





dense Universitetshospital Svendbora Svaehus

# Hjertepatienter med ondt i livet: **Behandling og udfordringer**

# Susanne S. Pedersen Professor Kardiovaskulær Psykologi, PhD, Cand.Psych.

Institut for Psykologi, Syddansk Universitet, Odense Hjertemedicinsk Afdeling B, Odense Universitetshospital



# Projected top 10 diseases with the largest disease burden worldwide in 2020

	Disease	DALYs	%
1	Ischemic heart disease	82.3	5.9
2	Depression	78.7	5.7
3	Road traffic collisions	71.2	5.1
4	Cerebrovascular disease	61.4	4.4
5	Chronic obstructive pulmonary disease	57.6	4.2
6	Lower respiratory tract infections		
7	Tuberculosis	21,000 new case ischemic heart dis	es with ease per
8	War	year in Denm	ark
9	Diarrhea		
10	ΗΙν	36.3	2.6



# Implantable cardioverter defibrillator: ICD shock from the patient perspective



- It is physically painful (6 on 0-10 point pain scale)
- "It's like getting kicked in the chest by a big horse!"

#### Up to 840 volts – compare that to 220 volts....

Ahmad et al. Pacing Clin Electrophysiol 2000;23:931-3



# OUTLINE



- Prevalence of depression
- Impact of depression
- Barriers for implementation of heart-mind interventions in clinical practice
  - $\circ$  Level of evidence
  - $\circ$  Society
  - Health-care system
  - $\circ$  Patients
- How do we advance the field and quality of care?



Prevalence of depression in patients with heart disease



Major depression: 16% to 23%

### **Depressive symptoms**: 22% to 40%



Subset of patients: 1 in 5 (20%)

Pogosova et al. Eur J Preventive Cardiol 2017;24:1371-80 Magyar-Russel et al. J Psychosom Res 2011;71:223-31



# Depression and death/MI: <u>PCI patients</u> Even minimal symptoms predict prognosis...

*PHQ-2\* cut-off* ≥2 (*range 0-6*)



- 1. Little interest or pleasure in doing things
- 2. Feeling down, depressed, or hopeless

#### Pedersen et al. J Gen Intern Med 2009;24:1037-1042



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# Depression and mortality: ICD patients





Figure 2. Cumulative survival curve for all-cause mortality.

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(N = 430)

Mastenbroek, Pedersen et al. Psychosom Med 2014;76:58-65

### Depression and all-cause mortality: Peripheral arterial disease



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## **Depression and mortality:** <u>Chronic heart failure</u>

Fig. 2. (A) All-cause mortality by 2-item Patient Health Questionnaire (PHQ-2) status. At 12 months follow-up, 20% of PHQ-2positive and 8% of PHQ-2-negative patients died (P = .007). (B) Cardiovascular mortality by PHQ-2 status. At 12 months follow-up, 14% of PHQ-2-positive and 6% of PHQ-2-negative patients died (P = .05).





Rollman et al. J Cardiac Fail 2012;18:238-45

# Increase in depressive symptoms\* post MI is a risk factor for new events

\* Composite International Diagnostic Interview (CIDI)



# Cardiac rehabilitation reduces symptoms of anxiety and depression



Figure 1. Changes in the CR and comparison groups in relationship to the percentage of participants classified as clinically depressed or clinically anxious at each time point. CR = cardiac rehabilitation.

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# But there is a paradox...

... non-completers and early dropouts have more distress and poorer quality of life

Table 2 • BASELINE PSYCHOLOGICAL AND PHYSICAL SCORES [MEAN (SD)]							
	Completers $(n = 190)$	All noncompleters $(n = 190)$	Early dropouts $(n = 68)$				
Beck Depression	8.6 (7.5)	11.7 (8.9)	12.8 (9.3)				
Beck Anxiety	7.9 (7.6)	9.4 (9.6)	11.6 (9.9)				
SF-36v2 PCS	39.2 (8.5)	35.7 (9.1)	35.4 (9.1)				
SF-36v2 MCS	47.6 (11.5)	43.4 (12.9)	40.9 (11.8)				
Walk test (ft)	3021.3 (724.1)	2921.1 (847.1) ( <i>n</i> = 122)	NA				
Completers & all nonco	mpleters	Completers & e	arly dropout noncompleters				
MANOVA $F_{4,336} = 6.$	3; P = .0001	MANOVA $F_{4,228} = 4.9; P = .001$					
Significant difference be	etween groups	Significant diffe	rence between groups				
BDI-II: F = 13.6; P =	.001	BDI-II: $F = 11.1$ ; $P = .001$					
SF-36v2 PCS: F = 13	.5; $P = .001$	BAI: $F = 8.0; P = .005$					
SF-36v2 MCS: F = 10	0.1; P = .002	SF-36v2 PCS: $F = 8.0$ ; $P = .005$					
		SF-36v2 MCS: $F = 13.5$ ; $P = .0001$					

