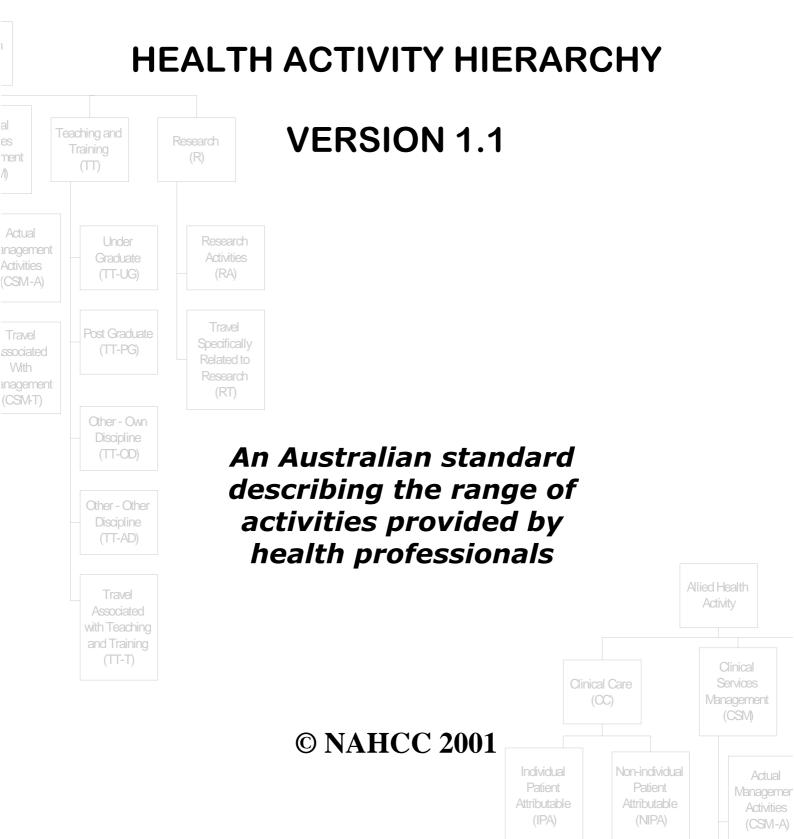


# **National Allied Health Casemix Committee**



Discipline

Discipline Specific

Intervention

Travel



#### **National Allied Health Casemix Committee**

School of Management, RMIT University GPO Box 2476V, Melbourne 3001, Australia

Ian Woodruff, Executive Officer Telephone: + 61 3 9925 5961 Facsimile: + 61 3 9925 5960 Email: ian.woodruff@rmit.edu.au

#### Acknowledgements

This second iteration of the health activity hierarchy was validated and enhanced by members of the National Allied Health Benchmarking Consortium.

The Commonwealth Department of Health and Aged Care supports the NAHCC Secretariat. Without its support this publication would not be realised.



NAHCC operates from within the School of Management, Faculty of Business at RMIT University. The University's support is gratefully acknowledged.

# **CONTENTS**

Part One	Health Services Management Overview	1
Part Two	The Allied Health Minimum Data Set	9
Part Three	Activity Assignment Examples	11
Part Four	Applying Data to Service Management	14

## PART ONE: Health Services Management Overview

A well-managed health sector emphasises efficiency, competition and accountability within the context of evidence-based practice and quality improvement.

Increasingly, all health service providers are being asked to justify their costs in terms of the outcomes they achieve. Practitioners need to be able to respond to the challenges presented by these changes in the language of the new management paradigm.

For many years, primary medical care has been funded according to a system of "occasions of service" through the Medicare system.

Australian governments at the national and state/territory level have moved to output based (casemix) funding as the primary funding mechanism for acute care hospitals. The DRG system is the primary classification mechanism.

Other care delivery settings, such as community health, rehabilitation and psychiatric services are also experiencing the demands to justify costs in terms of outputs and outcomes – although consensus on common casemix classifications is not as tight as within the acute hospital environment

Many professionals collect a variety of workload and output data but these data are institution-specific, variously defined and infrequently standardised. They, therefore, do not permit comparison between regions, states or even across like organisations.

To address these shortfalls, the NAHCC (with the then Department of Health and Family Services funding) developed the Australian Allied Health Classification System (AAHCS).

The AAHCS was a major achievement for allied health professions, which offered:

- a common language to communicate key aspects of the business of allied health professionals to in-house senior management and government agencies
- a standardised system for allied health professionals to compare their clinical practices
- a rich database for research into allied health activities, interventions and outcomes
- a chance to benchmark services across organisations using Australian data .

