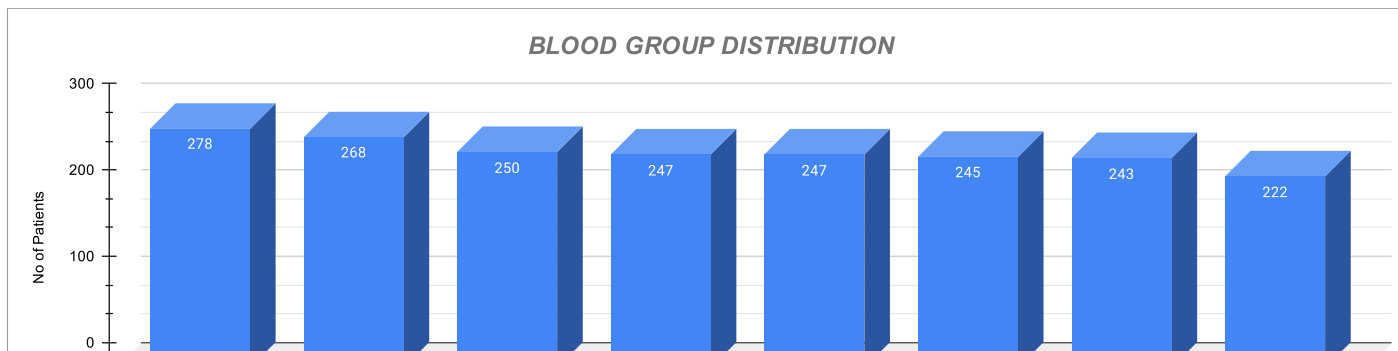
Insurance	COUNTA of Patient N
Yes	1014
No	986
Grand Total	2000

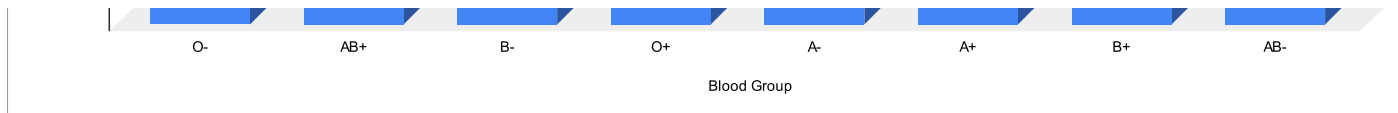
PATIENTS WITH AND WITHOUT INSURANCE



**Blood Group Distribution:** What is the distribution of blood groups among the patients?

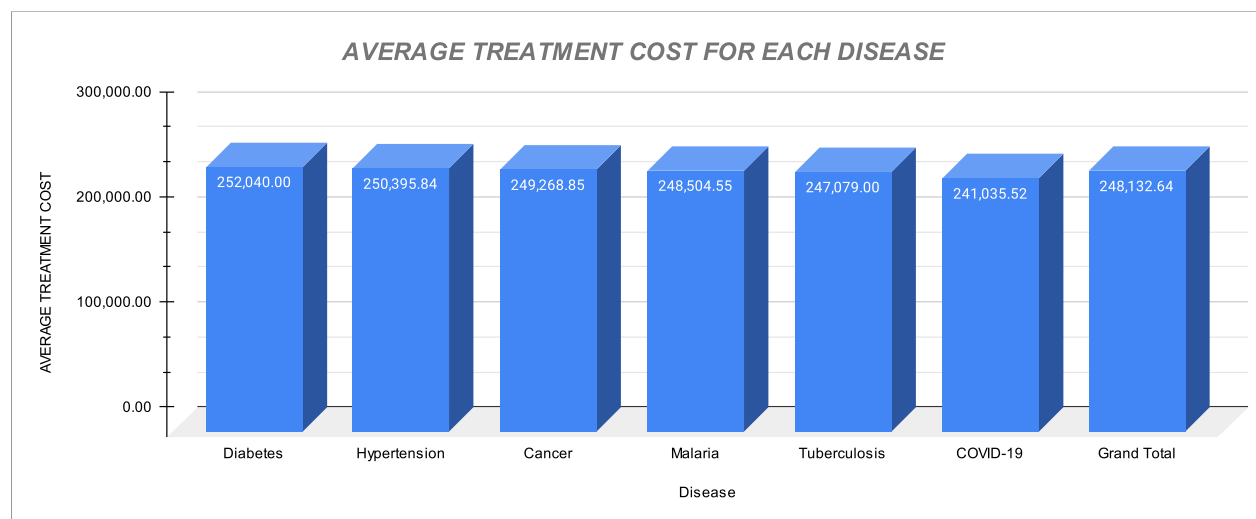
Blood Group	COUNTA of Patient N
O-	278
AB+	268
B-	250
O+	247
A-	247
A+	245
B+	243
AB-	222





