

Living with the Risk of Sudden Death: Psychology of Mortality

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With colleagues and patients we can talk about:

Risk stratification for sudden death

The use of ECMO

Indications for ICD implantation

How do we answer when a patient asks:

"How long do I have to live?"

"How am I supposed to manage this anxiety knowing I could drop dead at any minute?"



"I survived sudden cardiac arrest. What do I do now?"

A few studies...



Living With Prophylactic ICD Therapy and the Risk of Sudden Cardiac Death: How Patients Negotiate Solutions and Problems

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- Ethnographic study conducted in Danish hospitals
- At the time of ICD implantation, patients were grateful when offered an ICD to reduce the risk of SCD
- The following concerns emerged several months later: anxiety about ICD technology and the risk of death



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"Clinicians create a narrative containing a problem of a significant risk of SCD and a solution in the form of a benign therapy that provides the good life."

"ICD technology is not neutral but shapes patient life-worlds in unexpected and undesirable ways."

"[Patients] experience the ICD both as an assurance of immortality and a reminder of their mortality, a harbinger of death."



What about patients who are at risk of SCD but do not receive an ICD?

Coping with the increased risk of SCD (associated with LQTS)

Qualitative interviews with 7 patients with LQTS (23-76 yrs); 4 had ICDs

- ICD = safety measure + new source of anxiety
- Most participants reported that they were not afraid of their own deaths
- Most patients reported limitations in daily lives and dissatisfaction with health care providers



Heart-focused anxiety in patients living with the risk of serious arrhythmias & sudden cardiac death

- 126 patients (mean = 45 years) at risk for SCD due to personal/family history (Long QT/HCM)
- Completed: Hospital
 Anxiety & Depression
 Scale, SF-36, Cardiac
 Anxiety Questionnaire
 (avoidance, attention, fear)

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Cardiac anxiety post sudden cardiac arrest

188 survivors of sudden cardiac arrest (55 ± 12 yrs) completed the Cardiac Anxiety Questionnaire

Survivors showed high levels of fear, avoidance & focus on cardiac symptoms

	β (SE)	Standardized β	p
Demographic variables			
Age	-0.01(0.01)	-0.20	0.02^{*}
Female	0.21 (0.12)	0.15	0.08
Cardiac history			
History of heart disease	-0.13(0.13)	-0.08	0.31
Heart murmur	0.30 (0.12)	0.20	0.02^{*}
ICD	0.08 (0.14)	0.05	0.55
ICD shock ≥ 1	0.28 (0.11)	0.21	0.01^{*}
Psychosocial adjustment			
Depression	0.22 (0.12)	0.17	0.06
Generalized anxiety	0.35 (0.13)	0.25	0.008^{*}



Facilitators and barriers to end-of-life discussions in adult congenital heart disease

200 patients recruited from outpatient clinic (35 \pm 15 years; 58% female; 81% with CHD of moderate/great complexity)

Table 2. Patient-Reported Facilitators to End-of-Life Discussions

	Applies	Does not Apply	Do not Know/ No Answer
I trust my doctor	85% (170)	6% (11)	10% (19)
My doctor is very good at taking care of congenital heart disease	78% (156)	6% (12)	16% (32)
I feel sure that my doctor will be there for me if I get very sick	69% (137)	9% (17)	23% (46)
My doctor cares about me as a person	68% (135)	8% (15)	25% (50)
I worry about the quality of life in the future	68% (135)	23% (45)	10% (20)
I have had family or friends who have died	63% (126)	26% (52)	11% (22)
I worry that I could be a burden on my friends and family if I got very sick	58% (115)	28% (55)	15% (30)
My doctor is very good at talking about end-of-life care	16% (32)	27% (54)	57% (114)
My doctor often asks me about end-of-life care.	8% (15)	64% (127)	29% (58)

Data are presented as % (number), n = 200 Questions modified, with permission, from Knauft et al. 10



Facilitators and barriers to end-of-life discussions in adult congenital heart disease

Table 4. F	Patient-reported	Barriers to	End-of-life	Discussions
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	Applies	Does not Apply	Do not Know/ No Answer
I would rather concentrate on staying alive than talk about death	66% (132)	25% (50)	9% (18)
I do not know what kind of care I want if I get very sick	55% (109)	30% (60)	16% (31)
I am not sure which doctor will be taking care of me if I get very sick	49% (97)	36% (71)	16% (32)
I have not been very sick	47% (93)	41% (82)	13% (25)
My ideas about the kind of medical care I want change at different times	42% (84)	38% (75)	21% (41)
I do not like to talk about getting very sick	41% (81)	49% (98)	11% (21)
I am not ready to talk about the care I want if I get very sick.	24% (48)	60% (119)	17% (33)
My doctor never seems to have the time to talk about issues like end-of-life care.	22% (43)	52% (103)	27% (54)
I do not want to make plans for the future	20% (40)	64% (127)	17% (33)
I feel that talking about death can bring death closer	16% (31)	71% (141)	14% (28)
I have a living will, and that means I do not need to talk with my doctor about the care I want if I am too sick to speak for myself	13% (25)	69% (138)	19% (37)
My doctor does not like to talk about me getting very sick	11% (22)	60% (120)	29% (58)
I worry that talking about getting sick is too depressing for my doctor	6% (11)	69% (138)	26% (51)



Data are presented as % (number), n = 200. Questions modified, with permission, from Knauft et al. ¹⁰

Clinical experiences: What I've heard when I talk to patients about death and dying...



"I'm terrified of dying. I'm scared of missing all of the things I love in life."

"I'm not afraid of dying. But I'm worried about how my family will cope when I'm gone."



"I've grateful that I've lived much longer than anyone thought I would. I accept that I won't live as long as other people."

"As a kid, I always beat the odds. I thought I was in the clear. Nobody ever told me I would die young. I'm stunned."



"I actually like the idea of a sudden, quick death. I don't want a long drawn-out experience for me and my family."

> "I hate the idea of not knowing when it might happen and not being able to say proper good-byes."



"I just know there is something waiting for me on the other side."

"I think that when I die, I die, and that's it."





Because I don't have a crystal ball, I now ask...



Physical pain

Missing out on the rest of my life

Letting my family down

"When you think about death and dying, what are you most concerned about?"

Being alone at the time of death

The unknown

Not knowing when & where it will happen



A good answer to: "How long do I have to live?"

"The patient asked how long they would live.
I answered as **honestly** as I could.

I explained that adults with CHD, in general, have reduced life expectancy. I also explained that it is **difficult to accurately predict** the patient's future outcomes and survival.

I explained that the patient is **at risk** of heart failure and sudden cardiac death. But their clinical trajectory is unknown and may be over many years.

I let them know that I would be pleased to **continue discussing these issues** and also encouraged them to continue leading a **full and active life**."

Take-Home Messages: The Psychology of Mortality

- Being informed of the elevated risk of sudden death carries psychological implications.
- An ICD might alleviate some worries and lead to others.
- A strong patient-provider relationship fosters end-of-life discussions.
- Wanting to concentrate on staying alive and wanting to talk about end-of-life care are not mutually exclusive.
- The only way to know an individual patient's concerns regarding death and dying is to ask.



These discussions take time.