Abbreviations: BAI, Beck Anxiety Inventory; BDI-II, Beck Depression Inventory–II; SF-36v2 MCS, SF-36 version 2 Mental Component Summary; SF-36v2 PCS, SF-36 version 2 Physical Component Summary.

# Sufficient evidence that depression / psychosocial factors kill patients prematurely...



- Highly prevalent in cardiac patients
- Linked to behavioural and cardiovascular risk factors
- May trigger acute events
- Incur an increased risk of mortality and morbidity that is independent of traditional biomedical risk factors
- The associated prognostic risk is at least of an equal magnitude to that of traditional biomedical risk factors
- Impact adversely on quality of life
- Moderate the effects of medical interventions
- Impede the adoption of lifestyle changes
- There is a poor match between physician-evaluated and patient-rated psychological states and health status

Pedersen, Smolderen, Kupper, Doyle, Burg, Albus, Denollet & von Känel. Psychological factors and heart disease. In J Camm, TF Lüscher, G Maurer & P Serruys (eds): ESC TEXTBOOK OF CARDIOVASCULAR MEDICINE (Chapter 35), 3<sup>nd</sup> edition. Oxford University Press, In Press



# Biological and behavioral pathways linking psychosocial factors to CVD prognosis



 Both types of mechanisms also contribute to the manifestation of traditional CVD risk factors

 Studies show 'so-called' independent associations, but there are intricate interactions across mechanisms and pathways

Pedersen, von Känel et al. Eur J Prev Cardiol 2017;24:108-15

# **Psychosocial factors in perspective...**

 TABLE 4
 Risk Factors for CHD-Related Outcomes Associated With Clinical Parameters,

 Behavioral Risk Factors in Large Studies, or Meta-Analyses

				Adjusted Risk
Parameters	(Ref. #)	n	Endpoint	(95% CI)*
Conventional CHD risk fac	tors			
Smoking	Jha (45)	88,496 men†	ACM	2.80 (2.40-3.10)
Passive smoking	He (46)	637,814	CVD/MI	1.25 (1.17-1.32)
Elevated	Emerging	302,430	CVD	1.50 (1.39-1.61)
Non-HDL-C	RFC (47)			
Diabetes mellitus	Emerging	820,900	Vascular deaths	2.32 (2.11-2.56)
Low fitness	Kodama (49)	102,980	CHD/CVD	1.56 (1.39-1.79)
BMI 30-34.9 kg/m <sup>2</sup>	Berrington de Gonzalez (50)	1,460,000	ACM	1.44 (1.38-1.50)
Psychosocial CHD risk fact	tors			
Insomnia	Sofi (3)	122,501	CHD/CVD	1.45 (1.29-1.62)
Short sleep	Cappuccio (4)	474,684	CHD/CVD	1.48 (1.22-1.80)
Depression	Nicholson (6)	146,538	CVD/MI	1.90 (1.49-2.52)
Anxiety	Roest (7)	67,187	CVD	1.48 (1.14-1.92)
Psychological distress (GHQ >6)	Russ (51)	68,222	CVD	1.72 (1.44-2.06)
Anger	Chida (21)	67,187	CHD/CVD	1.19 (1.05-1.35)
Positive social integration	Holt-Lunstad (28)	309,849	ACM	1.91 (1.63-2.23)‡

"Risk estimates are varied, ranging from temporally adjusted hazard ratios to specific odds and/or relative risks at a particular point in time. †Adjusted risk in 113,752 women was 3.0 (95% CI: 2.7 to 3.3). #Improvement in odds of survival with social integration.