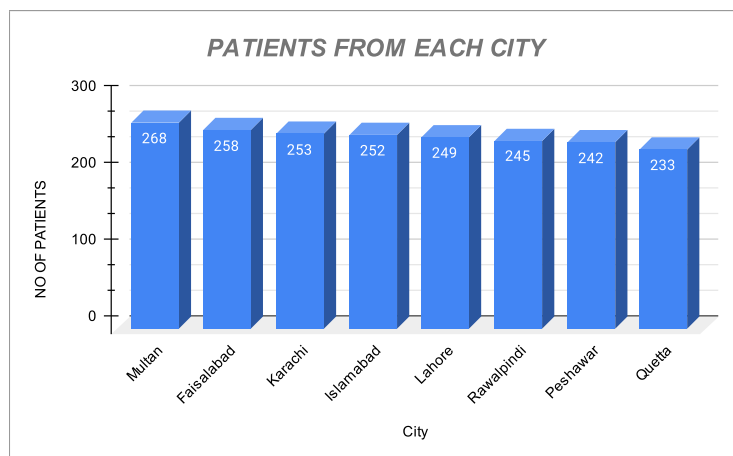
**Treatment Cost Analysis:** What is the average treatment cost for each disease?

Disease	AVERAGE of Treatm
Diabetes	252,040.00
Hypertension	250,395.84
Cancer	249,268.85
Malaria	248,504.55
Tuberculosis	247,079.00
COVID-19	241,035.52
<b>Grand Total</b>	<b>248,133</b>



**City-wise Patient Count:** How many patients are from each city?

City	COUNTA of Patient N
Multan	268
Faisalabad	258
Karachi	253
Islamabad	252
Lahore	249
Rawalpindi	245
Peshawar	242
Quetta	233

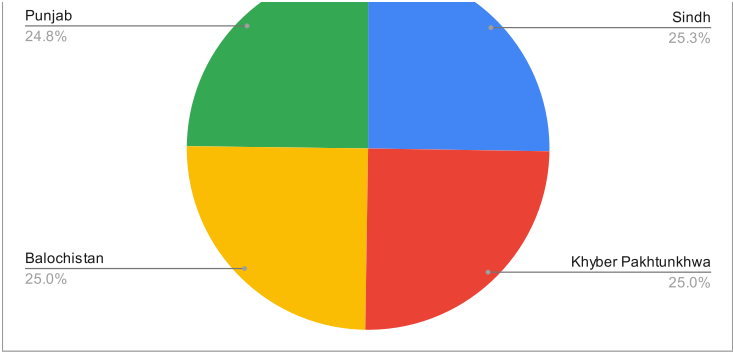


**Province-wise Patient Count:** How many patients are from each province?

Province	COUNTA of Patient N
Sindh	505
Khyber Pakhtunkhwa	500
Balochistan	499
Punjab	496

