Accreditation of Dialysis Units: the Australian Perspective

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Objectives

- Describe the management approaches in the issues of infective disease in Australia
- Introduce the Australia Council of Health Care Standards (ACHS) accreditation and its review process/cycles
- Introduce a quality improvement project
- Outline the national clinical indicators reporting and benchmarking on dialysis blood stream infection

Tick	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
	FBC	FBC	FBC	FBC	FBS S	FBC	FBC	FBC	FBC	FBC	FBC	FBC
ACCREI		PDP	PDP	PDP	PDP	PDP	PDP	PDP	PDP	PDP	PDP	PDP
	Ferritin, %sat	Ferritin, %sat	Ferritin, %sat	Ferritin, %sat	Ferritin, %sat	Ferritin, %sat	Ferritin, %sat	Ferritin, %sat	Ferritin, %sat	Ferritin, %sat	Ferritin, %sat	Ferritin, %sat
		Hep B Hep C						Hep B Hep C				
		HIV						HIV				
		PTH Al			PTH			PTH Al			PTH	
		HbA1c			HbA1c			HbA1c			HbA1c	
	Tissue Typing	Tissue Typing	Tissue Typing	Tissue Typing	Tissue Typing	Tissue Typing	Tissue Typing	Tissue Typing	Tissue Typing	Tissue Typing	Tissue Typing	Tissue Typing
		TSH			TSH			TSH			TSH	
		Fasting Chol, Tg						Fasting Chol, Tg				
		URR			URR			URR			URR	
		1,25Vit D										



Survey on dialysis units on the management of HBV, HCV, HIV, MRSA & VRE

ACCREDITATE DOES SCREENING make it safe?











What are the pathology costs (\$ in HK currency)

- HBV
- HCV
- HIV
- MRSA swab
- VRE swab

- \$244.80
- \$ 94.50
- Free
- \$150.00
- \$288.00



Isolation HBV





Acceptance for Holiday HD





Summary of Policies (HBV)

	Latest Version	Screening	Frequency of screening	Vaccination for Patient	Vaccination	Isolation
NSW Health Infection Control Policy	2007	Yes	Not mention	Yes	Yes	Separation of patients by room or area and use of a dedicated machine is recommended
Victoria Health Infection Prevention Program	2006	Yes	Not mention	Yes	Yes	Not mention
Australia & New Zealand Society of Nephrology, DNT" Sub-Committee "Consensus Statement"	2001	Yes	3-6 monthly	yes	Not mention	Use of separate rooms and dedicated machines is recommended
Sydney South West Area Health Service (Western Zone)	2007	Yes	6 monthly	yes	Yes	Use of single room and dedicated machine



• New Zealand

HCV ANZDATA

Australia

- Incidence = 1%
- Prevalence Dialysis
 =1.5%
- Prevalence
 Transplant = 1.4%

- Incidence = 2%
- Prevalence Dialysis = 2.5%
- Prevalence Transplant = 2.5%

www.anzdata.org.au 2008



HCV isolation



Hep C holiday acceptance





Summary of Policies (HCV)

			1	1		
	Latest Version	Screening	Frequency of screening	Vaccination for Patient	Vaccination for Staff	Isolation
NSW Health Infection				Vaccine not	Vaccine not	There is insufficient evidence to justify routine use of dedicated machines for dialysis or
Control Policy	2007	Yes	Not mention	available	available	isolation of patients
Victoria Health Infection Prevention Program	2006	Yes	Not mention	Vaccine not available	Vaccine not available	Not mention
Australia & New Zealand Society of Nephrology, DNT" Sub-Committee "Consensus Statement"	2001	Yes	3-6 monthly	Vaccine not available	Vaccine not available	Isolation should be considered
Sydney South West Area Health Service (Western Zone)	2007	Yes	6 monthly	Vaccine not available	Vaccine not available	Use of single room and dedicated machine





