DHSSPS / HSC MEDICAL LEADERS FORUM 9th January 2012 D2 LECTURE THEATRE, CASTLE BUILDINGS, STORMONT

DEPARTMENT PRESENT Dr Michael McBride Belfast HSC Trust **Dr Tony Stevens** Dr Paddy Woods Southern HSC Trust Dr John Simpson South Eastern HSC Trust Dr Liz Mitchell Dr Charlie Martyn Angela McLernon NIAS Dr David McManus Dr Heather Livingston **HSCB John Compton** Dr Carolyn Harper PHA **Dr Martin Donnelly** Dr Sloan Harper **HSCB** GAIN **Dr Tom Trinick** RQIA **Dr David Stewart** QUB Dr Graham McGeown Faculty of Medical Peter Lees Leadership & Management **HSC Leadership Centre** Lorraine King Dr Marisa Mason NCEPOD NCEPOD Dr Kathy Wilkinson DHSSPS - CIC Programme Jane Lindsay Gill Smith **BSO**

Welcome and Apologies



PART 1 - STRATEGIC ISSUES

1 The Faculty of Medical Leadership and Management (Copy Slides Attached)





2 National Confidential Enquiry into patient Outcome and Death(NCEPOD)

Surgery in Children: Are we There Yet? – (Copy Slides Attached)

Dr Kathy Wilkinson, NCEPOD Clinical co-ordinator and Consultant Paediatric Anaesthetist, gave a presentation on its report Are We There Yet which was the 3rd study on Surgery in Children. It aimed to explore remediable factors in processes of care of children 17 years and younger, including neonates, who died prior to discharge and within 30 days of emergency or elective surgery.

The presentation covered the background, aims, data used, clinical governance and recommendations of the report.

It looked at the organisational structure of services and at the quality of care received by individuals.

She outlined

- Difficulties with Data returned
- Data; poor clinical notes, data recording not appearing in notes, types and quality of data
- Clinical leadership, multidisciplinary management meetings and team working
- Specialisation and centralisation of children's services
- Regional Standards and operational procedures

The report highlighted the need

- for children's surgical services to be organised in a comprehensive and fully integrated fashion
- regional leadership to ensure the full development of networks
- the rationalisation of regional standards for children's surgery and anaesthesia

CMO thanked Dr Wilkinson for her presentation.

Knowing the Risk – (Copy Slides Attached)

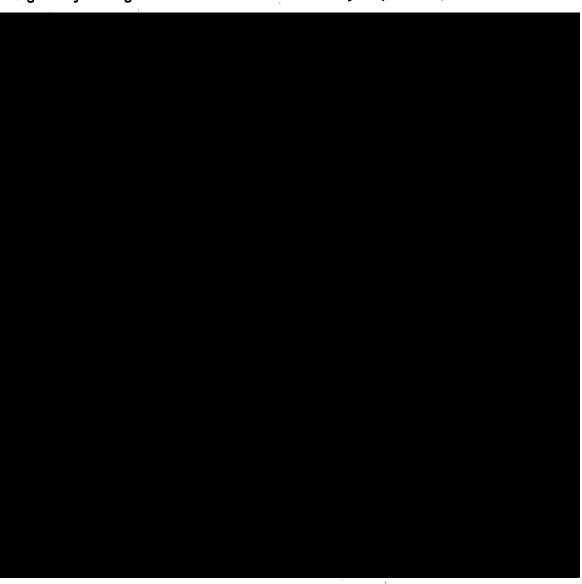


3 Health and Social Care (HSC) Review - (Copy Slides Attached)



4 Quality Strategy 2020 Implementation Plan

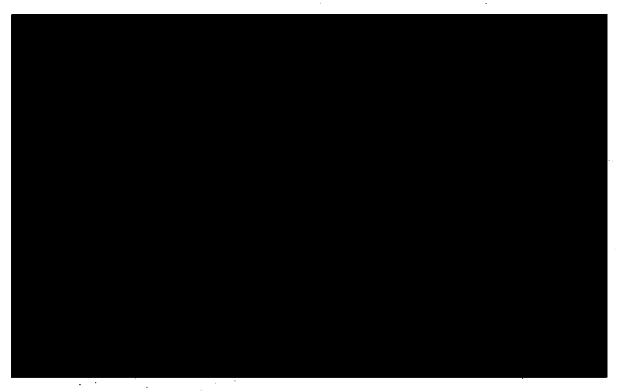
5 Regionally Managed Medical Locum Service Project (RMMLS)



PÀRT 2

6 Introduction

• Evaluation of HSC Research & Development Funding in NI



7 Minutes of Previous Meeting

8 Update on Outstanding Action Points



9 Any Other Business

Intravenous Fluids in Children

CMO thanked everyone who had been involved in the GAIN audit.

