THE ACTIVELY DYING PERSON

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KAISER PERMANENTE SOUTHERN CALIFORNIA

NO DISCLOSURES

ACTIVE DYING DEFINED

- By definition, actively dying patients are very close to death, and exhibit many signs and symptoms of near-death
 - Typically 3 days within death

IS MY PERSON ACTIVELY DYING?

One to Three Months

- Decreased appetite
- Increased sleep
- Withdrawal from people and environment

One to Two Weeks

- More sleep
- Confusion
- Restlessness
- Vision-like experiences
- Change in temperature, RR, HR, BP
- Congestion
- Not eating

Days or Hours - Active Dying Phase

- Surge of energy
- Decreased blood pressure
- Glassy, teary eyes
- Half-opened eyes
- Irregular breathing
- Increased restlessness
- Cold, purple, blotchy feet and hands
- Weak pulse
- Decreased urine output

Minutes

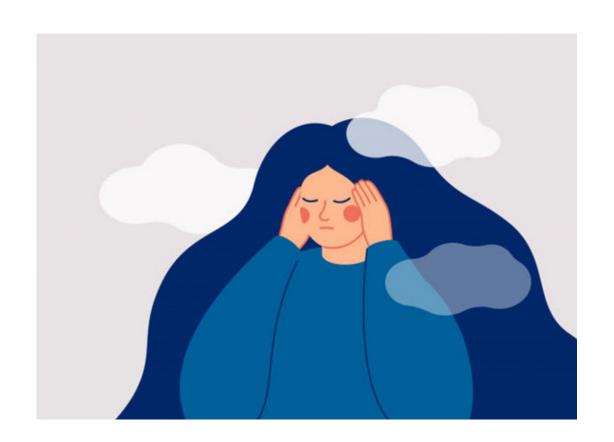
- Gasping breathing
- No awakening

ONE WEEK PRIOR TO DEATH

PERIPHERAL EDEMA



DELIRIUM / RESTLESSNESS



DYSPHAGIA FOR SOLIDS



DECREASED SPEECH



MOTTLED / CYANOTIC SKIN



4-6 DAYS BEFORE DEATH

ABNORMAL VITAL SIGNS



DECREASED LEVEL OF CONSCIOUSNESS



DYSPHAGIA FOR LIQUIDS



2-3 DAYS BEFORE DEATH ACTIVE DYING PHASE

PPS 20% OR LESS

PALLIATIVE PERFORMANCE SCALE (PPS)

%	Ambulation	Activity Level Evidence of Disease	Self-Care	Intake	Level of Consciousness	Estimated Median Survival in Days		
						(a)	(b)	(c)
100	Full	Normal No Disease	Full	Normal	Full	N/A	N/A	
90	Full	Normal Some Disease	Full	Normal	Full			108
80	Full	Normal with Effort Some Disease	Full	Normal or Reduced	Full			
70	Reduced	Can't do normal job or work Some Disease	Full	As above	Full	145		
60	Reduced	Can't do hobbles or housework Significant Disease	Occasional Assistance Needed	As above	Full or Confusion	29	4	
50	Mainly sit/lie	Can't do any work Extensive Disease	Considerable Assistance Needed	As above	Full or Confusion	30	11	41
40	Mainly in Bed	As above	Mainly Assistance	As above	Full or Drowsy or Confusion	18	8	
30	Bed Bound	As above	Total Care	Reduced	As above	8	5	
20	Bed Bound	As above	As above	Minimal	As above	4	2	6
10	Bed Bound	As above	As above	Mouth Care Only	Drowsy or Coma	1	1	
0	Death	-		-	-			

⁽a) Survival post-admission to an inpatient palliative unit, all diagnoses (Virik 2002).

⁽b) Days until inpatient death following admission to an acute hospice unit, diagnoses not specified (Anderson 1996).

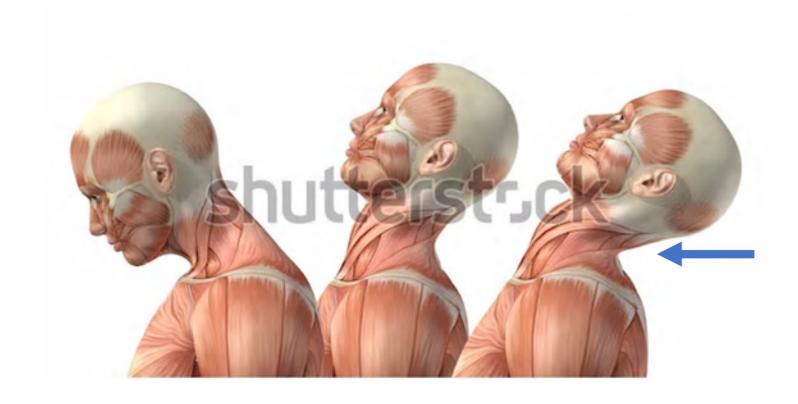
⁽c) Survival post admission to an inpatient palliative unit, cancer patients only (Morita 1999).

