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In a prospective community-based study by Shmuel Gottlieb et al<sup>5</sup>, consecutive coronary care unit in hospitalized patients with acute myocardial infarction in the mid-1990s showed that women's fares were significantly worse than men's for 30 days. In a study by Wolfe CL et al<sup>6</sup> polymorphisms found in VT in 2% of patients with Myocardial infarction were often rapid, with symptoms of hemodynamics and electrical instability. In a study by Torre et al. <sup>7</sup>mycardial infarction observed that 2% of patients sustained within 48 hours of VT were transient and not associated with long-term risk of sudden cardiac death.

### **MATERIALS AND METHODS**

Data were collected from 100 patients admitted to coronary care unit of Nishtar Hospital Multan,, tertiary health care center. Patients 18 years of age or above admitted in the coronary care unit of Nishtar Hospital Multan, with acute myocardial Infarction, ST segment elevation Myocardial infarction, Myocardial infarction less than 48 hours old were included while Patients less than 18 years of age, Myocardial infarction 48 hours old or more, on ST segment elevation myocardial infarction were excluded.

**Data Analysis:** Data was put in SPSP software versions 21. Results were presented in the form of frequencies, percentages and tables.

# RESULTS

Out of 100 cases, 82 were males and 18 were female. The male to female ratio was 4.5:1.Smoking (76%) and hypertension (23%) were the most common risk nettor in the present study, followed by dyslipideme (22%). (Table 1)

Chest pain (96%) was the most common presenting symptom followed by sweating (21%) and vomiting (30%). (Table 2) 56 (56%) palients) were admitted within 6 hours of onset of symptoms.(Table 3) Left ventricular failure was seen in 27 patients (27%). (Table 4)

Risk factor	No of cases	Percentage	
Smoking	76	76	
Hypertension	23	23	
Diabetes Mellitus	21	21	
Dyslipidemia	22	22	
Obesity	7	7	
Family history of IHD	7	7	

#### Table No.1: Coronary risk actors

Maximum numbers of patients i.e. 52% develop acute MI between 4 am to 12 noon. The next highest number of patients i.e. 22(22%) developed acute MI between 4pm to 8pm. (Table 5)

Out of 83 patient's thrombolysis, 54 patients had arrhythmias. The overall in hospital mortality in this study was 15 % - 10 were males (66.7%) and 5 were

females(33.3%). of the 15 patients who expired, 10 patients (66.7%) had anterior wall MI and 5 (33.3%) had inferior wall MI. 8 of the 15 deaths (53.3%) occurred within in 24 hours of admission.

Table No.2: Sympton	ns present at ti	me of admission
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Symptoms	No of cases	Percentage
Chest pain	96	96
Sweating	81	81
Vomiting	30	30
Breathlessness	17	17
Giddiness	13	13
Palpitation	7	7
Pain abdomen	4	4
Weakness of Right upper and lower limb	1	1

Table	No.3:	Time	interval	between	onset	of
sympto	oms to h	ospitali	zatio <b>h</b> .			

Duration (hours)	No of Patients	Percentage
≤1	2	2
1-6	56	56
7-12	24	24
13-24	09	09
25-48	09	09

 Table No.
 Complications other than arrhythmias

Complications	No of cases	Percentage
Lest ventricular failure	27	27
ardiogenic shock	6	6
Congestive cardiac failure	1	1
Pericarditis	2	2
Intracranial hemorrhage	3	3

 Table No.5: Circadian periodicity of onset of chest

 pain/ symptoms

Time of onset of chest pain/Symptoms	No of patients	%age
12 mid night to 4 am	10	10
4am to 8am	28	28
8am to 12noon	14	14
2 noon to 4 pm	10	10
4 pm to 8 pm	22	22
8pm to 12 midnight	06	06

# DISCUSSION

There were 82 men (82%) and 18 women (18%) in this study. The ratio of male to female is 4.5: 1. This finding was consistent with Maggioni et al. <sup>8</sup>- - 4.65: 1; Pula et al. <sup>9</sup> - 4.2: 1 and Elizabeth GC <sup>10</sup> - were 5.2:1.

Smoking is the most common risk factor that exists in up to 76 patients (76%) in this study. This figure was based on the findings of Magej et al. <sup>11</sup> which has been reported in 73.3% of patients.

21% of patients are diabetic in this study. This was compared with the study of Bata et al. <sup>12</sup> as a risk factor for 19.09% of patients with diabetes mellitus.

21.43% and 21% of patients, respectively. The most common site of infarction in this study was anterior wall Myocardial infarction 66% of patients comparable to the authors Gupta et al. <sup>14</sup> Kundu et al. <sup>13</sup>

In this study, 30% of the incidence of MI in the inferior wall was comparable to that of Witt et al<sup>15</sup> indicating that the incidence was 44% and 33.78%, respectively.

# CONCLUSION

Arrhythmias continue to be the most common complication of acute myocardial infarction, particularly during the first 48 hours. Acute myocardial infarction is a serious disease that has to be treated in intensive care unit of coronary heart disease. Death usually occurs with arrhythmia, and is a potentially reversible condition, the earliest treatment that can reduce mortality

**Conflict of Interest:** The study has no conflict of interest to declare by any author.

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