Understanding and Treating Anxiety and Depression in Patients with Families with Advanced Cancer

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Learning Objectives

- By the end of this discussion, you should be able to:
 - Describe the epidemiology of depression and anxiety disorders in patients with cancer and their family caregivers
 - Recognize the initial pharmacologic and nonpharmacologic treatment strategies for anxiety and depression in cancer
 - Identify the major risk factors for suicide among patients with cancer





Anxiety in cancer is . . .

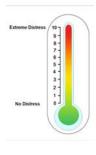
- A normal adaptive response to cancer diagnosis and its treatment (RESPONSE OPTION 1)
- A symptom or disorder leading to disruptions in cancer therapy or impairments in functioning (RESPONSE OPTION 2)

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Symptoms and Syndromes

- Distress (~ 40% of patients and caregivers)*
- * American College of Surgeons Commission on Cancer now requires distress screening for cancer patients treated at comprehensive cancer centers



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Carlson et al, 2003

NCCN Definition of Psychosocial Distress:

A multifactorial unpleasant experience of a psychological (i.e., cognitive, behavioral, emotional), social, spiritual and/or physical nature that may interfere with the ability to cope effectively with cancer, its physical symptoms, and its treatment.

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What Psychosocial Distress is Not

- A single construct
 - It may or may not reflect depression; anxiety, existential dread; worry about finances; embarrassment; etc
- The same in all patients
 - Or in the same patient over time
- Always a cause for intervention...not end of conversation

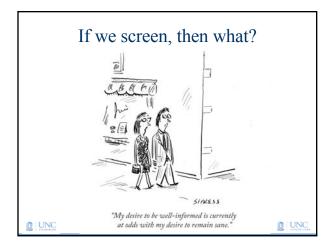
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Normal response to serious illness and end of life

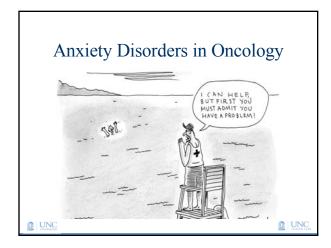
- Includes anger, sadness, worry, loneliness, fear, hopefulness
- Coping style not associated with mortality risk in cancer
- Most will oscillate between competing styles/outlook
- Significant minority of patients engage in some form of denial

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Three-tiered clinical pathway **Brief screen Brief assessment Full evaluation** (5-20 min) (2 min) (30+ min)Identify distress Determine need for Comprehensive severity clinical intervention evaluation Establish diagnosis Guides next steps & management plan UNC **UNC**



Anxiety in cancer

- Common even in noncancer populations
- Persistent, potentially chronic in some
- Difficulty with adaptation



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Anxiety disorders in context Lifetime prevalence of anxiety disorders (US) 12-month point prevalence in US population = 10% Prevalence of Point prevalence of clinically significant (HADS >7) scores anxiety disorders among cancer patients shows among oncology similar rates to US patients population norms Pozo-Kaderman, 2017; Stark et al, 2002

What is the prevalence of anxiety for cancer patients?

- · Depends on when and how you ask
- Pre-treatment
 - Anxiety more prevalent than depression
 - Anxiety symptoms ranging from 21-54%
 - Clinically significant 10-20%
- During
 - Substantial declines during treatment (rates are half)
- Post-treatment
 - Depression more prevalent, anxiety variable but

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generally lower

iegelis et al, 2004 📗 🖳

Trajectories of anxiety from baseline to 24 months s/p breast cancer surgery High Stable High Decrease High Decrease Low Decrease From: Saboonchi F, et al. J Psychosocial Oncology And Decrease Province Trans Sabounchi as two Province Agent Research Capital States Compared Biol Syruk Research Capital States Capital State

Management considerations

- Temporary distress versus manifestations of new or chronic anxiety disorder?
- Symptom severity
- · Risk for physiologic contributors
- Risk for substance use disorders
- Life-expectancy
- Willingness to engage in treatment

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Initial treatment for anxiety

- Ongoing/chronic or severe symptoms merit treatment that addresses prevention and long-term management
- Antidepressants
 - SSRIs, SNRIs, mirtazapine
 - Patient education about treatment
- Limited value in patient when life expectancy is only a few days to weeks

