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## DSS - Acute coronary syndrome (clinical)

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**Important note: This is an archived metadata standard from the AIHW Knowledgebase. For current metadata standards and related information please access METeOR, the AIHW's Metadata Online Registry at <http://meteor.aihw.gov.au>**

**Start date:** 04-JUN-04

**End date:**

**Scope:** This Acute Coronary Syndrome (clinical) data set specification is not mandated for collection but is recommended as best practice. The specification is intended for use in data collections in hospitals, coronary care units and other relevant acute care practices.

Acute coronary syndromes reflect the spectrum of coronary artery disease resulting in acute myocardial ischaemia, and span unstable angina, non-ST segment elevation myocardial infarction (NSTEMI) and ST-segment elevation myocardial infarction (STEMI). Clinically these diagnoses encompass a wide variation in risk, require complex and time urgent risk stratification and represent a large social and economic burden.

The definitions used in ACS-Data are designed to underpin the data collected by health professionals in their day-to-day acute care practice.

They relate to acute clinical consultations for patients presenting with chest pain/ discomfort and the need to correctly identify, evaluate and manage patients at increased risk of a coronary event.

The data elements specified in this metadata set provide a framework for:

- promoting the delivery of evidenced-based acute coronary syndrome management care to patients;
- facilitating the ongoing improvement in the quality and safety of acute coronary syndrome management in acute care settings in Australia and New Zealand;
- improving the epidemiological and public health understanding of this syndrome; and
- supporting acute care services as they develop information systems to complement the above.

This is particularly important as the scientific evidence supporting the development of the data elements within ACS-Data indicate that accurate identification of the evolving myocardial infarction patient or the high/intermediate risk patient leading to the implementation of the appropriate management pathway impacts on the patient's outcome.

Having a nationally recognised set of definitions in relation to defining a patient's diagnosis, risk status and outcomes is a prerequisite to achieving the above aims.

ACS-Data are based on the American College of Cardiology (ACC) Data Set for Acute Coronary Syndrome as published in the Journal of the American College of Cardiology in December 2001 (38:2114-30) as well as more recent scientific evidence around the diagnosis of myocardial

infarction. The data elements are alphabetically listed and grouped in a similar manner to the American College of Cardiology's data set format. These features of the Australian ACS data set should ensure that the data is internationally comparable.

The data elements described here have been identified as high priority for inclusion in the NHDD for the collection of data relating to ACS management, along with supporting elements already existing within the NHDD (as listed). It is recommended that other data elements be collected as best practice - however, these are not listed here, as they are considered to be of a secondary priority. Such data elements include date of Coronary Artery Bypass Grafting (CABG), Percutaneous Coronary Intervention (PCI) and diagnostic cardiac catheterisation/angiography and recording the number of units of blood transfused.

Many of the data elements in this metadata set may also be used in the collection of other cardiovascular clinical information.

Where appropriate, it may be useful if the data definitions in this metadata set were used to address data definition needs in non-clinical environments such as public health surveys etc. This could allow for qualitative comparisons between data collected in, and aggregated from, clinical settings (i.e. using application of ACS-Data), with that collected through other means (e.g. public health surveys, reports).

A set of core ACS data elements and standardised definitions can inform the development and conduct of future registries at both the national and local level.

The working group formed under the National Heart Foundation of Australia (NHFA) and the Cardiac Society of Australia and New Zealand (CSANZ) initiative was diverse and included representation from the following organizations: the NHFA, the CSANZ, the Australasian College of Emergency Medicine, the Australian Institute of Health and Welfare, the Australasian Society of Cardiac & Thoracic Surgeons, Royal Australian College of Physicians (RACP), RACP - Towards a Safer Culture, National Centre for Classification in Health (Brisbane), the NSW

Aboriginal Health & Medical Research Council, the George Institute for International Health, the School of Population Health at the University of Western Australia and the National Cardiovascular Monitoring System Advisory Committee.

To ensure the broad acceptance of the data set, the working group also sought consultation from the heads of cardiology departments, other specialist professional bodies and regional key opinion leaders in the field of acute coronary syndromes.

### **Collection**

#### **methodology:**

This metadata set is primarily concerned with the clinical use of ACS-Data. Acute care environments such as hospital emergency departments, coronary care units or similar acute care areas are the settings in which implementation of the core ACS data set should be considered. A wider range of health and health related establishments that create, use or maintain, records on health care clients, could also use it.

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*Data elements linked to this Data set specification*

