



## **ODUNA MEDICAL MISSION**

*Held at*

**OFFA, KWARA STATE, NIGERIA**

*Between*

**January 15th - 19th 2024**

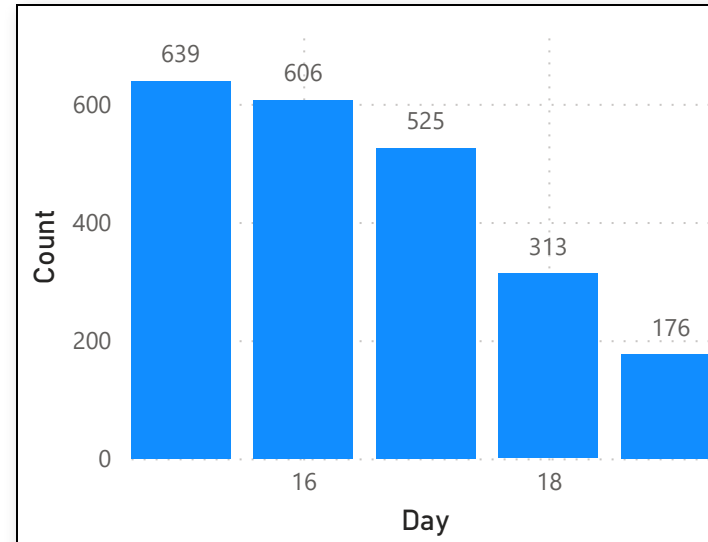
**DATA ANALYSIS**

## Number of Patients Registered per Day

Total Number of Patients Registered

# 2259

Number of Patients	Year	Month	Day
639	2024	January	15
606	2024	January	16
525	2024	January	17
313	2024	January	18
176	2024	January	19



### Insights:

High Patient Load at Start:

- January 15: 645 patients
- January 16: 671 patients (peak)

Gradual Decline:

- January 17: 622 patients
- January 18: 329 patients
- January 19: 281 patients

### Recommendations:

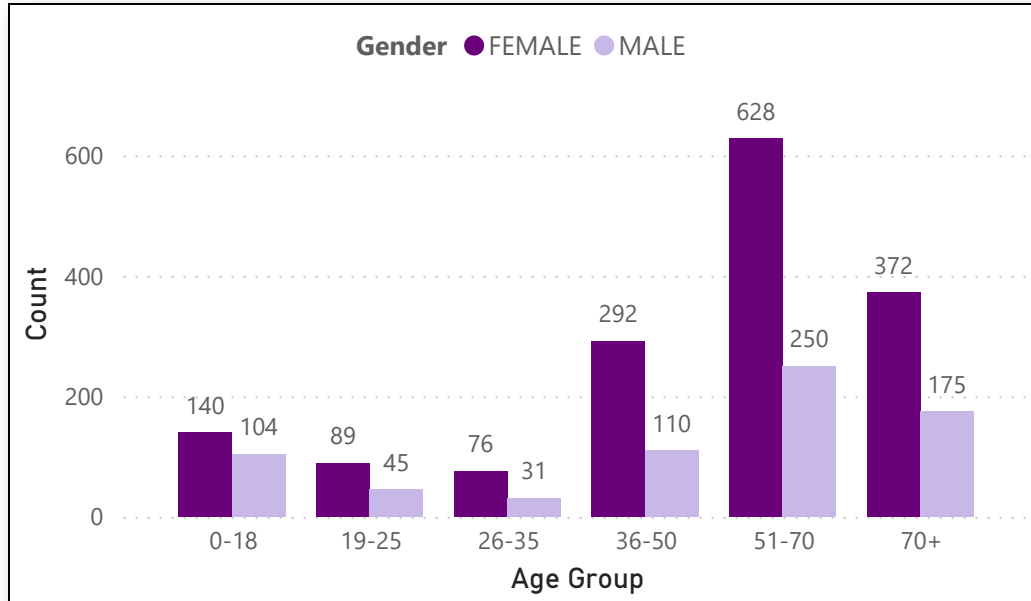
Resource Allocation:

- Ensure sufficient staff and resources to handle high patient volume.
- Adjust staffing levels downward the last two days as patient numbers decline.

Patient Management:

- Implement strategies for efficient patient management and scheduling during peak days to avoid overloading the system.

# Number of Patients Registered by Gender and by Age Group



Age Group	FEMALE	MALE
0-18	140	104
19-25	89	45
26-35	76	31
36-50	292	110
51-70	628	250
70+	372	175

### Insights:

**Dominance of Female Patients:** Female patients consistently outnumber male patients across all age groups.

**High Patient Count in Older Age Groups:** The highest counts are in the 51-70 age group, especially among females (629).

**Significant Drop in Young Adult Males:** There is a notable drop in the number of male patients in the 19-25 and 26-35 age groups.