The Health Activity Hierarchy supercedes the AAHCS.

## How do managers conceptualise patient care?

Health service managers are increasingly linking inputs (eg staff and materials) to outputs (treated patients) and outcomes (health improvement).

While many allied health professionals have comprehensive systems in place to capture the input data, little is systematically available to measure outputs.

The following diagram conceptualises the way that health service managers now view the activities within their organisations.

The inputs to outcomes continuum actually has four discreet elements.

#### **INPUTS**

Staff time Agency infrastructure Materials Aids and appliances

#### **PROCESSES**

Clinical interventions Equipment ordering Staff management Teaching and training

#### **OUTPUTS**

Treated patient Research findings Trained students

#### **OUTCOMES**

Health improvement Health maintenance Health knowledge gain Increased body of research knowledge

### What data elements are necessary in today's health care environment?

To succeed in the contemporary health environment, each of the following elements needs careful attention:

- · defining and measuring service activity
- costing and pricing activities
- analysing best practice (efficiency / effectiveness)
- · conducting research
- effectively competing with alternative providers in the health sector
- workload management / staff accountability / comparisons
- benchmarking exercises
- · providing quality and equity

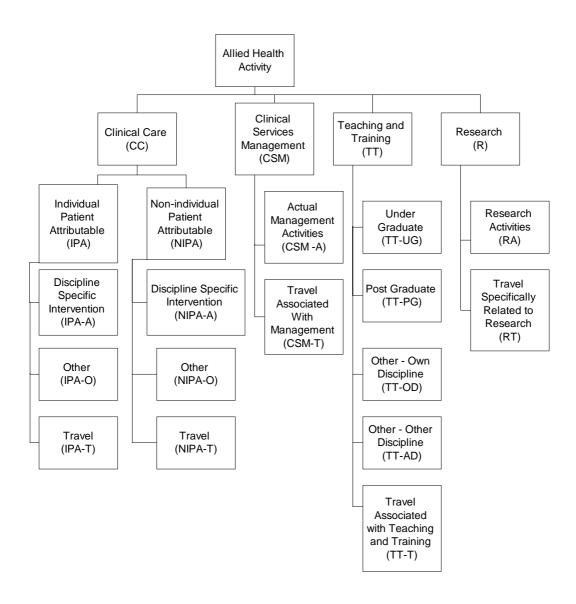
To be able to do these things certain systems and information must be in place.

The following table details what is needed in the acute hospital setting.

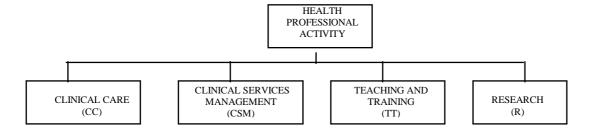
# Data systems required for successful management of Allied Health services in acute care facilities

System or information required	Product	Source / Comment on	
	✓ available × not developed ? under construction	availability	
Description of provider activities	✓ The ICD-10-AM codeset	NCCH	
<ul> <li>Activity performed</li> <li>Reason for intervention</li> </ul>	✓ Indicators for Intervention	NAHCC	
Description of client	✓ NAHCC Allied Health Minimum Data Set	This document	
characteristics     diagnostic issues     demography     referral source     inpatient / ambulatory split	✓ National data dictionary	AIHW	
Description of provider / setting	✓ NAHCC Allied Health Minimum Data Set	This document	
characteristics     Provider ID     service type	✓ National data dictionary	AIHW	
Data collection and reporting mechanisms  user-friendly software	✓ National Hospitals Cost Data Collection ✓ Combo / Transition / Trendstar etc	CDHAC	
manual and computerised     cost-effective	✓ Software developers and vendors	See appendix	
Activity Quantification	✓ National Hospitals Cost Data Collection	CDHAC	
<ul><li>time based</li><li>frequency based</li></ul>	✓ Health Activity Hierarchy	NAHCC	
riequency based	? Allied Health Service Weights	NAHCC	
Meaningful data utilisation     clinical outputs / products     workload / productivity	✓ National Hospital Morbidity Data set	AIHW	
analysis  casemix analysis	? Indicators for Intervention	NAHCC – partially completed	
Professional and Industry Standards      staffing needs     clinical skills     standards of practice     resource utilisation     productivity     reporting standards			
Outcome measures	✓ National framework for Performance Indicator reporting	CDHAC / NHPC	
	X Allied Health PI's,	NAHCC	
	? AUSTOM indicators	LaTrobe University	
	✓ Clinical Indicators	ACHS / State & Territory Health authorities Local agencies	