HIV holiday acceptance



HIV Isolation





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Summary of Policies (HIV)

	Latest Version	Screening	Frequency of screening	Vaccination for Patient	Vaccination for Staff	Isolation
NSW Health Infection				Vaccine not	Vaccine nøt	There is insufficient evidence to justify routine use of dedicated machines for dialysis or
Control Policy	2007	Yes	Not mention	available	available	isolation of patients
Victoria Health Infection Prevention Program	2006	Yes	Not mention	Vaccine not available	Vaccine not available	Not mention
Australia & New Zealand Society of Nephrology, DNT" Sub-Committee "Consensus Statement"	2001	Yes	Annually	Vaccine not available	Vaccine tot available	Not mention
Sydney South West Area Health Service (Western Zone)	2007	Yes	Annually	Vaccine not available	Vaccine not available	Use of single room and dedicated machine



MRSA screening frequency





MRSA holiday acceptance









The good of the many outweighs the good of the few





Summary of Policies (MRSA)

	Latest		Frequency of	of	
	Version	Screening	screening		Isolation
NSW Health Infection	2007	No			Separation area for infected and
	2007	Routine screening			
Victoria Health Infection Prevention Program	2006	not recommend	N/A		Dialyse in an area separate or segregated from other patients
Australia & New Zealand Society of Nephrology, DNT" Sub-Committee "Consesus Statement"	2001	Yes	3-6 monthly		Use of separate rooms and dedicated machines is recommended
Sydney South West Area Health Service (Western Zone)	2007	Yes	6 monthly		Use of single room and dedicated machine



Acceptance for holiday dialysis If VRE

16 14 **Number of units** 0 8 4 2 0 Yes No Blank Uncertain



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Summary of Policies (VRE)

	Latest		Frequency of			
	Version	Screening	screening	Isolation		
		VRE screening may be a requirement				
		prior to transfer		Separation of patients by room		
NSW Health Infection		between dialysis		or area and use of a dedicated		
Control Policy	2007	units	Prior to transfer	machine is recommended		
		Suggest for in-				
Victoria Health Infection		centre dialysis		Dialyse in an area separate or		
Prevention Program	2006	patient only	Not ment on	segregated from other patients		
Western Australia						
Guidelines	2006	No	N/A	No		
Australia & New Zealand Society of Nephrology, DNT" Sub-Committee "Consesus Statement"	2001	Vec	3.6 monthly	Use of separate rooms and dedicated machines is		
Sydney South West	2001	103				
Area Health Service				Dedicated Isolation Dialysis		
(Western Zone)	2007	Yes until Mid 2009	3-6 monthly	Unit since 2002		



- Big variation in practice
- No standardised national guidelines
- Implication on resources
- Clinician's preference
- Lack of evidence

The Australian Council on Healthcare Standards (ACHS)

The ACHS Evaluation and Quality Improvement Program (EQuIP) is a 4 year quality assessment and improvement program



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EQuIP Cycle





Phase 1 – Self-Assessment

- New members provide a Self-Assessment against all criteria
- Existing members provide a Self-Assessment against all *mandatory criteria*, in addition to the Clinical function criteria OR the Support and Corporate functions criteria
- Progress on recommendations from previous Periodic Review

Phase 2 - Organisation-Wide Survey

- Members provide a Self-Assessment against all criteria in preparation for the onsite survey
- All criteria are surveyed and progress on recommendations from Periodic Review

Evaluation and Quality Improvement Program Begins

ACHS

Accreditation

Phase 4 – Periodic Review

- Members provide a Self-Assessment against all mandatory criteria in preparation for the onsite survey
- Mandatory criteria is surveyed and progress on recommendations from Organisation-Wide Survey



Phase 3 - Self-Assessment

- Members provide a Self-Assessment against all *mandatory criteria* and the function(s) not addressed in Phase 1
- Progress on recommendations from Organisation-Wide Survey

EQuIP is a four year program with at least one activity per year.

www.achs.org.au



ACHS References: EQuIP 4 criterion 1.5.2 Mandatory

The infection control system supports safe practice and ensures a safe environment for consumers/patients and health care workers.