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As needed/immediate symptom relief (mostly off-label)

- · Benzodiazepines
- Non-benzodiazepine anxiolytics
 - Gabapentin
 - Buspirone
 - Hydroxyzine
 - Propranolol, clonidine, and guanfacine
 - Hydroxyzine
- Neuroleptics (antipsychotics)

Quetiapine, risperidone, olanzapine commonly used

Additional notes re: benzodiazepines

- Benefits
 - Immediate symptom relief for most
 - Multiple routes of administration
 - Helpful for variety of symptoms
- · Drawbacks
 - Habit-forming
 - Tolerance and withdrawal
 - Respiratory effects, daytime sedation, cognitive

UNC slowing, falls

Additional notes re: benzodiazepines

- Patient selection and education are key
- Utilize the Prescription Database Monitoring Program
- Lorazepam or clonazepam most commonly used

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Psychotherapies

- Should accompany pharmacologic therapy whenever possible
- Very effective for motivated patients
- · Cognitive behavioral therapy best studied
- Mindfulness, guided imagery, relaxation
 - Multiple useful apps to help with this (many are free)

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Depression Disorders in Oncology Am Ia happy man or just an asymptomatic one?

Depression in cancer patients

- Cancer diagnosis itself is a risk factor for depression
 - Nearly one in five patients who are seriously ill meet criteria for major depressive disorder
 - Prevalence increases as physical symptoms grow
 - Highest in patients with head and neck cancer, pancreatic, breast and lung

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Impact of Depression

- · Increased morbidity
 - Worsens severity of pain & other symptoms
 - Decreases function
- · Health behavior
 - Decreased adherence to cancer treatment
- Worse quality of life
- · Increased mortality
 - Suicide and cancer-related mortality



Increases cost



Risk Factors for Depression in Serious Illness

- Younger age
- Prior history of depression
- Uncontrolled physical symptoms
- · Cancer type
- Treatment
 - CNS involvement, steroid exposure, interferon, endocrine therapies

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DSM-V Criteria

- · At least 5 symptoms over 2 week period and represent change in functioning
 - Core sx: Depressed mood or loss of interest (anhedonia)
- Major Depressive Episode checklist (SIGECAPS)
 - **Depressed mood** most of the day, nearly every day
 - Sleep disturbance [S];
 - Diminished interest or pleasure [I];
 - Feelings of worthlessness, **guilt** [G];
 - Fatigue or loss of **energy** [E];
 - Diminished ability to concentrate, or indecisiveness [C];
 - Poor **appetite** or significant weight loss [A];
 - **Psychomotor** agitation or retardation [P];
- Thoughts of death, suicidal ideation/plan [S]

Key Features of Depression in the medically ill

- · Depressed mood, sadness, grief, and anticipatory feelings of loss are appropriate.
- The following *are not*:
 - Persistent guilt
 - Feelings of worthlessness, hopelessness and helplessness
 - Social withdrawal
 - Suicidal ideation



Questions Used to Differentiate

- Are there moments you can still feel joy, despite the the sorrow you have been through?
- What keeps you going on difficult days?
- From what sources do you draw hope?
- Would you do more if you could physically?
- · Do you feel you are to blame or deserve your illness?

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Detection of Depression

"Are you depressed?"

Single question screening is both sensitive and specific

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Chochinov et al. Am J Psychiatry 1997



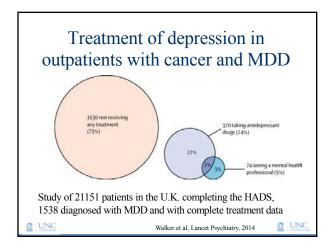
Diagnostic and Therapeutic **Obstacles**

- Fluctuating course of illness
- Shared symptoms with other disorders
- Symptoms seen as "appropriate"
- Reluctance to treat patients w/ limited life expectancy
- Limited life-expectancy before desired results of intervention
- · Poor evidence base
- Drug-drug interactions





Depression, cognitive impairment and delirium Shared risk factors **Shared symptoms** Cognition Dementia Mood UNC Downing LJ, et al., Curr Psychiatry Rep. 2013



Depression Care for People with Cancer (DCPC) Integrated care model - Oncology RN + psychiatrist SMaRT Oncology 2 (better prognosis cancers) and 3 (poorer prognosis cancers) Effectively treats depression and improves QOL Cost-effective

Sharpe et al: Lancet 2014

Does treating depression in cancer patients decrease mortality? • Probably not • Follow-up analysis of DCPC intervention vs usual care in Scotland (n= 643) Mulick et al, 2018

Before you prescribe...