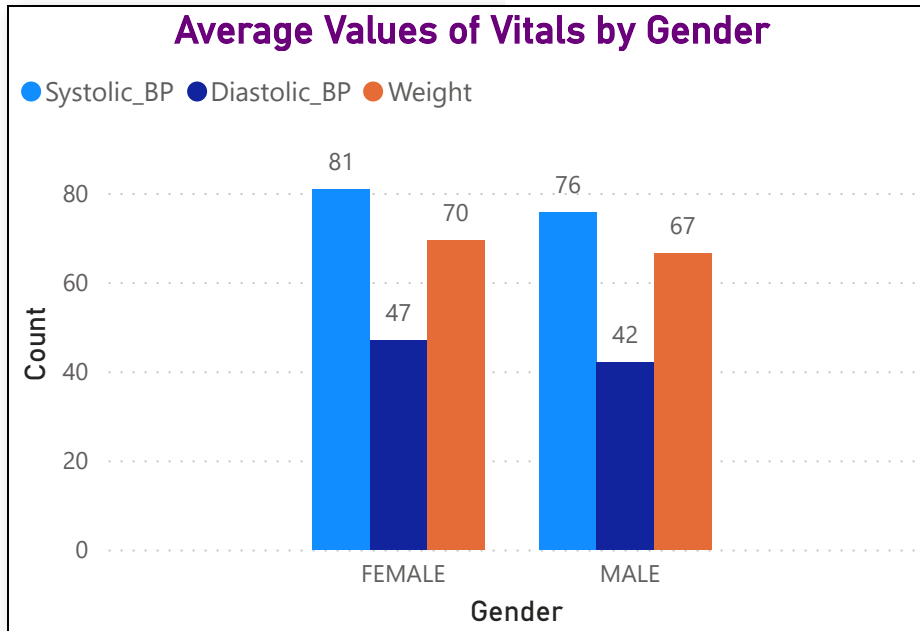
### Recommendations:

**Targeted Health Programs:** Implement specific health programs targeting high patient counts in the 51-70 and 70+ age groups, with a focus on females.

**Male Health Initiatives:** Develop outreach and health initiatives to encourage young adult males (19-35) to seek medical care more frequently.

**Resource Allocation:** Allocate more medical resources and staff to cater to the older age groups, especially females aged 51-70, due to their higher patient numbers.

# Analysis of Vitals by Gender



Gender	Systolic_BP	Diastolic_BP	Weight
FEMALE	81	47	70
MALE	76	42	67

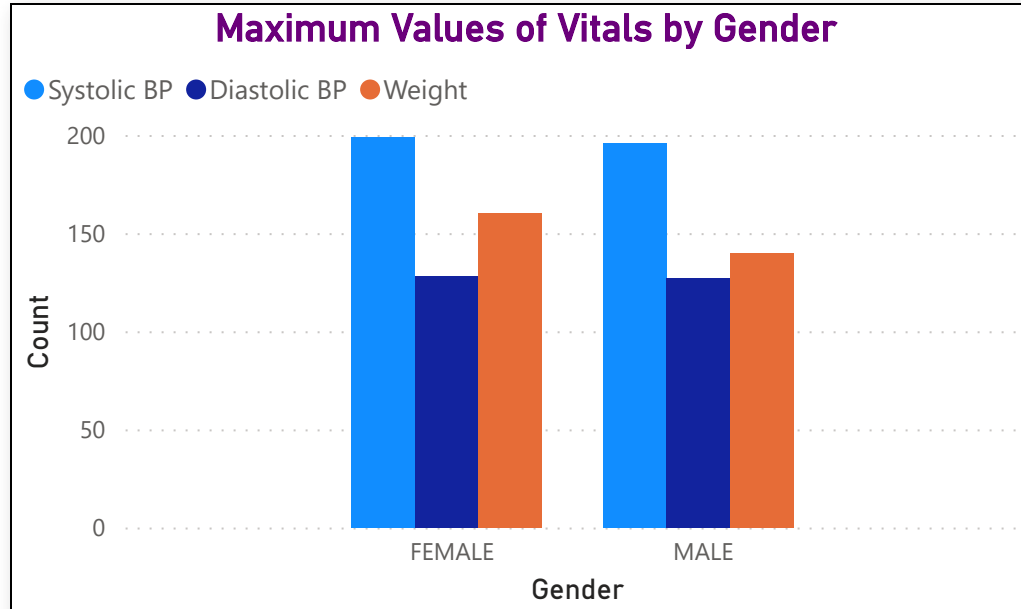
### Insight:

The female patient has a higher diastolic blood pressure (46.95) compared to the male patient, whose diastolic blood pressure is (42.02). Both patients have relatively similar weights, with the female slightly heavier (69.52 kg) than the male (66.53 kg).

### Recommendation:

Monitor the female patient closely for potential health issues related to higher diastolic blood pressure. Implement lifestyle or medical interventions as necessary to manage these metrics. For the male patient, continue regular monitoring and encourage a healthy lifestyle to maintain or improve current health metrics.

# Analysis of Vitals by Gender



**Insight:** The maximum recorded values for vitals show that the female has a systolic BP of 199, weight of 160 kg, and diastolic BP of 128. The male has a systolic BP of 160, weight of 140 kg, and diastolic BP of 127.

**Recommendation:** individuals with the above value need immediate medical attention to address these critical values. Implement comprehensive health management plans, including lifestyle changes and regular monitoring, to reduce these extreme values and mitigate associated health risks.

