1	0	2	0	2	6	5	8	1	5	
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1.

Western Sussex Hospitals NHS

**NHS Trust** 

Variations in Hospital Mortality Project - Data Collection Tool
N.B. exclusions: Maternal deaths; <16; Psychiatric; Trauma
Please place a cross (X) in the box/es and write in the frames using BLACK BIRO.
Review date / / /
Reviewer ID 1
Reviewer ID 2   Time taken to evaluate (hh:mm)
Overview of admission leading to death (index admission)
Weekday of admission
☐ Mon ☐ Tues ☐ Weds ☐ Thurs ☐ Fri ☐ Sat ☐ Sun
Date of index admission / / /
Time of index admission (24 hr clock)       Time first seen by consultant (24 hr clock)         Image: I
Weekday death occured
☐ Mon ☐ Tues ☐ Weds ☐ Thurs ☐ Fri ☐ Sat ☐ Sun
Date of in-hospital death / / /
Type of admission:
Em El Other If 'Other' please state
Primary diagnosis at admission:
Previous (n) visits to A&E:

Degree of urgency of index admission (one only) C U S R					
<b>C</b> ritical (required immediate attention to stabilise airway, breathing or circulation difficulties)					
<b>U</b> rgent (severe illness that required treatment within 2 hrs- eg moderate pain, fever / infection, conscious level, bleeding)					
Semi-urgent (unwell- admitted via A&E or OPD but could wait >2 hrs to be treated without risk of deterioration)					
Routine (elective admission, or for routine investigations in hospital)					
LACE score (see notes for assessors):					
L: length of stay (days)					
A: acute admission 🗌 Yes 🛛 No					
C: comorbidity (Charlson comorbidity score)					
E: emergency visits (no visits to A & E in last 6 months)					

LACE total			
------------	--	--	--



# 2. Patient Information

Age (Years Months)					
Postcode sector (eg PO18 8)					
Smoker ☐ None					
Was this admission alcohol-related in any way?  Yes  No					
Was this admission substance-misuse related in any way? Yes No					
Lives; (please select one only)					
own home with carer					
residential home					
nursing home					
homeless					
Disabilites; (please select all that apply)					
Wheelchair user Speech					
Blind/partially sighted Learning difficulties					
Other sight difficulties					
Deaf					
Weight (kg) on admission					
Height (m) on admission or elsewhere in notes					
BMI .					
Waterlow Pressure Area Score (see notes for assessors):					
□ <10 □ 10+ □ 15+ □ 20+					
DNR (Do Not Resuscitate) order in notes 🗌 Yes 🛛 🗋 No 📄 NK					

0487265811

# 3. Comorbidities: (Charlson comorbidity scores)

Comorbidities None Unknown						
Comorbidities - Cardiovascular	Comorbidities - Endocrine					
Acute myocardial infarction (5)	Diabetes (no end organ complications) (3)					
Congestive cardiac failure (13)	Diabetes (end organ complications) (-1)					
Peripheral vascular disease (6)	Other Endocrine Total					
<ul> <li>Other Cardiovascular Total</li> <li>Comorbidities - Respiratory</li> <li>COPD (4)</li> </ul>	Comorbidities - Renal					
Asthma	Comorbidities - Infection					
Other Respiratory Total	☐ HIV (2)					
Comorbidities - GI	Other chronic (specify)					
Peptic ulcer (9)	Other Infection Total					
Liver disease (mild) (8)						
Liver disease (severe) (18)	Comorbidities - Cancer Any solid tumour in last 5 years (specify) (8)					
Other GI Total	Known metastatic cancer (14)					
Comorbidities - Psychiatric	Leukemia					
Dementia (14)						
Other Psychiatric Total						
Comorbidities - Neurological	<ul> <li>Other Cancer Total</li> <li>Comorbidities - Musculoskeletal (total score 4)</li> <li>Documented Osteoarthritis</li> <li>Documented Rheumatoid Arthritis (4)</li> <li>Other Connective Tissue Disorder (4)</li> </ul>					
Stroke (11)						
Epilepsy						
Parkinson's						
Paraplegia (non stroke) (1)	Other Connective Tissue Disorder (4)					
Other Neurological Total	Other Musculoskeletal Total					
TOTAL CHARLSON CO-MORBIDITY SC	ORE:					
In your opinion, judging by the Gold Stand was the patient likely to be in the last year	dard Framework on End of Life care (see notes), <sup>r of life?</sup>					
Page 4	Patient Unique Study Number C W -					

