

National Cardiovascular Disease Database (NCVD)

**My LIVE 2007
Shangri-La Hotel, Kuala
Lumpur
11th -14th 2007**





To establish a nation wide cardiovascular database that can

- ♥ Polish away the 'guess estimate' attitude - morbidity & mortality of CVD in country
- ♥ Focus on the real risk of CVD
- ♥ Determine the burden of CVD among Malaysian
- ♥ Promote effective treatment & prevention programs
- ♥ Facilitate research





Registries

- ♥ Acute Coronary Syndrome (ACS) Registry
 - ♥ Jan 2006:
 - ♥ Establishment e-NCVD (web application)
 - ♥ Piloted in 6 centres
 - ♥ 31st March 2006:
 - ♥ Officially launched by Deputy DG
 - ♥ Well known among practitioner

- ♥ Percutaneous Coronary Intervention (PCI) Registry
 - ♥ 13th January 2007
 - ♥ Study initiation meeting
 - ♥ Back dated data collection from 1st January 2007





Registry Management

Project Management

Ms S Gunavathy Selvaraj

Ms Noor Amirah Muhamad

Statisticians

Dr Sharon Chen

Mrs Raja'ah Meor

Database Administration & Web Application Development

Ms Lim Jie Ying

Ms Amy Porle

Clinical Data Management

Ms Teo Jau Shya

Ms Huziana



ACS Registry

OBJECTIVES

- ♥ Determine the number and the time trend of acute coronary syndromes in Malaysia.
- ♥ Determine the socio demographic profiles of these patients to better identify the high-risk group in our Malaysian population.
- ♥ Determine the efficiency of, and adherence to current guidelines of treatment guidelines
- ♥ Determine the cost to the nation by cardiovascular disease and the cost-effectiveness of treatment and prevention programs





Chairman

Dato' Dr Hj Azhari Rosman &
Dato' Dr Jeyaindran Sinnadurai

Subject Matter Expertise

Dato' Seri Dr Robaayah Zambahari
Dato' Dr Rosli Mohd Ali
Prof Dr Sim Kui Hian
Prof Dr Wan Azman Wan Ahmad
Dato' Dr Omar Ismail
Dr Lee Chuey Yan
Dr Chin Sze Piaw
Dr Liew Chee Tat
Dr Chong Wei Peng
Dr Lu Hou Tee
Dr Ang Choon Kiat



Active Sites

FROM YEAR 2006

- ♥ Alor Star Hospital, Kedah
- ♥ Kuala Lumpur Hospital
- ♥ National Heart Institute
- ♥ Penang Hospital
- ♥ Sarawak General Hospital
- ♥ Sultanah Aminah Hospital
- ♥ Tuanku Fauziah Hospital, Kangar
- ♥ Tuanku Ja'afar Hospital, Seremban
- ♥ Tengku Ampuan Afzan Hospital, Kuantan
- ♥ University Malaya Medical Centre





Welcoming new sites....

- ♥ New participating sites (2007)
 - ♥ Ipoh Hospital
 - ♥ Queen Elizabeth Hospital
 - ♥ Raja Perempuan Zainab II Hospital



PCI Registry

Objectives

- ♥ To determine the number, evaluate and monitor the outcomes of percutaneous coronary intervention (PCI) based on selected performance indicators.
- ♥ Determine the cost to the nation by cardiovascular disease and the cost- effectiveness of treatment and prevention programs.
- ♥ Determine the efficiency of, and adherence to current guidelines of treatment guidelines.
- ♥ Stimulate and facilitate research of cardiovascular disease using this database.
- ♥ Facilitate quality improvement activities, e.g. DBT in Primary PCI.
- ♥ As a reference for future studies, etc volume, pattern of practice, temporal trend, etc. Facilitate future research; benchmark with other National Registries.





