

Withholding & Withdrawing Life Sustaining Treatment: A Lifespan Approach

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Basic Concepts

- “Treatments” may be withheld or withdrawn at any time
 - Based on informed consent
- “Care” is never withheld
- “No one knows best, for we all know differently” (Maria Huxley)
 - Health care providers & families: no better than chance ability to predict patient desires
 - Desires change – age, situation, problem



Basic Ethical Principles

- Autonomy – the right to choose one's diagnostic tests & treatments
- Beneficence – our duty to do what benefits the patient
 - The patient perceives the benefit
- Nonmaleficence – the duty to not harm the patient
- Justice – the duty to do what is fair and equitable

Life-Sustaining Treatments

- Definition: direct connection between the Tx and the likely terminal outcome
- Examples:
 - Antibiotics in overwhelming infections
 - Discontinuing ventilator support
 - Dialysis for kidney failure
 - Surgery for acute GI bleeding
 - Artificial nutrition & hydration (ANH)
 - Pacemakers and implantable cardiac defibrillators
 - Cardiopulmonary resuscitation



Life Span Considerations

- ❑ Statistical probability of “success”
- ❑ Age – informed consent
- ❑ Prior stated wishes
- ❑ Lifestyle and justice
- ❑ Perception of disability
- ❑ Goals of care
- ❑ “Quality of life”

Lack of information!



Is There a Difference?

- Withholding treatments
 - Weigh benefits and burdens
 - Quality of life considerations
 - View of family
- Withdrawing treatments
 - Feels different
 - Apparent “direct” consequences of an action

Decision Making

- What is the goal of treatment?
- What is the likelihood of success (benefits)?
- What are the risks of treatment?
- What are the alternatives?
- What are their risks and benefits?
- What if we don't give any treatment and just give good, palliative care?

True informed consent

Antibiotic Treatment

- Relatively new (1940s)
- Ubiquitous (ABs even in our food!)
- Serious negative consequences
 - Resistance - MRSA/VRE
 - Organ damage (e.g., kidney, ears)
 - Often use when there is no evidence of benefit
- Expected versus unexpected infections

Antibiotic Treatment Cases

- Pneumonia in a 19 year old college student
 - Seriously ill
 - Immediately responsive
 - Treatment universally desired

- Pneumonia in an 86 year old with Alzheimer's disease
 - Expected complication
 - Limited symptoms

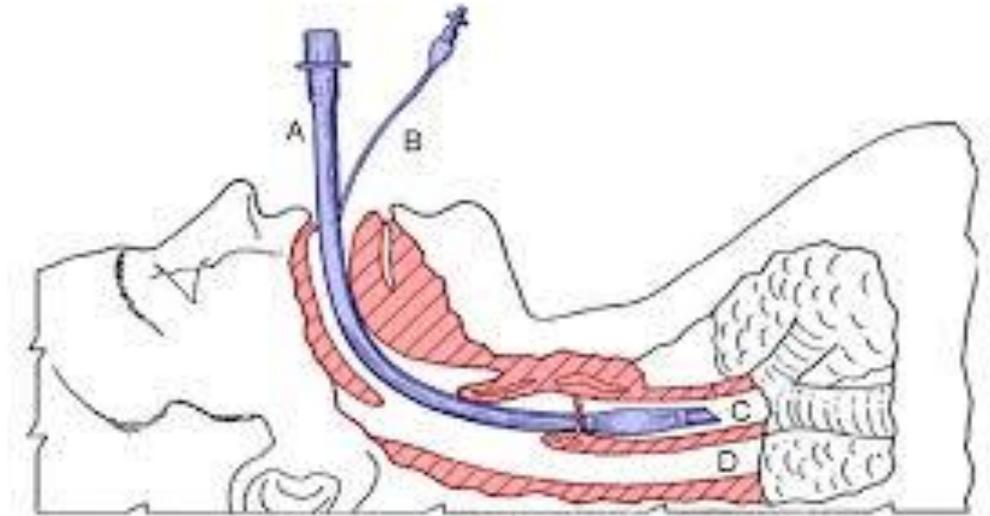


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Discontinuing a Ventilator

- Most are temporary (unexpected use)
 - Unable to talk
 - ICU
 - Discontinuation is the goal
- Long term/permanent ventilator (expected)
 - Neurologic injuries (spinal cord)
 - Degenerative diseases (ALS)
 - End-stage COPD



Ventilator Cases

- 17 year old motorcycle accident with head injury (unexpected)
 - Unpredictable outcome
 - May change mind later
- 67 year old with end-stage COPD (expected)
 - FEV1 < 500ml
 - Can decide to withhold
 - Established protocol for withdrawal (EPEC)