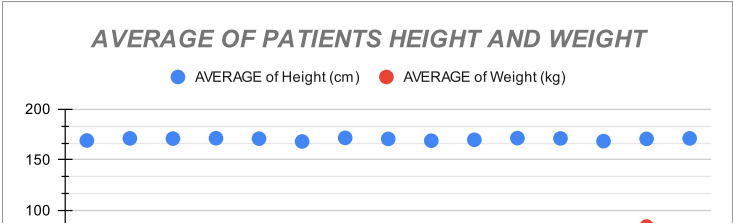
COUNTA of Patient Name

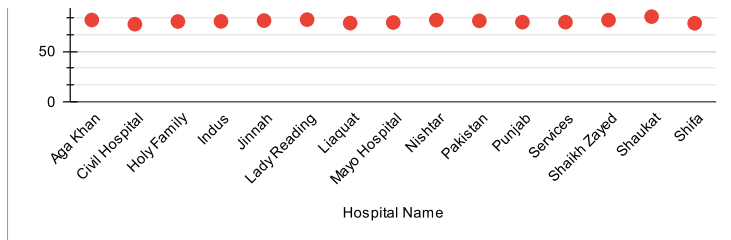




**Height and Weight Statistics:** What is the average height and weight of patients in each hospital?

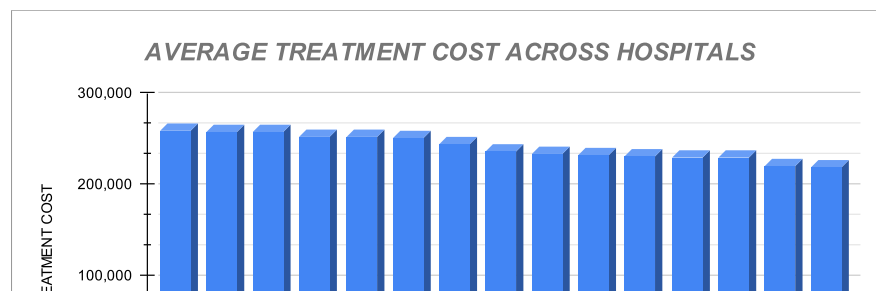
Hospital Name	AVERAGE of Height	AVERAGE of Weight
Aga Khan University Hospital	169	81
Civil Hospital Karachi	171	77
Holy Family Hospital	171	79
Indus Hospital	171	80
Jinnah Postgraduate Medical Centre	171	80
Lady Reading Hospital	168	81
Liaquat National Hospital	172	78
Mayo Hospital	171	78
Nishtar Hospital	169	81
Pakistan Institute of Medical Sciences	170	80
Punjab Institute of Cardiology	171	79
Services Hospital	171	79
Shaikh Zayed Hospital	168	81
Shaukat Khanum Memorial Cancer Hospital	171	84
Shifa International Hospital	171	78



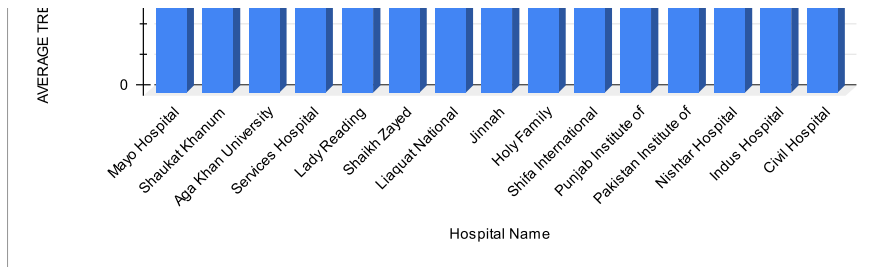


**Treatment Cost by Hospital:** How does the average treatment cost vary across different hospitals?

Hospital Name	AVERAGE of Treatm
Mayo Hospital	266,666
Shaukat Khanum Memorial	265,875
Aga Khan University Hospi	264,980
Services Hospital	260,239
Lady Reading Hospital	259,920
Shaikh Zayed Hospital	258,269
Liaquat National Hospital	252,572
Jinnah Postgraduate Medic	244,359
Holy Family Hospital	241,188
Shifa International Hospital	239,466
Punjab Institute of Cardiol	239,105
Pakistan Institute of Medic	236,607
Nishtar Hospital	236,582
Indus Hospital	228,396
Civil Hospital Karachi	226,452