Chairman

Dato' Dr Rosli Mohd Ali

Subject Matter Expertise

Dato' Seri Dr Robaayah Zambahari

Dato' Dr Rosli Mohd Ali

Prof Dr Sim Kui Hian

Prof Dr Wan Azman Wan Ahmad

Dato' Dr Omar Ismail

Dr Liew Houg Bang

Dr Lee Chuey Yan

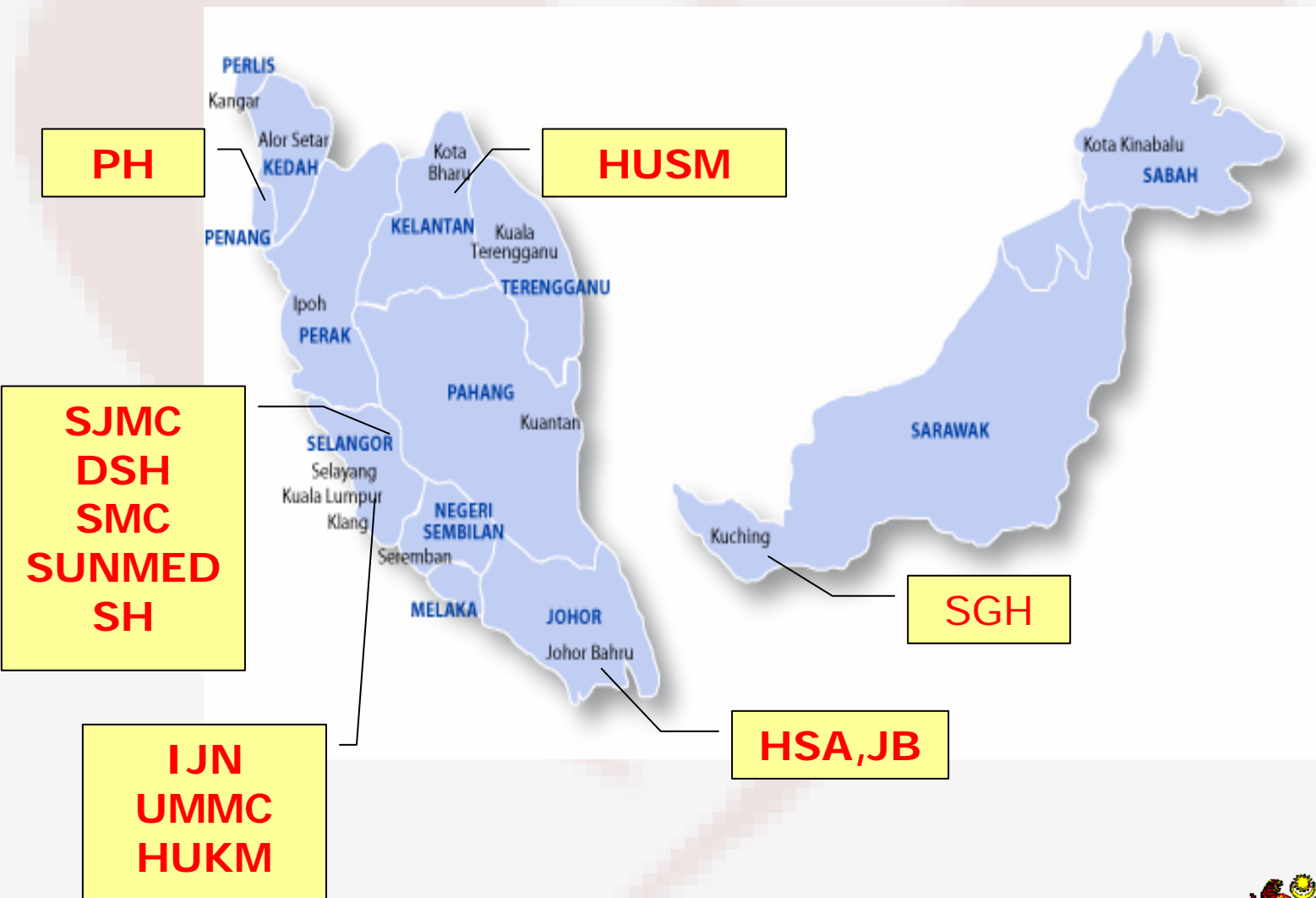
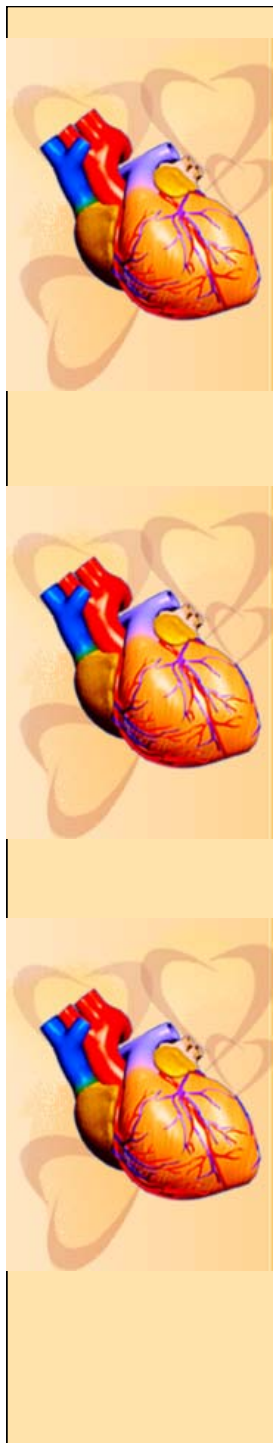
Dr Tamil Selvan Muthusamy

Dr Kannan Pasamanickam

Dr Hendrick Chia



Participating Sites.....



How to get into eNCVD?

Microsoft Internet Explorer window showing the National Cardiovascular Disease Database (NCVD) website. The address bar displays <http://www.acrm.org.my/ncvd/index.htm>. A blue arrow points from the address bar to the URL www.acrm.org.my/ncvd.