## The Health Activity Classification



#### First Tier of the Hierarchy



Activity	Definition				
Clinical Care	Activities which provide a service to an individual, group or community to influence health status.				
Clinical Services Management	Professional and management activities which support and are essential to clinical care				
Teaching and Training	Formal teaching or training activities which relate to the imparting of knowledge, skills and clinical competency to undergraduate and post graduate students, practitioners in own discipline, and other practitioners as part of a structured program.  It is important to avoid confusion between supervision and formal instruction. The definition is inclusive of interactions with training institutions and students and the preparation for and delivery of structured activities such as inservices, lectures, presentations and tutorials. It does not include one-to-one staff supervision, informal ad hoc sessions with staff or professional development				
Research	Activities undertaken to advance the knowledge of the delivery of care to an individual, group or community. Research is limited to activities that lead to and follow formal approval of the project by a research committee or equivalent body.  There is a need to distinguish between activities such as a literature review and a formally constructed research project approved by a research committee or equivalent body.				

#### **Client or Patient Definition**

(The terms client and patient are used interchangeably as usage is dependent on the clinical setting.)

A person (or group of people) who:

- directly receives a service on an inpatient, outpatient, community-based, private practice or domiciliary basis
- 2. a relative, friend or carer of a 'primary' client (as defined in point 1) who also receives a service related to the care of the 'primary' client.

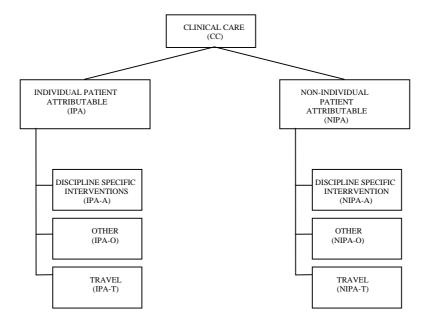
#### **Clinical Care**

This is the only branch of the hierarchy which has highly developed sub branches.

At the tertiary level (IPA and NIPA) the hierarchy mirrors the ICD-10-AM codeset.

From the second edition of ICD-10-AM the codes have become provider neutral (in other words they no longer identify the profession / discipline providing the procedure).

# The full set of ICD-10-AM codes is published by the National Centre for Classification in Health



The premise and determinations surrounding the utilisation of the classification system are that, wherever possible and practicable, an activity is to be assigned to an individual patient.

#### **Definitions:**

Individual Patient Attributable (IPA): any clinical care activities that can be assigned to an individual patient

**IPA-A:** an intervention which can be directly related to a specific patient

**IPA-O:** any other intervention which can be directly related to a specific patient (except travel); not specified in the discipline specific classification of individual patient interventions.

**IPA-T:** which can be directly related to a specific patient.

**Non-Individual Patient Attributable (NIPA):** any clinical care activities that **cannot** be assigned to an individual patient.

NIPA-A: any discipline defined intervention which cannot be directly related to a specific patient.

**NIPA-O:** any other intervention which cannot be directly related to a specific patient (except travel); not specified in the discipline specific classification of non-individual patient attributable interventions. (#1)

**NIPA-T:** any travel activity associated with clinical care which cannot be directly related to a specific patient.

**Discipline specific intervention**: an IPA or NIPA activity that has been defined according to unique classifications developed by the profession providing the service (#2)

### **Applying the Classification**

The classification system is based on the principles that, wherever possible:

- 1. An activity is to be classified as Clinical Care (CC); and
- 2. Within Clinical Care, an activity is to be assigned to an individual patient as far as possible.
- 3. Some activities involve a mix of activities such as:
  - Treating a patient and instructing a student
  - Treating a patient and collecting data for research purposes.

The split between IPA and TT or R is that IPA time should be considered from a costing perspective. Therefore only the time that is reasonable to allocate to the patient should be put into IPA and there should be no double counting. All other time should be allocated to TT or R.

## **Clinical Services Management (CSM)**

#### **Elements**

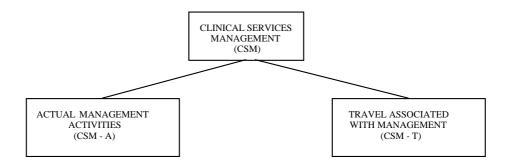
- administration generally
- staff management
- statistics gathering and reporting
- financial management
- quality activities
- representations/ consultation
- professional development
- travel for management purposes
- program evaluation
- meetings

All these activities are classified and coded as either:

CSM - A Actual clinical service management activities, or

CSM - T Travel specifically associated with clinical service management.

