

P.S.

You have
CANCER

My First Death

What is Fairness?

1 in

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One in One Hundred Septendecillion

The Six Hallmarks of Cancer

- **Uncontrolled Growth:** Mutated RAS/MYC genes drive endless division.
- **Evading Cell Death:** p53 mutations disable apoptosis, letting cells persist.
- **Ignoring Suppressors:** RB1 brakes fail, growth goes unchecked.
- **Hijacking Blood Supply:** VEGF triggers new vessels to fuel tumors.
- **Invading & Spreading:** Shape shifts, breaches barriers, metastasizes.
- **Immortality:** Telomerase resets clock for infinite replication.

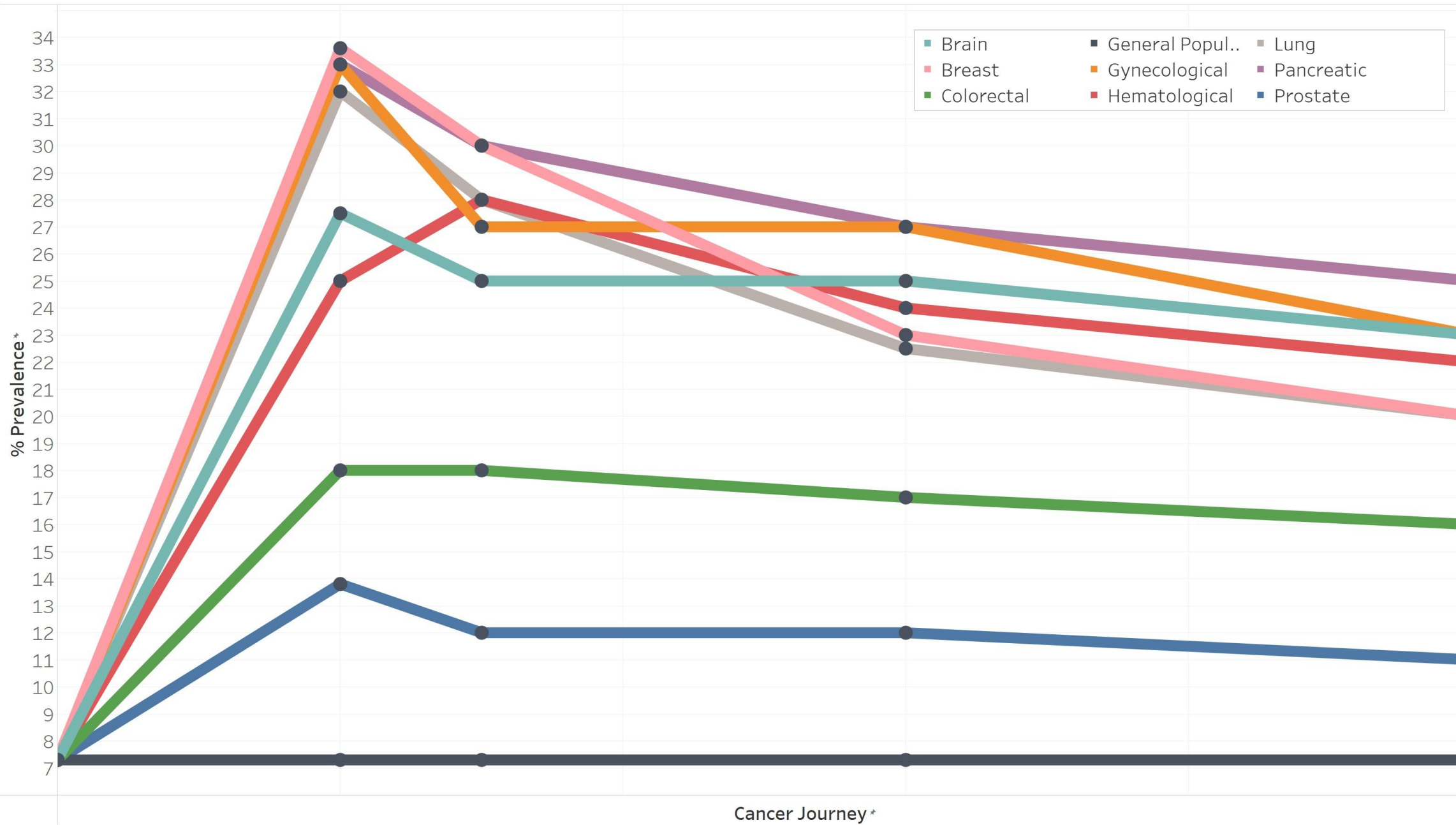
Breaking Bad News: The Empathy Gap

