Study Number

WA Audit of Surgical Mortality M308 University of Western Australia 35 Stirling Highway Crawley, WA 6009



Neurosurgical Case Form



Important

- 1) Please do not destroy this form
- 2) Please do not copy this form
- 3) Please return this form to the audit office

By submitting this form to the Mortality Audit, I agree that the Australian and New Zealand Audit of Surgical Mortality (ANZASM) may inform the Professional Standards Department of my involvement with the Surgical Mortality audit, to confirm my compliance with Continuing Professional Development (CPD) requirements

Contact WAASM

Telephone: 08 6389 8650
Facsimile: 08 6389 8655
Email: waasm@surgeons.org

Address: M308, University of Western Australia 35 Stirling Highway, Crawley, WA 6009 Web: www.surgeons.org

ANZASM inclusion criteria:

ANZASM defines a surgeon as a medical practitioner who performs surgical operations; that is, consultants, SET trainees, locums, GP surgeons and Fellows (who are not consultants but are continuing their Fellowship).

Case Inclusion

The ASM audits all deaths that occur in a hospital when:

- 1) The patient was under the care of a surgeon (surgical admission),
 - whether or not an operation was performed, or
- The patient was under the care of a physician (medical and non-surgical admissions) and there was a surgical procedure performed.

All identifiers will be removed by the Audit Office on receipt of this completed form:

Exclusion for terminal patients:

Please complete this section for all patients

Was terminal care planned for this patient prior to or on admission?
YES
If YES please describe the terminal condition:
NO (go to page 2 and complete ALL questions on this form)
If YES, was an operation performed on this terminal care patient?
YES - go to page 2 and complete ALL questions on this form
NO (this patient is EXCLUDED from the audit; do NOT complete this form)

Return this form to the Audit Office.



Please	classify the death into one of these categories	
1(a)	Anticipated death due to terminal illness	
1(b)	Death following cardiac or respiratory arrest prior to arrival in hospital	
2.	Death which occurred despite known preventative measures taken in an adequate and timely fashion	
3.	Death which may not have been reasonably preventable with medical intervention	
4.	Further review of this case is recommended	
5.	Death which may have resulted from healthcare team intervention	
6	Unexpected and unexplained death	



1 Status of surgeon completing form:	Specialty of consultant surgeon in charge of patient:
Consultant Fellow International Medical Graduate SET trainee Service Registrar GP surgeon YES Consultant confirms they have agreed to contents of the form	General Ophthalmology Colorectal Trauma Paediatrics Vascular Obstetrics and Gynaecology Urology Plastic Neurosurgery Oral/Maxillofacial Orthopaedics Cardiothoracic Otolaryngology Head and Neck Ophthalmology Paediatrics Obstetrics and Gynaecology Plastic Oral/Maxillofacial Cardiothoracic Other (specifiy)
Patient Age	
Patient Sex: Male Female Hos	pital Status: Private Public Co-Located
Aboriginal/ Torres Strait Islander descent? Ye	es No
Admission Type: Elective Emergency	Patient Status: Private Public Veteran
Patient admitted by a surgeon? Yes	No
Main surgical diagnosis on admission (as suspec	cted by clinicians after initial assessment)
Confirmed main surgical diagnosis (taking into ac	ccount test results, operations, post mortem etc)
Final cause of death (taking all information into a	ccount, including post mortem)