This split is illustrated below:

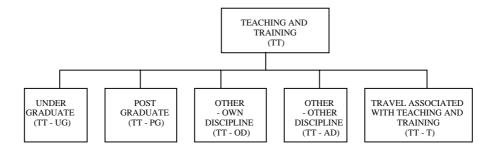


## **Teaching and Training**

Teaching and training is the third grouping of activities at the first level and is split into five sub-categories. These are:

sub-category	activities included
TT - UG	imparting of knowledge, skills and clinical competency to undergraduate students
TT - PG	imparting of knowledge, skills and clinical competency to postgraduate students
TT - OD	imparting of knowledge, skills and clinical competency to practitioners within ones own discipline
TT - AD	imparting of knowledge, skills and clinical competency to practitioners from another discipline.
TT - T	Travel specifically associated with teaching and training activities.

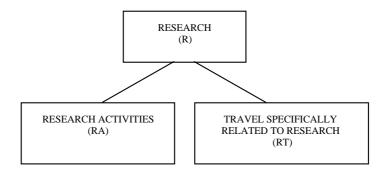
Each of the partitions includes preparation directly associated with the respective activity.



## Research

Research is split into two components designated as:

- **R-A** research activities
- **R-T** travel specifically associated with research activities.



# **PART TWO:** The Allied Health Minimum Data Set

Data ELEMENT	Description	Source **				
Unique Client Identifier	Person Identifier unique within establishment or agency.	NHDD				
Sex	The gender of the person.					
Date of Birth	The date of birth of the person.					
Indigenous Status	An Aboriginal or Torres Strait Islander is a person of Aboriginal or Torres Strait Islander descent who identifies as an Aboriginal or Torres Strait Islander and is accepted as such by the community with which he or she is associated.					
Area of Usual Residence	Geographic location of usual residence as stated by the person. The geographical location is reported using a five digit number code. The first digit is the single digit code to indicate State or Territory. The remaining four digits are numerical code for the Statistical local area within the State or Territory.	NHDD				
Postcode	4-digit Postcode of area of the usual residence of the person.					
Telephone Number	The telephone number to contact the person.					
Interpreter Services	Need for interpreter services (yes/no) as perceived by the client.  Whether the interpreter service was actually provided is not relevant to this data element	NHDD				
Preferred Language	The language (including sign language) most preferred by the person for communication.  This may be a language other than English even where the person can speak fluent  English.	NHDD				
Compensable Status	Any client who is entitled to the payment of, or who has been paid compensation for, damages or other benefits (including a payment in settlement of a claim for compensation, damages or other benefits) in respect of the injury, illness or disease for which he or she is receiving care and treatment, is classified as a compensable patient.  This definition excludes entitled beneficiaries (Veterans Affairs) and Defence Force personnel treated in public and private hospitals. It also excludes Motor Accidents (Compensation) Act 1979 (NT) beneficiaries treated as public patients (on first admission) in Northern Territory hospitals. On second and subsequent admissions, Territory Insurance Office patients should be counted as compensable patients.	NHDD				
Carer Availability	The carer is any person, for example, family, friend or neighbour, who is giving regular, ongoing assistance to the identified client without payment other than the pension or benefit.  This excludes formal services such as Delivered Meals or Home Help, persons arranged by formal services such as volunteers, and also excludes funded group housing or similar situations.  Availability infers willingness and ability to undertake the caring role. In those circumstances where a potential carer is not prepared to undertake the role, or when their capacity to carry out the necessary tasks is minimal, then the client must be coded as not having a formal carer.	NAHCC				

Table continued over page

Data Element	Description	Source **
Date of Service	The date on which services are provided to the client.	
Date of Admission (for hospital admitted patients only)	The date on which an admitted patient commences an episode of care by one of the following processes:  Formal admission is the administrative process by which a hospital records the commencement of treatment and/or care and accommodation of a patient.  Statistical admission (excluding nursing homes) is the administrative process by which a patient who has been statistically separated recommences treatment and/or care and accommodation and occurs in the following circumstances:  Statistical admission following leave of absence exceeding seven consecutive days for admitted patients; or  Statistical admission on type change or transfer between episodes of care within the one hospital stay.	NHDD
Client Type	Whether service provided on an inpatient, sameday inpatient, outpatient, community, or other basis.	
Service Provider	Identification of staff engaged in service provision to client (either staff identification number or staffing level )	
Party Relationship	Identifies to whom services were provided:  single client, new (initial visit in 12 months) single client, follow-up (2nd or subsequent visit) group carer or family community agency other, please specify	
Referral Source	Source from which the person was transferred/referred to the treating agency.	NHDD
Treatment Settings	Describes the setting in which treatment was provided:  hospital school pre-school community health centre residential visit work visit other, please specify	
Indicator for Intervention	Allied Health - specific reason for intervention	NAHCC
Diagnosis	The medical diagnosis/es of the client	ICD / DRG

