

**BIOLOGICAL  
MEDICINE**

**UNDERSTANDING  
CANCER**

**Restoring HEALTH,  
Preventing Disease,  
Optimizing Performance**

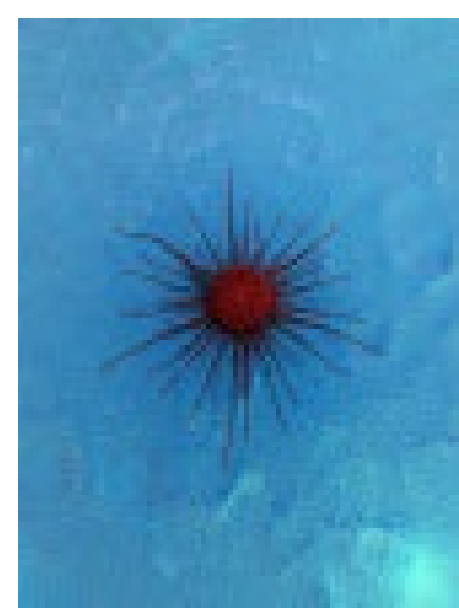


## GOALS for BioBites

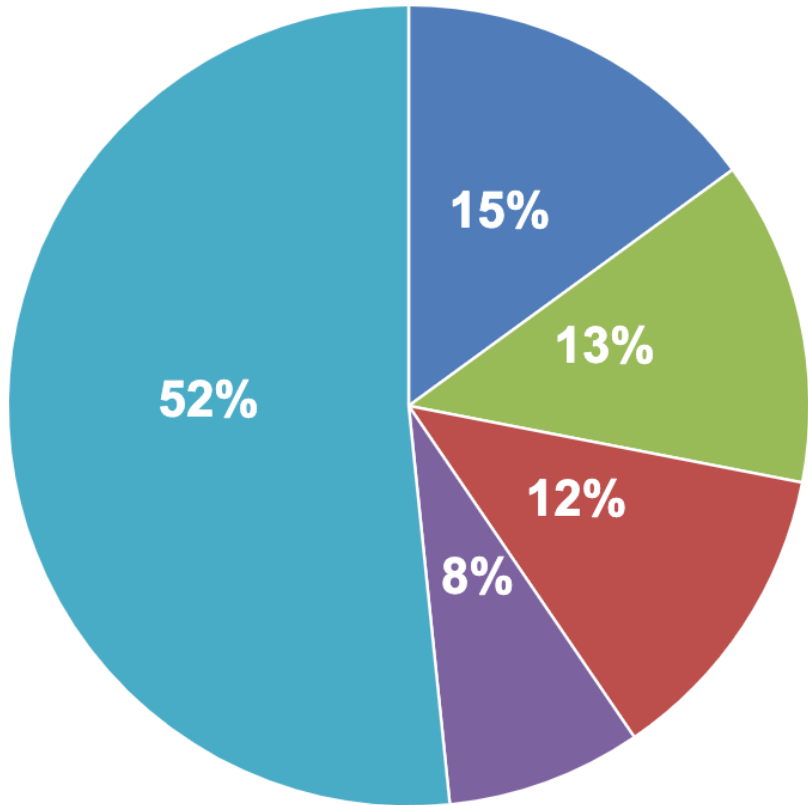
- Have an understanding of cancer from the conventional point of view
- Have an understanding of cancer from a Biological Medicine point of view
- Understand patient management with Biological therapies

# CANCER Statistics

- 37,200,000,000,000 cells (37.2 trillion)
- 240,000,000,000 new cells every day (240 billion)
- If .0003% are cancer cells = over 1,000,000/day
- **We all “have” cancer – every day**
- 1.9 million in U.S. diagnosed with cancer in 2021
- 609,000 in U.S. died in 2021
- **11,700 per week – 1,670 per day in 2021**

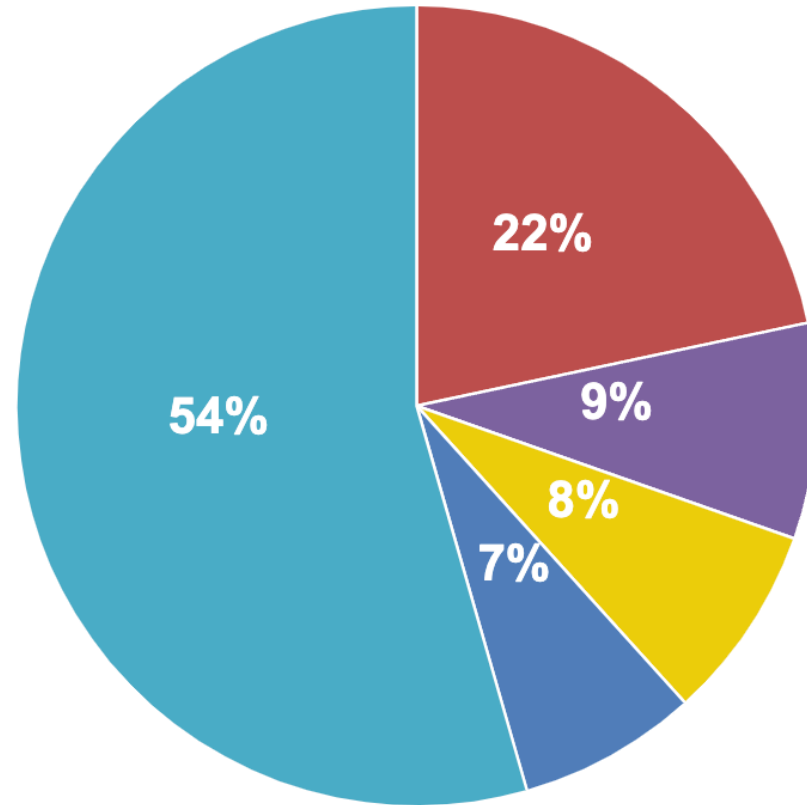


New Cancer Cases, 2021



- Breast: 284,200 (15%)
- Prostate: 248,530 (13%)
- Lung and bronchus: 235,760 (12%)
- Colon and rectum: 149,500 (8%)
- Other: 980,170 (52%)