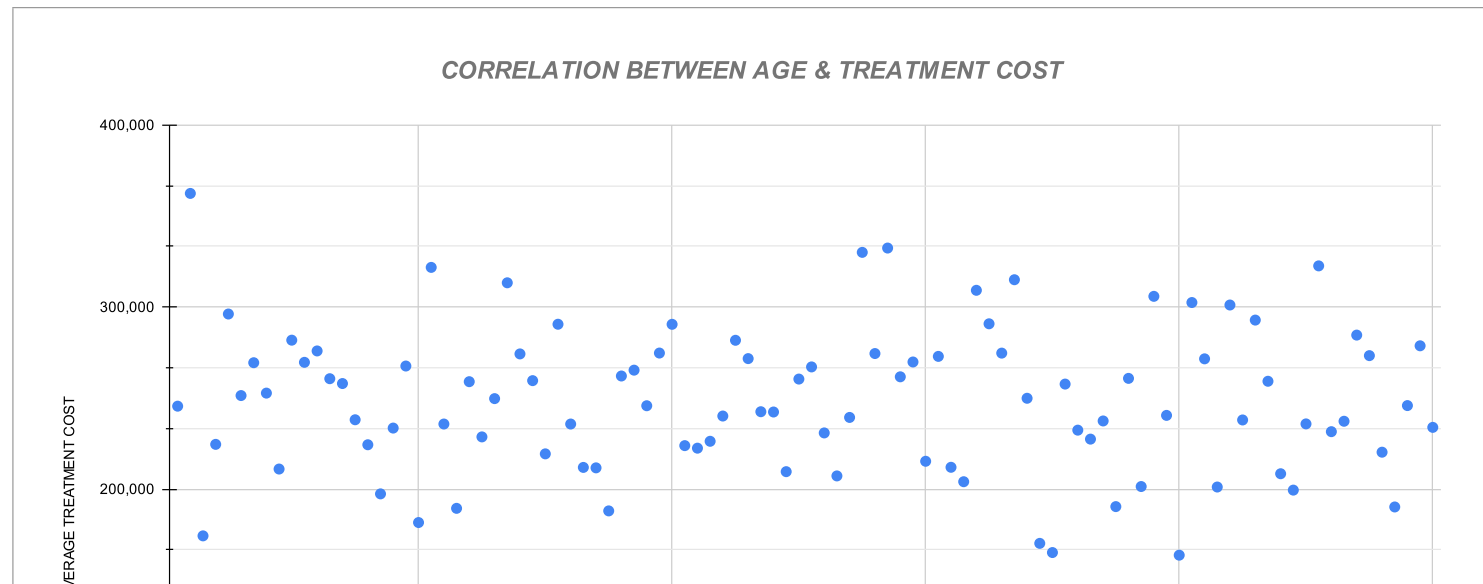




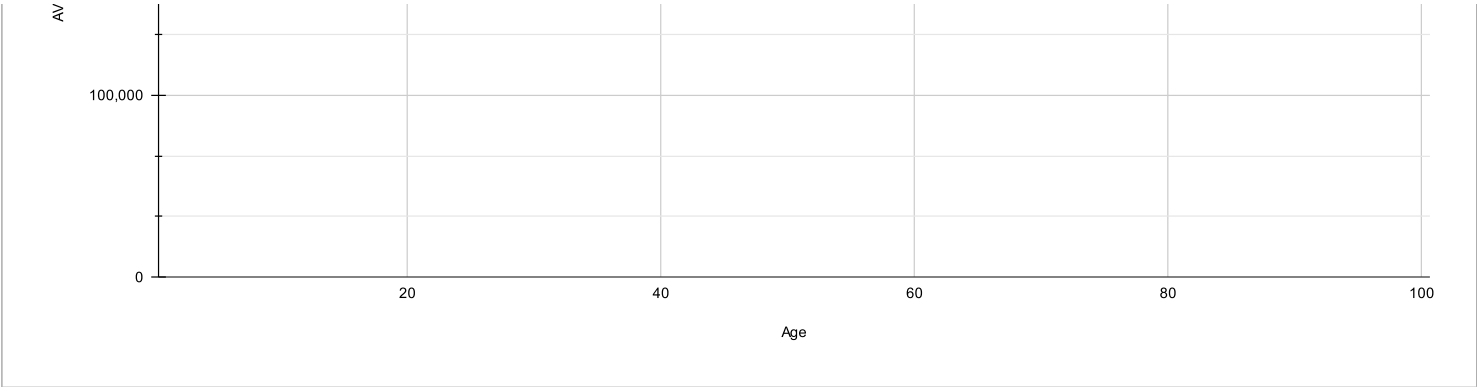


**Patient Age vs. Treatment Cost:** Is there a correlation between the age of patients and the treatment cost?

Age	AVERAGE of Treatm
1	245,588
2	362,478
3	174,334
4	224,607
5	296,222
6	251,419
7	269,463
8	252,763
9	211,048
10	281,849
11	269,674
12	275,933
13	260,679
14	258,023
15	238,123
16	224,393
17	197,404
18	233,556
19	267,644
20	181,657
21	321,838
22	235,780
23	189,458
24	259,046
25	228,707
26	249,738
27	313,375
28	274,297
29	259,618



30	219,388
31	290,599
32	235,777
33	211,940
34	211,701
35	188,051
36	262,166
37	265,372
38	245,827
39	274,773
40	290,561
41	223,910
42	222,515
43	226,295
44	240,172
45	281,785