- Evaluate medications
- Ask about substances
- Consider bereavement/demoralization
- Look for cognitive disorders
- Rule out medical conditions
 - B12 deficiency, Hypothyroidism, Hypercalcemia
 - Neurologic illness

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Pharmacologic considerations

- Know a couple of medications from two different classes well
- Same meds but slower and lower initial dosing (but don't forget to titrate)
- Evaluate for symptom clusters to guide initial treatment selection
- · Ask about prior treatment response

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Pharmacologic considerations

- SSRIs are typical first-line choice, except....
- Appetite/stimulation desired...consider mirtazapine
- Existing/expected neuropathy...consider SNRIs (duloxetine, venlafaxine, etc.)
- Appetite reduction and wakefulness desired...consider bupropion

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Drug class	Notable adverse effects
SSRIs	GI effects
	Bleeding risks
	Fracture risks
	Hyponatremia
	QTc effects
	Drug-drug interactions
SNRIs	Hypertension
	Withdrawal syndromes
	GI effects
Mirtazapine	Nightmares
	Constipation
	Appetite stimulant
Bupropion	Appetite suppression
	Stimulant-like effects
	Seizure-risk

Pharmacologic treatment of depression in advanced cancer

- No recent RCTs of primary antidepressant therapy (including ketamine)
- Methylphenidate add-on therapy
 - Methylphenidate + SSRI = SSRI alone
 - Methylphenidate + Mirtazapine > Mirtazapine alone (Day 3-28)



Sullivan, Psycho-oncology, 2016



Titrating, Switching and Combining Antidepressants

No response 4 weeks or partial response 6-8 weeks

- 1. Increase dose
- 2. Switch antidepressants
 - For SSRIs direct switch can be made at usual starting doses without cross-taper or washout
 - · Cross taper vs direct switch
- 3. Combine with antidepressant of another class
- 4. Augment with another psychotropic agent





Other pharmacologic treatment options

- Psychostimulants
 - Methylphenidate and Dextroamphetamine preparations
 - Modafanil and Armodafinil
- Ketamine
- ECT and TMS

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Zanicotti et al.. J Pall Med. 2012 Irwin et al. J Pall Med. 2010.Rozans et al. J. Clin Onc. 2002.



Antidepressant for co-morbid pain

- Effective as adjuvant therapy for pain, especially neuropathic pain
- Tricyclic Antidepressants (TCAs)
 - Analgesic effects occur at lower doses
 - Nortriptyline and Desipramine are best due to lower anticholinergic effects
- SNRIs
 - Venlafaxine (doses > 225mg/day)
 - Duloxetine

■ UNC – Desvenlafaxine



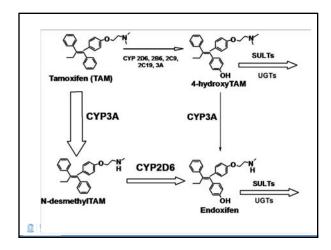


Drug Interactions

- Polypharmacy is the rule
- It's easy to make things worse
- However, truly dangerous drug interactions are less common
- Isoenzyme-drug interaction chart http://medicine.iupui.edu/flockhart/

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Tamoxifen, Antidepressants, & Mortality in breast cancer patients

- 16,887 breast cancer survivors (TNM stages 0-II), all treated with tamoxifen
- Exposure = percent of days of overlap with tamoxifen and antidepressants. Follow-up for up to 14 years.
- No increased risk of subsequent breast cancer in women concurrently treated with tamoxifen and paroxetine (or other

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Combined treatment is usually best

- Multiple modalities are effective
- Individual Psychotherapy
- Group therapy
- Other forms of therapy/counseling:
 - Behavioral activation
 - Motivational interviewing
 - Guided imagery
- Crisis intervention/social support



et al.. Palliat Med 2008. pson A et alJ Palliat Med 2008 II. Curr Psych Rep



Promoting Resilience

- Assess for prior strengths and life challenges
- What have you overcome previously in life?
- What has helped in the past?
- How do you cope with adversity?
- Engage the family and members of the treatment team.