<sup>\*\*</sup> NHDD - National Health Data Dictionary, NAHCC - National Allied Health Casemix Committee

# PART THREE: Activity Assignment Examples

Activity	Comment	Classification
Administration		CSM
Case meetings,	Attribute to Clinical Care – Individual Patient Attributable (CC IPA) as far as possible. The total	IPA
case consultations	time involved should be distributed to the clients for whom the staff member attended the activity.	
and ward rounds	For example, a staff member attends a conference taking 60 minutes which involves discussion on	
	a total of 12 clients. Of these, the staff member was involved with 5 clients. The staff member	
	would either allocate 12 minutes to each of the 5 clients or in proportion to time involved for each	
	client – 15 minutes for 2 clients, 10 minutes to the other 3 clients.	
	Attribute to Clinical Care – Non Individual Patient Attributable (CC-NIPA) where it is	NIPA
	impracticable to assign activity on a proportionate basis to individual patients.	GG1.4
Clinical /	Preparation of a briefing note or submission for conceptual approval to develop a new	CSM
education	clinical/education resource or product should be included under CSM.	NIIDA
products for	After concept approval has been obtained, the design, preparation and implementation of the	NIPA
patients	product is classified as Clinical Care – Non Individual Patient Attributable (CC-NIPA). This	
	would include activities associated with the design and development of the product such as	
	content research and development, layout and design, printing, distribution, evaluation for reading	
	level etc.	IPA or
	The provision of the product in the delivery of services is classified as Clinical Care. Where	_
	possible, time should be pro-rated to individual patients (CC-IPA). Where this is either not	NIPA
	possible (details unknown) or impractical, classify as CC-NIPA.	CCM
	Quality improvement and evaluation of the product post production are recorded as Clinical	CSM
Cliente rule a de	Services Management (CSM).	IDA
Clients who <u>do</u>	Any activities in relation to clients who do not attend a booked appointment are assigned to CC-	IPA
not attend an	IPA. This includes waiting time, rescheduling an appointment, notation of records, preparation	
appointment	etc.	ID 4
Clinical record	Record keeping on clients is assigned to CC-IPA	IPA NIDA
keeping	Record keeping on groups should be assigned to CC-IPA where practicable; otherwise assign to CC-NIPA.	NIPA
	CC-NIPA.	
Clinical Services	Clinical Services Management includes general administration; staff management (recruitment,	CSM
Management	orientation, supervision, performance management etc); data collection, entry and analysis;	CSW
Management	financial management; quality activities; representation; consultation on professional or service	
	issues; professional development; work leading up to the conceptual approval to proceed with a	
	new service or product; evaluation of a service or product; meetings (staff meetings, team	
	meetings, clinical unit administrative meetings, interagency meetings etc) not related to a specific	
	client(s); projects; workload planning; travel related to these activities.	
Community	Community development is a purposeful facilitation process in which health professional assists a	NIPA
Development	community define, develop and implement its goals.	1,11,11
Consultation	Consultation about a client is recorded as CC-IPA where medical record number known; assign to	IPA or
Constitution	CC-NIPA where not known. Consultations with or about a prospective client would generally be	NIPA
	assigned to CC-NIPA unless previously known to the service.	1,111
	Consultation about a client group	IPA or
	consummon acous a sitem group	NIPA
	Consultation about a specific community development or health promotion process	NIPA
	Consultation about a service issue such as referral criteria, a resource problem, priority setting	CSM
	Consultation about a professional matter	CSM
	Consultation on a teaching or training activity	TT
	Consultation on a research activity	R
	Consumation of a resource activity	``
Development,	Preparation of a briefing note or submission, needs analysis or literature review for planning a new	CSM
design and	service should be included under CSM. This is considered to be the conceptual stage of the	1
delivery of a new	activity.	
service/program	After approval has been obtained, design and preparation of sessions / processes etc is classified as	NIPA
to individuals,	Clinical Care – Non Individual Patient Attributable NIPA) unless a specific client(s) is known at	1
groups,	this stage. This would include activities associated with the design and development of specific	1
communities or	programs such as session structure, content and research for the program, further literature review.	
populations.		
Evaluation and	Review of the processes in a current intervention eg a group session in order to plan the process	IPA or
review of	for the next session should be assigned to CC-IPA or CC-NIPA as per the general principle.	NIPA
programs	An evaluation of the program overall is considered a quality improvement activity and should be	CSM
	assigned to CSM.	