### 4. Adverse Event Triggers (did any of these occur during index admission?)

- Adverse event triggers
- Early warning score absent
- Early warning score ignored
- 🗌 Fall
- Bedsores or pressure ulcers (incident during admission)
- Previous admission within 30 days
- Shock or cardiac arrest
- Proven DVT or PE
- Complication of procedure or treatment (severe enough to have potentially contributed to death)
- Transfer to higher level of care
- If surgery took place:
- Return to theatre
- Change in planned procedure
- Removal / injury / repair of organ
- ☐ If admitted for higher dependency care (ESCU / HDU / ICU)
- Readmission to ESCU / HDU / ICU (delete as appropriate)
- Readmission to HDU
- Readmission to ICU
- Unplanned transfer to ESCU
- Unplanned transfer to HDU
- Unplanned transfer to ICU

Attempted resuscitation at terminal event?  Yes [	No	Not Known
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- Medication
- Vitamin K
- Naloxone
- Flumenazil
- Glucagon or 50% glucose
- Abrupt stop in medication noted

Patient Unique Study Number C W

Lab tests

🗌 INR >5

Transfusion

Abrupt drop in Hb or Hct (>25%)

Urea or creatinine risen more than twice admission or baseline levels

□ Na<120 or >160

□ K <2.5 or >6.5

Hypoglycaemia (<3 mmol/l)

Raised troponin (>1.5 ng/ml)

MRSA bacteraemia (incident during admission)

C. difficile (incident during admission)

□ Vancomycin resistant enterococcus (VRE)

UWound infection

Nosocomial pneumonia

Positive blood culture

Date of death (as confirmed in notes):
Time of death (as confirmed in notes):
Date of last recorded nursing observations:
Time of last recorded nursing observations:
Date of last recorded medical note:
Time of last recorded medical note:



#### 5. Avoidability: overview

In 48 hrs prior to death, did the patient receive:
Physio assessment or treatment 🗌 Yes 🛛 No 🗌 Not Known
SLT assessment or treatment 🗌 Yes 🛛 No 🗌 Not Known
Pharmacist assessment / review 🗌 Yes 🛛 No 🗌 Not Known
IV fluids 🗌 Yes 🛛 No 🗌 Not Known
Any change to prescribed medication
ECG 🗌 Yes 🗌 No 🗌 Not Known
Plain X ray (any) 🗌 Yes 🛛 No 🗌 Not Known
Ultrasound scan 🗌 Yes 🛛 No 🗌 Not Known
CT or MRI scan 🗌 Yes 🛛 No 🗌 Not Known
During this admission, please describe (if this information is not clear, please say so):
Clinical specialty taking lead role:

Most senior person making clinical decisions (level):

Were there any communication difficulties noted?

Any unusual factors which may have contributed to the death?