The website content includes:

- Navigation:** HOME, About NCVD, ACS, PCI, Contact
- Left Sidebar:** PRESENTATION, GOVERNANCE BOARD, EXPERT PANEL, CENTRES DIRECTORY, NCVD REGISTRY UNIT, REGISTRATION, DATA REQUEST, PUBLICATIONS, NEWS & EVENTS, GALLERY, LINKS, FAQ, eNCVD
- Visitor Counter:** Visitor number: **003617** since 30/3/2006
- Main Content:** **NCVD** The National Cardiovascular Disease Database (NCVD) is a service supported by the Ministry of Health (MOH) to collect information about cardiovascular disease in Malaysia, which will enable us to know the incidence of cardiovascular disease, and to evaluate its risk factors and treatment in the country. This information is useful in assisting the MOH, Non-Governmental Organizations, private healthcare providers and industry in program planning and evaluation, leading to cardiovascular disease prevention and control. **JOIN NCVD!**
- Latest Updates:**
 1. NCVD-PCI registry
 2. NCVD-ACS registry
 3. NCVD - the milestones of the database

6 Feb 2007 - The e-application of PCI Registry, ePCI is available online for users now!

Get yourself registered with PCI Registry. Should you have any enquiries, please do not hesitate to contact us.
- Right Sidebar:**
 - Sponsors:** Ministry of Health, Malaysia; National Heart Association Malaysia (NHAM)
 - Contact Us:** Manager, National Cardiovascular Disease Database, c/o Clinical Research Centre, Kuala Lumpur Hospital, 1st Floor, MMA House, 124, Jalan Pahang, 50286 Kuala Lumpur, Malaysia. Phone: 03-4044 3060 / 03-4044 3070; Fax: 03-4044 3080; Email: ncvd@acrm.org.my; Website: <http://www.acrm.org.my/ncvd>



Web application-eNCVD

Thu, Apr 12, 2007


NCVD
National Cardiovascular Disease Database

Welcome to
NATIONAL CARDIOVASCULAR DISEASE DATABASE
WEB APPLICATION
eNCVD

To access eNCVD web application
Sign in to eNCVD

Username:

Password:

 **Sign in**

VERIFY

This site chose VeriSign SSL for secure e-commerce and confidential communications.

[Forget password?](#) [Sign-in help](#)


ABOUT SSL CERTIFICATES

Thu, Apr 12, 2007

NCVD
National Cardiovascular Disease Database

CRF / D

S



Home


About Us

Data Standard

Feedback

Security Policy

Contact Us



Please select one of the following applications:

- Acute Coronary Syndrome (ACS)
- Percutaneous Coronary Intervention (PCI)
- Logout

BENEFITS with eNCVD

- ♥ YOUR OWN CENTRE DATA at FINGER TIPS
- ♥ Compare YOUR CENTRE STATISTICS with NATIONAL STATISTICS

Report

Patient Listing

1	Patient Listing Report
---	------------------------

Centre Statistics Report

1	Total ACS Patient Admission Notification by Hospital By Month by SDP
2	Total Acute Coronary Syndrome Stratum By Year of Admission By SDP
3	Total ACS Patient By Killip Class by SDP
4	Total ACS Patient by Gender By SDP
5	Total ACS Patient Notification by Age Group By SDP
6	Total ACS STEMI Patient Notification by Fibrinolytic Therapy Status by SDP
7	Total ACS STEMI Patient Notification by PCI Urgent Type by SDP

Registry Statistics Report

1	Total ACS Patient Admission Notification by Hospital By Month
2	Total Acute Coronary Syndrome Stratum By Year of Admission for all SDPs
3	Total ACS Patient By Killip Class for all SDPs
4	Total ACS Patient By Gender for all SDPs
5	Total ACS Patient Notification By Age for all SDPs
6	Total ACS STEMI Patient Notification by Fibrinolytic Therapy Status for all SDPs
7	Total ACS STEMI Patient Notification by PCI Urgent Type for all SDPs





Benefits continues....

- ♥ CAPABLE of DOWNLOADING YOUR OWN CENTRE DATA
 - ♥ For further analysis
 - ♥ For your own research use
 - ♥ Improvement of treating skills

Data Download	
Form	
1	NCVD Notification
2	NCVD Follow Up
3	NCVD Outcome

Lookup Value	
1	NCVD Notification lookup value
2	NCVD Follow up lookup value
3	NCVD Outcome lookup value



Benefits continues.....

- ♥ Real time report
- Accessible to CENTRE REPORT Anytime and Anywhere

Total Acute Coronary Syndrome Stratum By Year of Admission for all SDPs

	2005	2006	2007	Total
ACSStratum				
Missing	0	0	78	35
Not available	0	0	3	0
NSTEMI	0	2	819	73
STEMI	0	0	1378	173
UA	0	2	1111	95
Grand Total	0	4	3389	376

Total ACS Patient by Gender for all SDPs

Sex	No	Percentage
Female	1047	25.1 %
Male	3104	74.4 %
Missing	21	0.5 %
Grand Total	4172	100.0 %