Gender	Systolic_BP	Diastolic_BP	Weight
FEMALE	199	128	160
MALE	196	127	140

Gender	Systolic_BP	Diastolic_BP	Weight
FEMALE	27	18	21
MALE	30	18	19

Gender	Systolic_BP	Diastolic_BP	Weight
FEMALE	133	81	70
MALE	132	80	70

# Analysis of BMI

BMI Scale by Gender

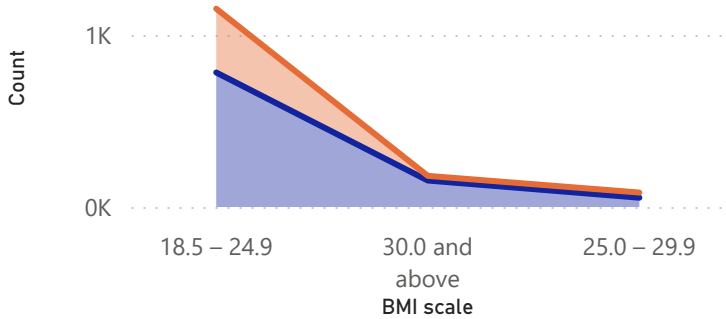
Gender	18.5 – 24.9	25.0 – 29.9	30.0 and above	Total
FEMALE	782	54	154	<b>990</b>
MALE	371	30	27	<b>428</b>
<b>Total</b>	<b>1153</b>	<b>84</b>	<b>181</b>	<b>1418</b>

BMI scale by Age Group

Age Group	18.5 – 24.9	25.0 – 29.9	30.0 and above	Total
0-18	133	3	3	<b>139</b>
19-25	64	6	3	<b>73</b>
26-35	57	5	15	<b>77</b>
36-50	198	17	40	<b>255</b>
51-70	425	34	84	<b>543</b>
70+	276	19	36	<b>331</b>
<b>Total</b>	<b>1153</b>	<b>84</b>	<b>181</b>	<b>1418</b>

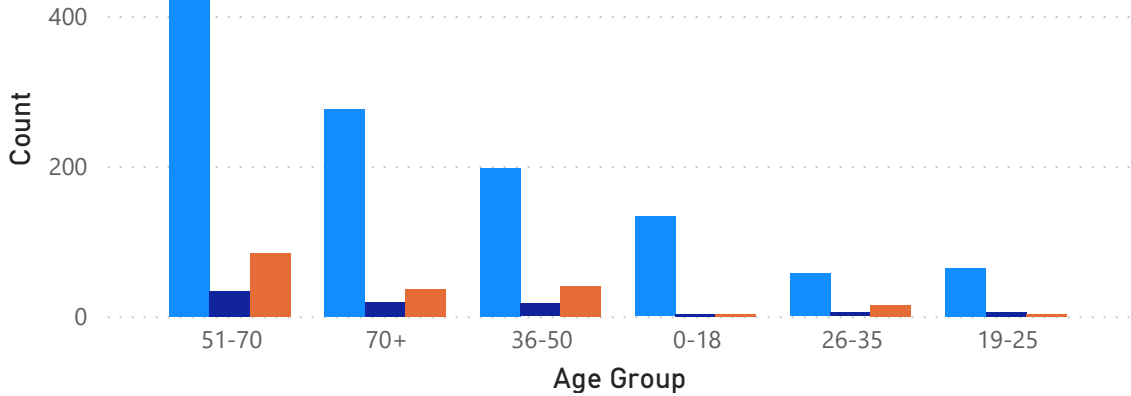
BMI Scale by Gender

Gender ● FEMALE ● MALE



BMI scale by Age Group

BMI scale ● 18.5 – 24.9 ● 25.0 – 29.9 ● 30.0 and above



### Systolic BP by Age Group By Gender (Male)

age group	0-89	120-139	140-159	160+	90-119
0-18	51		1		7
19-25	22	8	1	1	12
26-35	11	10			10
36-50	44	30	15	4	16
51-70	97	44	40	33	32
70+	71	33	31	23	15

**Insight:**

Age-specific BP Patterns: The data highlights how systolic blood pressure (BP) varies across different age groups. Prevalence of Hypertension: Older age groups, particularly those 51 years old and above, exhibit higher counts in hypertensive BP ranges (140-159 and 160+). Normal BP Distribution: Younger age groups, such as 0-18 and 19-25, predominantly fall into normal BP ranges (0-89 and 90-119).

**Recommendations:**

Implement targeted screening programs for hypertension in older age groups (51-70 and 70+), focusing on BP ranges 140-159 and 160+..

### Diastolic BP by Age Group By Gender (Male)

age group	0-60	100+	60-79	80-89	90-99
0-18	97		6	1	
19-25	29	1	9	4	2
26-35	12		11	7	1
36-50	48	7	24	17	14
51-70	111	25	43	41	30
70+	79	14	38	28	16

**Insight:**

Most male fall into the lowest BP range (0-60). Higher Diastolic BP in Older Adults: Higher BP ranges (80-89, 90-99, 100+) are more common in those aged 51-70 and 70+.

**Recommendations:**

Focused Monitoring: Regularly monitor older adults (51-70 and 70+) for higher BP ranges. Preventative Measures: Promote lifestyle changes in middle-aged groups (36-50) to prevent high BP. Public Health Campaigns: Raise awareness about maintaining healthy BP levels across all age groups.

### Systolic BP by Age Group By Gender (Female)

age group	0-89	120-139	140-159	160+	90-119
0-18	69	2	1		22
19-25	43	9	1		33
26-35	20	19	2	2	31
36-50	108	63	31	26	62
51-70	244	116	124	82	60
70+	148	77	59	46	36

### Diastolic BP by Age Group By Gender (Female)

age group	0-60	100+	60-79	80-89	90-99
0-18	123		14	2	1
19-25	51	1	29	8	
26-35	28	3	32	10	3
36-50	116	25	80	52	19
51-70	255	61	116	112	84
70+	173	29	73	56	41

#### Insights:

Systolic BP Patterns: Younger age groups (0-18, 19-25) mostly have systolic BP in the 0-89 and 90-119 ranges.