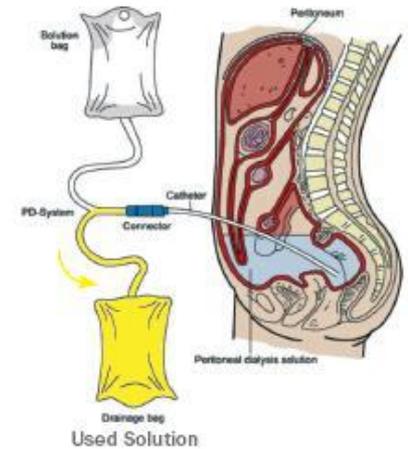
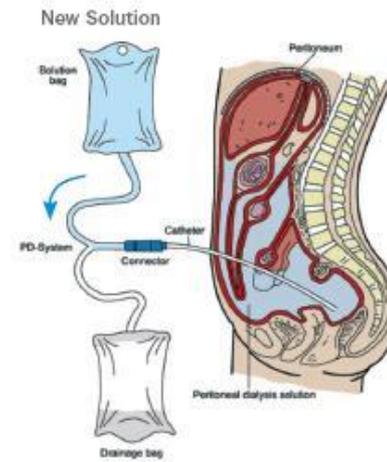
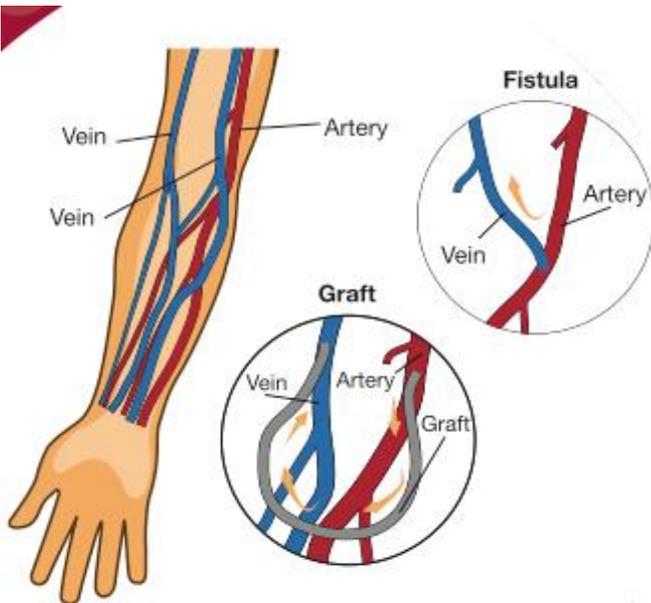


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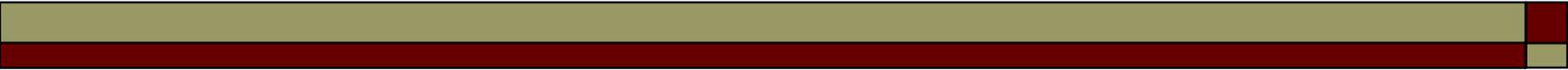
Dialysis

- Relatively new (1970s)
- Possible end stage of many diseases
- Stressful on patient and caregivers
- Patients commonly can freely engage in the decision-making process (unlike ventilators)
- Risk of financial factors pushing decisions
 - Longest term treatment
 - Most expensive over long run



Dialysis Cases

- 55 year old with unexpected acute kidney failure secondary to unexpected shock
 - Usually reversible
 - Short term
 - Transplant options
- 82 year old with end-stage diabetic kidney disease
 - Fewer options
 - Other co-morbid conditions
 - Likelihood of getting a transplant?



Decision Making

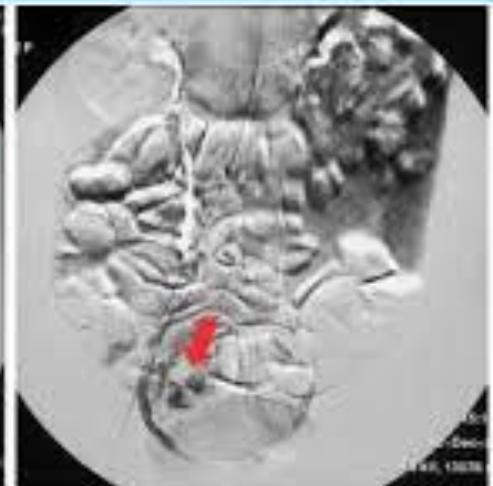
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Surgery for Acute GI Bleeding

- 85 year old with “angiodysplasia” (an abnormal collection of veins in the colon)
 - Age not a good predictor of surgical outcomes
 - Underlying health and functional status is key
- 85 year old with end-stage dementia
 - Quick terminal event
 - Methods for limiting impact of bleeding