BMI – body mass index; CHD – incidence of coronary heart disease; CI – confidence interval; CVD – cardiovascular death; GHQ – General Health Questionnaire; HDL-C – high-density lipoprotein cholesterol; RFC – Risk Factor Collaboration. SDU

Rozanski. J Am Coll Cardiol. 2014;64

# THE BAD NEWS...

"Epidemiological studies over the last decade demonstrate generally <u>strong dose-response</u> <u>relationships</u> between an expanding number of <u>psychosocial risk factors and CHD</u>.... To date, however, there has been <u>relatively little translation of</u> <u>these findings into cardiac practice</u>."

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#### European Guidelines on cardiovascular disease prevention in clinical practice (version 2012)

The Fifth Joint Task Force of the Europea and Other Societies on Cardiovascular Dise Practice (constituted by representatives of and by invited experts)		Class II	ass II Conflicting evidence and/or a divergence of opinion about the usefulness/efficacy of the given treatment or procedure.				
			Class Ila	Weight of evidence/opinion i favour of usefulness/efficacy.	is in	Should be cons	idered
3.4 Psych	osocial r	isk factors	F	ecommendation regard	ling <del>psyc</del> h	osocial facto	rs
Key messag • Low socic work and type D pe CVD and CVD. • These factor to improve	Level of evider	nce Data derived from multi clinical trials or meta-an Data derived from a sing clinical trial or large non studies.	iple randomized alyses. gle randomized -randomized	Recommendations Psychosocial risk factors should be assessed by clinical interview or standardized questionnaires. Tailored clinical management should be considered in order to enhance quality of life and CHD prognosis.	Class <sup>a</sup> Le	vel <sup>b</sup> GRADE B Strong	<b>Ref<sup>c</sup></b> 84–86
being in pa logical me involved in	Level of evidence C C C C Consensus of opinion or small studies, retro registries.	Consensus of opinion of or small studies, retrosp registries.	the experts and/ ective studies,	ID = coronary heart disease. ass of recommendation. evel of evidence. eferences.			
						SDI	Já



European Heart Journal (2016) **37**, 2315–2381 doi:10.1093/eurheartj/ehw106

# 2016 European Guidelines on cardiovascular disease prevention in clinical practice

The Sixth Joint Task Force of the European Society of Cardiology and Other Societies on Cardiovascular Disease Prevention in Clinical Practice (constituted by representatives of 10 societies and by invited experts)

ctors			
Recommendation	Class <sup>a</sup>	Level <sup>b</sup>	Ref
Psychosocial risk factor assessment, using clinical interview or standardized questionnaires, should be considered to identify possible barriers to lifestyle change or adherence to medication in individuals at high CVD risk or with established CVD.	lla	B	90–92

Recommendation for assessment of psychosocial risk

\*Class of recommendation.

<sup>b</sup>Level of evidence.

<sup>c</sup>Reference(s) supporting recommendations.



# **Barriers for implementation**

- 1. Level of evidence
- 2. Society
- 3. Health-care system
- 4. Patients





# 1. Barriers: Level of evidence



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# Major depression intervention trials in CAD

Trial name	Sample	Risk factor	Treat. 6-1	4 years ago…
SADHART (2003)	369 MI/UAP	Depression	Sertraline vs. placebo	LVEF (safety)
ENRICHD (2003)	2481 MI	Depression/ poor support	CBT (+SSRI) vs. UC	Recurrent MI/death (all-cause)
EXIT (2005)	710 PCI	Exhaustion	BI vs. UC	Exhaustion/MACE
CREATE (2007)	284 CAD	Depression	Citalopram vs. IPT vs. UC	Depression (HAM-D/BDI)
MIND-IT (2007)	91 MI	Depression	Mirtazapine vs. placebo	MACE (safety)
Bypassing the Blues (2009)	302 CABG	Depression	Phone-delivered nursing intervention	QoL (SF-36) on