- **Challenge:** 10-15% of visits involve bad news; 30% feel rushed, cold.
- **Time Crunch:** Avg. visit 15 min; 1 in 3 patients lack adequate time.
- **Barriers:** 20% face language issues; 30% skip appts if unheard.
- **Empathy Stats:**
 - 62% of docs aim for empathy; only 45% of patients feel it.
 - Empathy boosts med adherence 20%, cuts anxiety 25%.
- **Impact:** Unheard patients 40% less trusting; 25% better coping with empathy.
- **Tech Twist:** 20% of visits & bad news via telehealth; 15% less satisfying.
- **Takeaway:** Docs need sharper skills—time & empathy matter.

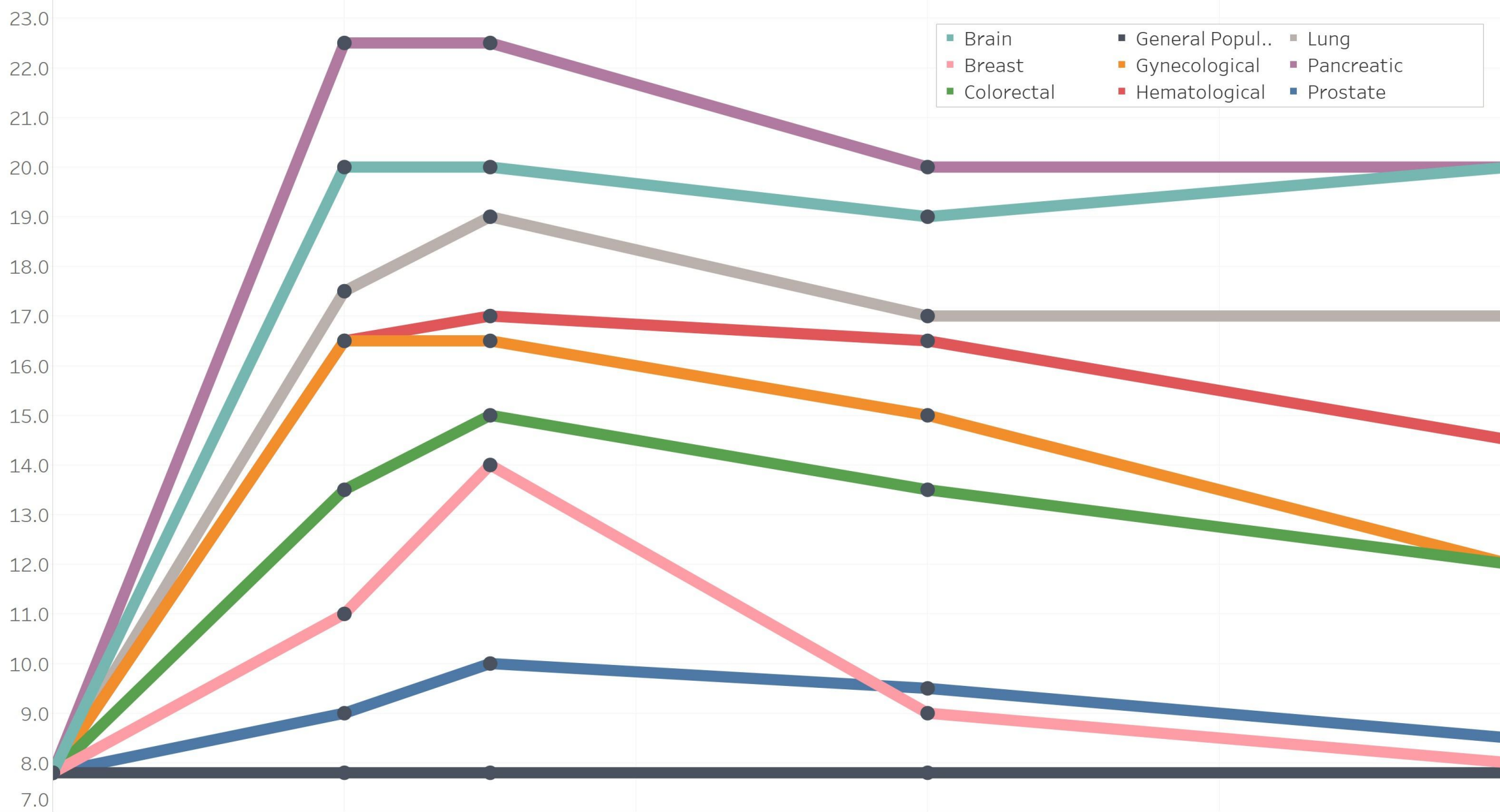
Denial
Anger
Bargaining
Depression
Acceptance