DROOPING OF NASOLABIAL FOLDS

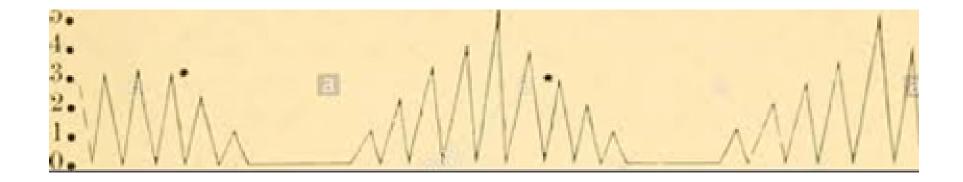


In one study, PPS < 20% + drooping of nasolabial folds = 94% chance of death within 3 days

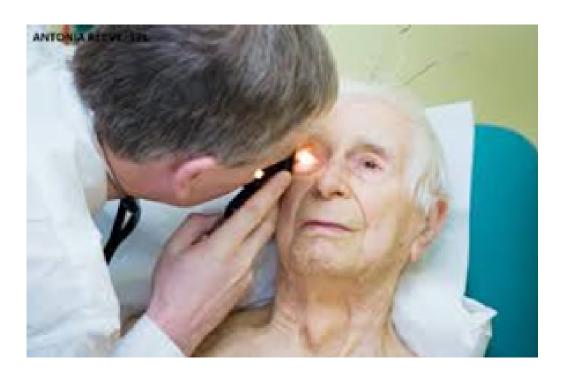
HYPEREXTENSION OF THE NECK



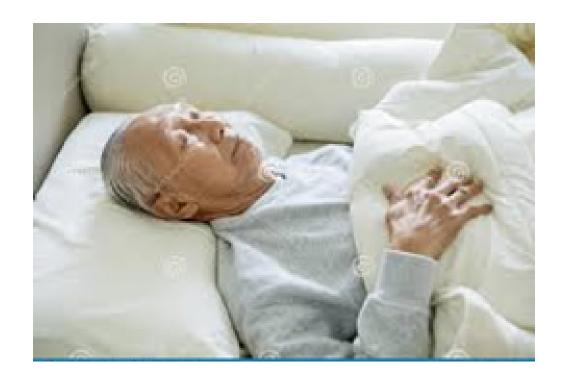
CHEYNE-STOKES BREATHING



NON-REACTIVE PUPILS



DECREASED RESPONSIVENESS

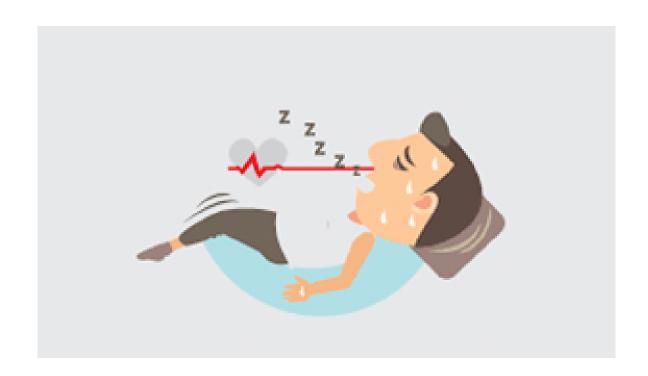


<2 DAYS BEFORE DEATH

DEATH RATTLE

- Named for Drs John Cheyne and William Stokes early 1800s
- Average time from symptom to death is 16 hours
- Prevalence: 60%
- Swallowing dysfunction:
 - Tongue loses ability to push saliva backward into the esophagus, so liquid may enter the lung
 - Epiglottis may stop protecting the trachea
- Not correlated with respiratory distress
- Treat: Repositioning, Oral swabs, hyoscyamine, atropine, glycopyrrolate, scopolamine, octreotide

APNEA



RESPIRATION WITH MANDIBULAR MOVEMENT



DECREASED URINE OUTPUT



PULSELESS RADIAL ARTERY



INABILITY TO CLOSE EYES



GRUNTING



FEVER



WHAT TO EXPECT

- A direct relationship exists between the number of clinical signs of dying and death:
- Persons with two clinical signs of dying had a 40% chance of dying
- Persons with eight clinical signs of dying had a more than 80% chance of dying

THE THREAD OF GRIEF

- Denial This cannot be happening
- Anger Why is this happening?
- Bargaining If I just do better, than this will go away
- Depression This is devastating and I am hopeless
- Acceptance I don't like it, but I will do my best
- Meaning How do I best honor this life?



HAS MY PERSON EXPIRED?