46	271,723
47	242,543
48	242,384
49	209,608
50	260,480
51	267,154
52	230,889
53	207,264
54	239,403
55	330,094
56	274,504
57	332,461
58	261,720
59	269,864
60	215,314
61	272,942
62	212,008
63	204,083
64	309,247
65	290,848
66	274,736
67	315,058
68	249,928
69	170,213
70	165,167
71	257,726
72	232,414
73	227,483
74	237,463
75	190,409
76	260,859
77	201,439
78	305,931
79	240,526
80	163,726
81	302,533
82	271,596



83	201,169
84	301,168
85	238,012
86	292,883
87	259,272
88	208,467
89	199,465
90	235,842
91	322,666
92	231,580
93	237,297
94	284,637
95	273,356
96	220,301
97	190,212
98	245,915
99	278,760
100	233,944

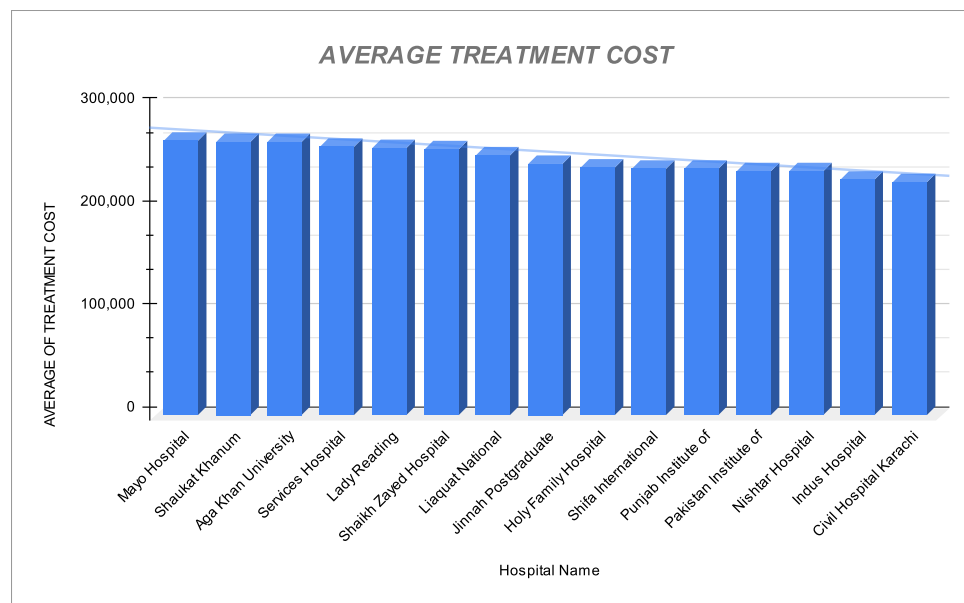
**Disease by City:** What are the most common diseases in each city?