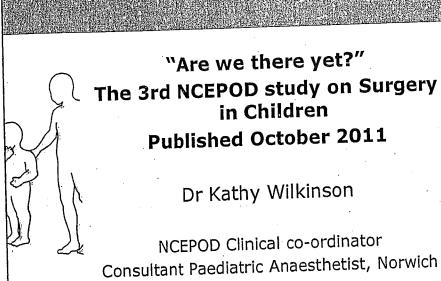
The meeting was advised that the primary issue is to ensure that everyone is aware that the current guidance still stands and is being actively implemented.

CMO informed the meeting that the issue had been discussed at CMO level with the aim to have a UK approach. Sir Bruce Keough, Medical Director of the National Health Service in England, has supported the selection of Intravenous Fluids in Children as a topic for consideration by NICE.

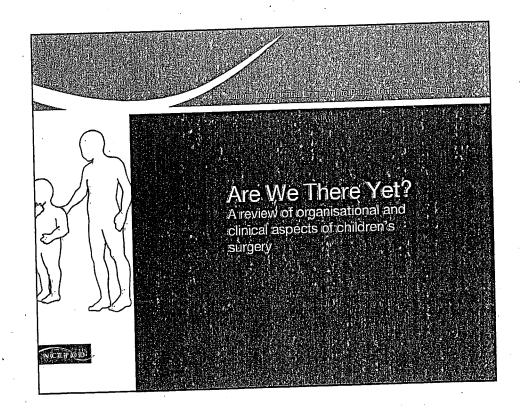
Trauma – Transfer of Patients to the Royal Victoria Hospital



Date of Next Meeting – 5th March 2012



NICE POD



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NCEPOD

- Many changes in the last 20 years
 - NCEPOD reports 1989/1999
 - Kennedy Report
 - NSF for children
- Clinical and organisational change to healthcare provision for children
- Specialisation and centralisation of children's services

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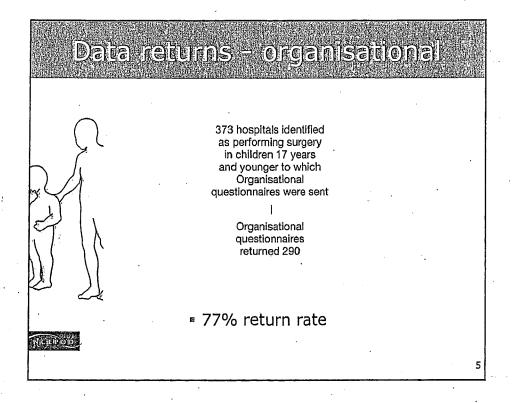
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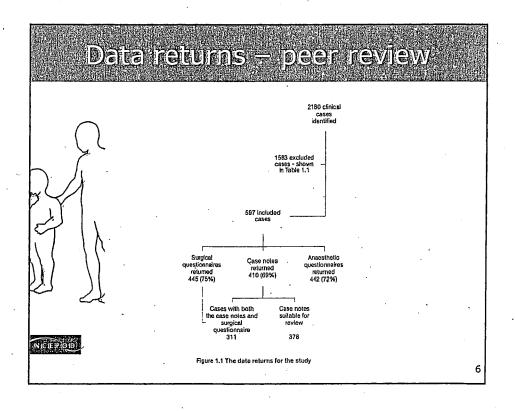


To explore remediable factors in processes of care of children 17 years and younger, including neonates, who died prior to discharge and within 30 days of emergency or elective surgery

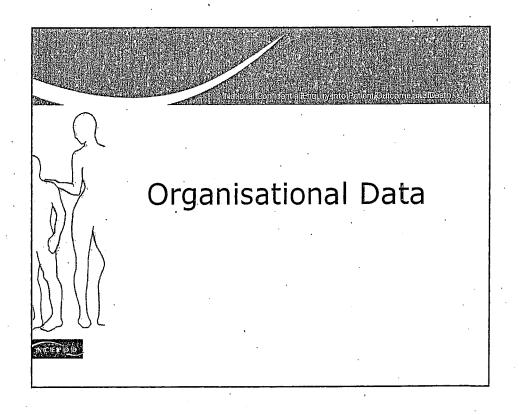
- (1) Organisational structure of services
 - 2) Quality of care received by individuals