Cancer Deaths, 2021



- Lung and bronchus: 131,880 (22%)
- Colon and rectum: 52,980 (9%)
- Pancreas: 48,220 (8%)
- Breast: 44,130 (7%)
- Other: 331,360 (54%)

# What is cancer?

- Not a disease – but rather a REACTION, RESPONSE to “life”
- A result of a SLUGGISH DEFENSE SYSTEM
- The result of numerous factors, ESPECIALLY LIFESTYLE choices
- Especially important are
  - DIET
  - ORAL HEALTH
  - TRAUMA
  - HOW YOU MANAGE STRESS
  - EMOTIONS

**CANCER**

**is only a word,  
not a sentence**

# Life Stages – No one is IMMUNE to CANCER



**Infants**

**Children**

**Adolescents**

**Adults**

**Older Adults**

**American Cancer  
Society 2020**

**MEN - 1 in 2**

**WOMEN - 1 in 3**

# Cancer Physiology

The transformation of a normal cell to a tumor cell appears to be dependant on mutations in genes important in integrating extracellular and intracellular signals (i.e. cell growth exceeds death (apoptosis)).

Gene mutations may be inherited (through germ-line mutations - present in egg or sperm) or somatic mutations (acquired).

Begins with oxidative stress on the DNA



# Cancer Physiology

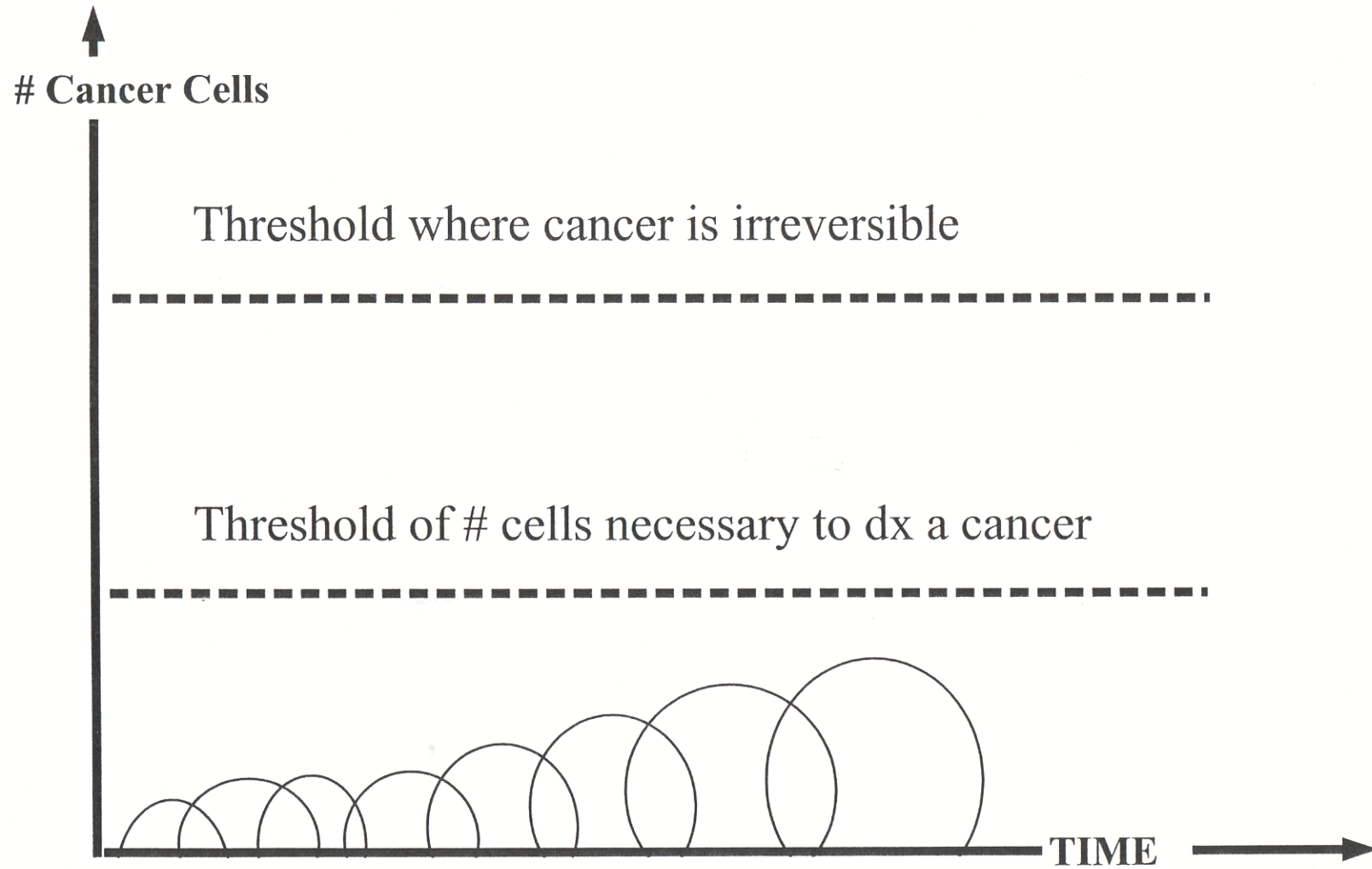
- Free radicals are made inside the body by  $O_2$  combustion. Free radicals help with detox any chemicals and are potent anti-microbials.
- Anti-oxidants (mostly from food) control  $O_2$  reactions. Vitamins C, E, selenium, lipoic acid, B carotene in fruits and vegetables are potent examples.
- Radiation, chemicals, stress hormones and every other carcinogen produce oxidation of DNA, resulting in making a mutant gene
- It takes several specific mutations + changes in the cell so that it won't "kill itself" (apoptosis)
- Cancer cells keep reproducing over and over and over – the malignant cells do not die, even when highly mutated, damaged and very old.

Cancers develop from initial mutations in a single cell, they are by nature monoclonal. The growth from that single mutated cell in adult-onset cancers is typically very slow with a latency of **20-30 years**. During this time a succession of genetic and epigenetic events is required for cancer to develop. The entire process involves [3 stages](#):

**initiation** - the primary genetic mutation in a single cell

**promotion** - those carcinogenic events that complete the neoplastic transformation of the initial mutated cell to a tumor.