In your opinion,	was the	patient's	death	caused	by a	problem	or problems	with the
healthcare recei	ved?	]Yes	🗌 No					

### OR

Did a problem or problems in healthcare **contribute** to the patient's death? Γ

W

### If 'No' to both these questions, go to Page 22 and then no further information is needed

### 6. Contributory Factors: overview

Please note where, in care pathway, clinical deterioration (**C**), improvement (**I**) or death (**D**) took place: (tick all you think may apply)

Prior to admission:

-home (no involvement of clinical or paramedical teams) C D
-primary care (in hours) C I D
-primary care (out of hours) C I D
-emergency response team C I D
Index admission:
-care during a procedure C C I D
-post-operative care (gen ward) C I D
-post-operative care (critical care setting) C D
-discharge assessment / planning 🗌 C 🔤 I 🔄 D
In your opinion, did care received in the following categories contribute to the death :
Pre-admission 🗌 Avoidable 🛛 Unavoidable 🔄 Go to Section 6a
Assessment and initial diagnosis 🗌 Avoidable 🛛 Unavoidable 🔄 🗍 Go to Section 6b
Clinical monitoring/management/investigations
Avoidable Unavoidable Go to Section 6c
Infection screening/control 🗌 Avoidable 🛛 Unavoidable 🔄 Go to Section 6d
Operation or procedure- technical 🗌 Avoidable 🛛 Unavoidable 🔄 Go to Section 6e
Medication/hydration/nutrition/electrolytes 🗌 Avoidable 🛛 Unavoidable 🔲 Go to Section 6f
Resuscitation 🗌 Avoidable 🛛 Unavoidable 🔄 Go to Section 6g
Other 🗌 Avoidable 🛛 Unavoidable 🔄 Go to Section 6h

For each of the above, please go to the relevant section to answer further questions



### <sup>9915265816</sup> 6a. Pre-admission

- a) possible contributory issues
- i. delay in making contact with in-hours primary care services
- ii. delay in making contact with out-of-hours primary care services
- iii. delay in making contact with ambulance services
- iv. delay in ambulance services reaching patient
- v. other delay in hospital transfer
- vi delay in A & E
- vii other failure or delay (please specify)

b) Please describe relevant issue below

# c) are there national guidelines or standards related to the relevant factor or event? i. Please note these guidelines / standards

d) If yes, did non-compliance contribute to the death? 🗌 Likely	Possible	Can't tell
<ul> <li>e) Were there local guidelines related to the relevant factor or evidence i. Please note these guidelines/ standards</li> </ul>	vent?	

f) If yes,	did non-compliance contribute to the death?   Likely	Possible	☐ Can't tell
g) please ∏ Major	e note the significance of this factor or event (factor contributed significantly to the death. Different r reasonably have been expected to alter the outcome)	nanagement wo	buld
☐ Minor (factor was a relevant contributory factor. Different management might have made a difference, but survival was unlikely in any case)			t have
	ant (although lessons can be learned, it did not affect th	e outcome)	
	0 + + 0 + + + + 7 D + + + 00		

# Go to Section 7, Page 22

Patient Unique Study Number C

2889265819	6b.	Assessment and initial diagnosis
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- a) possible contributory issues
- i. failure to establish adequate two-way communications with patient
- ii delay in initial assessment or evaluation of patient
- iii initial clinician failed to obtain complete medical history
- iv.routine clinical observations not taken / not recorded
- v. routine clinical observations not acted on appropriately
- vi.other assessment issue (please specify below)
- vii.failure to recognise high-risk status at time of admission
- viii.delay in escalating to more senior clinician
- ix.failure to escalate to more senior clinician
- $\Box x$  other failure or delay (please specify)
- b) Please describe relevant issue below

c) are there national guidelines or standards related to the relevant factor or event?
 i. Please note these guidelines / standards

d) If yes, did non-compliance contribute to the death? Likely Possible

e)	Were	there local guidelines related to the relevant factor or event?
	i.	Please note these guidelines/ standards

f) If yes,	did non-compliance contribute to the death? 🗌 Likely	Possible	Can't tell
g) please ∏Major	note the significance of this factor or event (factor contributed significantly to the death. Different r reasonably have been expected to alter the outcome)	management wo	buld
Minor	(factor was a relevant contributory factor. Different ma made a difference, but survival was unlikely in any cas	<b>U</b>	t have
	ant (although lessons can be learned, it did not affect th	e outcome)	
	Go to Section 7, Page 22		