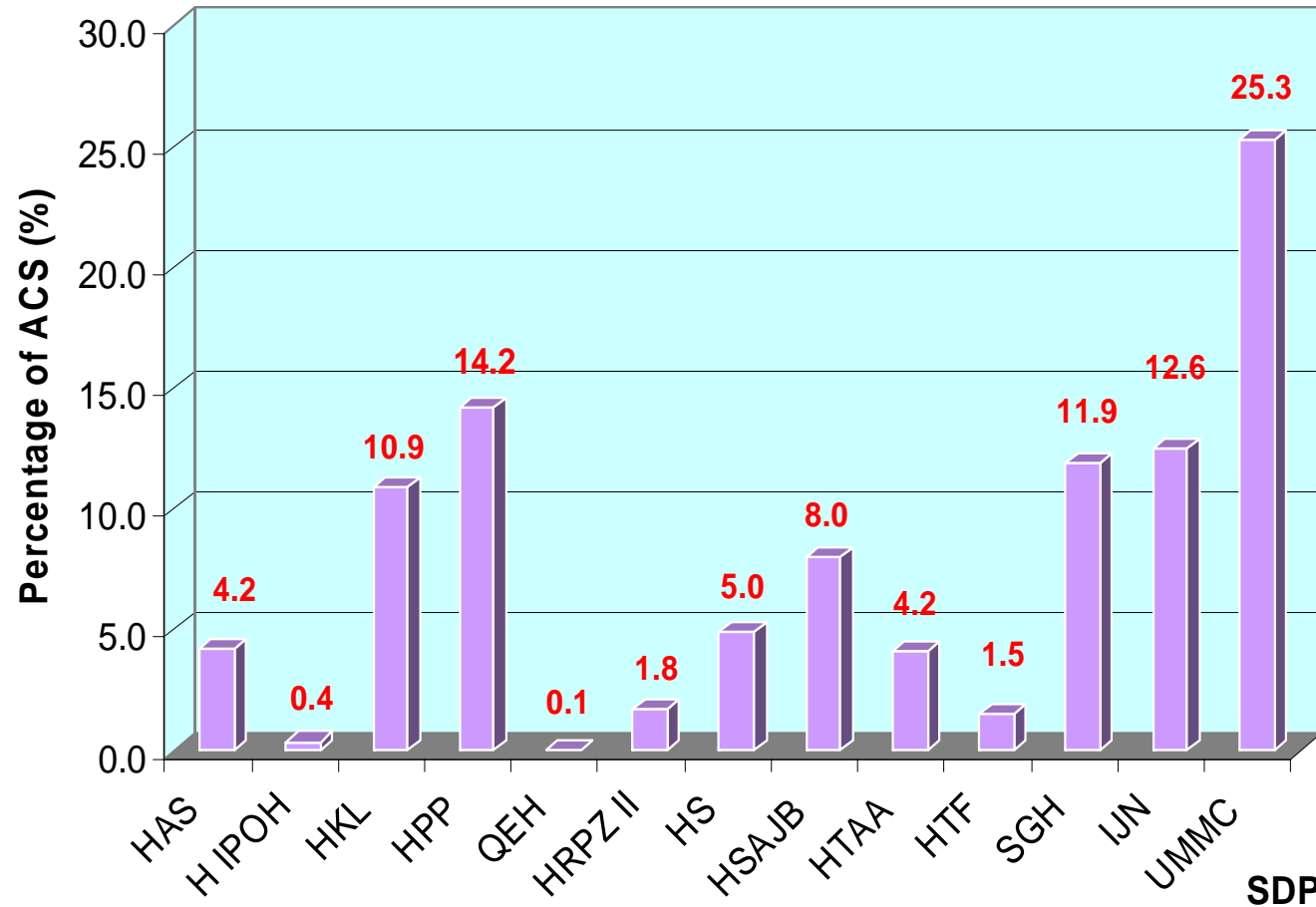




SHARE the BENEFITS



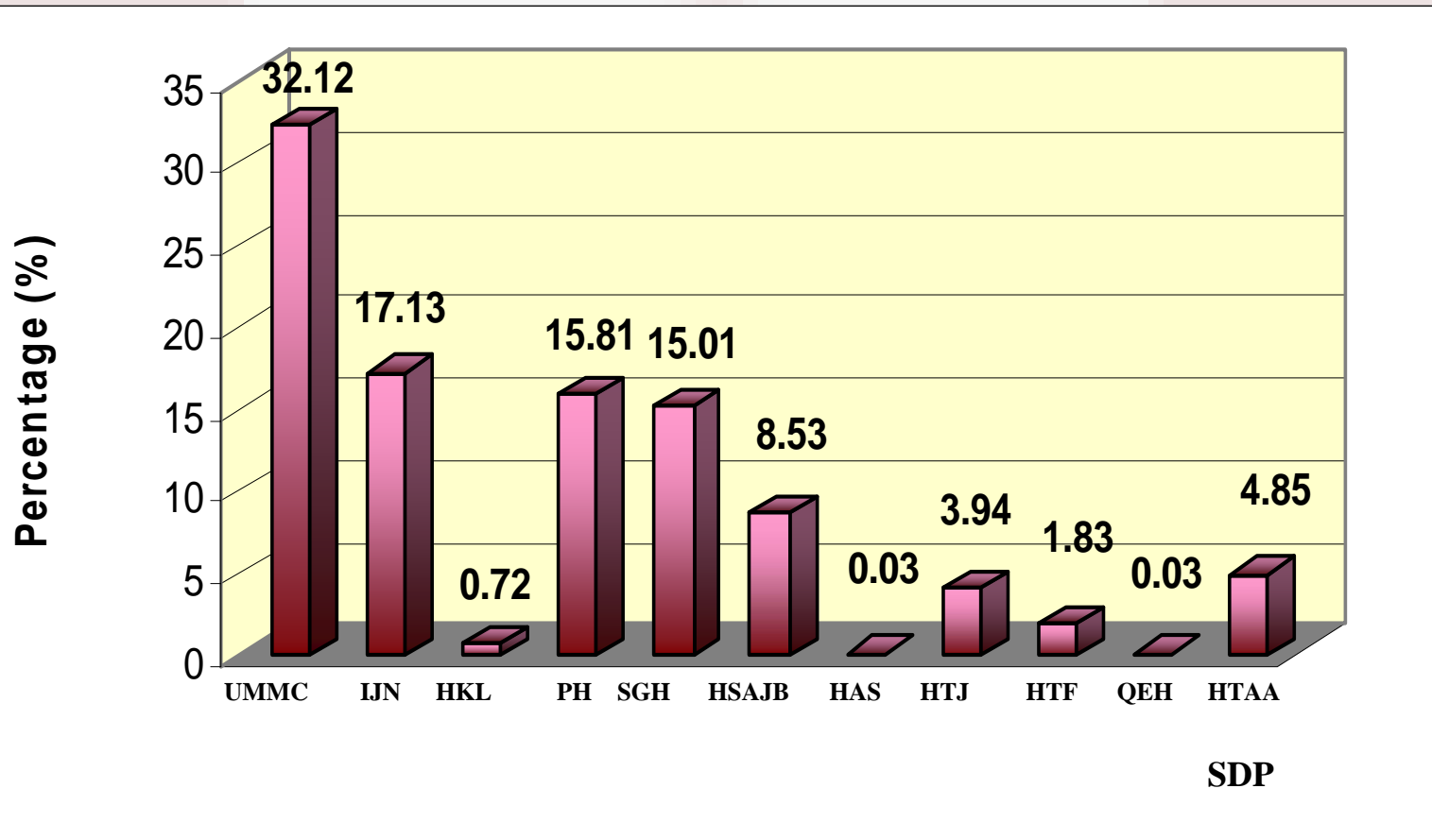
Number of ACS registered (online) by Source Data Providers (SDP)