Activity	Comment	Classification
Group services	The delivery of clinical programs to groups where it is practicable to assign a portion of the	IPA
•	activity to individual patients, is to be classified as to Clinical Care – Individual Patient	
	Attributable (CC-IPA). The same allocation principle as outlined for case meetings should be	
	used.	
	The delivery of clinical programs to a larger group of patients, where it is not practicable to assign	NIPA
	the activity on a proportionate basis to individual patients, is to be classified as Clinical Care –	
Health promotion	Non-individual Patient Attributable (CC-NIPA).  Health promotion activities are concerned with the prevention of disease and disability	
Health promotion	Where targeting an individual or small group with known medical record numbers, attribute to	IPA
	CC-IPA	II A
	Where targeting a large group or a population, attribute to CC-NIPA	NIPA
Meetings	Client related meetings (case conferences, family meetings, case consultations etc) are to be	IPA or
	allocated to CC-IPA as far as practicable. Where this is impracticable, allocate to CC-NIPA.	NIPA
	Meetings not related to a specific client or group of clients are allocated to CSM. Examples are	CSM
	staff and team meetings, planning meetings, facility committee meetings,	
	interagency/interdepartmental meetings, professional meetings, project meetings.	
	Meetings on teaching and training activities are assigned to TT	TT
	Meetings on research activities are assigned to R	R
Phone calls,	The delivery of any kind of clinical care to a particular client (or to make clinical appointments/	IPA
correspondence,	arrangements for delivery of care) is classified as Clinical Care – Individual Patient Attributable	
emails or other	(CC-IPA).	
forms of		
communication	The provision of general service information, or transactions related to clinical equipment or	NIPA
	supplies not specific to a client, classify as NIPA.	
	Where associated with administrative purposes, such as arranging meetings, non-clinical	CSM
	appointments or ordering administrative supplies, classify as Clinical Services Management	
	(CSM).	
	Associated with teaching and training activities	TT R
	Associated with research activities	K
Preparation Time	Preparation activities immediately prior to and after an individual or group activity (such as setting	IPA or
•	up the room, recording notes on the session, pack up etc.) should be classified as IPA where	NIPA
	possible and NIPA where distribution to individual clients is not viable.	
	Preparation time associated with the delivery of a formal teaching and training activity is assigned	TT
D 6 1 1	to TT.	CCM
Professional	Attending inservices, lectures, seminars and conferences or any other means of <b>receiving teaching</b>	CSM
development	and took and a surface in and development and in all officed and Clinical Committee Management	CDIVI
_	and training is professional development and is classified as Clinical Services Management.	CSIVI
_	Includes journal reading, journal clubs, implementation of the staff member's professional	CSM
Quality		
Quality	Includes journal reading, journal clubs, implementation of the staff member's professional	CSM
Quality improvement activities	Includes journal reading, journal clubs, implementation of the staff member's professional	
improvement	Includes journal reading, journal clubs, implementation of the staff member's professional	
improvement activities	Includes journal reading, journal clubs, implementation of the staff member's professional development plan etc.  Where a single health professional is involved in treatment which is also associated with a research activity, the principle of classifying activities as Clinical Care – Individual Patient	CSM
improvement activities Research and	Includes journal reading, journal clubs, implementation of the staff member's professional development plan etc.  Where a single health professional is involved in treatment which is also associated with a research activity, the principle of classifying activities as Clinical Care – Individual Patient Attributable (CC-IPA) is to be adopted. If this takes a longer time than usual, the additional time	CSM IPA or
improvement activities Research and	Includes journal reading, journal clubs, implementation of the staff member's professional development plan etc.  Where a single health professional is involved in treatment which is also associated with a research activity, the principle of classifying activities as Clinical Care – Individual Patient Attributable (CC-IPA) is to be adopted. If this takes a longer time than usual, the additional time only is classified as Research (R).	CSM  IPA or IPA and R
improvement activities Research and	Includes journal reading, journal clubs, implementation of the staff member's professional development plan etc.  Where a single health professional is involved in treatment which is also associated with a research activity, the principle of classifying activities as Clinical Care – Individual Patient Attributable (CC-IPA) is to be adopted. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where a single health professional is involved in treatment which is also associated with a	CSM  IPA or IPA and R  NIPA or
improvement activities Research and	Includes journal reading, journal clubs, implementation of the staff member's professional development plan etc.  Where a single health professional is involved in treatment which is also associated with a research activity, the principle of classifying activities as Clinical Care – Individual Patient Attributable (CC-IPA) is to be adopted. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where a single health professional is involved in treatment which is also associated with a research activity and specific clients cannot be identified or it is impractical to do so, classify	CSM  IPA or IPA and R  NIPA or NIPA and
improvement activities Research and	Includes journal reading, journal clubs, implementation of the staff member's professional development plan etc.  Where a single health professional is involved in treatment which is also associated with a research activity, the principle of classifying activities as Clinical Care – Individual Patient Attributable (CC-IPA) is to be adopted. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where a single health professional is involved in treatment which is also associated with a research activity and specific clients cannot be identified or it is impractical to do so, classify activity as CC-NIPA. If this takes a longer time than usual, the additional time only is classified as	CSM  IPA or IPA and R  NIPA or
improvement activities Research and	Includes journal reading, journal clubs, implementation of the staff member's professional development plan etc.  Where a single health professional is involved in treatment which is also associated with a research activity, the principle of classifying activities as Clinical Care – Individual Patient Attributable (CC-IPA) is to be adopted. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where a single health professional is involved in treatment which is also associated with a research activity and specific clients cannot be identified or it is impractical to do so, classify activity as CC-NIPA. If this takes a longer time than usual, the additional time only is classified as Research (R).	CSM  IPA or IPA and R  NIPA or NIPA and R
improvement activities Research and	Includes journal reading, journal clubs, implementation of the staff member's professional development plan etc.  Where a single health professional is involved in treatment which is also associated with a research activity, the principle of classifying activities as Clinical Care – Individual Patient Attributable (CC-IPA) is to be adopted. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where a single health professional is involved in treatment which is also associated with a research activity and specific clients cannot be identified or it is impractical to do so, classify activity as CC-NIPA. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where more than one health professional is involved in an activity which would normally only	CSM  IPA or IPA and R  NIPA or NIPA and R  R and
improvement activities Research and	Includes journal reading, journal clubs, implementation of the staff member's professional development plan etc.  Where a single health professional is involved in treatment which is also associated with a research activity, the principle of classifying activities as Clinical Care – Individual Patient Attributable (CC-IPA) is to be adopted. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where a single health professional is involved in treatment which is also associated with a research activity and specific clients cannot be identified or it is impractical to do so, classify activity as CC-NIPA. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where more than one health professional is involved in an activity which would normally only require one clinician and this involves services to patients and research activity, the principal	CSM  IPA or IPA and R  NIPA or NIPA and R
improvement activities Research and	Includes journal reading, journal clubs, implementation of the staff member's professional development plan etc.  Where a single health professional is involved in treatment which is also associated with a research activity, the principle of classifying activities as Clinical Care – Individual Patient Attributable (CC-IPA) is to be adopted. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where a single health professional is involved in treatment which is also associated with a research activity and specific clients cannot be identified or it is impractical to do so, classify activity as CC-NIPA. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where more than one health professional is involved in an activity which would normally only require one clinician and this involves services to patients and research activity, the principal undertaking the research is to record the activity as Research and the other staff member is to	CSM  IPA or IPA and R  NIPA or NIPA and R  R and
improvement activities Research and	Includes journal reading, journal clubs, implementation of the staff member's professional development plan etc.  Where a single health professional is involved in treatment which is also associated with a research activity, the principle of classifying activities as Clinical Care – Individual Patient Attributable (CC-IPA) is to be adopted. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where a single health professional is involved in treatment which is also associated with a research activity and specific clients cannot be identified or it is impractical to do so, classify activity as CC-NIPA. If this takes a longer time than usual, the additional time only is classified as Research (R).  Where more than one health professional is involved in an activity which would normally only require one clinician and this involves services to patients and research activity, the principal	CSM  IPA or IPA and R  NIPA or NIPA and R  R and