Patient Unique Study Number C W

Can't tell

### 4733265819 6c. Clinical management, monitoring, investigations

- a) possible contributory issues
- i. delay in instituting appropriate monitoring of clinical condition
- ii. failure to institute appropriate monitoring of clinical condition
- iii. delay in recognising abnormal vital signs / routine observations
- iv. failure to recognise abnormal vital signs / routine observations
- v. delay in ordering or checking investigations
- vi. delay in transfer for investigations
- vii. delay in recognising abnormalities in investigations
- viii. failure to recognise abnormalities in investigations
- ix. delay in recognising clinical deterioration
- x. failure to recognise clinical deterioration
- xi. delay in escalating to more senior clinician (following deterioration)
- xii. failure to escalate to more senior clinician (following deterioration)
- xiii. delay in response from more senior clinician
- xiv. specialist advice / referral not available
- xv. failure to recognise complications of surgery or other procedure
- xvi. other failure or delay (please specify)

b) Please describe relevant issue below

c) are there national guidelines or standards related to the relevant factor or event?
 i. Please note these guidelines / standards

d) If yes, did non-compliance contribute to the death? Likely Possible Can't tell

Patient Unique Study Number C

# e) Were there local guidelines related to the relevant factor or event?i. Please note these guidelines/ standards

f) If yes,	did non-compliance contribute to the death?  Likely	Possible	Can't tell
g) please ∏Major	e note the significance of this factor or event (factor contributed significantly to the death. Different reasonably have been expected to alter the outcome)	management w	ould
Minor	(factor was a relevant contributory factor. Different ma made a difference, but survival was unlikely in any ca	• •	it have
	ant (although lessons can be learned, it did not affect th	ne outcome)	

# Go to Section 7, Page 22

#### 1614265814 6d. Infection prevention / control / management

Site or nature of infection if believed contributory to death (please select all that apply)
internal invasive procedure
urinary tract
respiratory tract
Dlood
other (please specify)
a) possible contributory issues
i. delay in identifying potential infection as relevant to clinical condition
ii. delay in initiating appropriate infection screening investigations
iii. failure to initiate appropriate infection screening investigations
iv. failure to drain pus or other surgical management
v. inappropriate antibiotic prescribing
vi. failure to maintain proper care of canulae, catheters, drains etc
vii. failure to involve appropriately senior clinician (excl CCDC)
viii. failure to involve CCDC (if appropriate to do so)
ix. failure to initiate appropriate non-drug management (eg physiotherapy)
□ x. other failure or delay (please specify)
b) Please describe relevant issue below
c) are there national guidelines or standards related to the relevant factor or event?

i. Please note these guidelines / standards

Can't tell d) If yes, did non-compliance contribute to the death? Likely Possible

# e) Were there local guidelines related to the relevant factor or event?i. Please note these guidelines/ standards

f) If yes,	did non-compliance contribute to the death?  Likely		☐ Can't tell
g) please ∏Major	e note the significance of this factor or event (factor contributed significantly to the death. Different reasonably have been expected to alter the outcome)	management w	ould
Minor	(factor was a relevant contributory factor. Different ma made a difference, but survival was unlikely in any cas	0 0	nt have
	ant (although lessons can be learned, it did not affect th	ne outcome)	

# Go to Section 7, Page 22

#### <sup>1578265813</sup> 6e. Operation or procedure

- a) possible contributory issues
- i. inappropriate delay in undertaking procedure
- ii. inappropriate procedure in view of clinical condition
- iii. inadequate preparation / assessment / treatment prior to procedure
- iv. anaesthetic incident
- v. operative incident
- vi. inadequate monitoring during procedure
- vii. inadequate monitoring following procedure
- viii. other failure or delay (please specify)
- b) Please describe relevant issue below

c) are there national guidelines or standards related to the relevant factor or event?
 i. Please note these guidelines / standards

d) If yes, did non-compliance contribute to the death? Likely Possible Can't tell