**progression** - the later course and continued growth and often metastatic spread.



# Cancer Etiology

## **1. Molecular Mechanisms**

A genetic disease resulting from mutations affecting genes that control normal cell function.

## **2. HOST FACTORS**

1. Heredity
2. Hormones
3. Immune mechanisms

## **3. ENVIRONMENTAL CAUSES**

Chemicals  
Radiation  
Infectious agents

## **4. LIFESTYLE ENVIRONMENT**

Tobacco  
Dietary  
Sexual

## **5. GENERAL ENVIRONMENT**

Occupational  
Health Care exposures  
Air, Water, Soil Exposures

## More Than One Third of Cancer Deaths May Be Attributable to Nine Modifiable Risk Factors

High body mass index  
Low fruit and vegetable intake  
Physical inactivity  
Smoking  
Alcohol use  
Unsafe sex  
Urban air pollution  
Indoor use of solid fuels  
Contaminated injections from healthcare settings  
with hepatitis B or C virus.



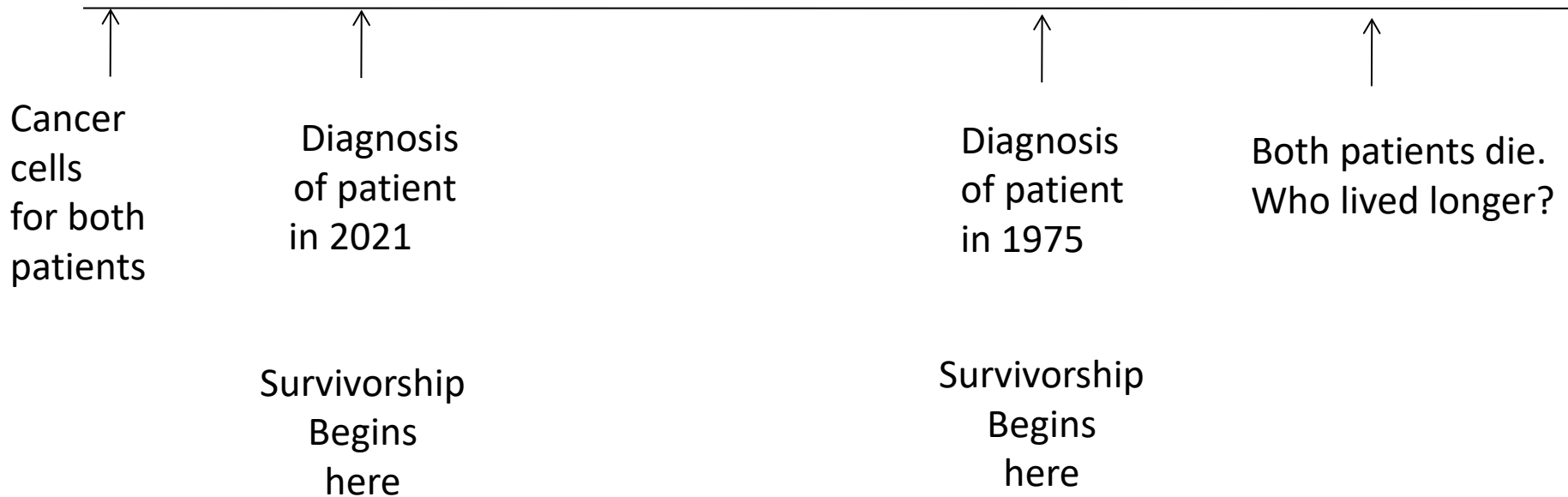
# Cancer Deaths Decreasing (are they?)

Compare these 2 patients with breast cancer.

In 1975, 5-year survival was 75%

In 2021, 5-year survival is 99% (for localized), 72% for stage 3/4

## Timeline

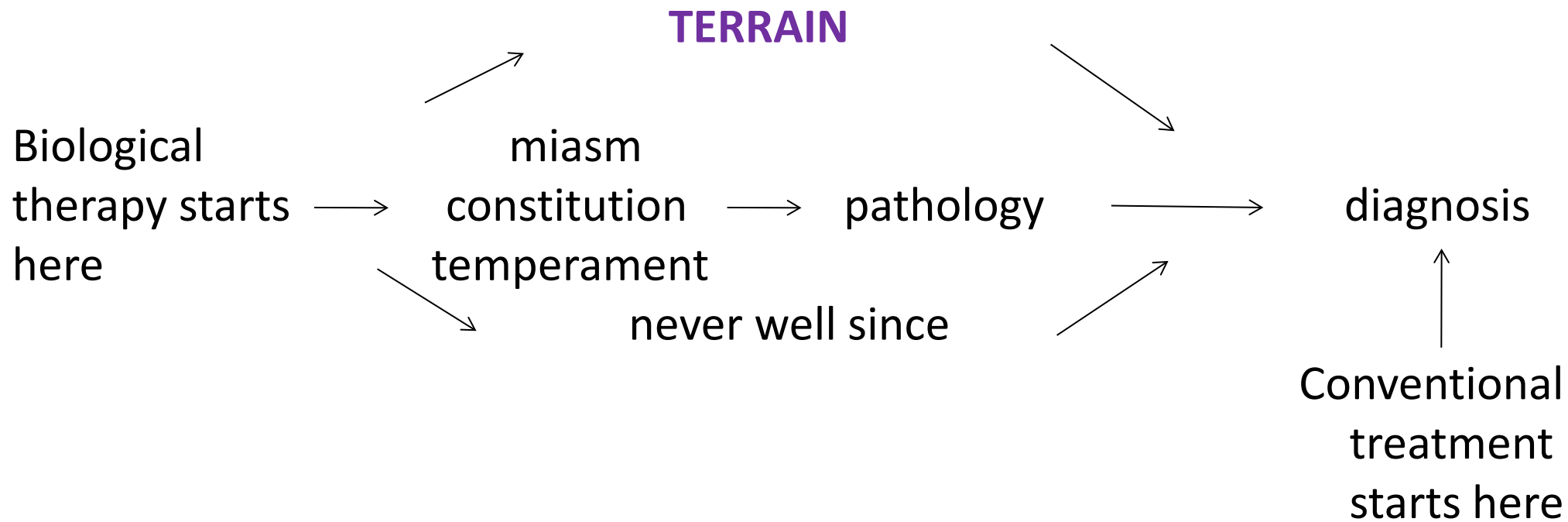


Conventional medicine views colon polyps as early signs of colon cancer, some moles as precursors of skin cancer. But they are unable to prevent cancer, at least from a Biological Medicine understanding of the progression of the disease.