Infection control

All health care organisations must have processes in place to identify, monitor and audit infections to minimise occurrence. The infection control system includes a surveillance system, hand hygiene policy, and a management plan for antibiotic use and intravenous devices. Single use items should comply with industry standards and not be reused.

Criterion Achievement Ratings

- Level 1 Little Achievement (LA)
- Level 2 Some Achievement (SA)
- Level 3 Moderate Achievement (MA)
- Level 4 Extensive Achievement (EA)
- Level 5 Outstanding Achievement (OA)



Quality Improvement Project



Interventional Nephrology A horizon of clinical practice in dialysis access management

<u>A/Professor Josephine Chow</u>, Wong, J, Spicer T, Gonzalez N & Suranyi M



Background

- Problems with prompt theatre time for dialysis access surgery
- Reliance on temporary or tunnelled HD catheters and its consequences
- Bridging catheters, average of 139 days (4.6 months)
- Increase access related bacteraemia





- > To reduce unnecessary admissions
- To better utilise inpatient beds
- To reduce waiting time for dialysis access surgery
- To reduce access related bacteraemia

Stretch goals

- Implementation of an effective system to manage dialysis access
- Improve centrally inserted haemodialysis line associated bacteraemia by 40% in 18 months





CINEMA CLASSICS COLLECTION -

Rescue team



IDNEY TOL









Administrator



Dialysis Access Coordinator





Planning & implementation

- Renal medical staff was credentialed in the insertion of TVC and to perform peritoneoscopic insertion of PD catheters.
- Dialysis rooms was converted to a procedure room.
- A new role of Dialysis Access Coordinator was established.
- Weekly patient review meetings have been established.
- Review of current policies and procedures.
- Education and training of staff in complying with these policies.











Outcome evaluation

- > Avoiding requirement for general anaesthetic
- Reduction of theatre waiting list for dialysis access surgery
- Increase/improvement in patient choice of management
- More timely dialysis access creation
- Reduction of Vas Catheter usage by 5%
- Prompt intervention for infection, blocked access or other access issues
- Insertion of immediately usable dialysis access, especially in acute cases
- Most procedures are managed as a non-inpatient setting
- Reduction in hospital length of stay by at least 321 bed days
- > Additional saving in ERE

Reduction in centrally inserted haemodialysis line associated blood stream infection by 44.8%





Conclusions

-Successful initiative

- -Create a better experience in health care
- -Cost saving
- -Improve patient outcomes
- -Sustaining change
- -Future scope



Silly Finally! DADDY My waist size is Smaller Barbie than my Victory brain 2007

We need to be innovative

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ACHS Clinical Indicator

- 1.5.2 Infection control
- Percentage of compliances with an hospital cleanliness audit
- Percentage of clusters and trends which are reviewed and followed up
- Percentage of staff who attended annual infection control training
- Percentage of compliances with AS4187 audits
- Percentage of needle stick incidents from recapping
- Percentage of body fluid exposures
- Percentage of non/percutaneous occupational exposures due to noncompliant behaviour
- Percentage of surgical consumers/patients who received AMP (Surgical antimicrobial prophylaxis) within 1 hour prior to surgical incision (or 2 hours if receiving vancomycin)
- Percentage of surgical consumers/patients who received AMP recommended for their surgical procedure
- Percentage of surgical consumers/patients whose prophylactic antibiotics were discontinued within 24 hours after surgery end time



ACHS Clinical Indicator Haemodialysis Access- Associated BSI8

- Haemodialysis associated Blood Stream Infection (BSI) is defined as a BSI in a patient receiving haemodialysis where there is clinical infection at the site of vascular access
- Numerator
 - Blood Stream Infection in a patient undergoing haemodialysis local access site infection
- Denominator
 - Rates per 100 patient months
 - These should then be stratified by vascular access type.
- Vascular access types are:
 - Graft
 - Synthetic
 - Native vein
 - Fistula
 - Temporary catheter (non-cuffed)
 - Permanent Catheter (cuffed)