Treatment	Usage	Purpose	Common S.E.
Surgery	60%	Removes localized tumors	Pain, infection, scarring
Chemotherapy	55%	Kills fast-dividing cells	Fatigue, nausea, hair loss
Radiation (XRT)	50%	Shrinks/kills tumors	Skin irritation, fatigue
Immunotherapy	15-20%	Boosts immune attack	Rash, fever, inflammation
Targeted Therapy	25%	Hits specific cell markers	Diarrhea, rash, liver issues
Stem Cell	5-10%	Replace marrow	Infections, rejection, nausea
Hormone Therapy	20%	Blocks growth hormones	Hot flashes, bone thinning
Clinical Trials	5%	Tests new options	Varies by treatment

ANXIETY PREVALENCE



DEPRESSION PREVALENCE



Cancer Journey *

Fatigue: Cancer vs. Depressive

- **Normal Cancer Fatigue:**
 - Affects 90% of patients; multifactorial (cancer, treatment, sleep, nutrition).
 - Persistent, varies in intensity, worsens daily, improves with rest.
- **Depressive Fatigue:**
 - More profound, pervasive; no relief from rest.
 - Tied to mental exhaustion, lack of motivation (e.g., hygiene, rising).
- **Detection Key:**
 - Hopelessness + no rest benefit = depression, not just cancer fatigue.
- **Challenge:** Treatment balances energy vs. anxiety/appetite loss.

Weight Loss: Cancer vs. Depression

- **Cancer-Related Weight Loss:**
 - Affects 50% (cachexia); average 10% loss, worse in GI cancers.
 - Driven by metabolism (tumor growth), appetite loss, nausea.
 - Gradual, tied to identity loss; treatments add fat, not muscle.
- **Depressive Weight Loss:**
 - From reduced appetite, self-neglect, lack of food interest.
 - Slower, not linked to cancer's physical effects (e.g., inflammation).
- **Detection Key:**
 - No physical cause + despair = depression, not just cancer.

Sleep Disturbances: Cancer vs. Depression

- **Cancer-Related Sleep Issues:**
 - Affects 60% of patients (vs. 20% general population).
 - Tied to pain, treatment, meds, anxiety; worsens with chemo cycles.
- **Depressive Sleep Issues:**
 - Insomnia or hypersomnia; unrefreshed despite sleep.
 - Linked to guilt, hopelessness, sadness.
- **Detection Key:**
 - Mood-driven (despair/guilt) = depression, not just cancer effects.
- **Challenge:** Treatment balances sleep vs. energy/mental clarity.

Mood and Affect: Cancer vs. Depression

- **Cancer-Related Mood Changes:**
 - Affects 55% during treatment; tied to diagnosis/treatment stress.
 - Situational mood swings, irritability, sadness; not pervasive.
- **Depressive Mood:**
 - Persistent (2+ weeks), with anhedonia, hopelessness, guilt.
 - Impacts all life areas (relationships, work, self-care).
- **Detection Key:**
 - Long-lasting, pervasive low mood + functional loss = depression.
- **Focus:** Distinguish transient distress from clinical condition.