NCEPOD

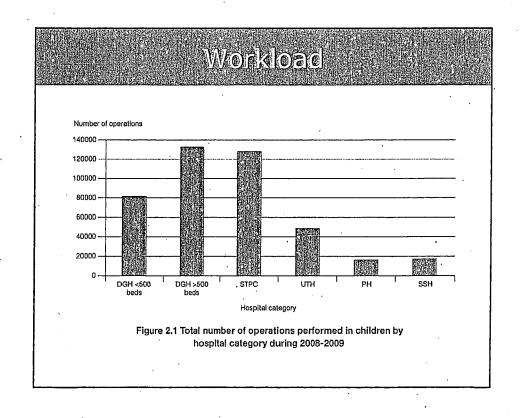


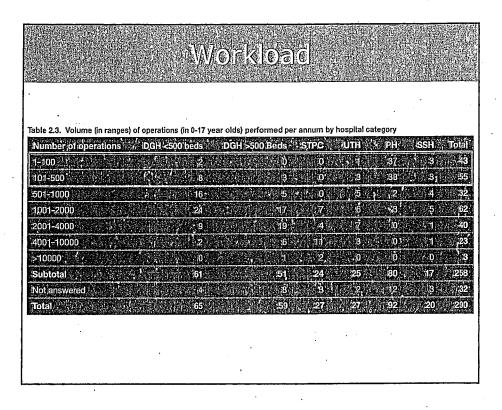


Philiation date. Sud Autation	i vene	1999 1 year	2014 2 years
Age (vears Inclusive)	(C+O)	0-15	0-il7
Population:	Cardiac Non Cardiac	Non Cardiaci.	Cardiac Non cardiac
Deaths reviewed	262/295	112	378
Deaths Identified	47	1 39	597 .
%neviewed/a : i.	62.8% anaes () 70% suig =	30º/d 1	68%



Dwervrew/data 4		
Table 2.1 Hamital actagony		
Table 2.1 Hospital category Thospital category	Total	%
DGH <500 beds	. 65	22.4
DGH >500 beds	. 59	20.3
STPC	27	9.3
UTH	. 27	, 9.3
PH :	92	31.7
SSH	. ∵ ∴ ∵ 20	(6.9)
Total	290	





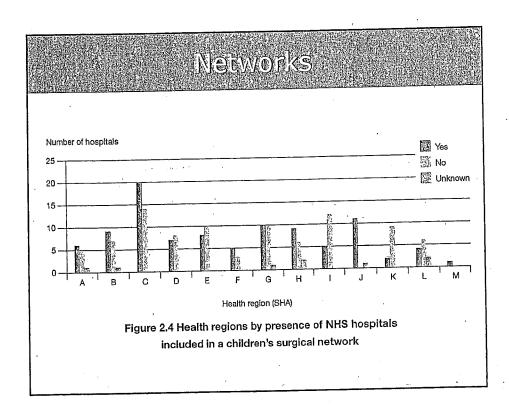
Networks

- 'Clinical network for children's surgery'
 - Informal / formal

Table 2.4 Hospital category and whether they were included in a network

Hospital category	$(i,j) \in \mathcal{H}_{i}$	Yes 🖖	No.	Unknown	, ∛Subtota	্ল Not an	swered	∏otal.
'DGH <500 `		.24	.35		63		2	65
DGH >500		28 ي	27	3	¦ਂ ਵ ਼ੇ ਂ 58		7.7	59
STPC		:22	4 '	⇒ ', '0¦	26	$\{\{i_i\}_{i=1}^n\}_{i=1}^n$. 27
штн г		i 18	13		+1 27			27
PH.	CERTIFIE	71	70	: 9	. 90		2	92
(SSH)		9			. 20		, o .	,20, ₁
Total '		107	.160	177	284		, 16	290
When produced in the second in the				Total Control of the Party of t	SUPERING PROPERTY.			يوپ جد

 $\stackrel{\bullet}{}$ 49% (96/194) of NHS hospitals included in a network



Recommendations

Clinical networks for children's surgery

There is a need for a national Department of Health review of children's surgical services in the UK to ensure that there is comprehensive and integrated delivery of care which is effective, safe and provides a high quality patient experience.