Removal of polyps or suspicious moles leads to the illusion of preventing cancer, but it is a form of suppression that may tend to accelerate the formation of cancer at the same site or in a deeper organ.

Cancer can never be assumed to be a local affliction, even when expressed as a benign tumor. Allopathy considers a tumor as a local affliction at first, which only becomes generalized when it metastasizes (so spreading is considered secondary.)

With conventional medicine, the goal is to diagnose as early as possible (as a local lesion) and then attack it to eradicate it with the strongest measures available (never dealing with the underlying causes).



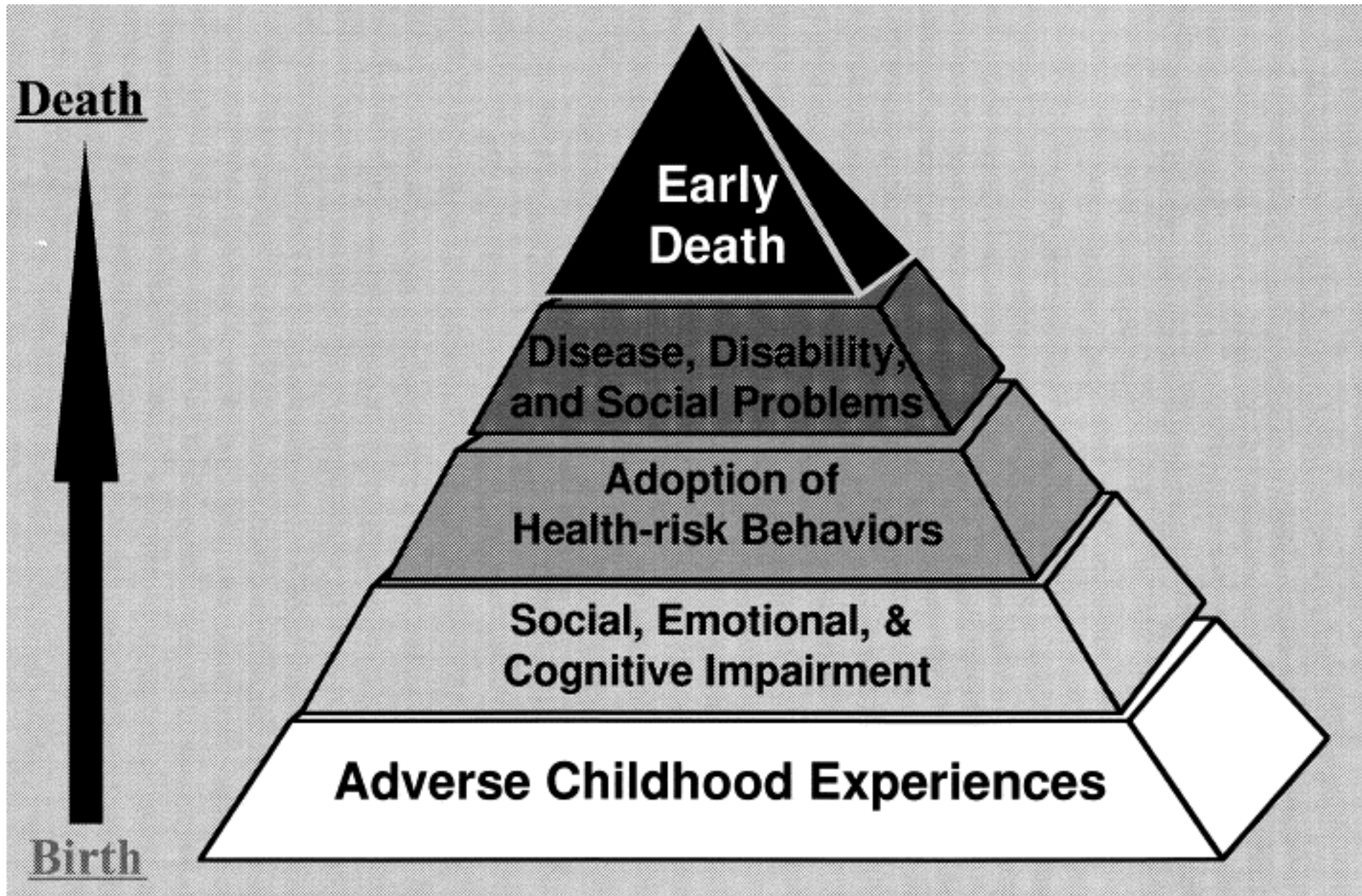
There is no way of proving that a patient did not develop cancer because of early Biological intervention

If you do a timeline of cancer patients, you will often find:

- childhood trauma, emotional losses such as death of a loved one, great loss
- terrain analysis of past medical hx and family hx, is important