High BP in Older Adults: Higher systolic BP ranges (140-159, 160+) are more common in older age groups (51-70, 70+).

Prevalence of Low BP: The 0-89 BP range is prevalent across all age groups, especially in the 51-70 age group.

#### Recommendations:

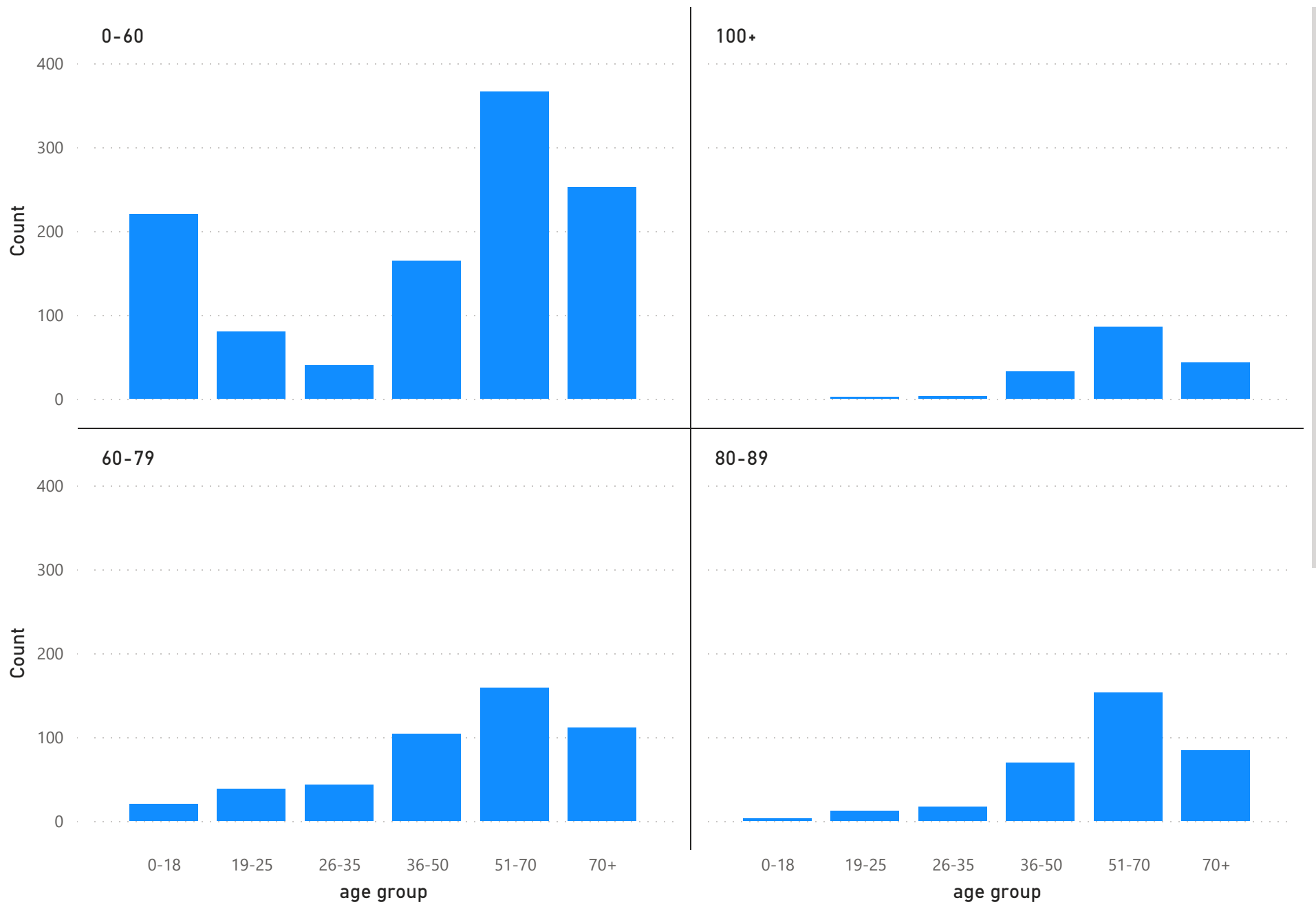
Targeted Screening: Focus on regular BP screening for older adults (51-70, 70+), especially for those in higher BP ranges.

Preventative Health Measures: Encourage lifestyle changes in middle-aged adults (36-50) to prevent the development of high BP.

