The aftermath of adverse events: A view from the NHS

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Outline

- Study A: Managing the after-effects of serious patient safety incidents in the NHS: An online survey study
- Study B: Surgical complications and their implications for surgeons' wellbeing: An interview study

Patients' experiences of adverse events

- Adjustment worse than in patients with serious medical conditions (Vincent, 1993)
- Further trauma when the incident is not handled sensitively (Vincent, 1993)
- Failure to meet the needs of harmed patients:
 - ✓ loss of trust
 - ✓ legal action

(Vincent et al, 1993; Van Vorst et al, 2007)



Being open

 Patients would like to be informed of any error

 Staff support openness but do not disclose





Barriers of being open

- Institutional repercussions
- Legal liability
- Blame
- Lack of confidentiality
- Shame/embarrassment
- Lack of institutional commitment/support

(Kaldjian et al, 2006)



Being open Communicating patient safety incidents with patients and their carers



NPSA, 2009

Managing the after-effects of serious patient safety incidents in the NHS: An online survey study

*Pinto A., Faiz O., Vincent C.; BJM Quality & Safety;doi:10.1136/bmjqs-2012-000826

Group discussion

- To what extent is "being open" in the NHS?
 - Which factors affect the implementation of "being open" guidelines?
- Ideal vs. actual discussions with patients/families
 - Who is involved
 - How many meetings are held
 - Elements of typical discussions with patients/families
 - Support for patients/families

Study aims & design

How do NHS trusts manage the aftermath of serious patient safety incidents?

Study aims

• To investigate NHS

policies & practices

relating to the

management of

serious patient

safety incidents

Methods

 Sample: 209 risk managers of NHS trusts

 Online questionnaires distributed through the NHS Litigation Authority

Questionnaire

- Availability of policies
- Frequency and forms of **being open**
- Availability & forms of support for patients /families
- Availability & forms of support for staff
- Barriers of being open

Participant characteristics

Participant characteristics	N (209)	%	
Trust type			
Acute Trusts	100	47.8	
Ambulance Trusts	8	3.8	
Mental Health & Learning Disabilities Trusts	29	13.9	
Primary Care Trusts	58	27.8	
Other 14		6.7	
Foundation status			
Yes	76	36.4	
No	133	63.6	
Professional background			
Nursing	86	41.1	
Medicine	2	1.0	
Law	4	1.9	
Management	66	31.6	
Other	51	24.4	

Being Open



Being Open



Incident severity



- Significant effect of incident severity [F (1.46, 22.11) = 25.06, p<.001]
- Incidents with full recovery are openly discussed significantly less often than incidents that lead to death (*p*<.001) or severe longlasting disability (*p*<.001)

Structure of "being open" meetings

Structure of "being open" meetings	Ν	%		
Parties involved				
Executive director(s)	125	79.1		
Clinical person involved in investigation	97	61.4		
Clinical person involved in incident	45	28.5		
Non-clinical person involved in investigation	113	71.5		
Risk manager(s)	103	65.2		
Timeframe				
Within 24 hours	25	16.3		
Within 1-3 weeks	23	15.0		
Straight after the investigation	1	0.7		
3-6 months after the investigation	95	62.1		
Other	9	5.9		
Regularity				
One-off meeting	22	10.5		
2-3 meetings	42	20.1		
> 3 meetings	76	36.4		
As many as the patient/family wish	46	22.0		
Other	22	10.5		

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Typical discussions with patients/families



Support for patients/families



How often each of the listed actions are taken after serious patient safety incidents?

Barriers of being open



Support for staff



Conclusions

• Awareness of importance of being open is high in NHS Trusts

 'Taking responsibility for harm', 'prompt and timely information', 'follow-up support' do not happen routinely

 \odot Trusts reluctant to be open when incidents do not lead to severe harm

• Clinical staff's fears overestimated vs. organisational barriers

 \odot Support for staff is recognised as important but availability is low

• Research on what patients' and staff's preferences for support

Group discussion

- Institutional support for staff in then NHS
 - Is there adequate support for NHS staff after serious patient safety incidents?
 - What support structures exist?
 - Which ones healthcare staff value most?
 - How could support for staff be improved?