# e) Were there local guidelines related to the relevant factor or event? i. Please note these guidelines/ standards

f) If yes, did non-compliance contribute to the death?	□ Can't tell

- g) please note the significance of this factor or event
- Major (factor contributed significantly to the death. Different management would reasonably have been expected to alter the outcome)
- Minor (factor was a relevant contributory factor. Different management might have made a difference, but survival was unlikely in any case)
- Irrelevant (although lessons can be learned, it did not affect the outcome)

# Go to Section 7, Page 22

Patient Unique Study Number C

4177265811 6f Medication / hydration / nutrition / electrolytes
<sup>4177265811</sup> 6f. Medication / hydration / nutrition / electrolytes
a) possible contributory issues
☐ i. error in prescription of drugs (please name drug)
☐ ii. error in prescription of IV fluids (please name fluid)
iii. error in prescription of blood
☐ iv. error in administering drugs
□ v. error in administering IV fluids
☐ vi. error in administering blood
vii. failure to monitor drug side effects appropriately
viii. failure to monitor fluid balance appropriately
ix. failure to monitor blood appropriately
x. failure to ensure appropriate nutrition
🗌 xi. delay in involving appropriately senior clinician

xii. failure to involve appropriately senior clinician

xiii. other failure or delay (please specify)

b) Please describe relevant issue below

# c) are there national guidelines or standards related to the relevant factor or event? i. Please note these guidelines / standards

d) If yes, did non-compliance contribute to the death? Likely Possible

Can't tell

W

e) Were there local guidelines related to the relevant factor or event?i. Please note these guidelines/ standards

f) If yes, did non-compliance contribute to the death? 🗌 Likely	Possible	🗌 Can't tell

- g) please note the significance of this factor or event
- Major (factor contributed significantly to the death. Different management would reasonably have been expected to alter the outcome)

Minor (factor was a relevant contributory factor. Different management might have made a difference, but survival was unlikely in any case)

☐ Irrelevant (although lessons can be learned, it did not affect the outcome)

# Go to Section 7, Page 22

What condition led to the resuscitation attempt? Please give clinical detail where possible

- Cardiac arrest
- Respiratory failure / arrest
- 🗌 Coma
- ☐ Fits
- Bleeding
- Multiple trauma
- Metabolic disorder
- Sepsis
- Other (please specify)

a) possible contributory issues

- i.inappropriate level of seniority of person in charge of resuscitation attempt
- ii. delay in resuscitation call being made
- iii. failure to make resuscitation call
- iv. lack of availability of staff
- v. staff not apparently competent / adequately trained
- vi. lack of suitable equipment
- vii. failure of suitable equipment
- viii. poorly managed resuscitation attempt
- ix. delay in involving appropriately senior clinician
- x. failure to involve appropriately senior clinician
- xi. other failure or delay (please specify)

b) Please describe relevant issue below

Patient Unique Study Number C W

# c) are there national guidelines or standards related to the relevant factor or event? i. Please note these guidelines / standards

d) If yes,	did non-compliance contribute to the death? 🗌 Likely	Possible	Can't tell
e) Were i.	here local guidelines related to the relevant factor or ev Please note these guidelines/ standards	ent?	
f) If yes,	did non-compliance contribute to the death? 🗌 Likely	Possible	Can't tell
g) please note the significance of this factor or event ☐ Major (factor contributed significantly to the death. Different management would reasonably have been expected to alter the outcome)			
Minor	(factor was a relevant contributory factor. Different mai made a difference, but survival was unlikely in any cas	• •	t have
🗌 Irreleva	ant (although lessons can be learned, it did not affect the	e outcome)	