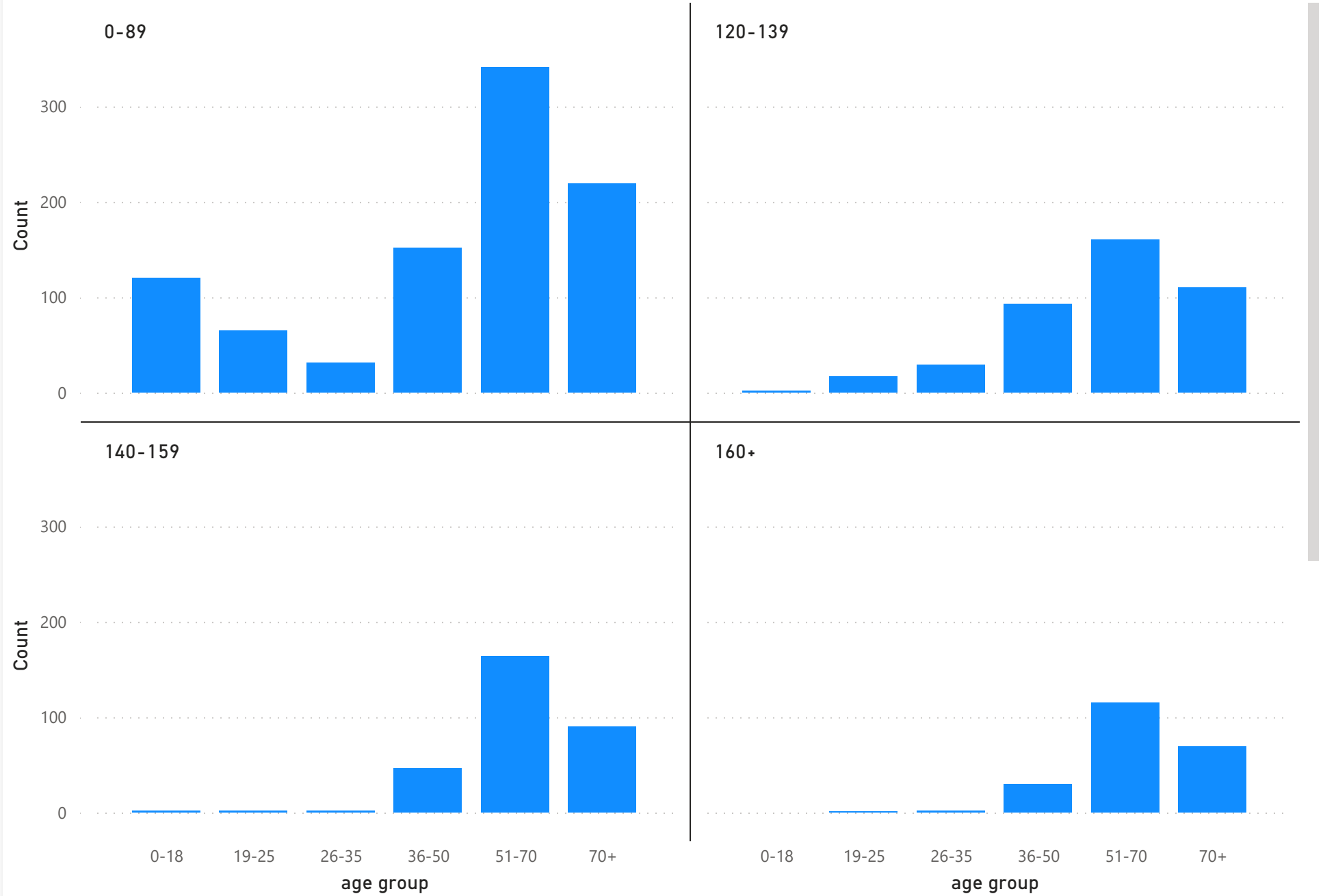
Public Awareness: Raise awareness about maintaining healthy BP levels, emphasizing both young and older populations.



# Diastolic BP by Age Group



# Systolic BP by Age Group



## Medical History by Gender

Gender	Diabetes	Arthritis	Pains	Ophthalmic	Ulcer	Hypertension
FEMALE	32	52	16	123	74	139
MALE	9	8	5	44	5	26

### Insights:

**Higher Prevalence in Females:** Females have significantly higher counts in all medical conditions compared to males.

**Top Conditions in Females:** The most prevalent conditions in females are hypertension (139), ophthalmic issues (123), and ulcer (74).