National NHS commissioning organisations including the devolved administrations need to adopt existing recommendations for the creation of formal clinical networks for children's surgical services. These need to provide a high quality child focused experience which is safe and effective and meets the needs of the child.

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		abildran by k	oenital cal	lenory			-
Table 2.15 Presence of operational policies for su	igery to	DGH1		1000		1.1	land to
	<500	>500	STPC.	אדעג' ל	PH	SSH	Total
Policies:	(n=65)	į (n=59),	(n=27)	(n=27)	(n=92)	(n=20)	(n=290)
The referral of surgical patients to hospital	1, 33	•34	19	9	(62)		168
Who can operate on children	40	4 (35	l 19	V () ()	70		1189
The management of emergency surgery for children	36	. ' .31	22	14	22		134
Pre-operative preparation of children	43	47	. 26	18	79	, ,16	229
Out of hours medical cover for children	37	37	.25	15	41	8,	
Admission criteria for surgical patients	. 36	34	20	13		i 14	P 199
Who can anaesthetise children	47	. 2 : 45	22	19.	66	15	1 12 4
The management of emergency anaesthesia for children	35	35	. 21	12	16	Į · ∃0	129
Handover between clinical teams	35	:25	· · · · · 24,	9	31		F 135
The named consultant who has overall clinical responsibility of children who undergo surgery	36) 	. 25	15	_ 511	12	170
Answered YES to all policies	1 1 4	ั้งการที่ก	15	***	a Lucia	100	

Recommendation

Team working

All hospitals that provide surgery for children should have clear operational policies regarding who can operate on and anaesthetise children for elective and emergency surgery, taking into account on-going clinical experience, the age of the child, the complexity of surgery and any co-morbidities. These policies may differ between surgical specialities.

Glinical dovernance

Table 2.19. Presence of audit and morbidity and mortality meetings that included children, by hospital category

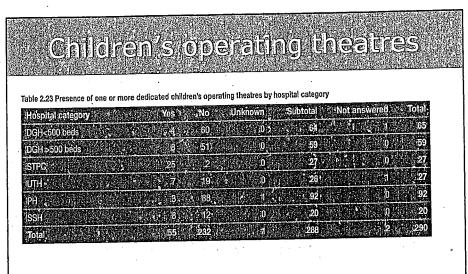
	Morbidity a	nd Mortality meetings und	ertaken
Hospital category	Yes No Unki	nown Subtotal ('1N	ot answered in Total
DGH<500.beds::	33 ' 22' '	4 , 1 359	6 65
iDGH⇒500 beds	· 238 15	5 ¹ 58	., 1 59
STPC	27, 10 0 11	0 .27	0 27
UTH	16 28	2 26	i 1 27
PH		2 7 86	6 .92
SSH	14 6	0 4 4 20 4 3	0 20
Total	147 116	13 276	14 , 290

- 53% of hospitals held audit and M&M meetings for children
- 4/26 hospitals with a >4000 operations/year did not undertake meetings

Recommendations

Clinical governance and audit

All hospitals that undertake surgery in children must hold regular multidisciplinary audit and morbidity and mortality meetings that include children and should collect information on clinical outcomes related to the surgical care of children.



 9 hospitals of all categories that reported >4000 operations/year did not have dedicated children's operating theatres

	•						
•							
	nens elective 1≼500 : IDC beds		STPC	'UTH	:PH	SSH	Total
	44	44	27.	2:1	19		166
Adult operating list with a segregated time slot for children.	45.	46	12	18	-67 - ¹	18	, 191
Mixed into an adult operating list in no particular order	. , . 15	13	: :5	.6'	22	* 3	64
Other	. '0	2	2 2	g die	. 2.	14.	11
'Answers may be multiple		•			¢,		
					*		

Racovary

Table 2.29 Presence of a recovery ward separate from adults

Hospital category DCH-500 bods	Yes Xa	. muo . s . 20	ubroizi Mur 163	alisweiten juri
DGH >500 beds	44)	15	59	, 40 i 17 5
STPC .	.22	3	25	2 2 2 2
UTH	18)	7 7	25 👵	(i
PH	47	.43	90	2 1 9
SSH	9 9	M11	20	(° 10 a 11 2
Total	183	991	282	. 18 .29

35% (99/277) children were not recovered in separate area from adults

Recommendations

■ Theatre scheduling for children

Hospitals that have a large case load for children's surgery should consider using dedicated children's operating theatres.