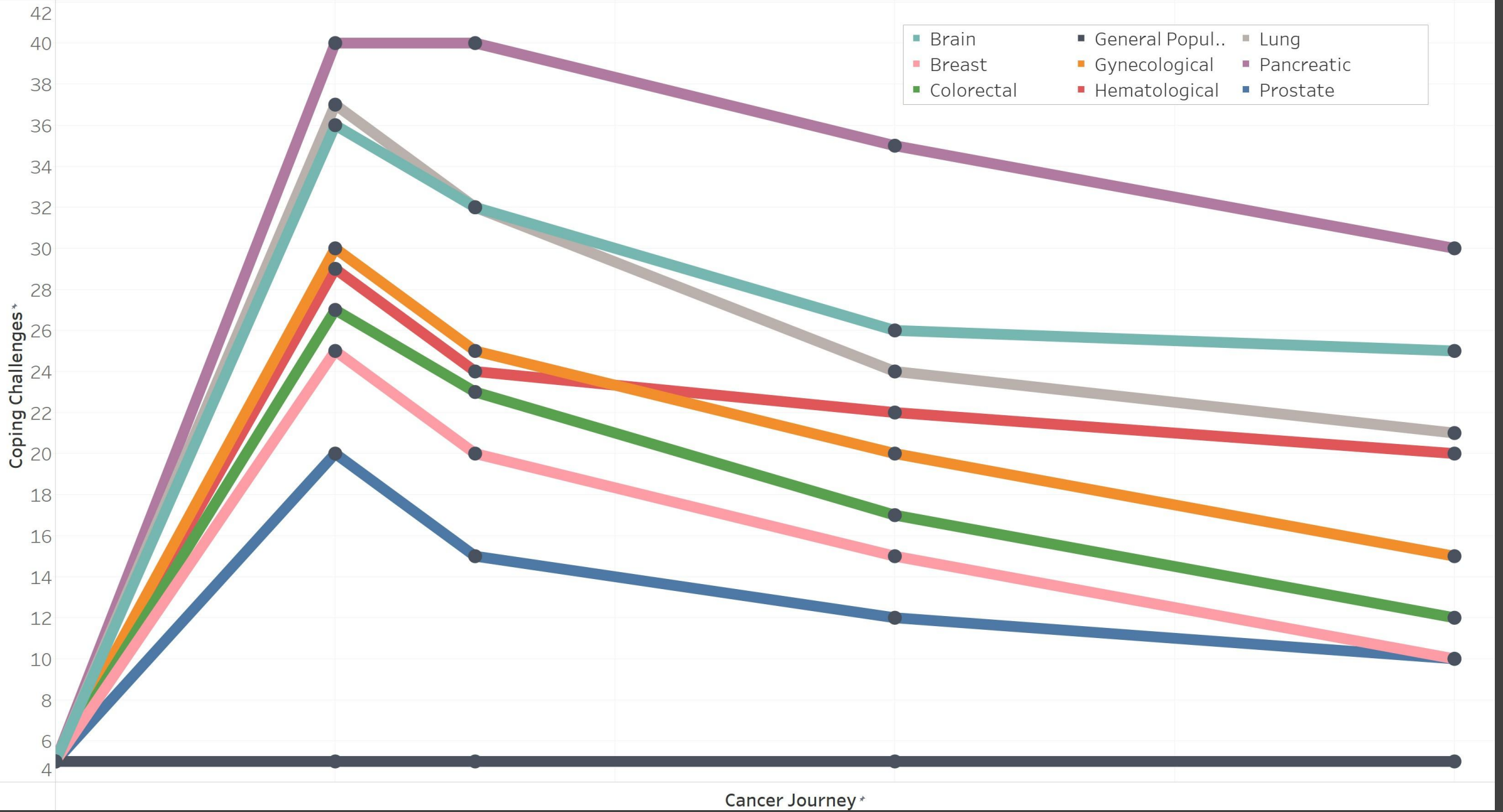
Pain: Cancer vs. Depression

- **Cancer-Related Pain:**
 - 50% at diagnosis; 80% during treatment; varies by type/location.
 - 50% undertreated (elderly, low-income, minorities hit hardest).
- **Depression-Related Pain:**
 - Diffuse, nagging; not tied to tumor site.
 - Unresponsive to typical pain relief.
- **Detection Key:**
 - Localized, tumor-linked = cancer; vague + sadness = depression.
- **Challenge:** Complex treatment needs time, expertise beyond simple meds.

Cognitive Changes: Chemo vs. Depression

- **Chemo Brain (CRCI):**
 - Affects 75% during/after treatment; 30% persist at 5 years.
 - Memory lapses, mental fog; tied to chemo/radiation effects.
- **Depressive Cognitive Changes:**
 - Sluggish thoughts, clouded by pessimism/rumination.
 - Persistent, linked to depressive mood.
- **Detection Key:**
 - Temporary, treatment-timed = chemo brain; ongoing + negativity = depression.
- **Treatment:** Cognitive therapy, activity, sleep, diet, stimulants.