4	Were there significant co-existing factors increasing risk of death? Yes No (tick all that apply)
	Cardiovascular Hepatic Diabetes Age
	Respiratory Neurological Obesity Advanced malignancy
	Renal Other (specify)
	Terial Street (speerly)
-	
5	ASA 1 – A normal healthy patient ASA 4 – A patient with an incapacitating systemic disease that is a constant threat to life
	ASA 2 – A patient with mild systemic disease ASA 5 – A moribund patient who is not expected to survive 24 hours, with or without an operation
	ASA 3 – A patient with severe systemic disease which limits activity, but is not incapacitating ASA 6 – A brain-dead patient for organ donation
	E (emergency)
6	Was the patient transferred pre-op? Yes No If NO, go to Q7
	Transferred from hospital
	Transferred to hospital
	Was there a delay in transfer? Yes No Was the level of care appropriate? Yes No
	Was the transfer appropriate? Yes No Was there sufficient clinical information? Yes No
7	Was there a pre-op delay in confirmation of main surgical diagnosis? Yes No
	If NO , go to Q8a
	Was the delay associated with: GP Medical Unit Surgical Unit Other (specify)
	Was this due to: (tick all that apply)
	Inexperience of staff Misinterpretation of results Unavoidable factors
	Failure to do correct test Results not seen Other (specify)
8a	Was this patient treated in a critical care unit (go to Q8b) No (continue) (ICU or HDU) during this admission?
	Should this patient have been provided critical care in:
	Intensive Care Unit (ICU)? Yes (continue) No (go to Q9)
	High Dependency Unit (HDU)? Yes (continue) No (go to Q9)
	Why did this patient not receive critical care? (tick all that apply and then go to Q9)
	No ICU/ HDU bed available Active decision not to refer to critical care unit
	Admission refused by critical care staff Not applicable
	No critical care unit in the hospital

4.



	of this patient?					
Specify				 	 	
Please desc	ibe the course to	death (or atta	ich report)			
(use back of	form if required)					



)	Was an operation performed within 30 days of death or during the last admission? Yes No
]	If YES , go to Q11. If NO : (tick as necessary)
	It was not a surgical problem
	Active decision not to treat or operate was this a consultant's decision? Yes No
	Patient/family refused operation
	Rapid death If NO operation was performed, please go to Q18
,	Surgeon's view (before any surgery) of overall risk of death
	Minimal Small Moderate Considerable Expected Futile
	Description of operation(s) (including relevant radiological or endoscopic procedures)
۱ (Operation (1) Date / Start time(24hr clock) Estimated length (hours) of operation
(Operation (2) Date / Start time (24hr clock) Estimated length (hours) of operation
	Operation (3) Date / Start time (24hr clock) Estimated length (hours) of operation
	Timing of operation 1st Op 2nd Op 3rd Op
	Elective
	Immediate (< 2 hours)
	Emergency (< 24 hours)
	Scheduled emergency (> 24 hours after admission)



1					etist preser				Yes No Yes No N/A	1st Op	2nd	Op :	3rd Op
Grades of surgeons mak	ing decis	1st	_	, assisting	and prese		atre				3rc	I Ор	
Consultant	Decide	Operate	Assist	In Theatre	Decide	Operate	Assist	In Theatre	ΙΓ	Decide	Operate	Assist	In Theatre
Fellow									-				
International Medical Graduate													
SET trainee													
Service Registrar													
GP surgeon													
None													
Surgical complications of Procedure related seasonificant post-op blee Neurological defici	elating tepsis		nt adm	nission (p Haemo	lease tick a rrhagea SF Leak			go to Q17	Infec				
Was there a delay in reco	ognising	post-o	perativ	e compli	cations?	Yes	No [
Was there an anaesthetic	compone	ent to thi	s death	1? Y	es	No			Possi	bly			
Was death within 48 hours	of last a	naesthe	etic?	Y	es	No		Do	n't kn	ow			
Was a post-mortem exami	nation p	erformed	1?										
Yes – Hospital	Yes – C	oronor [No		efused		l Ink	nown	,			



19	Was DVT prophylaxis used during this admission? Yes No No If YES (tick all that apply)
	Heparin (any form) Aspirin TED Stockings
	Warfarin Sequential compression device Other (specify)
	If NO, state reasons: Not appropriate Active decision to withhold Not considered and please comment on why NOT used
20	Was there an unplanned return to theatre? Yes No Unknown
	Was there an unplanned admission to a critical care unit? Yes No Unknown
	Was there an unplanned readmission within 30 days of surgery? Yes No Unknown
	Was fluid balance an issue in this case? Yes No Unknown
	Would it be beneficial for this case to undergo Root Cause Analysis ? Yes No Unknown Unknown
	If there was an issue with communication, please provide details:
21a	Did this patient die with a clinically-significant infection? Yes (continue) No (go to Q22) Was this infection acquired: before this admission (go to Q21b) or during this admission (continue) If acquired during this admission, was the infection: acquired pre-operatively or a surgical-site infection or acquired post-operatively or other invasive-site infection
21b	Was the infection : Cranial /Spinal infection Pneumonia Intra-abdominal sepsis Septicaemia Other source
	Was the infective organism identified? Yes No
	If yes, what was the organism?
	Was there a delay in treatment? Yes No
22	Was the antibiotic regimen appropriate? Yes No Unknown Not applicable