Hospitals in which a substantial number of emergency children's surgical cases are undertaken should consider creating a dedicated daytime emergency operating list for children or ensure they take priority on mixed aged emergency operating list.

DHSSPS

Specialised staffing

Anaesthetic assistance

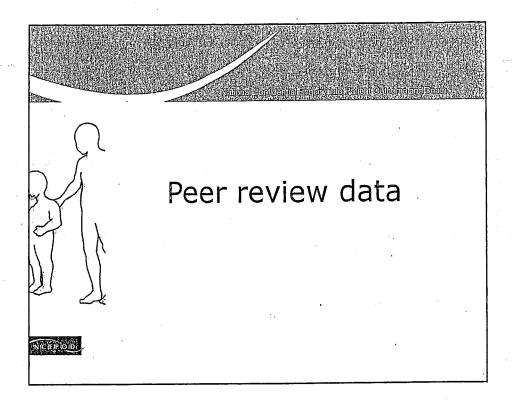
Table 2.34 Presence of at least one anaesthetic assistant with competencies in children's anaesthesia 24 hours a day (for hospitals that provide non-elective surgery for children)

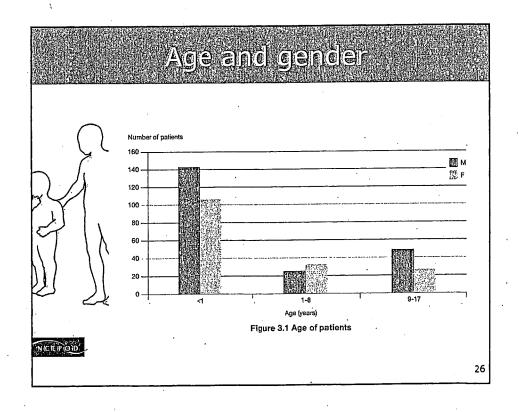
Hospital category	Yes No Ur	nknown Subtotal N	ot answered : ; Total
DGH<500 beds'	26 (21	1 53	1 15/
DGH >500 beds	37	2 53	<u>.</u> - 2 · 55
STPC	24 (1) 1 (1)	3 27 27	0 27
WTH:	12 5	* 4 ; · · * • 21 • · ·	. 0
PH N	4 (2)	70 Sec. 31 5.	0, 5
SSH	5 2 46 .	.0 i e (1711	0 11
Total .	108 48 48	14 1170	6 a 176

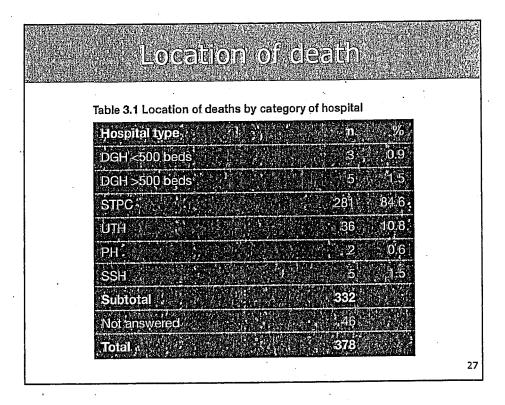
Recommendations

Specialised staff for the care of children

There is a need for those professional organisations representing peri-operative nursing and operating department practitioners to create specific standards and competencies for staff that care for children while in the operating theatre department.