Surgical complications:

Implications for surgeons' wellbeing

Impact of adverse events on staff

- Intense emotional distress
- Higher risk for burn-out and depression
- Reciprocal cycle of symptoms →

suboptimal patient care and error

(Schwappach et al., 2008; Sirryeh et al., 2010)



Surgical complications

- Operating room: one of the highest risk areas for serious medical incidents (Leape et al., 1991; Gawande et al., 1999)
- Profound consequences for patients and surgical teams (Vincent et al., 1993)
- Sense of direct responsibility for surgical outcome (Shanafelt et al., 2010; Pierluissi et al., 2003)
- Surgical complications more likely to be associated with a complaint (Murff et al., 2006)

An interview study

How do surgeons feel about their complications?

Study aims

- How surgeons are affected
- How they **cope** with their consequences
- How they would like to be supported
- How their interaction with patients is affected

Methods

- Sample: 27 general and vascular surgeons (consultants & senior registrars) of 2 NHS trusts in London
- Semi-structured interviews
- Grounded theory (Glaser & Strauss, 1967)

Overarching themes

 $_{\odot}$ Personal and professional impact

- \circ Factors affecting intensity of reactions
- \circ Coping
- \circ Support
- Institutional culture
- \circ Communication with patients and families
- \circ Patient/family reactions
- \circ Patient support structures

Impact

Themes	Sub-themes	N (%)
Emotional Impact		
	Guilt	15 (55%)
	Crisis of confidence	8 (30%)
	Worry about one's reputation	8 (30%)
	Worry for the patient	6 (22%)
	Anger	6 (22%)
	Anxiety	6 (22%)
	Disappointment	3 (11%)
	Sadness	3 (11%)
Behavioural Impact		
	Surgical practice is affected	18 (67%)
	(e.g. more conservative, risk-adverse)	
	Increasing efforts to improve	4 (15%)
	Becoming aggressive	4 (15%)
Cognitive Impact		
	Rumination	6 (22%)
	Reflection on what went wrong	6 (22%)
	Loss of concentration	3 (11%)
Social Impact		
	Interference with personal life	6 (22%)
	Relationships with colleagues are enhanced	3 (11%)
Other Impact		
	Learning	11 (40%)
	Physical reactions	2 (7%)

Impact

"...there is a certain stage, where you don't think so much what you're doing. You're just cominant you're enjoy

"... a complication during a certain procedure, I suspect that most surgeons would remember that patient and that complication when they encounter that procedure again. And most of them will use that memory as a helpful situation to try and avoid similar complications..."

(Registrar, o₃)

al al ve l development

Memories

Factors of impact

Themes	Sub-themes	N (%) of participants
Case-related		
	Expected vs. unexpected complications	18 (66%)
	Preventable vs. less preventable complications	16 (59%)
	Elective vs. emergency surgery	8 (30%)
	Intra-operative vs. post-operative complications	6 (22%)
	Life-saving vs. lifestyle surgery	3 (11%)
Surgeon-related		
	Personality	21 (78%)
	Experience	21 (78%)
	Self-confidence in surgical technique or decision-making	10 (37%)
	Level of responsibility on the case	7 (26%)
	Other personal troubles	5 (18%)
	Management of complication	3 (11%)
	Sense of responsibility to the patients	2 (7%)
	Personal expectations about the outcome	2 (7%)
Patient or family-related		
	Patient outcome	17 (63%)
	Patient/family reactions	13 (48%)
	Empathy with patient	9 (33%)
Team-related		
	Colleagues' reactions	9 (33%)
	Support during/after surgery	4 (15%)
Institution-related		
	Blame culture	10 (37%)
	Teamwork structures	4 (15%)
	Other support structures	2 (7%)
	Quality of training	2 (7%)