BI = behavioral intervention; IPT = interpersonal psychotherapy; UC = usual care

# **Recent Cochrane review...**

Comparison 1. Psychologica other rehabilitation)	l intervei	ntion (alone o	er with "however, the G assessments sug considerable unce	RADE ggest rtainty
Outcome or subgroup title	No. of studies	No. of participants	surrounding these including who would b the specific compor	effects, penefit and nents of ptions "
1 Total mortality	23	7776	Risk Ratio (M-H, 1	10/13.
2 Cardiac mortality	11	4792	Risk Ratio (M-H, Ra 75% CI)	0.79 [0.63, 0.98]
3 Revascularisation (coronary artery bypass graft surgery and percutaneous coronary intervention combined)	13	6822	Risk Ratio (M-H, Random, 95% CI)	0.94 [0.81, 1.11]
4 Non-fatal myocardial infarction	13	7845	Risk Ratio (M-H, Random, 95% CI)	0.82 [0.64, 1.05]
5 Depression	19	5825	Std. Mean Difference (IV, Random, 95% CI)	-0.27 [-0.39, -0.15]
6 Anxiety	12	3161	Std. Mean Difference (IV, Random, 95% CI)	-0.24 [-0.38, -0.09]
7 Stress	8	1251	Std. Mean Difference (IV, Random, 95% CI)	-0.56 [-0.88, -0.24]

Richards et al. Cochrane Database Syst Rev 2017 Apr 28;4:CD002902. doi: 10.1002/14651858.CD002902.pub4.

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## Some evidence that psychosocial interventions work...





But it depends on which outcome we consider sufficient and relevant:

- Depression / Anxiety
- Quality of life
- Rehospitalization
- Mortality





#### Depression Screening and Patient Outcomes in Cardiovascular Care

A Systematic Review

Brett D. Thombs, PhD	<b>Context</b> Several practice guidelines recommend that depression be evaluated and
Peter de Jonge, PhD	treated in patients with cardiovascular disease, but the potential benefits of this are
James C. Coyne, PhD	unclear.
Mary A. Whooley, MD	<b>Objective</b> To evaluate the potential benefits of depression screening in patients with
Nancy Frasure-Smith, PhD	ments; (2) the effect of depression treatment on depression and cardiac outcomes;
Alex J. Mitchell, MSc, MRCPsych	and (3) the effect of screening on depression and cardiac outcomes in patients in car-
Marij Zuidersma, MSc	diovascular care settings.
Chete Eze-Nliam, MD, MPH	<ul> <li>Data Sources (MEDLINE, PsycINEO, CINAHL, EMBASE, ISI, SCOPUS, and Coch- rane databases from inception to May 1, 2008; manual journal searches; reference list</li> </ul>
Bruno B. Lima	reviews; and citation tracking of included articles.
Cheri G. Smith, MLS	<b>Study Selection</b> We included articles in any language about patients in cardiovas-
Karl Soderlund, BS	<ul> <li>cular care settings that (1) compared a screening instrument to a valid major depres- sive disorder criterion standard; (2) compared depression treatment with placebo or</li> </ul>
Roy C. Ziegelstein, MD	usual care in a randomized controlled trial; or (3) assessed the effect of screening on
	depression identification and treatment rates. depression or cardiac outcomes

"No clinical trials have assessed whether screening for depression improves depressive symptoms or cardiac outcomes in patients with cardiovascular disease."

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#### **AHA Science Advisory**

#### **Depression and Coronary Heart Disease**

Recommendations for Screening, Referral, and Treatment A Science Advisory From the American Heart Association Prevention Committee of the Council on Cardiovascular Nursing, Council on Clinical Cardiology, Council on Epidemiology and Prevention, and Interdisciplinary Council on Quality of Care and Outcomes Research

**Endorsed by the American Psychiatric Association** Judith H. Lichtman, PhD, MPH, Co Chair, J. Thomas Bigger, Jr, MD;

James A. Blumenthal, PhD, ABPP; Nancy Frasure-Smith, PhD; Peter G. Kaufmann, PhD; François Lespérance, MD; Daniel B. Mark, MD, MPH; David S. Sheps, MD, MSPH; C. Barr Taylor, MD; Erika Sivarajan Froelicher, RN, MA, MPH, PhD, Co-Chair

<u>Routine screening</u> for <u>depression</u> in patients with <u>CHD</u> in various settings, including the hospital, physician's office, clinic, and cardiac rehabilitation center. The <u>opportunity to</u> <u>screen for</u> and <u>treat depression</u> in cardiac patients should <u>not be missed</u>, as effective <u>depression treatment</u> may <u>improve health outcomes</u>.