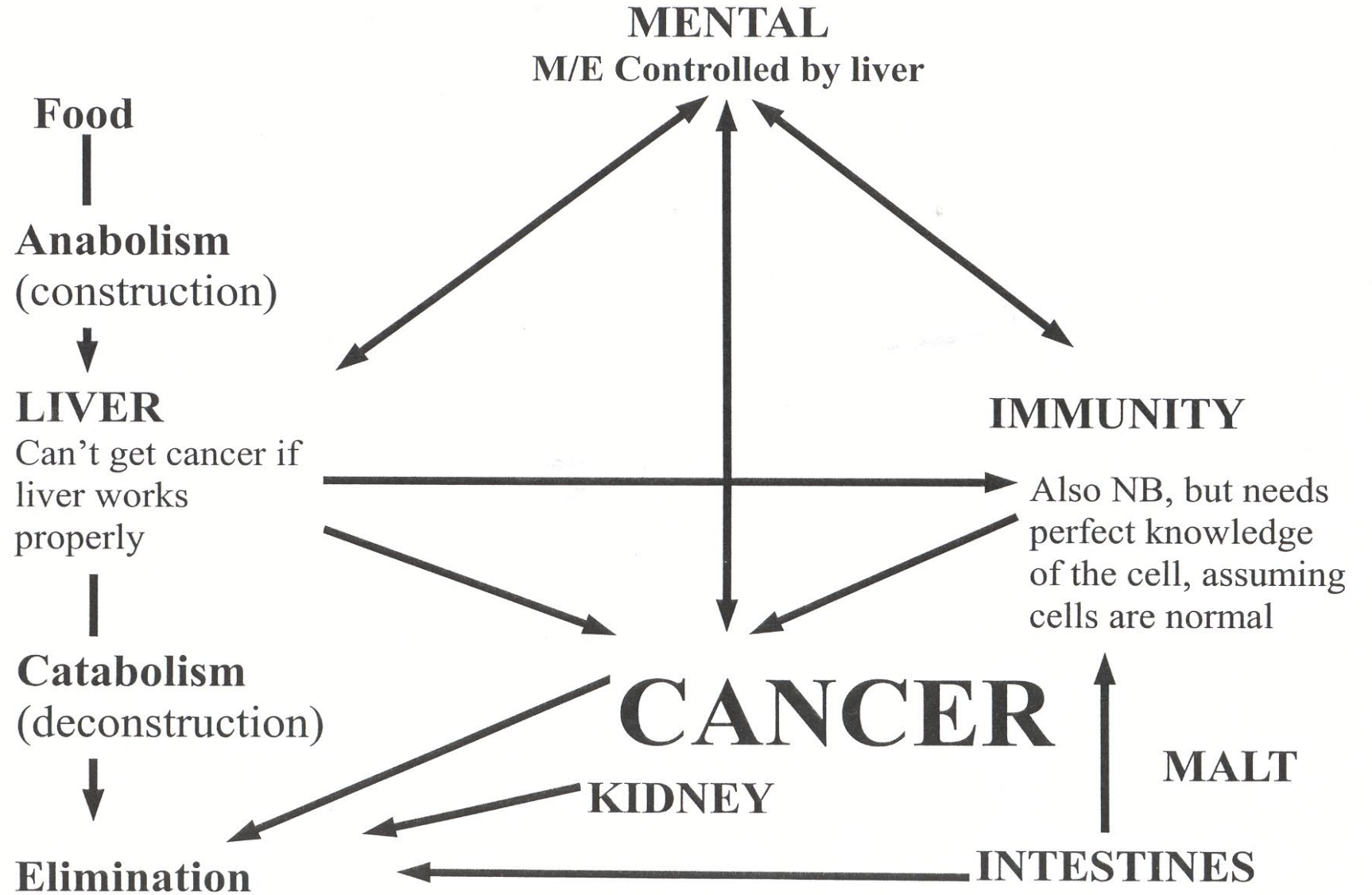
So, you can treat for the trauma before the tumor has developed → this is precancerous prescribing.





The Adverse Childhood Experiences (ACE) Study, *American Journal of Preventive Medicine*; Volume 14, Issue 4, Pages 245-258 (May 1998)

**Prevention  
is the best  
cure**



# Current Cancer Therapies

- Surgery
- Radiation
- Chemotherapy
- Biological and Targeted therapies

## Biological Medicine Primary Strategies

- Detoxify from exposed carcinogens
- Address fears, negative feelings
- Enhance cell-to-cell communication (ECM cleansing)
- Improve terrain (miasm, temperament, constitution)
- Remove promoters such as environmental toxins, dietary issues, toxic emotional stressors
- Support DNA repair
- Control inflammation
- Optimize BMI
- Use synergies of natural therapies
- Support balanced immune function
- Reduce side effects
- Detox from chemo and radiation treatments
- Prevention of recurrence or new cancer formation



**One Size Does Not Fit All!**

**You must individualize any  
treatment to YOUR patient**

# FOOD choices are ESSENTIAL



The primary goal is to minimize the release of **INSULIN**.

Cancer cells take up insulin 4x greater than healthy cells. So, we must focus on “whole” foods” lots of colors, lots of micronutrients.

A proper balance of carbs, protein and FATS.