**Top Conditions in Males:** The most common conditions in males are ophthalmic issues (44) and hypertension (26).

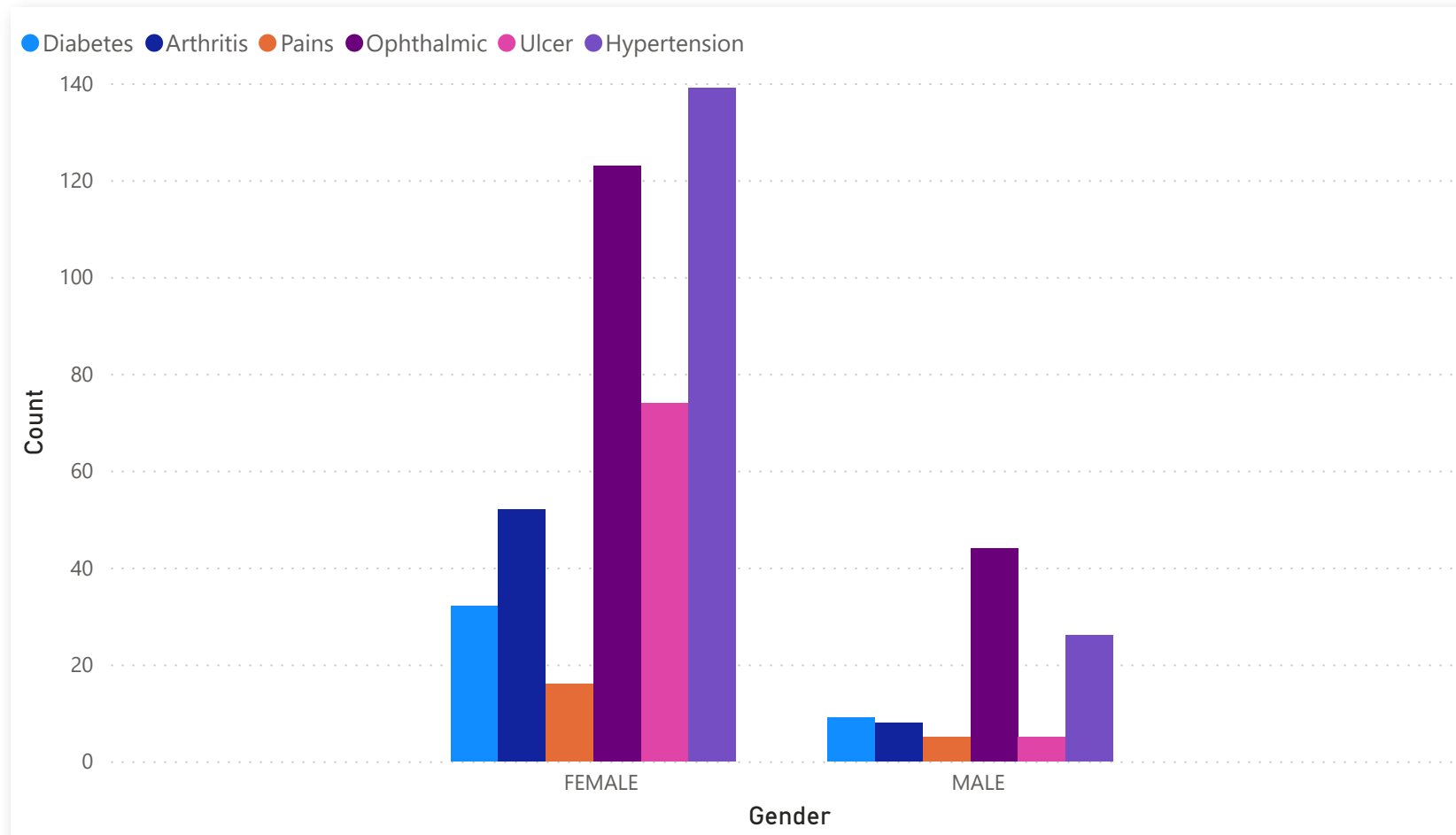
**Low Counts in Males:** Males have notably low counts in pains (5) and ulcers (5).

### Recommendations:

**Focus on Female Health:** Prioritize healthcare programs and resources to address hypertension, ophthalmic issues, and ulcers in females.

**Increase Male Health Awareness:** Develop campaigns to raise awareness and encourage males to seek medical care, especially for ophthalmic and hypertension issues.

# Medical History by Gender



## Medical History by Age Group

Age Group	Diabetes	Arthritis	Pains	Ophthalmic	Ulcer	Hypertension
0-18				13		1
19-25			1	9	3	1
26-35		1	2	5	5	
36-50	3	5	1	22	14	15
51-70	25	39	13	93	48	109
70+	13	15	4	25	9	39

### Insights:

**High Prevalence in Older Age Groups:** The 51-70 age group has the highest counts across most conditions: arthritis (64), diabetes (39), hypertension (169), ophthalmic issues (138), pains (26), and ulcers (73). The 70+ age group also has significant counts but lower than the 51-70 age group in most conditions.

**Low Prevalence in Younger Age Groups:** The 0-18 age group has minimal counts, with only 2 cases of diabetes. The 19-25 age group has very low counts, with the highest being 16 cases of diabetes.