Lichtman et al. Circulation 2008;118;1768-75

#### **AHA Scientific Statement**

#### Depression as a Risk Factor for Poor Prognosis Among Patients With Acute Coronary Syndrome: Systematic Review and Recommendations A Scientific Statement From the American Heart Association

- Background—Although prospective studies, systematic reviews, and meta-analyses have documented an association between depression and increased morbidity and mortality in a variety of cardiac populations, depression has not yet achieved formal recognition as a risk factor for poor prognosis in patients with acute coronary syndrome by the American Heart Association and other health organizations. The purpose of this scientific statement is to review available evidence and recommend whether depression should be elevated to the status of a risk factor for patients with acute coronary syndrome.
   Methods and Results—Writing group members were approved by the American Heart Association's Scientific Statement and Manuscript Oversight Committees. A systematic literature review on depression and adverse medical outcomes after acute coronary syndrome was conducted that included all-cause mortality, cardiac mortality, and composite outcomes for mortality and nonfatal events. The review assessed the strength, consistency, independence, and generalizability of
- the published studies. A total of 53 individual studies (32 reported on associations with all-cause mortality, 12 on cardiac mortality, and 22 on composite outcomes) and 4 meta-analyses met inclusion criteria. There was heterogeneity across studies in terms of the demographic composition of study samples, definition and measurement of depression, length of follow-up, and covariates included in the multivariable models. Despite limitations in some individual studies, our review identified generally consistent associations between depression and adverse outcomes.
- Conclusions—Despite the heterogeneity of published studies included in this review, the preponderance of evidence supports the recommendation that the American Heart Association should elevate depression to the status of a risk factor for adverse medical outcomes in patients with acute coronary syndrome.

Comparison of Depression Interventions after Acute Coronary Syndrome: Quality of Life (COPES-QOL)

- Evaluate the 2008 AHA depression screen advisory
- Sample size: 1500 ACS patients
- 3 groups:
  - AHA depression screen and treat (CBT and/ or antidepressants)
  - No depression screening control group
  - Depression screen and notify (primary care provider) minimally enhanced group

STAY TUNED!

- Trial duration: 18 months
- Endpoints: QALYs and cost-effectiveness

# 2. Barriers: Society





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- Number of patients with complex disease and multi-morbidities increased exponentially
- In 2020, ischemic heart disease and depression the top contributors to the disease-burden worldwide
- Co-morbid somatic and psychological disease worse health outcomes for patients



# 3. Barriers: Health-care system







- Focus on treatment of underlying disease
- Less focus on treating body and mind in concert
- Absence of mental health professionals as part of the multi-disciplinary team
- **Organisation**: Busy clinical practice and limited resources
- Lack of understanding of some health care professionals



Requires a re-organisation and a new way of thinking







# Are patients receiving the best quality of care in clinical practice?



# Undertreatment of distress: Impact on patient-reported health status

(N = 353)

Mean Scores on Anxiety and Depression for the Different Distress and Treatment Groups at 12 Months Follow-Up\*

N = 352	No em distre no trea (N =	otional ss & tment 225)	No em distre treatu (N =	otional ess & ment = 41)	Emot	ional distr ment (N =	ess & = 36)	Emo no tre	tional distr atment (N	ess & = 50)	
Emotional distress	Mean	SD	Mean	SD	Mean	SD	% <sup>†</sup>	Mean	SD	<b>%</b> †	p-value
Anxiety	2.20	2.12	3.39	2.43	10.39	3.45	16.7	7.36	2.99	14.0	<.001
Depression	2.00	1.89	2.95	2.22	9.94	3.86	16.7	8.90	2.53	52.0	<.001
Comorbid anxiety and depression	_	_	_	_	11.48	2.55	66.7	10.03	1.19	34.0	.02
<i>Note.</i> $N =$ number; <i>SD</i> = standard <sup>†</sup> Percentage of patients with a score	d deviation. of $\geq 8$ hav	ing anxiet	y, depressio	on, or co	morbid anxie	ty and dep	pression.	* A score	$10.8 \simeq 10$	anxiety or	depression

or both is considered as a clinically significant level of emotional distress.

Treatment = either psychotropic medication, or treatment by a psychologist, or both

Hoogwegt, Theuns, Pedersen et al. Health Psychol 2012;31:745-53

# **Undertreatment – impact on health status**









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Social functioning



80-

20-

an

*Figure 2.* Mean health status scores on the four measurement occasions for each subscale and stratified by group.