SSWAHS, WZ

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Haemodialysis fistula-associated blood stream infections												
2. Clinica	2. Clinical Indicator : Haemodialysis fistula-associated blood stream infections											
EQuIP 4, 3.1												
Numerato	r	The numb	er of AVF a	ccess-ass	ociated blo	od stream i	nfections du	uring the pe	eriod under :	study		
Denomina	tor	The numb	er of patient	-months fo	or patients o	dialysed thr	ough AVF o	luring the ti	ime period ι	under study		
		Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	July-Dec	Jan-Jun					
		2006	2007	2007	2008	2008	2009					
Numerator		0	0	3	4	0	5					
Denominat	or	849	907	954	1002	1110	1068					
rate %		0%	0%	3%	4%	0%	4%					
Haemodia	Haemodialysis synthetic graft associated blood stream infections											
3. Clinica	l Indicator	: Haemo	dialysis sy	nthetic gr	aft associa	nted blood	stream inf	ections				
EQuIP 4, 3.2	2											
Numerato	r	The numb	er of synthe	tic graft as	sociated b	lood stream	n infections	during the p	period of stu	ypr		
Denomina	Jenominator The number of patient-months for patients dialysed through synthetic grafts during											

the time period under study Jul-Dec Jan-Jun Jul-Dec Jan-Jun July-Dec Jan-June 2007 2006 2007 2008 2008 2009 2 3 Numerator 7 4 4 1 129 252 97.2 114 108 192 Denominator 3% rate % 4% 2% 4% 2% 1%



CFU Results







Hand Hygiene

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of germ

delp prevent the spread Ini infections

nanitise your hands

🍞 1. Press Once

🍃 2. Spread Evenly

3. Rub in Until Dry

PLEASE USE HAND SANITISER PROVIDED ON ENTERING AND LEAVING THIS WARD AREA

> THANK YOU



nuter (

FREDUZA DO NOT CRETRICT

- 31





SECON INSTRUCTION

60-





The Renal Health Facility Guideline

AccreAll surfaces and fixtures are to be designed to enable easy and thorough cleaning on a regular and repeated basis.

- Convenient and adequate placement of suitable hand wash basins at a rate of one per three (3) treatment bays as well as in all separate treatment areas, utility areas, toilets and showers.
- Alcohol hand-rub dispensers should be at the entrance of each treatment room and
- within each treatment bay.
- Class S isolation rooms should be provided at the rate of one isolation room to every five (5) treatment bays.
- A Class S room is a single room with a shower/toilet en suite.
- A self-closing door is recommended.
- A Personal Protective Equipment (PPE) Bay should be provided immediately outside the room.
- Air-conditioning rather than natural ventilation should be provided to the Unit.
- All airconditioning filters for the systems that service the Unit should be changed/cleaned at a rate consistent with the manufacturer's requirements.
- Floors coverings must be easy to clean and resistant to disinfection procedures.
- All treatment areas should not be carpeted.
- Floors in food preparation areas should be water resistant and greaseproof.
- Wall skirting bases in treatment areas, kitchens, clean and dirty utility rooms and toilets should be made integral to the floor, tightly sealed against the wall.
- Skirting in showers should extend all the way up the wall.
- Wall finishes must be scrubbable and should be smooth and water-resistant especially in the immediate vicinity of plumbing fixtures.
- All exposed ceilings and ceiling structures must be easy to clean.
- Washable blinds are preferable to curtains as they retain less

www.health.nsw.gov.au, 2006



Summary

- HCW are accountable to quality patient care
- Accreditation can be daunting
- Be innovative and never give up
- Never leave it the last minutes
- Importance of clinical data
- Benchmark