Activity	Comment	Classification					
Student and	Where a student is treating a patient without a supervisor present, all treatment time should be	IPA					
Supervisor	entered into IPA.						
Activity		IPA					
(The scope of							
data collection in	member are treating the patient together, both the student and supervisor should enter time as CC-						
relation to							
activities carried	Where the student is treating the patient unaided with the supervisor observing, all student time	IPA, TT					
out by students is	should be entered into IPA and supervisor time into TT						
limited to Clinical	Where the supervisor is treating a patient and a student is observing, the supervisor enters time	IPA and					
Care activities.)	that they would have taken to treat patient to IPA. Any additional time taken due to need to give explanation to student etc (slow down time) should be entered into TT.	TT					
	For the supervisor's activities associated with students not involving patient treatment, classify to teaching and training. This includes liaison with the tertiary institution, preparation time, supervisory time, reporting and feedback, travel.	TT					
Submissions	Preparation of a submission on the concept of a new service or product should be included under CSM.	CSM					
Supervision of staff	Supervision in relation to an individual patient or number of patients should be recorded by the supervisor and supervisee as Clinical Care – Individual Patient Attributable (CC-IPA).	IPA					
Supervision of	If it is impracticable to assign to individual patients, classify as NIPA	NIPA					
staff (cont)	Supervision on a general matter unrelated to a specific patient or group of patients should be classified to Clinical Services Management (CSM) by the supervisor and supervisee. This includes workload issues, discussion of staff development matters, consideration of strategies in relation to interactions with other health professionals, training on allied health statistics system etc.	CSM					
	Supervision in relation to group activities should be classified by the supervisor and supervisee as Clinical Care – Individual Patient Attributable (CC-IPA) as far as possible. If it is impracticable to assign the supervision of staff in relation to a group of patients to individual patients, classify this activity as NIPA	IPA or NIPA					
Teaching and training – provision of	Preparation and delivery of formal inservices, lectures, tutorials or seminars is assigned to TT.	TT					
Teaching and training – receipt of	This is recorded as Clinical Services Management (CSM) as this is deemed professional development.	CSM					
Travel	Assign travel to the respective first tier activity which constitutes the primary reason undertaking travel ie Clinical Care (IPA as far as possible, otherwise NIPA), Clinical Services Management, Teaching and Training or Research.	IPA, NIPA, CSM, TT or R					