Total ACS = 4,326 as of 30th May 2007



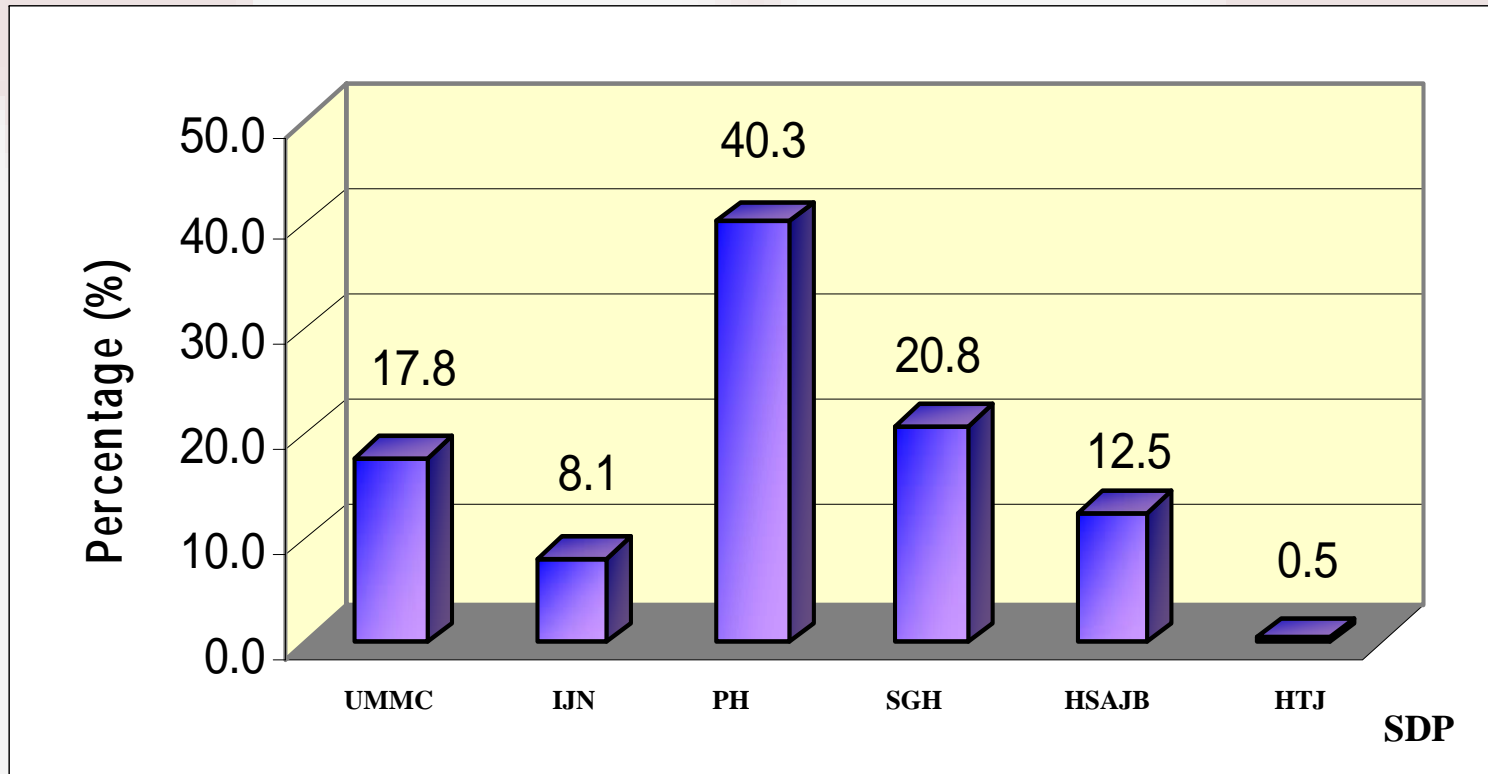
Percentage of 30 days Follow Up completed by Source Data Providers (SDP)