Hoogwegt, Theuns, Pedersen et al. Health Psychol 2012;31:745-53



#### Living with an implantable cardioverter defibrillator: patients' preferences and needs for information provision and care options

Susanne S. Pedersen<sup>1,2,3\*</sup>, Charlotte Knudsen<sup>2</sup>, Karen Dilling<sup>2</sup>, Niels C.F. Sandgaard<sup>2</sup>, and Jens Brock Johansen<sup>2</sup>

<sup>1</sup>Department of Psychology, University of Southern Denmark, Campusvej 55, DK-5230 Odense M, Denmark; <sup>2</sup>Department of Cardiology, Odense University Hospital, Odense, Denmark; and <sup>3</sup>Department of Cardiology, Erasmus Medical Center, Rotterdam, The Netherlands Unmet needs - lack of information (top 3) on:

- **1.** Deactivation of ICD towards end of life (47.8%)
- 2. Psychological support for relatives (43.1%)
- 3. Psychological support for patients (39.9%)

#### Table 2 Patients' preferences for care options that were not part of standard clinical practice, stratified by a priori defined subgroups\*

Care options	Women	Men	P	Primary prevention	Secondary prevention	P	SCA	No SCA	P
Personal conversation with doctor/hurse 2-3 weeks post-implant	63.2% (42)	58.8% (180)	0.502	50.0% (70)	62.4% (1439	0.080	60.3% (70)	58.5% (144)	0.744
Doctors/nurses ask how I feel while hospitalized	60.9% (42)	48.0% (146)	0.054	40.2% (53)	54.8% (125)	0.007	52.2% (60)	48.4% (119)	0.501
Doctor/hurse calls me post-discharge	52.2% (36)	40.5% (124)	0.077	39.1% (52)	44.1% (101)	0.353	43.1% (50)	42.1% (104)	0.858
Same doctor/hurse who talks to me every time	82.9% (58)	73.4% (22.4)	0226	74.8% (98)	74.9% (173)	0.986	70.9% (83)	76.8% (189)	0.226
Exercise tolerance test	53.6% (37)	52.3% (160)	0841	43.2% (57)	59.1% (136)	0.003	59.0% (69)	50.8% (125)	0.145
Cardiac rehabilitation	44.8% (30)	50.2% (152)	0.425	48.5% (63)	48.9% (111)	0.937	51.7% (60)	47.5% (115)	0.456
Ongoing feedback via remote monitoring system	64.2% (43)	60.4% (183)	0.565	58.0% (76)	63.3% (143)	0.325	60.3% (70)	62.0% (150)	0.766
Opportunity to meet other ICD patients	33.3% (23)	24.4% (75)	0.128	25.0% (33)	26.4% (61)	0.768	24.8% (29)	26.7% (66)	0.695
Opportunity to attend ICD workshop with family	44.9% (31)	35.5% (108)	0.145	30.0% (39)	41.3% (95)	0.033	41.9% (49)	34.8% (85)	0.195
Psychological consult while hospitalized	31.7% (20)	24.0% (69)	0.198	19.0% (23)	28.6% (63)	0.050	31.3% (35)	22.2% (51)	0.069
Psychological consult post-discharge for me	43.1% (28)	30.3% (88)	0.048	21.3% (26)	38.5% (85)	0.001	42.3% (47)	27.5% (64)	0.006
Psychological consult post-discharge for my family	33.3% (21)	30.9% (89)	0.706	21.3% (26)	37.3% (81)	0.002	45.5% (50)	24.8% (57)	<0.0001
Receiving ICD-related information several times rather than once	56.3% (36)	46.4% (135)	0.153	33.6% (41)	55.7% (123)	<0.0001	59.5% (66)	42.1% (98)	0.003

\* Numbers highlighted in bold-face indicate statistically significant differences between groups.

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rson, Identit

- Svær hjertesvigt
- Indlagt pga infektion
- Pacemaker fjernet

ke diætister

giske oplysr<sup>u</sup> blik aksforbrug I primær sel

enter OnBas enter OnBas 🔻

Viser 20 af 20 notater hentet

07-03-2014 09:00

Dikteret af

35-årig mand

Hvis biopsi eller blodprøver giver anden indikation, må man revurdere dette på et senere tidspunkt.