Factor

"...repairing s a stroke an would be and who' better of procedur impact on loss, paraly. affect the imp emotions..." (23,

(preve controllabine, seriousness)

> Team (teamwork, colleagues' reactions)

clea

уÇ

"...There are some patients who you can tell them you've made a serious complication and they'll come to clinic with a box of chocolates for you. And there's so e patients who have what I would complice d... So,

"...If you feel that you're working in an environment that is a blame environment or that people are out to get you or you feel paranoid or you feel you can't talk to your colleagues, then that is really difficult...you wouldn't be performing to your optimal anyway because you're watching your back the whole time...You might feel that you want to hide certain things or keep things to yourself..." (22, registrar)

> cation rates. re confidence, it's when you start off and you have no idea..." (16, Consultant)

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Coping

Themes

Problem-focused coping

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Emotion-focused coping

Sub-them ...It's like train drivers, somebody jumps out in front of the train, and the train driver kills them...in my logical mind that's part and parcel of the job. They've driven the train, they're always going to be driving the train down that track...it's fate that someone jumped out in front of them. And complications are a little bit like that person jumping out. You don't see it coming, you don't want it to happen. It's part of your job, you need to be able to pick yourself up and get on with it..." (23, *Registrar*)

N (%)

25 (92%)

(63%)

0%)

;%)

2%)

.8%)

(7%)

%)

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6)

%)

5%)

22%)

for it, when a court have done differently...You do that quite quickly even on the way home..." (*Registrar*, *05*)

4 (15%) Alcohol Distracting one's 4 (15%) Internalising 3 (11%) 3 (11%) Acceptance Blaming other factors 3 (11%) Self-blame 2 (7%) Carrying on 2 (7%) Becoming authoritative 2 (7%)

Support

Themes

Available support

Sub-themes

N(%)

(6%)

Inadequate support

Barriers to seeking support

Ideas for improvin



"...they [colleagues] to make sure that *q* you are dealt wit or relief off yoy gou con on so that

"...The problem with the mentoring system is that a mentor is only really there if you've kind of known each other come up through the ranks and then a mentor is a very natural mentor. And if it's not that way, then you haven't really got a mentor; you've just got somebody else that you should take that complication to and you don't know how they're going to react to it and whether or not they're actually supportive of it or ridicule you slightly for it.." (01, Consultant).

on sorting everything out from that me	11 (40%)
that you made" (2, consultant)	10 (37%)
	8 (30%)
	8 (30%)
Sociations	8 (30%)
Open forums to applications	7 (26%)
Structured debriefing sessions	5 (18%)
Peer support groups	5 (18%)
Complications-related training	4 (15%)
Resources to release surgeons from pressure	3 (12%)

Institutional culture

Themes	Sub-themes	N (%)
Institutional culture		
	Blame	8(30%)
	Lack openness	6(22%)
	Manage. • not supportive	5(18%)
	Gossip	4(15%)
	Punitive respo.	~1
Morbidity & Mortality meetings	"morbidity and mortality meet supposed to be a forum where yo have an open discussionbut act that's just nonsense, if anyone be that they're only kidding themse everybody in that room is very of and aggressively pursues an ang puts them in the best possible lig professional rivalries exist, I don them sort of cathartic forums for look that was just terrible wasn' Registrar)	wher of tings are ou can ually elieves lves, lefensive gle that ht and n't find r saying t it"(07,

Conclusions

- Range of emotions, such as guilt, anxiety and anger
 Surgeons' practice is influenced not always in the best interest of patients
- •Multiple factors affecting intensity of reactions
- (preventability, severity, coping, experience)
- •Strong blame cultures
- •Value in structures such as better mentoring, more formal teamwork structures and more open forums

Summary

• How well is the NHS managing the aftermath of patient safety incidents?

•Ideas for future improvements?

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