# Go to Section 7, Page 22

Patient Unique Study Number C W

#### 9070265818 6h. Other factors

- a) possible contributory issues
- i. staff apparently working outside expertise
- ii. lack of knowledge / understanding- clinical staff
- iii. lack of knowledge / understanding- patient and family / carers
- iv. lack of skill- clinical staff
- v. staffing pressures- nursing
- vi. staffing pressures- clinical
- vii. staffing pressures- other multidisciplinary team
- viii. poor teamwork
- ix.poor communication within clinical team
- x. poor clinical handover- nursing
- xi. poor written communication (notes poor quality)
- xii. lack / failings of equipment
- xiii. lack/failings of key hospital support services
- xiv. bed shortages
- xv. poor co-ordination
- xvi. inadequate senior leadership
- b) Please describe relevant issue below

c) are there national guidelines or standards related to the relevant factor or event?
 i. Please note these guidelines / standards

d) If yes, did non-compliance contribute to the death? Likely Possible Can't tell

Patient Unique Study Number C

# e) Were there local guidelines related to the relevant factor or event?

	<b>—</b> —	
f) If yes, did non-compliance contribute to the death? 🗌 Likely	Possible	🗌 Can't tell
<ul><li>g) please note the significance of this factor or event</li></ul>		
Major (factor contributed significantly to the death. Different	management w	ould

- reasonably have been expected to alter the outcome)
- Minor (factor was a relevant contributory factor. Different management might have made a difference, but survival was unlikely in any case)

Irrelevant (although lessons can be learned, it did not affect the outcome)

# Go to Section 7, Page 22



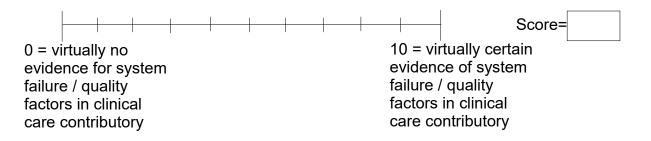
### 7a. Overall assessment of care

After careful consideration of the clinical details of the patient's management, **irrespective of clinical preventability**, how far do you think that clinical quality factors (in particular the Patient Safety domain) have contributed to this death?

Please place a cross on the Likert scale below, where

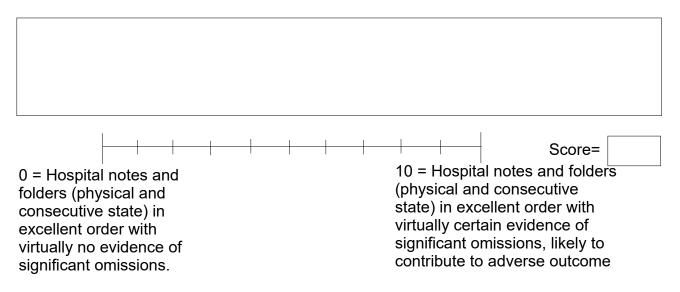
0=virtually no evidence for system failure / quality factors in clinical care contributory

10=virtually certain evidence of system failure / quality factors in clinical care contributory



#### 7b. Documentation standard

Please enlarge on Section 6haii (notes) as to the notes and folders physical and /or consecutive state using the Likert scale below and listing any comments here.



Patient Unique Study Number C

### 8. Please summarise key learning points from this case:

The following categories are intended as a guide, but please do not necessarily be restricted by them.

- a. Referral pathway
- b. Equipment
- $\Box$  c. Clinical escalation
- d. Clinical leadership (once escalated)
- e. Consultant opinion /time taken to see
- f. Communication
- fi. Patient/relatives-clinical staff
- ii. Clinical staff-clinical staff
- iii. Multidisciplinary team
- iv. Clinical handover
- 🗌 g. Diagnosis
- h. Diagnostic services
- i. Protocols
- j. Availability of suitable range of multidisciplinary skills
- k. Staffing
- i. Suitable qualifications
- ii. Training
- iii. Supervision
- I. planning