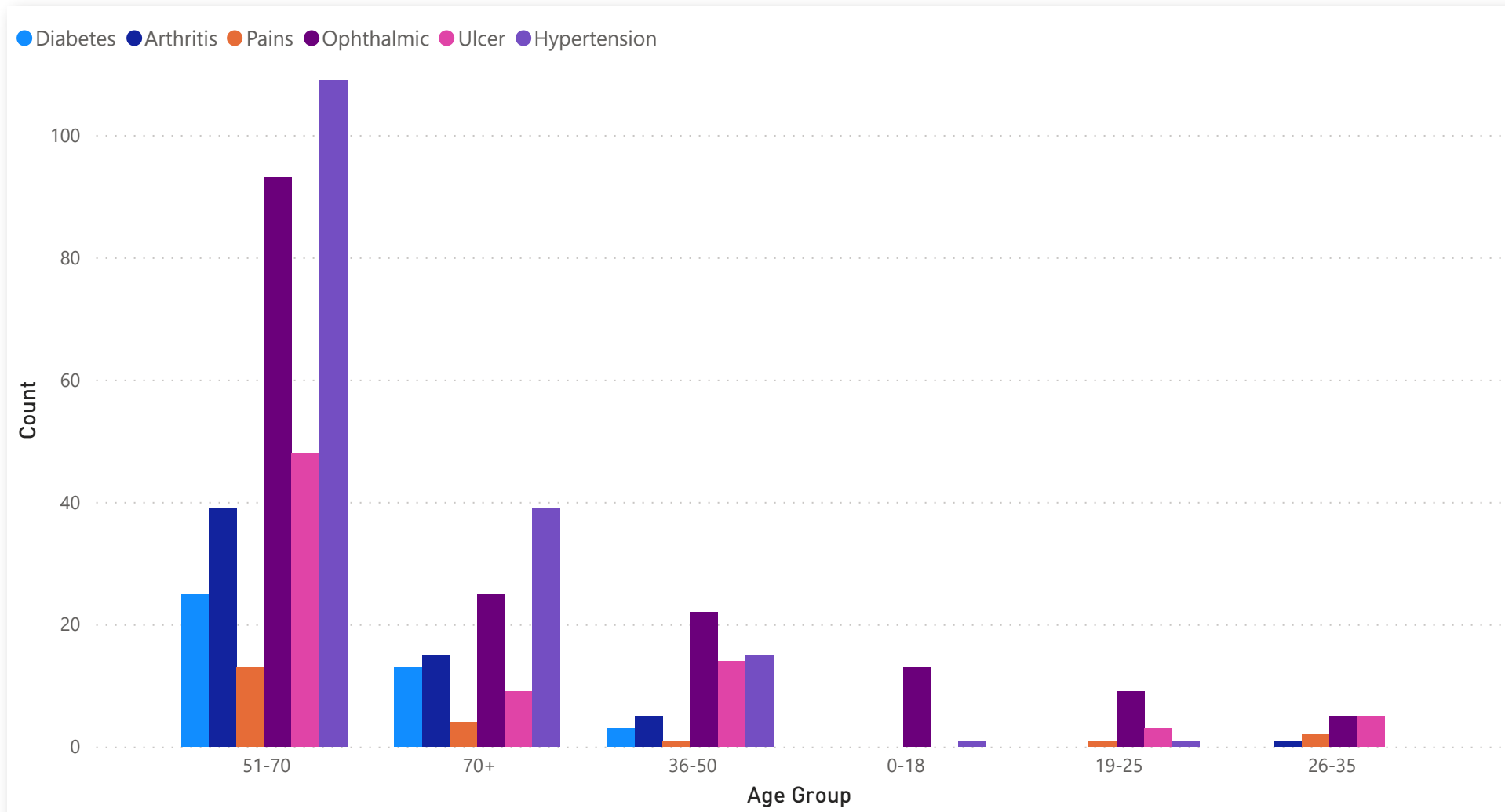
**Notable Conditions in Middle Age Group (36-50):** This group shows a considerable number of cases in arthritis (12), diabetes (8), hypertension (30), ophthalmic issues (40), and ulcers (32).

### Recommendations:

**Targeted Health Programs for Older Adults:** Prioritize healthcare resources and preventive programs for the 51-70 and 70+ age groups, focusing on hypertension, ophthalmic issues, and ulcers.

**Chronic Disease Management Programs:** Develop comprehensive chronic disease management programs for conditions like hypertension, diabetes, and ulcers, especially targeting the most affected age groups (51-70 and 70+).

# Medical History by Age Group



# Laboratory Test Analysis

**Total Number of Patients with Lab Test**

Hematocrit	HIV 2	Pregnancy	Urinalysis PH	Blood Glucose	HIV 1	Malaria RDT
	2			89	5	40

**Total Number of Patients for Blood Glucose Test Analysis**

89

**Minimum of Blood Glucose by Gender**

Blood Glucose	Gender
58	FEMALE
78	MALE

**Maximum of Blood Glucose by Gender**

Blood Glucose	Gender
154	FEMALE
156	MALE

**Average of Blood Glucose by Gender**

Blood Glucose	Gender
128.64	FEMALE
132.67	MALE

**Blood Glucose Group by Age Group**

Age Group	101-125	126+	80-100
0-18	1		
19-25			1
36-50	3	2	12
51-70	7	14	20
70+	10	8	8

**Blood Glucose Group by Gender**

Gender	101-125	126+	80-100
FEMALE	9	16	26
MALE	12	8	15

**Average of Blood Glucose by Age Group**

Blood Glucose	Age Group
102.00	0-18
87.00	19-25
58.00	26-35
119.24	36-50
137.69	51-70
131.00	70+

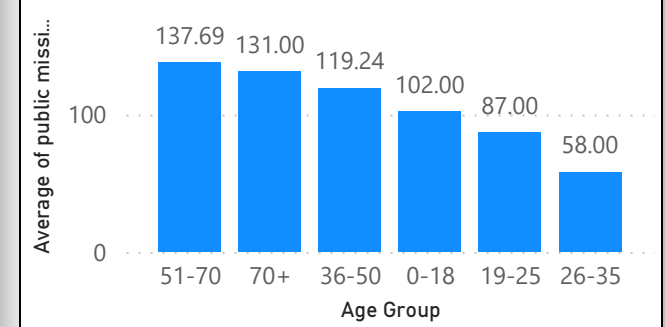
**Maximum of Blood Glucose by Age Group**

Blood Glucose	age group
102	0-18
87	19-25
58	26-35
380	36-50
420	51-70
381	70+

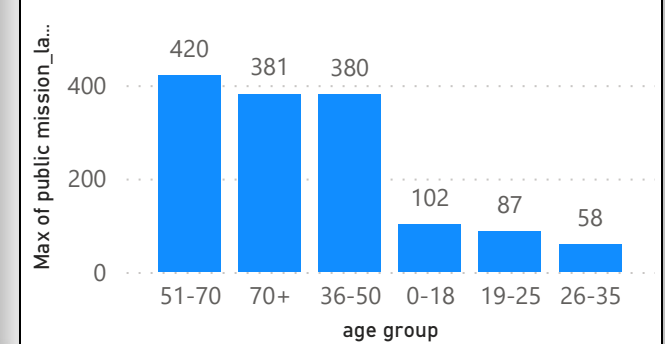
**Minimum of Blood Glucose by Age Group**

