

## GULF REGISTRY FOR ACUTE CORONARY SYNDROME

Acute coronary syndrome (ACS) study is one of the major activities of GHA. The study composed of three phases:

1. The first phase was the pilot study started May 8, 2006 for 30 days. The results of the pilot study are shown bellow.
2. The second phase started January 29, 2007 for 5 months. The results will be presented during GHA 6th annual conference in Sana'a, Yemen April 9-11, 2008.
3. The third phase preparation started January 2008. In the third phase, the Kingdom of Saudi Arabia joined the other 6 GCC countries in one combined registry under the GHA.

### The ACS pilot study results

#### A. The gulf registry for ACS (Gulf Race) pilot study domains:

Participating Countries	Bahrain, Kuwait, Oman, Qatar, UAE and Yemen
No. of Hospitals	65
No. of Patients	1484
Duration of study	30 days
Date	May 2006

#### C. Use of medication for ACS in the Gulf during first 24 hours of admission:

Medications	No. of patient	(%)
Aspirin	1446	97
Clopidogrel	763	51
Beta blockers	961	65
Heparin un-fractionated	717	48
Heparin LMW	653	44
GP IIb/IIIa inhibitors	178	12
ACE inhibitors/ARBs	925	62
Satins	1223	82

LMW: low molecular weight, GP: glycoprotein, ACE: Angiotensin converting enzyme, ARBs: Angiotensin receptor blockers.

#### E. In-hospital outcomes:

Outcomes	No. of patient	(%)
Recurrent ischemia	175	12
Re-infarction	47	3
Congestive heart failure	225	15
Ventilation	49	3
Cardiogenic shock	68	5
Major bleeding	7	0.5
Stroke	7	0.5
Death	45	3
Coronary angiography	333	2

#### B. Base line characteristics:

Medications	No. of patient	(%)
<b>Ave age = 55 yrs</b>		
Male gender	1130	76
Smokers	669	45
Diabetics	566	38
Hypertension	681	46
Hyperlipidemia	459	31

#### D. Use of medication at discharge:

Medications	No. of patient	(%)
Aspirin	1347	94
Clopidogrel	732	51
Beta blockers	1069	74
ACE inhibitors/ARBs	992	69
Satins	1159	81

GP: glycoprotein, ACE: Angiotensin converting enzyme, ARBs: Angiotensin receptor blockers.

#### F. Discharge diagnosis:

Diagnosis	No. of patient	(%)
STEMI	550	37
NSTEMI	469	32
LBBB MI	31	2
Unstable angina	428	29

STEMI: ST- segment elevation myocardial infarction, NSTEMI: None ST- segment elevation myocardial infarction, LBBB MI: Left bundle branch block myocardial infarction.

*Source: Gulf Heart Association*