<b>Name</b>	<b>Data</b>	<b>Reg.</b>	<b>ID</b>	<b>Vers</b>	<b>Type</b>	<b>Current</b>
Acute coronary syndrome procedure type	NHDD	NHIMG	001019	1	Data Element	Current
Acute coronary syndrome stratum	NHDD	NHIMG	001021	1	Data Element	Current
Angiotensin converting enzyme (ACE) inhibitors therapy status	NHDD	NHIMG	001020	1	Data Element	Current
Aspirin therapy status	NHDD	NHIMG	001022	1	Data Element	Current
Beta-blocker therapy status	NHDD	NHIMG	001023	1	Data Element	Current
Bleeding episode using TIMI criteria - status	NHDD	NHIMG	001024	1	Data Element	Current
Blood pressure - diastolic measured	NHDD	NHIMG	000649	1	Data Element	Current
Blood pressure - systolic measured	NHDD	NHIMG	000650	1	Data Element	Current
Chest pain pattern category	NHDD	NHIMG	001025	1	Data Element	Current
Cholesterol-HDL - measured	NHDD	NHIMG	000651	1	Data Element	Current
Cholesterol-LDL calculated	NHDD	NHIMG	000652	1	Derived Data Element	Current
Cholesterol-total - measured	NHDD	NHIMG	000653	1	Data Element	Current
Clinical evidence status	NHDD	NHIMG	001026	1	Data Element	Current
Clinical procedure timing status	NHDD	NHIMG	001027	1	Data Element	Current
Clopidogrel therapy status	NHDD	NHIMG	001028	1	Data Element	Current
Concurrent clinical condition - on presentation	NHDD	NHIMG	001029	1	Data Element	Current
Country of birth	Int. NCSDD & NHDD	NCSIMG & NHIMG	002004	4	Data Element	Current
Creatine kinase MB isoenzyme (CK-MB) - measured	NHDD	NHIMG	001030	1	Data Element	Current
Creatine kinase MB isoenzyme (CK-MB) - units	NHDD	NHIMG	001031	1	Data Element	Current
Creatine kinase MB isoenzyme	NHDD	NHIMG	001032	1	Data	Current

(CK-MB) - upper limit of normal range					Element	
Creatinine serum - measured	NHDD	NHIMG	000655	1	Data Element	Current
Date creatine kinase MB isoenzyme (CK-MB) measured	NHDD	NHIMG	001033	1	Data Element	Current
Date of birth	Int. NCSDD & NHDD	NCSIMG & NHIMG	002005	5	Data Element	Current
Date of first angioplasty balloon inflation or stenting	NHDD	NHIMG	001034	1	Data Element	Current
Date of intravenous fibrinolytic therapy	NHDD	NHIMG	001035	1	Data Element	Current
Date of referral to	NHDD	NHIMG	000656	1	Data Element	Current
Date of triage	NHDD	NHIMG	000353	1	Data Element	Current
Date patient presents	NHDD	NHIMG	000350	2	Data Element	Current
Date troponin measured	NHDD	NHIMG	001036	1	Data Element	Current
Diabetes status	NHDD	NHIMG	000654	1	Data Element	Current
Electrocardiogram (ECG) change - location	NHDD	NHIMG	001037	1	Data Element	Current
Electrocardiogram (ECG) change - type	NHDD	NHIMG	001038	1	Data Element	Current
Fibrinolytic drug used	NHDD	NHIMG	001039	1	Data Element	Current
Fibrinolytic therapy status	NHDD	NHIMG	001040	1	Data Element	Current
Functional stress test element	NHDD	NHIMG	001040	1	Data Element	Current
Functional stress test ischaemic result	NHDD	NHIMG	001041	1	Data Element	Current
Glycoprotein IIb/IIIa receptor antagonist status	NHDD	NHIMG	001042	1	Data Element	Current
Heart rate	NHDD	NHIMG	001043	1	Data Element	Current
Heart rhythm type	NHDD	NHIMG	001044	1	Data Element	Current
Height - self-reported	NHDD	NHIMG	000363	2	Data Element	Current
Indigenous status	Int. NCSDD & NHDD	NCSIMG & NHIMG	002009	5	Data Element	Current
Killip classification code	NHDD	NHIMG	001045	1	Data Element	Current
Lipid-lowering therapy status	NHDD	NHIMG	001046	1	Data Element	Current

Mode of separation	NHDD	NHIMG	000096	3	Element Data	Current
Myocardial infarction - history	NHDD	NHIMG	000834	1	Element Data	Current
Person identifier	Int. NCSDD & NHDD	NCSIMG & NHIMG	002020	2	Element Data	Current
Premature cardiovascular disease family history - status	NHDD	NHIMG	000659	1	Element Data	Current
Reason for readmission - Acute coronary syndrome	NHDD	NHIMG	001047	1	Element Data	Current
Separation date	NHDD	NHIMG	000043	5	Element Data	Current
Sex	Int. NCSDD & NHDD	NCSIMG & NHIMG	002024	4	Element Data	Current
Time creatine kinase MB isoenzyme (CK-MB) measured	NHDD	NHIMG	001048	1	Element Data	Current
Time of first angioplasty balloon inflation or stenting	NHDD	NHIMG	001049	1	Element Data	Current
Time of intravenous fibrinolytic therapy	NHDD	NHIMG	001050	1	Element Data	Current
Time of triage	NHDD	NHIMG	000354	1	Element Data	Current
Time patient presents	NHDD	NHIMG	000351	2	Element Data	Current
Time troponin measured	NHDD	NHIMG	001051	1	Element Data	Current
Tobacco smoking status	NHDD	NHIMG	000410	1	Element Data	Current
Triage category	NHDD	NHIMG	000355	1	Element Data	Current
Triglycerides - measured	NHDD	NHIMG	000658	1	Element Data	Current
Troponin assay - upper limit of normal range	NHDD	NHIMG	001053	1	Element Data	Current
Troponin assay type	NHDD	NHIMG	001052	1	Element Data	Current
Troponin measured	NHDD	NHIMG	001054	1	Element Data	Current
Type of visit to emergency department	NHDD	NHIMG	000352	2	Element Data	Current
Vascular history	NHDD	NHIMG	000676	1	Element Data	Current
Weight - self-reported	NHDD	NHIMG	000366	2	Element Data	Current