Blood Glucose	age group
102	0-18
87	19-25
58	26-35
84	36-50
78	51-70
76	70+

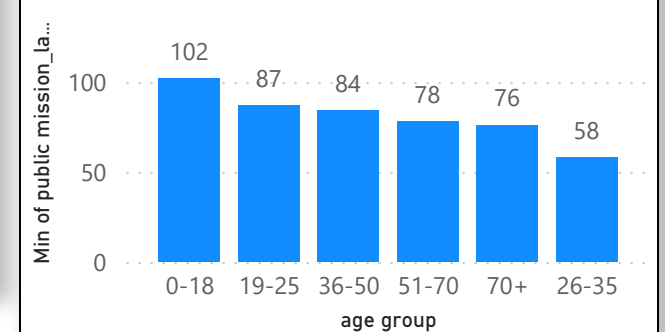
**Average of Blood Glucose by Age Group**



**Maximum of Blood Glucose by Age Group**



**Minimum of Blood Glucose by Age Group**



# Drug List

Drug Name	Sum of quantity
Amoxicillin 500 mg caps	783
Atorvastatin Calcium 40 mg	390
CEPHALEXIN 250mg caps	1271
DIPHENHYDRAMINE 25 MG tabs	1000
Double Strength Arenax (doses)	488
Enalapril Maleate 2.5 mg (ACE Inhibitor)	1000
Famotidine 20 tabs	640
Ferrous sulfate 325 mg tab	200
FLUCONAZOLE 100mg tab	172
Furosemide 20mg tab	410
Glimepride 1 mg	190
Glipizide 5 mg ER tab	502
Haloperidol 5mg tabs	200
Ibuprofen 800mg tab	417
Ibuprofen Syrup	105
Lisinopril 20 mg tab	1000
Lorsatan Potassium 50 mg	1000
Meclizine HCL 12.5 mg tab (for Vertigo)	486
Melatonin 3 mg Adult gummies	1393
Multivitamins, Children's Chewable, Animal Shapes	1478
Nicotine Polacrilex 2 mg Lozenges	405
Oral Rehydration	300
Perphenazine 8mg tab ( Antipsychotic )	1000
PIPERACILLIN SODIUM/TAZOBACTAM SODIUM 4.5 GRAM	240
Propranolol HCl 10mg	300
SULFAMETH/TRI 800/160MG	470

Drug Name	Sum of quantity
Acetaminophen 500mg cap	29793
Aldomet 250 mg tab	1550
Amlodipine Besylate tab tab 10mg	7010
Amlodipine Besylate tab tab 5mg	16505
AMOXYCILLIN 250mg	3000
Arenax by 24 tabs	2328
Aspirin 81 mg	6400
Captopril 12.5 mg tab	9600
Captopril 25 mg tab	10000
Cetirizine HCL tab 5 mg	11410
Cyclosporin Eye Drops EMU ( for Dry Eye)	2158
Hydrochlorothiazide 25 mg	7130
Ibuprofen 200mg tab	9155
Lisinopril 10mg tab	17760
Metformin HCL 500 mg	13954
Metformin Hydrochloride ER 1000 mg	2672
Metoprolol Tartrate 25mg tab	1730
Multiple Micronutrient Supplement tab	59356
Multivitamin, Adult, One Daily tab	22330
Multivitamins, Children's + immune+	2848
Prevastatin sodium 20 mg	4000
Rosuvastatin calcium 10 mg	1770
Spirolactone 50mg tab	2000
Sulindac Tab 150 mg tab	2400

Drug Name	Sum of quantity
Albendazole 400 mg tabs	98
Albendazole Syrup Bottle	99
Albuterol Sulfate Inhalation Solution 2.5mg /3ML	72
Amoxicillin Syrup Bottles	49
Azithromycin Syrup Bottles	20
CEFAZOLIN SODIUM 500 MG INJECTION VIAL	20
Cefixime syrup Bottles	25
Cefuroxime syrup Bottles	15
Children Cough Syrup Bottle	95
CLOTRIMAZOLE CREAM 1%	13
Fluocinonide cream 0.1% Vanos 120g	6
Glucose Tablet 4g	10
Hydralazine HCL 50mg tab	98
Ketoconazole cream 2% 60g	2
Multivitamin Syrup	100
Olanzapine 2.5 mg tab (Antipsychotic)	30
Olanzapine 7.5 mg tab	30
Pain Relief Spray can	8
Paliperidone ER 9mg tab (Schizophrenia)	100
Paracetamol Syrup	96
Permethrin Cream 5% 60gm	1
Tretinoin Gel microsphere 0.04% Retin-A	10



# Symptoms Analysis

Symptoms	Counts
abdominal pain	11
blurring of vision	128
constipation	2
constipation, abdominal pain	1
cough	54
dental_care	8
dizziness	10
fatigue	32
fever	27
headache	220
insomnia	23
nausea	1
rash	3
weight loss	1