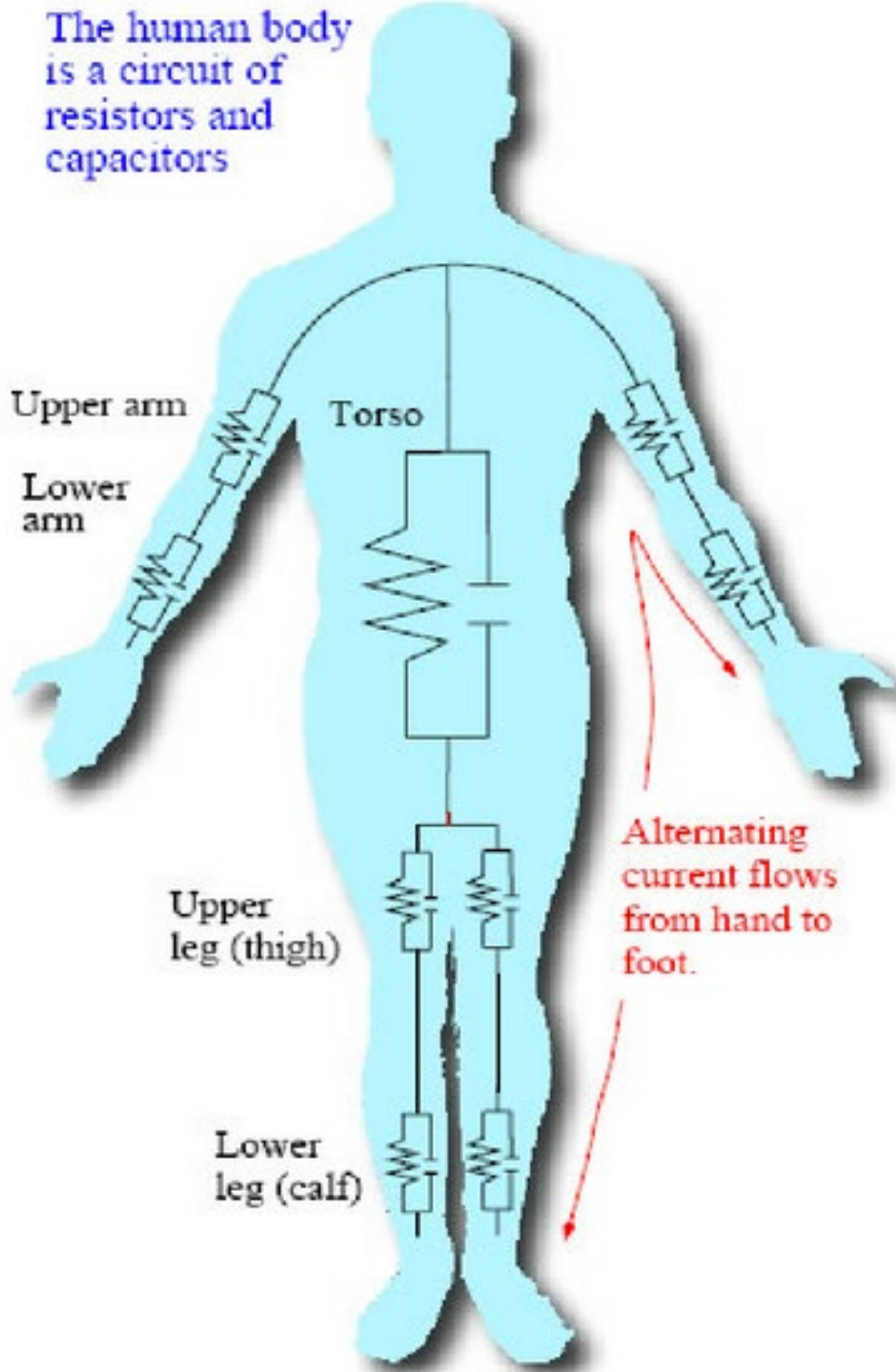
Cancer cells can't metabolize fat.

The body is a large **Electromagnet** that produces electric fields.

- According to Nobel prize winner Otto Warburg, we have cell voltages.
- A **NORMAL** healthy cell has an electrical potential of -70 to -90 millivolts,
- an **AGED** cell at -50 mV to -35 mV, and
- a **CANCER** or **ILL** cell is +15 mV



The human body is a circuit of resistors and capacitors



## Typical Body Resistances and Current Flows

Ear to Ear

$$\frac{110 \text{ Volts}}{100\Omega} = 1.1 \text{ A}$$

Hand to Foot  
500Ω

$$\frac{110 \text{ Volts}}{500\Omega} = 220 \text{ mA}$$

Dry Skin

100,000 to 600,000Ω

$$\frac{110 \text{ Volts}}{100,000\Omega} = 1.1 \text{ mA}$$

Wet Skin  
1,000Ω

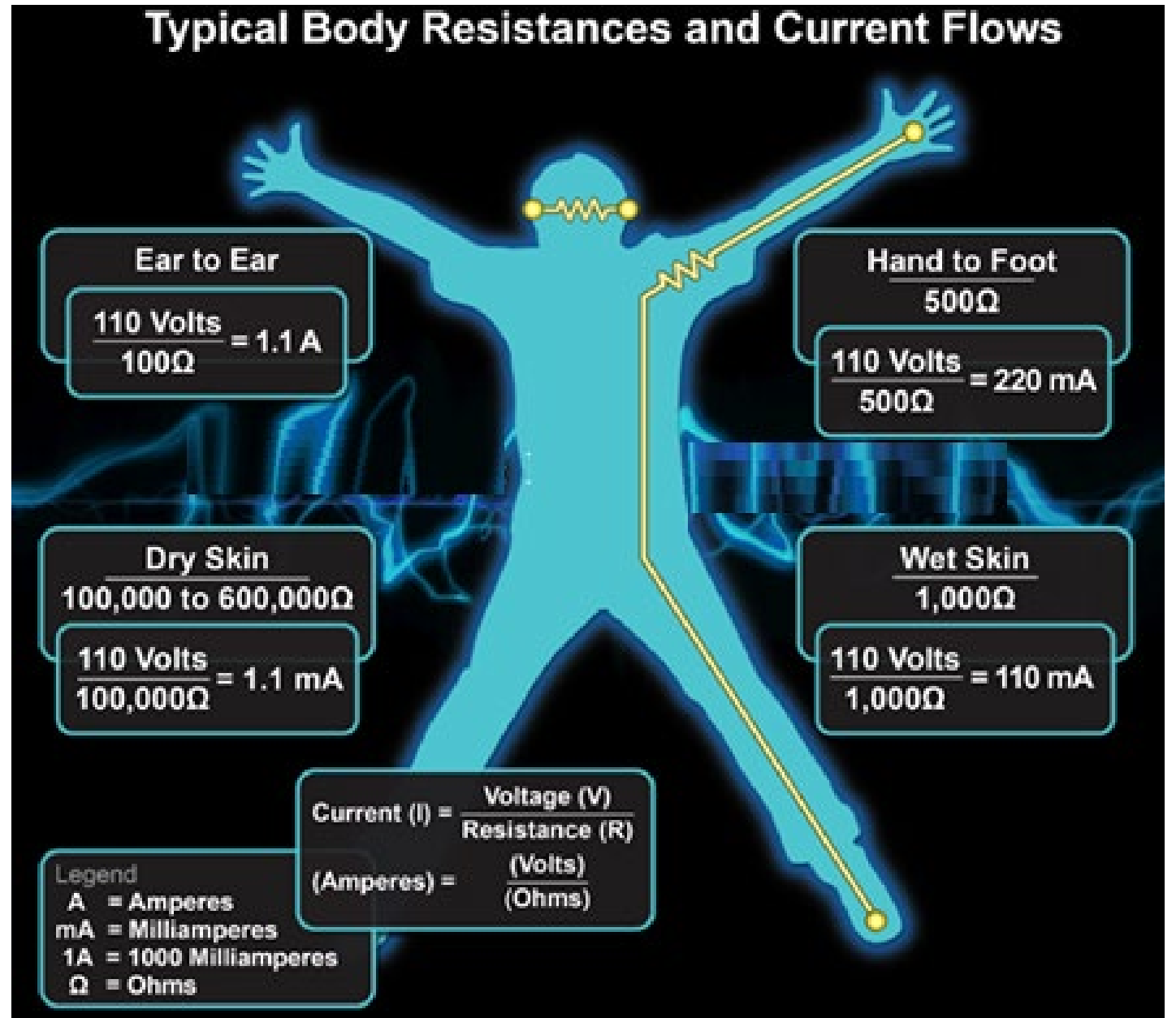
$$\frac{110 \text{ Volts}}{1,000\Omega} = 110 \text{ mA}$$