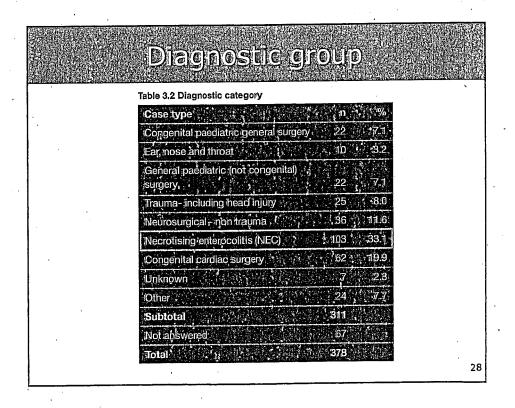
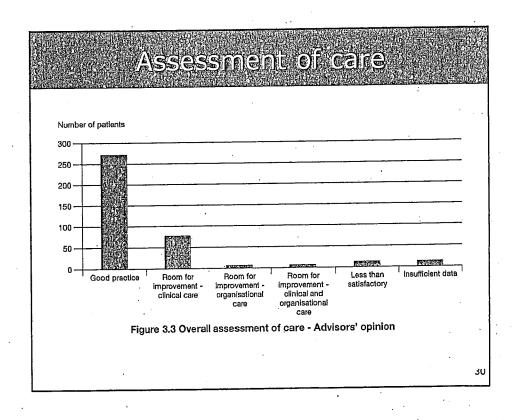
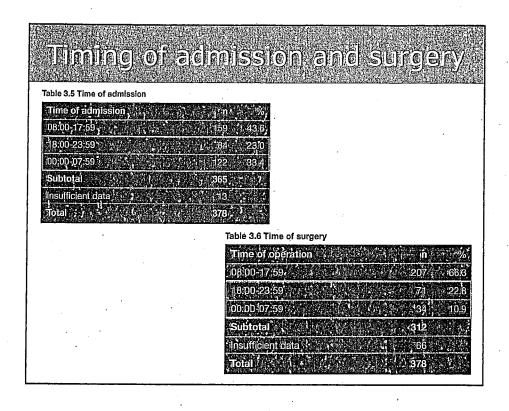


Table 3.3 Urgency of admiss Urgency of admission	ion n	%
Elective	: 150	16.
Emergency:	254	82.3
Ünknown	51/	71.6
Subtotal	309	
Not answered/No surgica	guestionnaire 69	
Total '	378	





Transfer for surgery Table 3.8 Deterioration in patients' condition on transfer - Advisors' opinion Deterioration occurred n % Yes 28 13.8 No 175; 86.2 Subtotal 203 Insufficient data 43 Total 246

Care during transfer

Table 3.9 Appropriateness of the care given to the patient during transfer - Advisors' opinion

Care appropria	te 🧐 🏸	; ;; T	. %
Yes		. 163	97.0
No , j			3.0
Subtotal;		168	
Insufficient data		7	3
Total		. : 24	

33

Poor care during transfer

A small child presented to the local DGH with a reduced conscious level and a GCS of 8 after a fall. An early CT scan revealed an acute subdural cerebral bleed. Transfer by the local team was arranged. Blood gases on arrival at the tertiary centre revealed that ventiliation had been inadequate for some time (pCO₂ 13.8, pH 6.99). In theatre as well as a large bleed, there was considerable oedema and a "non-pulsatile" brain was noted by the neurosurgeon. The prognosis was considered hopeless, and after full review and discussion, treatment was withdrawn.

Advisors commented that whilst the outcome may well have been very poor, substandard management on transfer with failure to maintain basic ventilation clearly worsened the prognosis of this very serious injury.

Deaysin transfer

Table 3.10 Transfer delayed at any stage - Advisors' opinion

Transfer delayed		' ' 'n	%
Yes :		'' '34,	19:3
Ng:):142	80.7
Subtotal .		176	
Insufficient data.		70	
Total		246	

35

How long did transfer take?

Table 3.11 Time taken from decision to transfer to admission in receiving hospital

Time taken.	n . 1%.
Within 3 hours	25 / 15.7
Within 6 hours	43 27.0
Within 12 hours,	
Within 24 hours	54 - 34.0
More than 24 hours	12 , 7.5
Subtotal	159
Not answered/ Nó surgical questi	ionnaire 87
Total ,	246

Lack of ability to diagnose and operate on an acute surgical problem

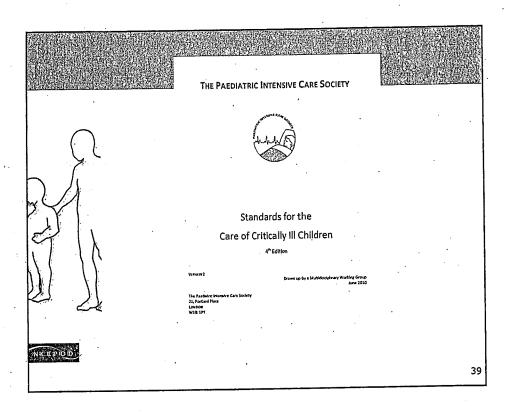
A child presented to their local hospital with a short history of abdominal pain. Local paediatricians referred the patient to general surgery who in turn asked for an urgent anaesthetic assessment as they believed that the patient was in need of pre-operative resuscitation. After this occurred surgeons requested transfer to the tertiary hospital which occurred after a 10 hour delay. The patient was found to have a gangrenous appendix at surgery. Following this transfer the patient developed multi-organ fallure and died one week later.