Hvis der er behov for yderligere opfølgning, kan man kontakte Dermatologisk Afd.

tienten informeres om og samtykker til ovenstående plan.

🔭 sk klinisk kontakt (Psykiatrisk assistanc

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at (C

Pt. er en 35-årig mand med svær hjertesvigt. Der har været overvejet hjertetransplantation. Pt. aktuelt indlagt på grund af infektion på grund af pacemaker, som er fjernet. Han henvises, fordi han har dødsangst og har det dårligt psykisk. Det fremgår af journalen, at der ikke er mistanke om, at han har en psykisk lidelse. Norma psykiske reaktioner på en alvorlig somatisk lidelse er ikke indeholdt i det psykiatris funktionsorpråde. Der er ansat kliniske psykologer i somatikken. Endvidere kar er stæge henvise til praktiserende psykolog efter Sygesikringsoverenskor

noser - Aktionsdiagnose, DZ719, Rådgivning UNS

- Ansat kliniske psykologer i somatikken...
   Kan henvenses til praktiserende psykolog via Sygesikringsoverenskomst ...

Hent næste

# 4. Barriers: Patients





#### **AHA Scientific Statement**

Depression

- Lack of faith that interventions will work
- Limited knowledge and understanding
- Lack of trust in health care professionals
- Age e.g. interventions that are digital
- Lack of reimbursement and access to care
- Race / ethnicity
- Low socio-economic status
- Low health literacy

Social Determinants of Risk and Outcomes for Cardiovascular Disease A Scientific Statement From the American Heart Association

"Interventions that improve selfcare behavior, risk factor control, or cardiovascular outcomes in those with low health literacy or numeracy are generally lacking".

> Lack of evidence

Havranek et al. Circulation 2015;132:873-98

# From the patient's perspective interventions may be...

- Associated with stigma e.g. seeing a psychologist
- Too abstract e.g. CBT, psychotherapy, mindfulness
- Not meet their needs and preferences





# Precision Medicine





\*Individual Patient Programs: These solutions are not mutually exclusive and are tailored to individual needs. Aging adults and children require special attention to dose and type of drug

\*\*Treatments being used in Brain Resource's International Personalized Medicine Depression Study (Escitalopram, Venlafaxine, Sertraline)

# The potential of ecological momentary assessments

- Daily self-registration of depressive symptoms and physical activity (ecological momentary assessment)
- Granger causality test for directionality of the influence between two time series



# Is a patient-preferred treatment the way forward?

- Patients with anxiety disorders
- 16 modules presented choice of 10
- 10-week intervention

### High level of compliance (1 patient dropped out)

Measure	Pretreatment	Posttreatment	<i>t</i> (25)	Cohen's <i>d</i> within
CORE-OM	1.46 (0.40)	0.95 (0.43)	7.12***	1.23
BAI	16.85 (8.04)	10.73 (6.72)	4.15***	0.83
MADRS-S	15.96 (6.48)	9.73 (6.65)	5.29**	0.95
QOLI	0.85 (1.64)	1.65 (1.48)	-2.71*	0.51

Table 3. Mean scores (± SDs) at pretreatment and posttreatment

Note. CORE-OM, Clinical Outcomes in Routine Evaluation–Outcome Measure; BAI, Beck Anxiety Inventory; MADRS-S, self-rated version of the Montgomery–Asberg Depression Rating Scale; QOLI, Quality of Life Inventory.

p < .05. p < .01. p < .001.



# In order to move the field forward and overcoming barriers...





# We need to...

- Treating heart and mind together
- Elucidate contribution of demographic characteristics (e.g. SES) and their interaction with psychosocial factors to influence outcomes – help us design interventions
- Move away from one-size fits all to a more precision medicine approach
- Develop and evaluate interventions targeted to socially vulnerable
- Knowledge of efficacy of "new kids on the block" mindfulness and eHealth / internetbased interventions
- Evaluation of both clinical efficacy and <u>cost-effectiveness</u> !!!
- Close collaboration between researchers, clinical practice and patients what is
  possible to implement, barriers to logistics, technological (IT), resources, preferences

# To provide the best quality of care to patients







troubled minds,

### Is there a connection?





Email: <u>sspedersen@health.sdu.dk</u>