Total 30 days FU, n= 3,176 as of 30th May 2007



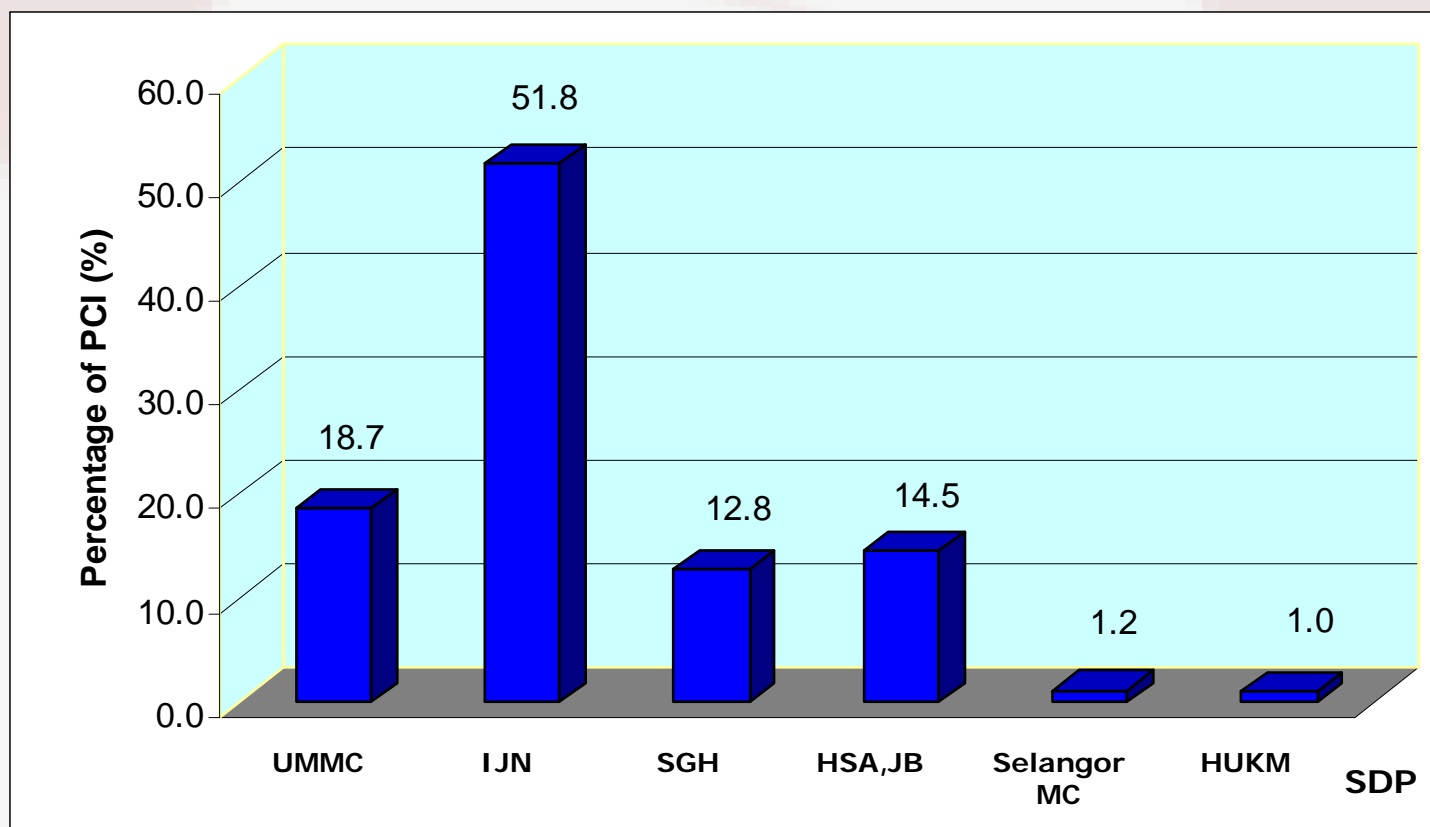
Percentage of 12 months Follow Up completed by Source Data Providers (SDP)



Total 12 months FU, n= 586 as of 30th May 2007



Number of PCI registered (online) by Source Data Providers (SDP)