COPING VARIABILITY



Age – Gender – Symptoms –
Cancer Type – Finance –
Social Support – Education –
Culture – Lifestyle –
Healthcare Access – Faith –
Purpose

Symptom Management: Ease the Burden

- **The Challenge:** 50-60% of cancer patients face moderate to severe symptoms at any given time; 30-40% lack proper care.
- **Key Stats:**
 - Pain: 70-80% affected, 40% unrelieved.
 - Fatigue: 90% impacted, 30% supported.
 - Nausea: 30-40% persistent, often untreated.
- **Consequences:** Untreated symptoms increase anxiety by 15%, reduce coping by 20%, and drive 25% to abandon treatment.
- **The Solution:** Early palliative care improves quality of life and survival, addressing the whole person—body and mind.
- **Takeaway:** Proactive symptom relief empowers patients to fight and live well.

Age: A Double-Edged Sword

- **Diagnosis Age:** Average 66; half younger, half older.
- **Younger Patients (<50):**
 - 80% endure aggressive treatments; 70% worry about infertility.
 - 25% report distress over disrupted life plans; 60% face anxiety/depression.
- **Older Patients (>65):**
 - 70% manage comorbidities; only 15% join trials.
 - Emotional resilience higher, but distress often hidden.
- **Impact:** Age shapes physical response, emotional coping, and care needs.
- **Solution:** Tailored support—fertility/career aid for young; comfort focus for older.

Gender: Shaping the Cancer Experience

- **Prevalence:** 50% of men, 33% of women diagnosed in lifetime.
- **Men's Challenges:**
 - 40% avoid sharing emotional distress.
 - 60% face sexual dysfunction, often unaddressed.
- **Women's Struggles:**
 - 60% feel guilt over caregiving roles.
 - 50%+ report body image distress post-mastectomy.
- **Support Trends:** 80% of women vs. 55% of men seek help; women show 25% higher survival in some cancers.
- **Care Approach:** Safe spaces for men; counseling for women on guilt and identity.
- **Key Insight:** Gender-tailored care boosts resilience.

Race & Ethnicity: Addressing Disparities

- **Outcomes Gap:** Black women 40% more likely to die from breast cancer than White women due to late-stage diagnosis.
- **Distress Levels:** 40% of Black patients vs. 30% of White patients report significant distress.
- **Barriers:**
 - Less psychosocial support for Black/Hispanic patients.
 - Black patients twice as likely to mistrust medical system.
 - 31% of Black vs. 17% of White patients struggle with costs.
- **Solutions:**
 - Culturally competent care reduces anxiety/depression.
 - Medicaid expansion cuts uninsured rates by 15-20%.
 - Education builds trust and adherence.
- **Core Need:** Equity in access and support.

Cancer Type: Physical & Emotional Impact

- **Prevalence:** Breast (16%), Prostate (15%), Lung (12%), Colorectal (8%), others vary.
- **Physical Toll:**
 - Lung: 70% report distress from dyspnea; aggressive symptoms.
 - Blood (e.g., Leukemia): Fatigue, infection risk from long treatments.
 - Breast/Prostate: Body image/sexual dysfunction challenges.
- **Emotional Burden:**
 - Metastatic: 40-50% face existential distress.
 - Lung/Liver: Stigma adds guilt, isolation.
 - Early-stage: Anxiety over recurrence.
- **Key Insight:** Type drives unique coping needs—stigma relief, deep support, or hope-building.
- **Care Goal:** Tailor to cancer-specific challenges.

Financial Security: The Hidden Cost of Cancer

- **Cost Reality:** Average treatment >\$100,000; up to \$200,000 for breast/colon cancer.
- **Hardship Stats:**
 - 33% face financial strain; 20% skip meds due to cost.
 - 40% are breadwinners; 42% cut work hours or quit.
- **Impact:**
 - 63% report higher anxiety/depression.
 - 55% see physical health decline from unaffordable care.
- **Solutions:**
 - Aid cuts distress by 50%; counseling boosts satisfaction 60%.
 - Insurance/Medicaid expansion reduces uninsured by 15-20%.
- **Goal:** Ease financial load to enhance healing.