Medscape

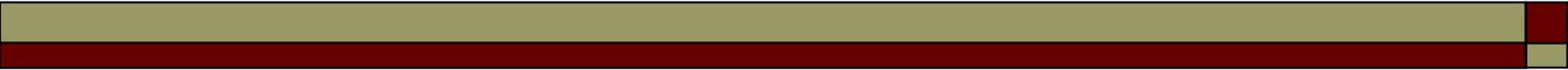


Source: Am J Gastroenterol © 2012 Blackwell Publishing



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Artificial Nutrition & Hydration

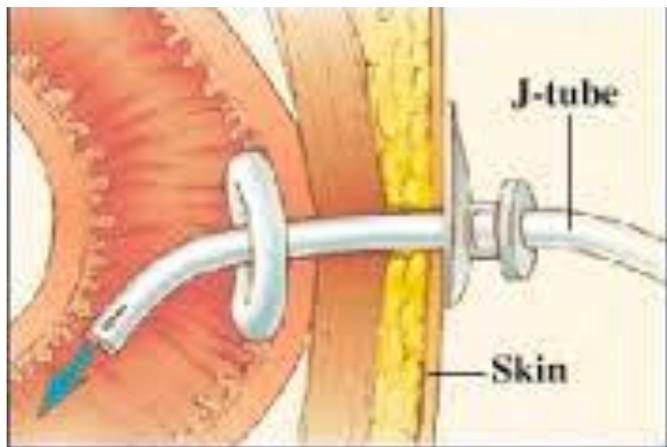
- Not “feeding” (i.e., a medical treatment)
- Growing body of evidence (in end-stage disease)
 - Does not extend life
 - Does not reduce aspiration
 - Increases some aspects of suffering
 - Medically risky – prone to complications



NG Tube



PEG Tube



J Tube

Prolong Life?

- 50%-68% 1 year mortality (Cowen)
 - dementia
 - stroke
 - CHF
- Survival same as hand fed (Mitchell)
- Improvement in nutritional measures does NOT affect survival! (Golden, Kaw, Mitchel)

Reduce Suffering?

- Complication rate 32% - 70% (Taylor)
- Those without hunger or thirst have increased pain when tube fed (McCann)
- Increased use of restraints
 - Up to 90% (Peck)
 - NOT significantly different with G tubes (Ciocon)

Decrease Aspiration?

- NG tube -
 - 67% aspirated
 - 43% developed pneumonia
 - 66% pulled out

- G tube
 - 44% aspirated
 - 56% developed pneumonia
 - 56% pulled out

(Ciocon)



Ordinary Care?

- Decreased human contact (Slovenka)
- Supreme Court ruling in Nancy Cruzan
- Religious stands
 - Catholic - burdens and benefits
 - Jewish - impediments to dying



Benefits of Dehydration

- ❑ Less cough
- ❑ Less urine production (incontinence)
- ❑ Decreased thirst
- ❑ Enhanced effect of morphine?
- ❑ Analgesic effect?
- ❑ Euphoria



Choosing Wisely Campaign

- “Don’t recommend percutaneous feeding tubes in patients with advanced dementia; instead offer oral assisted feeding.”
- Three societies:
 - American Geriatrics Society
 - American Academy of Hospice and Palliative Medicine
 - American Medical Directors Association

ANH Cases

- 12 year old with end-stage Wilm's tumor
 - Possible effect of ANH on tumor growth
 - Issue of informed consent at this age
- 73 year old with acute stroke, otherwise healthy
 - Difficulty in predicting outcome
 - Prior wishes?
- 84 year old with end-stage dementia
 - Inability to swallow is always a complication with this condition
 - The final stage of disease