Total PCI = 1,249 as of 15th June 2007

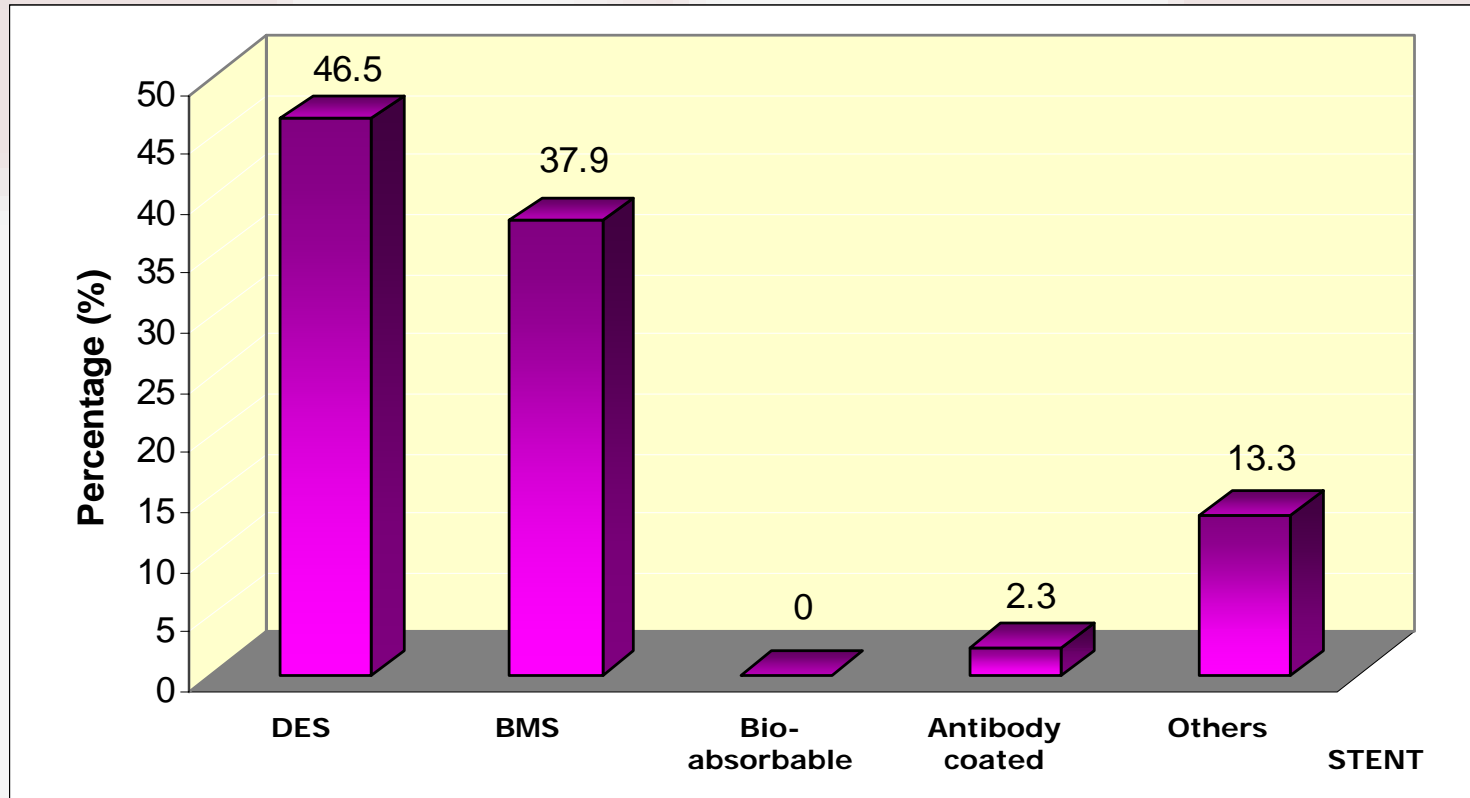


No of PCI by SDP based on Monthly Census

SDP	Jan	Feb	Mar	Apr	May	June	Total
UMMC	36	37	60	44	49	57	283
IJN	242	175	215	240	232	235	1339
SGH	31	19	46	8	33	36	173
HSAJB	32	27	38	43	29	53	222
PH	60	47	70	54	50	51	332
Total	401	305	429	389	393	432	2349



Percentage of stent by total number of stent used (n=1923)

