Table 1: Red Flags

1.	Moves from one hospital to another
2.	Secretive/difficult personal relationships
3.	History of mental instability/depression
4.	Predicts when someone will die
5.	Makes odd comments/claims to be "jinxed"
6.	Likes to talk about death/odd behaviours when someone dies
7.	Higher incidences of death on his/her shift
8.	Seems inordinately enthused about his/her skills
9.	Makes inconsistent statements when challenged about deaths
10.	Prefers nightshifts – fewer colleagues about
11.	Associated with incidents at other hospitals
12.	Been involved with other criminal activities
13.	Makes colleagues anxious/suspicious
14.	Craves attention
15.	Tries to prevent others checking on his/her patients
16.	Hangs around during investigations of deaths
17.	In possession of drugs etc. at home/in locker
18.	Lied about personal information
19.	In possession of books about poison/serial murder
20.	Has had disciplinary problems
21.	Appears to have a personality disorder
22.	Has a substance abuse problem

Table 2: Healthcare Serial Killers

Name	Gender	Age at conviction	Year of last known murder	Country	Victim Gender	Victim Type(s)	No. of convictions for murder	Hospital Department
Aino Nykopp-Koski	Female	60	2009	Finland	NOT KNOWN	Elderly	5	NOT KNOWN
Kimberly Saenz	Female	39	2008	USA	Male & Female	Elderly	5	Dialysis Unit
Irene Becker	Female	55	2006	Germany	Male & Female	Elderly	5	Cardiology Ward
Petr Zalenka	Male	31	2006	Czech Republic	Male & Female	Multiple	7	Anaesthesiology/Resuscitation ward
Stephan Letter	Male	28	2004	Germany	Male & Female	Multiple	12	Internal Diseases Ward
Benjamin Geen	Male	25	2004	England	Male	Elderly	2	Accident and Emergency
Sonia Caleffi	Female	35	2004	Italy	Male & Female	Elderly	5	Intensive Care Unit
Charles Cullen	Male	46	2003	USA	Male & Female	Multiple	29	Multiple - Coronary Care Unit, Intensive Care Unit
Colin Norris	Male	32	2002	England	Female	Elderly	4	Orthopaedic Wards
Vickie Dawn Jackson	Female	40	2001	USA	Male & Female	Elderly	10	N/A - Small hospital
Christine Malevre	Female	33	1998	France	Male & Female	Multiple	6	Palliative Care Unit
Kristen Gilbert	Female	33	1996	USA	Male	Multiple	4	Intensive Care Unit
Orville Lynn Majors	Male	38	1995	USA	Male & Female	Elderly	6	Intensive Care Unit
Beverley Allitt	Female	24	1991	England	Male & Female	Children	4	Children's Ward
Robert Rubane Diaz	Male	46	1981	USA	Male & Female	Elderly	12	Intensive Care Unit
Cecile Bombeek	Female	44	1977	Belgium	NOT KNOWN	Elderly	3	Geriatric Ward

Table 3: Country in which HSKs committed murders

Gender	N	%
USA	6	
England	3	
Germany	2	
Belgium	1	
Czech Republic	1	
Finland	1	
France	1	
Italy	1	
Total	16	100

Table 4: Gender of HSKs

Gender	N	%
Male	7	43.8
Female	9	56.3
Total	16	100

Table 5: Ages of HSKs when convicted

Age Group	N	%
21-30	3	18.8
31-40	8	50.0
41-50	3	18.8
51-60	2	12.5
Total	16	100

Table 6: Number of convictions for murder

Number of convictions for murder	N	%

	N	%
2-4	5	31.3
5-9	7	43.8
10-14	3	18.8
15+	1	6.3
Total	16	100

Table 7: Length of murder activity

Length of murder activity in months	N	%
Less than 3	7	43.8
3-5	1	6.3
6-11	2	12.5
12-17	3	18.8
18-23	1	6.3
24-29	2	12.5
Total	16	100

Table 8: Location of HSKs

Location	N	%
Single Location	12	75.0
Multiple Locations	4	25.0
Total	16	100

Table 9: Victim Gender

Victim Gender	N	%
Male victims	2	12.5
Female victims	1	6.3
Both male and female victims	11	68.8
Total	14	100

Note: Victim gender profile not available for Aino Nykopp-Koski and Cecile Bombeek, therefore total is 14 as opposed to 16 for this variable.

Table 10: Victim Type

Victim Type	N	%
Children	1	6.7
Elderly people	5	33.3
Adults and Elderly People	8	53.3
Young people, adults and elderly	1	6.7
Total	15	100

Note: Victim type not available for Petr Zalenka, therefore total is 15 as opposed to 16 for this variable.

Table 11: Single or multiple methods

Single Method or Multiple Method	N	%
Single method	13	81.3
Multiple methods	3	18.8
Total	16	100

Table 12: Combination of methods

Methods	N	%
Poisoning only	14	87.5
Poisoning and another method	1	6.3
Other method only	1	6.3
Total	16	100

Table 13: Substances used in poisoning

Substance	N	%
Insulin	4	19.0
Muscle relaxant	3	14.3
Sedative	2	9.5
Opiate	2	9.5
Epinephrine	2	9.5

		N	%
Potassium		2	9.5
Anaesthetic		2	9.5
Blood pressure medication		1	4.8
Bleach		1	4.8
Digoxin		1	4.8
Heparin		1	4.8

Note: n ≠ 16, % ≠100 as in some cases, more than one type of substance was used

Table 14: HSK and Red Flag Score

HSK	Total Score
Charles Cullen	11
Kimberley Saenz	9
Kristen Gilbert	8
Robert Rubane Diaz	8
Sonia Caleffi	8
Beverley Allitt	7
Cecile Bombeek	7
Vickie Dawn Jackson	7
Aino Nykopp-Koski	6
Orville Lynn Majors	6
Benjamin Geen	5
Petr Zalenka	5
Christine Malevre	4
Irene Becker	4
Stephan Letter	4
Colin Norris	2

Table 15: Prevalence of items on 'Red Flag' checklist

Item	N	% of cases in which this item was present

1.	Moves from one hospital to another	6	37.5
2.	Secretive/difficult personal relationships	7	43.4
3.	History of mental instability/depression	10	62.5
4.	Predicts when someone will die	4	25.0
5.	Makes odd comments/claims to be "jinxed"	3	18.8
6.	Likes to talk about death/odd behaviours when someone dies	1	6.3
7.	Higher incidences of death on his/her shift	15	93.8
8.	Seems inordinately enthused about his/her skills	6	37.5
9.	Makes inconsistent statements when challenged about deaths	3	18.8
10.	Prefers nightshifts – fewer colleagues about	6	37.5
11.	Associated with incidents at other hospitals	6	37.5
12.	Been involved with other criminal activities	7	43.4
13.	Makes colleagues anxious/suspicious	9	56.3
14.	Craves attention	7	43.4
15.	Tries to prevent others checking on his/her patients	0	-
16.	Hangs around during investigations of deaths	0	-
17.	In possession of drugs at home/in locker	8	
18.	Lied about personal information	0	-
19.	In possession of books about poison/serial murder	1	
20.	Has had disciplinary problems	4	
21.	Appears to have a personality disorder	8	
22.	Has a substance abuse problem	3	

Note: % ≠100 as all cases had at least one checklist item

Table 16: Scores on 'Red Flag' checklist

Grouped score	N	%
1-4	4	25.0

5-9	11	68.8
10-14	1	6.3
15-19	0	0
20-22	0	0
Total	16	100