23	•	do you consider management could have	been improved in the following	ng areas?
	Pre-operative managen prepara	37 31 31/4	Intra-operative/technical management of surgery	Yes No N/A
	Decision to operate	at all Yes No N/A	Grade/experience of surgeon deciding	Yes No N/A
	Choice of opera	ation Yes No N/A	Grade/experience of	Yes No N/A
	Timing of operation (too	late,	surgeon operating Post operative care	
	too soon, wrong time of	day) Yes No N/A	Appropriate equipment	Yes No N/A
			Appropriate equipment	Yes No N/A
24a	recognises that it may be An area of CONCERN is An ADVERSE EVENT is a	where the clinician believes that areas of can unintended injury caused by medical maded hospitalisation or to temporary or permater	are SHOULD have been bette anagement rather than by dise	er. ease process, which is sufficiently
	Were there any issues in	the management of this patient? Yes](please describe below) N	o (go to Q25)
24b	•	be the 3 most significant clinical managem most significant clinical management is		
	Area of:	Which:	Was the event preventable?	Associated with?
	Consideration	Made no difference to outcome	Definitely	Audited Surgical team
	Concern	May have contributed to death	Probably	Another Clinical team
	Adverse event	Caused death of patient who would	Probably not	Hospital
		otherwise be expected to survive	Definitely not	Other (please specify)
	ii). (please describe the	second most significant clinical manag	ement issue)	
	Area of:	Which:	Was the event preventable?	Associated with?
	Consideration	Made no difference to outcome	Definitely	Audited Surgical team
	Concern	May have contributed to death	Probably	Another Clinical team
	Adverse event	Caused death of patient who would	Probably not	Hospital
		otherwise be expected to survive	Definitely not	Other (please specify)
	iii). (please describe the	third most significant clinical manager	nent issue).	
	Area of:	Which:	Was the event preventable?	Associated with?
	Consideration	Made no difference to outcome	Definitely	Audited Surgical team
	Concern	May have contributed to death	Probably	Another Clinical team
	Adverse event	Caused death of patient who would	Probably not	Hospital
		otherwise be expected to survive	Definitely not	Other (please specify)



ii 120, prodoc opociij		
Was trauma involved? Yes (continu	ue) No Unknown	
(a) Was the trauma the result of a fall ?	(b) Was the trauma the result of a road traffic accident?	(c) Was the trauma the result of violence?
Yes (continue)		
No (go to (b))	Yes (continue)	Yes (continue)
If yes, please indicate:	No (go to (c))	No
	If yes, please indicate:	l .a
	in you, prodoc indicate.	If yes, please indicate:
Fall at home	Motor vehicle accident	If yes, please indicate: Domestic violence
Fall at home Fall in a care facility		_
Fall at home Fall in a care facility	Motor vehicle accident	Domestic violence
Fall at home Fall in a care facility Fall in hospital	Motor vehicle accident Motor bike accident	Domestic violence Public violence
Fall at home Fall in a care facility Fall in hospital Unknown	Motor vehicle accident Motor bike accident Bicycle accident Pedestrian accident	Domestic violence Public violence Self-inflicted violence
Fall at home Fall in a care facility Fall in hospital Unknown	Motor vehicle accident Motor bike accident Bicycle accident Pedestrian accident Unknown	Domestic violence Public violence Self-inflicted violence Unknown
Fall at home Fall in a care facility Fall in hospital Unknown	Motor vehicle accident Motor bike accident Bicycle accident Pedestrian accident	Domestic violence Public violence Self-inflicted violence Unknown
	Motor vehicle accident Motor bike accident Bicycle accident Pedestrian accident Unknown Other*	Domestic violence Public violence Self-inflicted violence Unknown

Additional comments:



THANK YOU

FOR OFFICE USE					
Date sent	Date received				
Date coded / entered	Entered by Entry checked by				
Date sent to FLA	Date received from FLA				
No further action	For assessment				
Medical records requested	Medical records received				
Date sent to SLA	Received from SLA				
Case completed	Coding: Yes=1, No=2, Don't know=3				