- No one can predict the time of death, even if the person is exhibiting typical end-of-life signs and symptoms
- Death pronouncement ABCs
- Rigor mortis: Occurring two to four hours after death, this is the temporary stiffening of the muscles
- Algor mortis: This is the cooling of the body to room temperature skin becomes fragile and easily torn
- Liver mortis: This is the decomposition or breakdown of red blood cells elevating the head of the bed can lessen the color changes in the upper body

DISEASE SPECIFIC FEATURES OF DYING

Heart disease: 655,381

Cancer: 599,274

Accidents (unintentional injuries): 167,127

Chronic lower respiratory diseases: 159,486

Stroke (cerebrovascular diseases): 147,810

Alzheimer's disease: 122,019

Diabetes: 84,946

Influenza and pneumonia: 59,120

Nephritis, nephrotic syndrome, and nephrosis: 51,386

Intentional self-harm (suicide): 48,344

Covid-19 is now 3rd leading cause of death

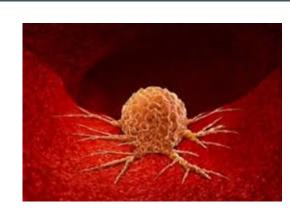
CONGESTIVE HEART FAILURE

- Dyspnea
- Edema peripheral, abdominal, sacral
- Cough / wheezing
- Delirium may be related to hyponatremia
- Tachycardia
- Hypotension
- Cardiac cachexia / anorexia



CANCER

- Fatigue
- Anorexia
- Anhedonia
- Organ specific
 - Lung cancer: cough, dyspnea, pulmonary edema
 - Pancreatic / liver cancer: jaundice, abd or back pain, ascites, nausea
 - Colon cancer: bowel obstruction or dysfunction, abd pain



CHRONIC OBSTRUCTIVE PULMONARY DISEASE

- Somnolence hypercarbia
- Dyspnea pursed lip breathing
- Anxiety / Depression
- Delirium



DEMENTIA

- Limited speech
- Dysphagia
- Decreased ambulation or truncal control
- Incontinence
- Delirium
- Sleep wake reversal / increased sleep
- Nonverbal behaviors: moan, yell, withdraw, grimace, sweat, restlessness



RENAL FAILURE

- Uremia
 - N/V
 - Fatigue
 - Muscle cramps
 - Delirium
- Pruritis
- Edema
- Decreased urine output



FEATURES OF A HIGH QUALITY DEATH

- Preference for a specific dying process 94%
- Being pain free 81%
- Emotional well-being 64%
- Religious or spiritual element more important to patients>family
- Treatment preferences
- Dignity more important to family>patients
- Family
- Quality of life more important to family>patients
- Relationship with health care provider
- Life completion more important to family>patients

FEATURES OF A HIGH QUALITY CARE TEAM

- Clinical competence
- Willingness to educate
- Calm and empathic reassurance
- Death in an institution requires accommodations to assure privacy, cultural observances, and anticipatory communication
- Care does not end until the family has been supported with their grief reactions



DIFFERENCES IN ACTIVE DYING BY RACE, GENDER, RELIGION, LANGUAGE, SEXUAL ORIENTATION OR GENDER IDENTITY

- No good evidence to share
- A plea for individual approach uncover implicit biases, invest in the personal
 - Half of white medical trainees hold false beliefs about black people
 - Black patients are 22% less likely than white patients to receive pain medication

ARE WE STARVING MY LOVED ONE?

- Fluid recommendations:
 - Women 91 oz daily
 - Men 125 oz daily
- Around 20% of fluid intake daily comes from food
- Survival without food alone ~ two months
- Survival without water ~ 8-21 days
- Outcome ->
 - Body temperature and blood pressure dysregulation
 - Electrolyte abnormalities
 - Brain edema
 - Joint stiffness



HYDRATION

Pros

- May add hours-days of life if given early enough in disease course (PC vs HO)
- Decreased delirium
- Reduced fatigue

Cons

- Less pain
- Fewer BMs, n/v
- Reduced edema



THIRST

- Oral care moisten and cleanse oral cavity
- Stop drugs contributing to xerostomia
- Artificial saliva, mouth rinses, popsicles or sour lollipops
- Evaluate dentition / dentures



IS MY LOVED ONE IN PAIN?

- Pain does not inevitably increase as death advances
- (Dyspnea and dysphagia likely to increase)
- Monitor for nonverbal signs of pain
 - "ouch" "stop" profanity
 - Cries, whines, gasps, combativeness
 - Grimace, furrowed brow, clenched teeth
 - Guarding a limb, restlessness, rubbing
- Limit unnecessary medications and interventions
 - Prioritize family / caregiver communication
 - Symptom control
 - Personalized experience



CAN MY LOVED ONE HEAR ME?

- Evaluate baseline hearing ability
- Assume that that your person can hear you
 - Talk gently
 - Explain direct caregiving
 - Introduce new people
 - Play intermittent music or podcasts or other sounds that may be desired by the person



THERAPEUTIC CONSIDERATIONS

"Free from avoidable distress and suffering for patient, family and caregivers, in general accord with the patient's and family's wishes, and reasonably consistent with clinical, cultural and ethical standards."