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Indications for referral





Indications for referral

- Failure to respond to 1st or 2nd line therapy
- Significant co-morbid medical illness
- Suicidality
- Psychotic or bipolar depression
- Co-occurring psychiatric disorders
 - Personality disorders
 - Substance use disorders
- Severe symptoms (e.g. life-threatening reduction in po intake)

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Indications for referral

- Comprehensive care including psychotherapy, group therapy
- Particularly for patients
 - Adolescent/young adult population
 - Low social support
 - Have caregivers with co-occurring depression/anxiety

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Anxiety/Depression in Caregivers

- Rates higher in family members caring for loved ones in advanced cancer and hospice
- 18-46% of caregivers with clinically significant depression
 - Emotional exhaustion and depersonalization
- Psychological symptom burden highly correlated with those of patients
- Caregiver distress warrants attention



'Chentsova-Dutton Y et al. Ann Clinical Psychiat 2000.
"Grunfeld E et al. CMAJ 2004.
""Yilmaz A et al.. Austral J Ageing 2009.

Suicide in cancer patients



Suicidality in cancer

- Cancer patients are at elevated risk for completed suicide
- Most patients who complete suicide had contact with medical providers prior to death
- In AYA population, patient-oncologist alliance is stronger protector against suicidality than mental health interventions
- · Desire for hastened death fluctuates substantially during final weeks of life



How many cancer patients think they would be better off dead?

- Study of 2,924 UK patients attending cancer clinics
- "Over the last week, how often have you had thoughts of that you would be better off dead or of hurting yourself in some way?" (PHQ-9, Q9)
- 7.8% answered affirmatively

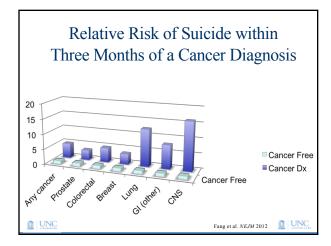




How many cancer patients think they would be better off dead?

- Follow-up telephone interview
 - -33% denied SI
 - -33% believed they would be better off dead
 - -33% clear thoughts of attempting suicide

Walker et al, 2008 II UNC



Key domains of risk assessment: Is the patient at imminent risk?

- Involvement with mental health care
- Cooperating with interview •
- Present/past suicidal ideation and behavior
- Psychiatric history
- Psychological traits
- External stressors (immediate)
- Access to lethal means or has plausible plan
- Social supports
- Reasons for living
- Coping mechanisms
- Cognitively intact

the side of caution



Too close to call? Err on

Desire for hastened death

Studied two ways

Desire for hastened death Will to live

Thoughts are not uncommon

9-17% cancer patients have desire hastened death

Thoughts commonly fluctuate

No variables that clearly distinguis between those who remit vs those do not

	Risk factors Depression Anxiety Hopelessness
for	Low spiritual well-being
sh who	
**110	Breitbart, 2000; Chochinov

Responding to statements/requests

Acknowledge their request Repeat the patient's words to verify

their understanding

Clarify the underlying cause

"We haven't talked about this before. Tell me more"
"What is the worst part of your illness right now for you? "What would make life worth living? What can we do to help?"

Formal assessment

Decision-making capacity, depression, suicide

Suicide screening

"In your worst moments, do you finding yourself wishing that death would come soon? Does it ever approach the point where you think about killing yourself or asking someone to help you?"

Plan for follow-up

Even if referred to someone else



Suicide assessment

- An authentic therapeutic alliance is protective
- Refine and personalize the language you use
- We should all stay humble: prediction is poor
- Anxiety, alcohol, drugs, and access to weapons promote impulsivity
- Know your patients and attend to changes



Questions?



The UNC Comprehensive Cancer Support Program (CCSP) is dedicated to helping patients and their caregivers with cancer treatment, recovery and survivorship. nunc

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