$$\text{Current (I)} = \frac{\text{Voltage (V)}}{\text{Resistance (R)}}$$

$$\text{(Amperes)} = \frac{\text{(Volts)}}{\text{(Ohms)}}$$

Legend

A = Amperes  
mA = Milliamperes  
1A = 1000 Milliamperes  
Ω = Ohms



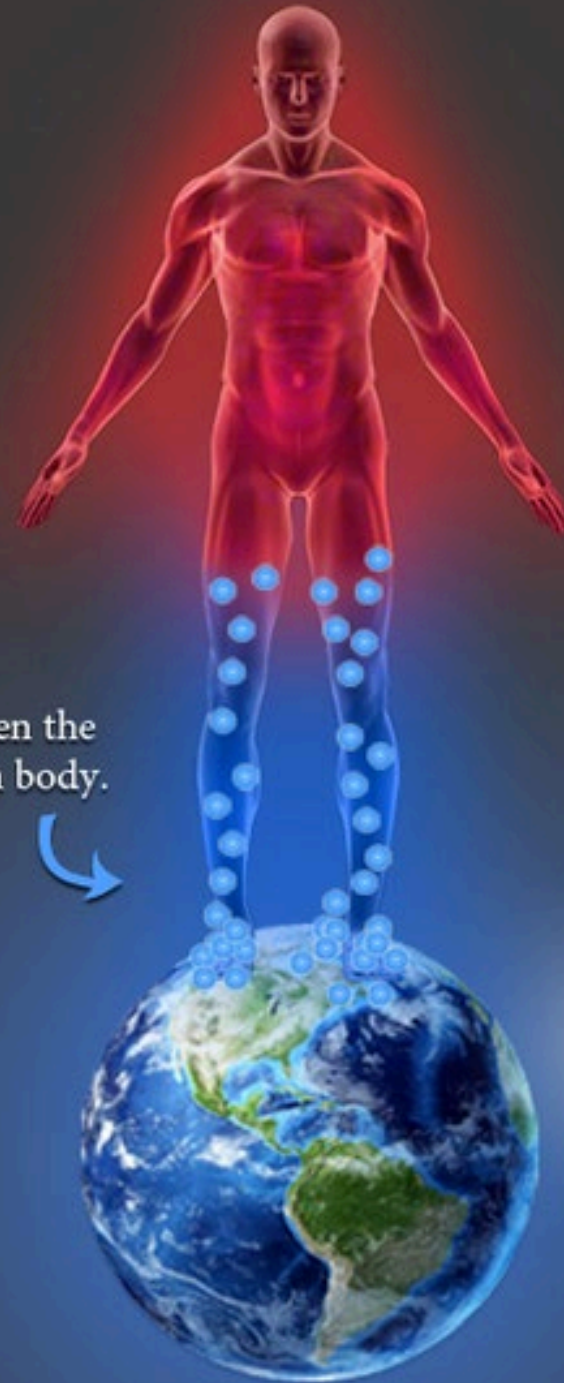


## Atomic Structure of the Body



Adding **Electrons**

Electrons moving freely between the Earth and the grounded human body.