City	Disease	COUNTA of Patient N
Multan Total		268
Faisalabad Total		258
Karachi Total		253
Islamabad Total		252
Lahore Total		249
Rawalpindi Total		245
Peshawar Total		242
Quetta Total		233

**Hospital Performance:** Which hospital has the highest average treatment cost and which has the lowest?

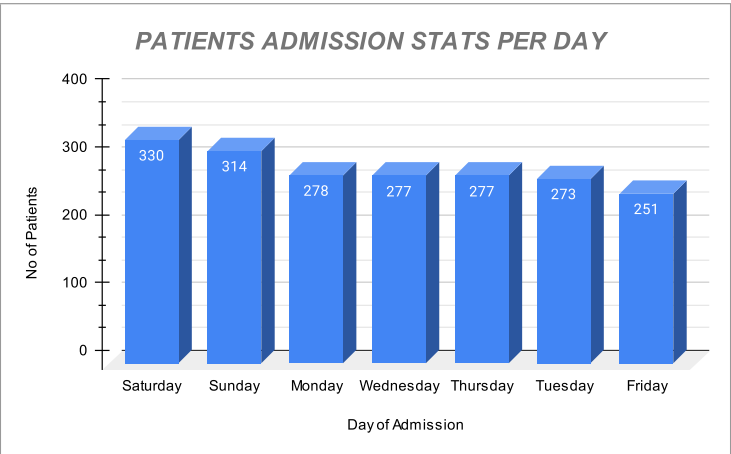
Hospital Name	AVERAGE of Treatm
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Lady Reading Hospital	259,920
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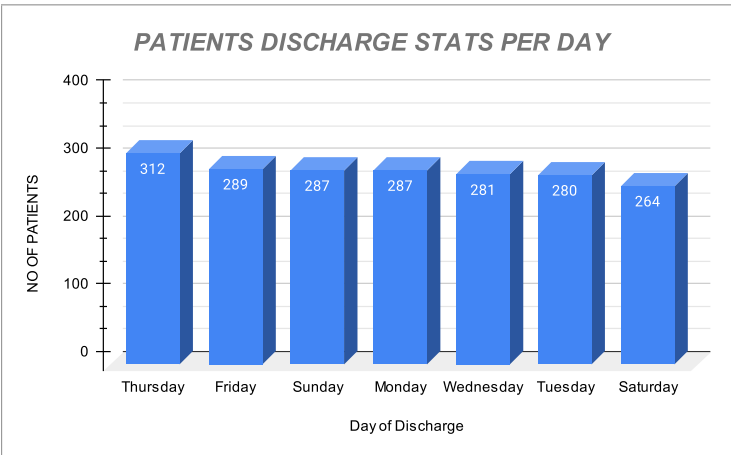
**Admission and Discharge Dates:** What are the peak times for admissions and discharges in each hospital?

Day of Admission	COUNTA of Patient N
Saturday	330
Sunday	314
Monday	278
Wednesday	277
Thursday	277
Tuesday	273
Friday	251



Month of Admission	COUNTA of Patient N
January	324
February	296
March	271
April	262
May	204
July	172
June	151
August	137

Day of Discharge	COUNTA of Patient N
Thursday	312
Friday	289
Sunday	287
Monday	287
Wednesday	281
Tuesday	280
Saturday	264



Month of Discharge	COUNTA of Patient N
December	293
November	280
September	256
October	256
August	208
July	181
May	149
June	146
April	100

September	88
October	61
November	28
December	6

March	74
February	45
January	12