## PART FOUR: Applying Data to Service Management

Define the vision or your department and desired service paradigm

#### Vision

A vision is a broad, almost idealistic statement of overall intent for the organisation

Every health facility manager will have a vision for how s/he wants the organisation to operate. A good manager sends this vision to all others in the organisation – and beyond, to key stakeholders.

1. Applying the vision to your service / department

You must identify the organisational vision before you can create a complementary vision for your own service. Once this is clear, the following stepwise process may be adopted to improve your service management.

- 2. Undertake a stakeholder analysis
  - You
  - Your customers / consumers / patients / clients
  - Your employees
  - Your employer
  - The state / territory government and its agencies:
  - Funding agencies
  - Purchasing agencies
  - Regulatory agencies
  - The Commonwealth government and its agencies
  - Accreditation bodies
  - Professional associations / unions
- 3. Identify the key data elements

Health care organisations collect a wealth of data on all aspects of service.

Think about the data elements in terms of how they intersect on the following grid.

The INPUT PROCESS OUTPUT and OUTCOME columns represent a model of work flow for your service.

The AXES A to F represent you key stakeholders.

Where a column and an axis intersect you should decide if this represents a key data collection point.

For example, the intersection of Client axis with Outcome (4A) is clearly a vital data element – the measurement of outcome for clients / patients.

Similarly 3C (Output from Organisational perspective) is an essential reporting element to the organization from your department or service.

The actual data that you gather at these intersecting points will depend on the type of service offered, the availability of data models and your capacity to collect.

Data streams that are important to you and your vision will vary, but almost universally will include the following:

- Client throughput (A3)
- Type and number of "interventions" provided A2)
- Staff profiles (B1)
- Incident reporting A4, B4)
- Quality improvement data A4, B4, C4, D4, E4, F4)
- Financial data (D1, D2, D3)

1		2		3	4	
INPUT		PROCESS		OUTPUT	OUTCOME	
	A:	CLI	ENT	AXIS		
	В	: DEPAR	ГМЕ	ENT AXIS		
	C:	ORGANIS	SATI	ON AXIS		
	D:	PURC	HAS	SER AXIS		
	E:	PROFESS	SION	IAL AXIS		
	F:	P	UBL	IC AXIS		

#### 4. Create a performance model

Having identified the relevant data elements, these should now be built into a performance-reporting model.

	INPUT	PROCESS	OUTPUT	OUTCOME
Patient axis				
Department axis				
Organisation axis				
Purchaser axis				
Profession axis				
Public axis				

5. Maintain and periodically evaluate your performance. Continually check your alignment with the organisational vision and periodically repeat your stakeholder analysis