Social Support: Connection vs. Isolation

- **Benefits of Support:**
 - 50% better emotional adjustment with strong networks.
 - Reduced fatigue, pain, and 50% higher survival odds.
- **Cost of Isolation:**
 - 58% of isolated patients report depression/anxiety.
 - 20-30% increased mortality risk; 30-40% more complications.
- **Practical Impact:** Support boosts treatment adherence, cuts distress.
- **Solutions:**
 - Peer groups reduce isolation by 40%.
 - Counseling and trained providers enhance resilience.
- **Core Message:** Strong connections transform outcomes.

Technology: Connection or Isolation?

- **Trend:** 20% of healthcare virtual; 20% of bad news digital.
- **Impact:**
 - 60% report rising loneliness since COVID; 40% of 18-34 feel isolated.
 - 73% of heavy social media users face anxiety/depression.
- **Cancer Effects:**
 - Isolation ups distress 25%, treatment abandonment 40%.
 - Loneliness raises inflammation 20-30%, harming immunity.
- **Challenge:** Digital support lacks depth of in-person connection.
- **Solution:** Balance tech with real-world networks to boost coping.

Geography: Location's Role in Cancer Care

- **Rural Challenges:**
 - 20-40% less timely treatment vs. urban patients.
 - Twice as likely to feel isolated; 50% more likely to delay care.
- **Urban Dynamics:**
 - Better access, but less personalized care amid high volume.
- **Outcomes:** Rural patients face delayed diagnoses, lower survival rates.
- **Solutions:**
 - Telemedicine (up 154% in pandemic) bridges gaps.
 - Transport aid and local centers reduce barriers.
- **Focus:** Location shouldn't limit coping—enhance access and support.

Faith: Strength or Struggle

- **Positive Impact:**
 - 70-80% find comfort and purpose in faith.
 - Spiritual well-being cuts anxiety/depression, boosts quality of life.
- **Physical Benefit:** Faith lowers stress hormones, inflammation.
- **Challenge:**
 - 20-30% face spiritual distress (“Why me?”).
 - Distress can isolate, worsen coping.
- **Support:**
 - Counseling reduces despair in 40% of struggling patients.
 - Chaplains, groups aid resilience.
- **Takeaway:** Integrate faith into care—uplift or heal.

Legacy & Meaning: Purpose in the Fight

- **Strength from Purpose:**
 - 30% better treatment adherence with strong meaning.
 - Up to 47% higher survival rates; 40% less anxiety in terminal cases.
- **Distress Risk:**
 - 25% fear unfulfilled legacy; 50% face depression without meaning.
- **Benefits:**
 - Meaning-making cuts anxiety 70%, boosts well-being 25%.
 - Legacy activities (e.g., letters) ease distress in 63%.
- **Support:** Therapy, groups (60% feel stronger) foster resilience.
- **Essence:** Purpose fuels coping—nurture it.

Caregiver Burnout: Chronic Cancer Care

- **Scale:** 5-6M caregivers for 4.5-6M active patients (beyond 2M new cases; 18.1M survivors).
- **Load:** Avg. 25 hrs/wk; 1 in 3 at full-time hours.
- **Impact:**
 - 40-70% with depression symptoms; 21% diagnosed.
 - 42% high anxiety (40% in palliative); 23% health decline.
 - 30.5% grief; 28% mental strain; 50% late-stage burden.
- **Support:**
 - Delegate tasks; use respite care (day programs, short stays).
 - Schedule breaks; join support groups (+25% coping).
 - Set boundaries; prioritize rest, nutrition.
 - Learn cancer facts; seek counseling, financial aid, flex work, community help.

Cancer's Real-World Fallout

- **Scope:** 4.5-6M active patients (2M new cases; 18.1M survivors).
- **Strain:**
 - 21% report marital issues; 6% higher divorce rate (20% women vs. 3% men).
 - 25% families face conflict; 40% of 5-6M caregivers note stress.
 - 13% lose jobs (23.7 hrs/wk care); 42% hit financial ruin.
- **Support:**
 - Counseling cuts marital strain 15%.
 - Family check-ins reduce conflict 30%.
 - FMLA aids 60%; ADA helps 25% keep jobs.
 - Financial planning eases 20% of stress.

What will you be
famous for?