Advisors were concerned that the local team was insufficiently confident to operate on this child and that despite appropriate attempts at resuscitation subsequent transfer was delayed.

Recommendation

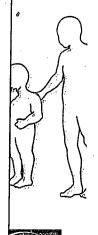


National standards, including documentation for the transfer of all surgical patients, irrespective of whether they require intensive care need to be developed by regional networks.



	f death should hav	re heen decumen	ted -
Table 3.26 Risk of Advisors' opinion		te been documen	
Risk should h	ave been docun	nented ; n	j: "0%'
Yes		. 316	84.7
No.		57	15.3
Subtotal		373	
Not answered		5	*
Total		. 378	

Recommendation



In surgery which is high risk due to comorbidity and/or anticipated surgical or anaesthetic difficulty, there should be clear documentation of discussions with parents and carers in the medical notes. Risk of death should be formally noted even if difficult to quantify.

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41

Morbidity and mortality meetings

Table 3.47 Evidence of a morbidity and mortality discussion following death - Advisors' opinion

Morbidity and	mortality	dișcussic	n in	%
Yes ,			126	68.5
No: :			58	31.5
Subtotal			184	
Insufficient data	a ,		194	
Total .			378	

Recommendation



Confirmation that a death has been discussed at a Morbidity and mortality meeting is required. This should comprise a written record of the conclusions of that discussion in the medical notes.

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:: :: Neurosurgery = Trauma Quality of care

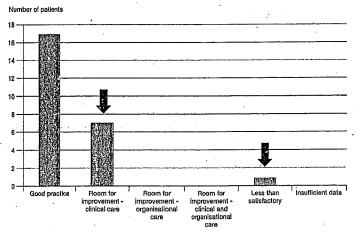


Figure 4.5 Advisors' assessment of the quality of care in trauma/head injury cases

Neurosurgery - Trauma Transferdelays

Table 4.13 Examples of transfer delay

Examples of delay (Trauma/head injury)
Delay in finding a paediatric intensive care bed at the receiving hospital
No beds available in neurosurgical centre
Patient unstable and appropriately required further treatment at the referring hospital before transfer
Delay of >2hours in obtaining results of a CT scan 🤻 🖟 🖟
Unable to contact neurosurgeon (in theatre)
Unable to transfer CT images to neurosurgical centre
Delay in obtaining Factor VIII from National Blood Service: unlikely to have affected outcome

*answers may be multiple (n/112)

Delay in 5/10 cases where this could be assessed

4

Number of patients 30 Good practice Room for improvement clinical care organisational care Figure 4.7 Advisors' assessment of the quality of care in non-trauma neurosurgical cases Peaks during infancy and teenage years Majority related to haemorrhage or tumour

Neurosurgery: Non-trauma Delays

Delay in obtaining specialist review

Delay in obtaining specialist review
A teenager presented with a history of headache,
weight loss and had a GCS of 14. A head CT was
performed the next day and revealed a possible
cerebral abscess or tumour. The neurosurgical unit
advised antibiotics and an MRI was requested.
The patient deteriorated and despite transfer to the
neurosurgical unit they died.

Comment from the consultant neurosurgeon who completed the surgical questionnaire was that "the diagnosis of an abscess was made immediately, and correct advice given. However, it is notable that the referral occurred at a handover period, and no consultant neurosurgeon was involved in the management decisions."

Advisors commented that this was a totally unacceptable level of care. Waiting for an MRI scan when the CT scan at the local hospital showed clear pathology was unnecessary and urgent specialist review and surgery was required.

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Recommendations



- Urgent completion of the "Safe and Sustainable Review of Children's Neurosurgical Services" is required with implementation of the appropriate pathways of care that this is likely to recommend.
- This should be followed by a further audit to ensure compliance with national standards and models of care for all children requiring neurosurgery.

NICEPIOD

Summary

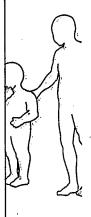


- NCEPOD has presented a wide ranging review of the organisation and delivery of children's surgical services
- Overall the peer review demonstrated a good standard of care
- There is room for improvement both in hospital service provision and clinical care

NCEPOD

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Summany



- There is a need for children's surgical services in the UK to be organised in a comprehensive and fully integrated fashion
- National leadership is required to ensure networks are fully developed
- Existing national standards for children's surgery and anaesthesia requires rationalisation

NICYEP (OID)