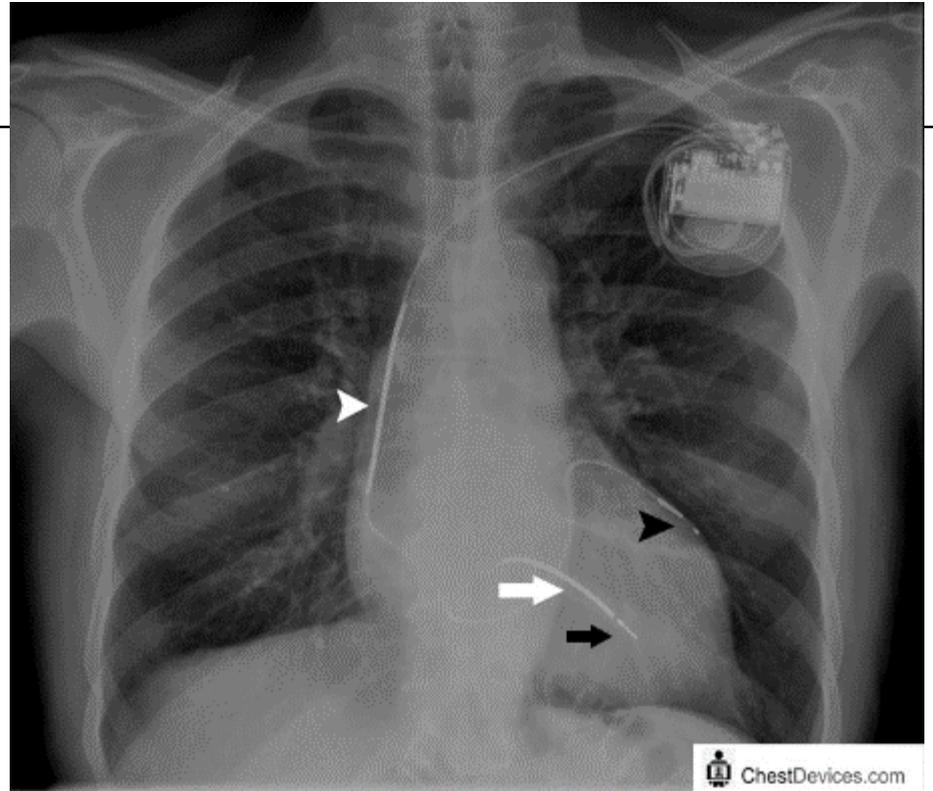
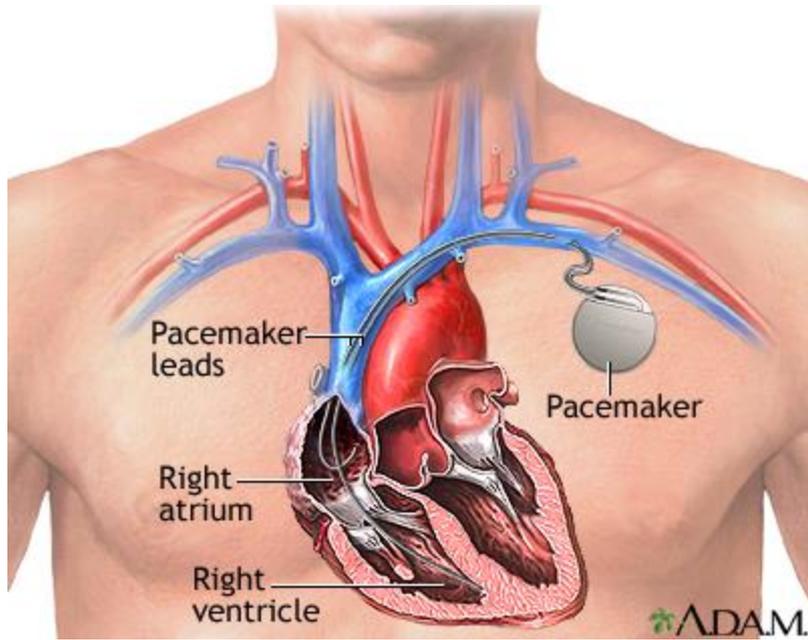


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Pacemakers and Implantable Cardiac Defibrillators

- Relatively new
- Potential for almost universal use
 - 250,000 out of hospital cardiac arrests annually
 - Justice implications
- ICD – if cardiac arrest is the final stage of life, how does one ever die?





Pacemaker/ICD Cases

- 85 year old with dementia and bradycardia
 - How does one goal (treatment of arrhythmia) affect the other goal (management of dementia)?
- 64 year old former Vice President
 - Assumption of power



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Cardiopulmonary Resuscitation

- Prevent sudden, unexpected death
- Best outcomes:
 - Healthy patients (children)
 - Instituted immediately
 - Administered by trained personnel
 - Patient responds within 5 minutes of initiation
 - Cold water drowning
- “Success” defined as leaving the hospital

CPR in Hospitals

- ❑ 5% survival out of hospital
- ❑ 14% overall survival in hospitals
- ❑ 3% on general medical wards
- ❑ 0%-3% survival rates in NH
- ❑ 50% of survivors do not want CPR again
- ❑ 50% of survivors develop major depression or functional decline

DNR vs. Allow Natural Death (AND)

CPR Cases

- 45 year old auto accident victim, attended by EMT within 5 minutes
 - Direct organ damage probably best determines outcomes
 - Risks of unwanted outcomes with “success”
- 91 year old with multiple co-morbid conditions and intact cognition



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Summary

- ❑ Discuss the natural history of any condition
- ❑ Discuss the actual experience of treatment
- ❑ Involve your family
- ❑ Expect real informed consent

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