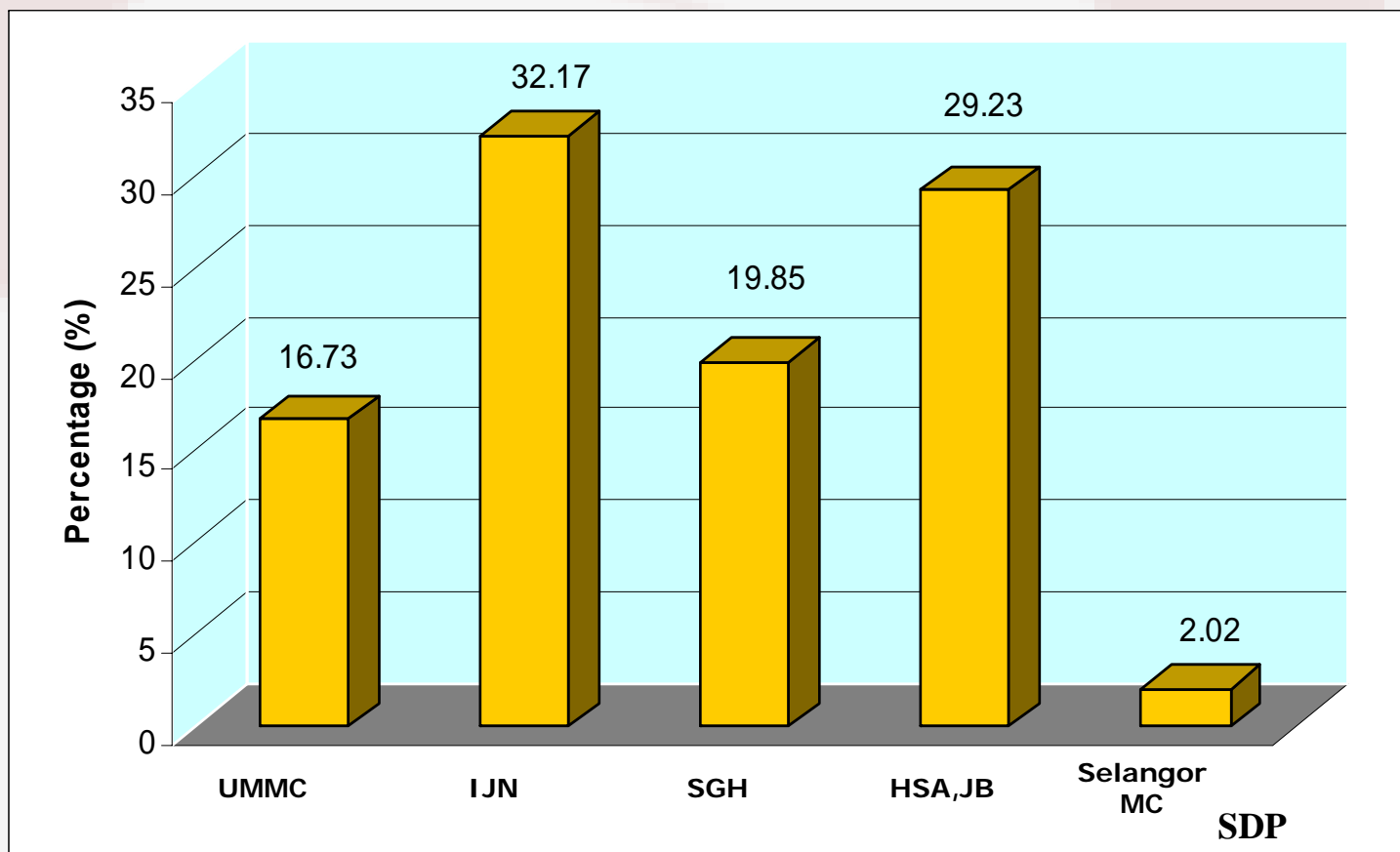


Other stents refer to stents other than listed in the Reference Stent List

Total Stent, n= 1,923 as of 15th June 2007



Percentage of 30 days Follow Up completed by Source Data Providers (SDP)



Total 30 FU completed = 544 as of 15th June 2007



THOUGHTS TOWARDS FUTURE

NCVD – Registries in MIND

- ♥ Acute Coronary Syndrome
- ♥ PCI
- ♥ Heart Failure
- ♥ CV Risk factors
- ♥ Cardiac Surgery
- ♥ Implanted Cardiac Devices
- ♥ CV Drug Usage



INTERESTED?

What about Confidentiality?

Current legislation allows doctors to release their patients' data to persons demonstrating a need, which is essential to public health and safety. The NCVD meets this requirement.

The NCVD has also developed strict policies and procedures to maintain confidentiality of data collected by it as well as in disclosure of data.

NCVD REGISTRATION FORM

- Yes! I want to participate in the National Cardiovascular Disease Database (NCVD). Please register my centre.

Details

Name: _____

(Title) (Name)

Designation: _____

Institution: _____

Sector (Check only one):

- MOH University NGO
 Private Armed Forces Others, specify _____

Address (office): _____

Fax: () _____

Handphone: () _____

E-Mail: _____

♥ Join us today!

For further information, the NCVD is also published electronically on website at:

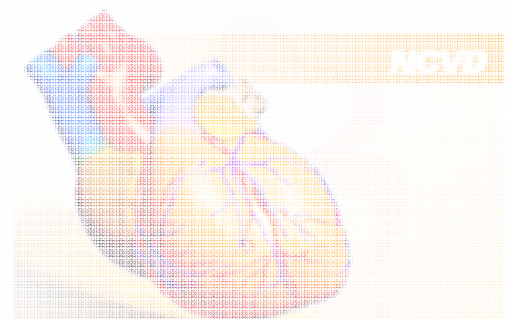
<http://www.acrm.org.my/ncvd>

We look forward to the continued support and collaboration from all parties that will enable the National Cardiovascular Disease Database (NCVD) to develop and contribute significantly to the control of cardiovascular disease in this country.

Please mail or fax to:

**Manager,
National Cardiovascular Disease Database**
c/o Clinical Research Centre
3rd Floor, Dermatology Block,
Hospital Kuala Lumpur,
Jalan Pahang,
50586 Kuala Lumpur
Tel: 03 - 2692 4249 / 03 - 2698 0310
Fax: 03 - 2691 1682
Email: ncvd@acrm.org.my

NATIONAL CARDIOVASCULAR DISEASE DATABASE



Sponsored by:

- Departments of Cardiology & Medicine / MOH Hospitals
- Clinical Research Centre



Acknowledgement

- ♥ THANK YOU to all of you from participating centres who had and continue contributing to NCVD
- ♥ Remember you are part of history making!





PREPARED BY:

NCVD TEAM

CLINICAL RESEARCH CENTRE,

HKL