**IV Therapy**

- Micronutrients
- High dose vitamin C
- Ozone
- others



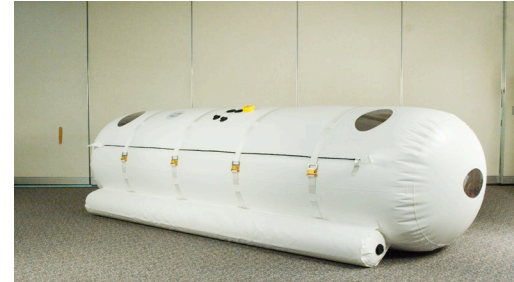


**Cancer cells do NOT survive in a high OXYGEN environment**

# What's Extreme O<sub>2</sub> ?

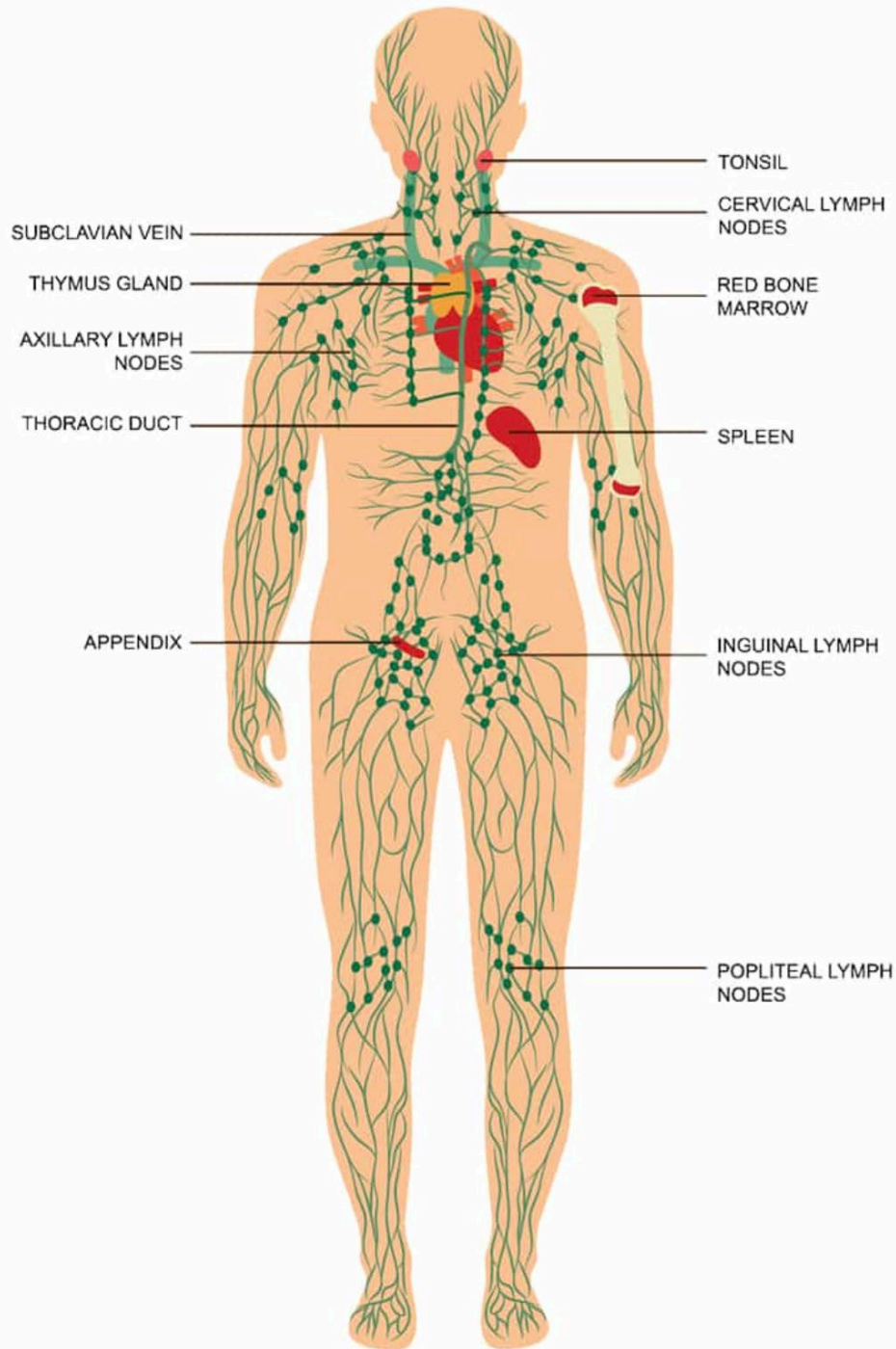


Hyperbaric  
1.6x PO<sub>2</sub>

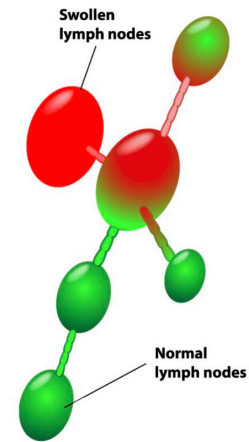
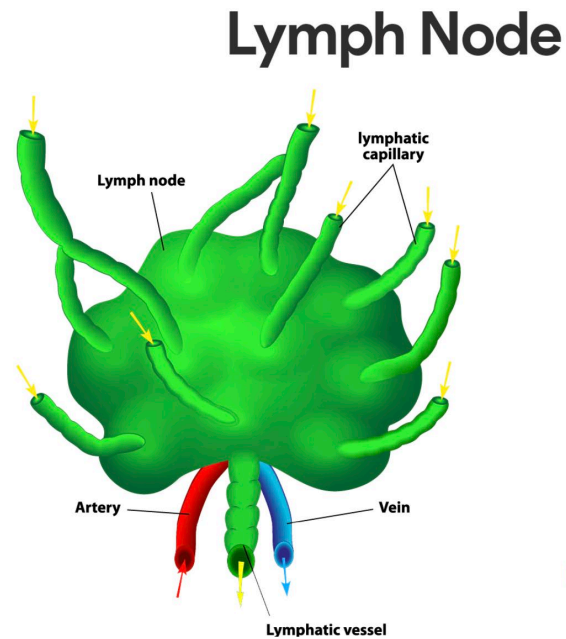
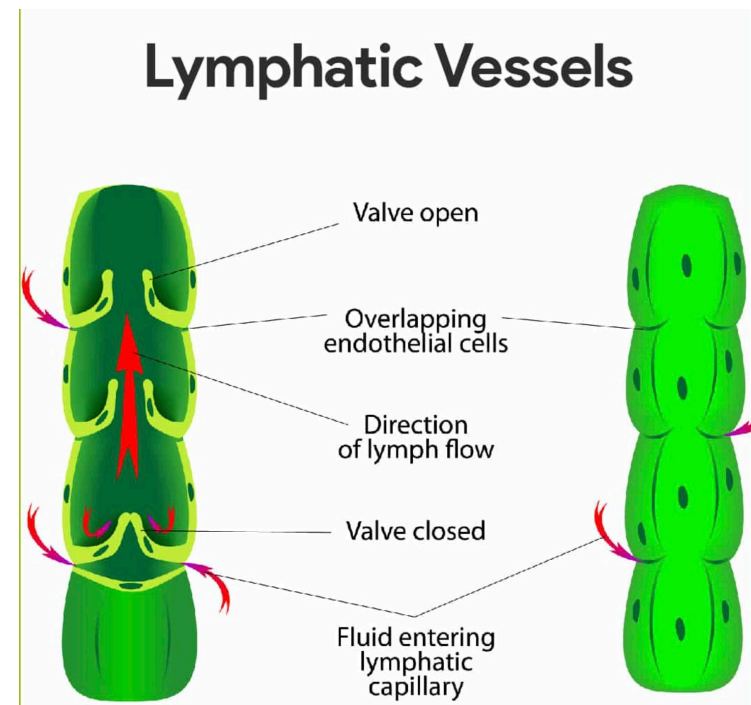


Extreme  
Oxygen  
+20x PO<sub>2</sub>





**Lymph stagnation is virtually universal in cancer patients**



**REMEMBER -**

**CANCER**

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**not a sentence**

# Questions?

## **DISCLAIMER**

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