

# AYA Oncology in the 21st Century: Psychosocial Context

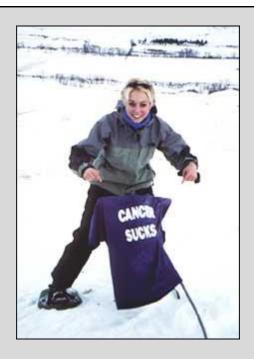
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### **Disclosures**

No financial relationship(s) or conflicts of interest to disclose





### But Medicaid does...



President Clinton signs Omnibus Budget Reconciliation Act (OBRA), August 10, 1993



"Medicaid Auctions"

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## Estate Recovery, as per OBRA



President Clinton signs Omnibus Budget Reconciliation Act (OBRA), August 10, 1993

- States <u>must</u> recover Medicaid benefits paid on behalf of an enrollee for nursing facility services, home and community based services, and related hospital and prescription drug services
- Action by state government to collect money from the estate of a deceased Medicaid patient (over age 55 yrs)
- Allows pre-death liens (claims) on income and assets, tacking interest onto past-due debts, limiting hardship waivers; collection and sale of personal property; can claim estate benefits from deceased patients

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## Financial Impact of Cancer is a PROBLEM

Among 9.5 million people diagnosed with cancer in the U.S. between 2000 to 2012:

- 42% drained their financial assets within 2 years
- Across the population, the average patient experienced a loss of \$92,098.

(Gilligan et al., 2018)

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# What are the Causes of "Cancer-Related Financial Toxicity"





Costs of Care

Contents lists available at ScienceDirect

#### **EClinical Medicine**

journal homepage: https://www.journals.elsevier.com/eclinicalmedicine



TheLancet.com,

January, 2020

#### Commentary

Financial toxicity of cancer treatment: Moving the discussion from acknowledgement of the problem to identifying solutions

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Moving from problem to solution means putting the problem into context

Financial Toxicity is NOT a clinical issue

Financial Toxicity is a population health and social issue



# AYA in the USA: Population Health and Social Context

Brad Zebrack, PhD, MSW, MPH



### Nature 554, (2018)



### Adolescence science must grow up

Young people get a raw deal from society. Targeted study and approaches as part of a new global effort are urgently needed to help them.

The journals Last Walon wrote that now and adolescence are the only problems that disapport if guored for long enough, when only problems that disapport are journed for long enough, when adolescence has been ginored for too long. That needs to change. This week, Nature and the Nature journals try to point the way, to dier support to those living through at sool eminimalerstood plans and the contract of the support of the point position of the minimalerstood plans collections adolescence, we examine the complexity and promise of collections adolescence, we examine the complexity and promise of collections adolescence, we examine the complexity and promise of collections adolescence, we examine the complexity and promise to collections adolescence, we examine the complexity and promise to the contract and encountered the needs as never been greater 10–24 years olds move made up a record 25% of the global population, in rish societies— a record to Calche about the efficiency and the contract of the collections and trained and occurric behaviour. It's worth remembering that both childhood and

can trace ractors inculuing mortality, stutting and vacicitation race. Next, society needs to be intelligent about interventions and programmes for young people. More-instroned and thoughful approached are needed to study and address cognitive and social changes the happen during adolessence, and to design effective interventions. Thingut of adolescents themselves its crucial here no scientific programm

searchers know about children and adults. They need major efforts to tudy the development of adolescents, and their thinking and challenges. Take HIV: despite tremendous progress in their age groups, the virus remains one of the dolescents main killers and causes of disability in adoles

- "Snow and adolescence are the only problems that disappear if ignored for long enough."
- More informed and thoughtful approaches are needed to study and address cognitive and social changes that happen during adolescence, and to design effective interventions.
- Interventions must be informed by EVIDENCE of the world around us

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Psychosocial
Growth &
Development

Cancer Care

Understanding the behavioral, social, and environmental context of AYAs' lives is critical for delivery of cancer care

Adherence to or completion of therapy
Symptom-management
Doctor-Patient Relationship
Clinical trials recruitment and retention
Quality of Life

### Developmental Tasks of Adolescence / Young Adulthood

- · Establishing independence
- Forming identity, becoming comfortable with who you are
- Relationships (friends, family, love)
- Beginning own family
- · Jobs and careers
- · Finding their place in the world
- · Making choices

Arnett, 2000



Millennials (1981-1997) Taylor Swift



Jaden Smith



Gen Z (1998-2020) Yara Shahidi

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Perspectives

Against a Singular Message of Distinctness: Challenging Dominant Representations of Adolescents and Young Adults in Oncology

Chad Hammond, PhD

"AYAs around the world face increasing vulnerability and ambiguity in their daily lives"

"Developmental pathways are interlinked with social and material conditions of life"



AYA in the 21st Century
The Millennial / Gen Z Experience

Changing Timelines for Developmental Tasks

AYA Experience and Cancer Care

Gender and Sexual Plurality

Expanding Cultural Diversity

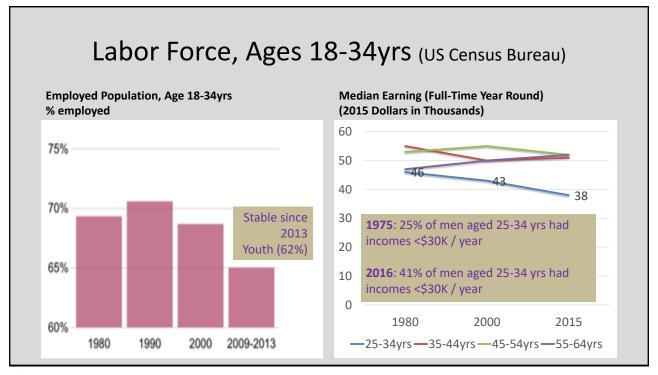
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### 1. Financial and Work Lives

- Lack of stable, secure jobs that utilize educational qualifications or offer sense of work-related identity
- High tuition, unaffordable mortgages, student loan debt
- Fewer non-wage benefits (e.g., health insurance, retirement, paid leave) – "Gig Economy"
- Reductions in social safety nets, public services
  - General Assistance, Food Stamps, Medicaid, Disability benefits contribute to further impoverishment (Edin & Shaefer, 2016)



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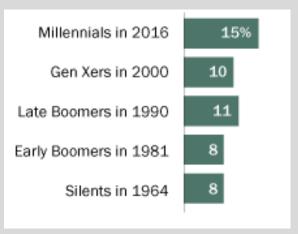
### Hidden story

- Economic opportunities disproportionately located in major cities
  - Those with resources move; those without do not
- High housing costs
  - Average rent/month
    - NYC (\$3432); Los Angeles (\$2546); Chicago (\$1947); San Antonio (\$1039); St. Louis (\$953)
  - Affordable housing not aligned with location of job opportunities
    - ¼ of renters spend 50% of income on housing
    - · Most spend 30-40% of income on housing
- Transportation cost increase (time, distance to work)

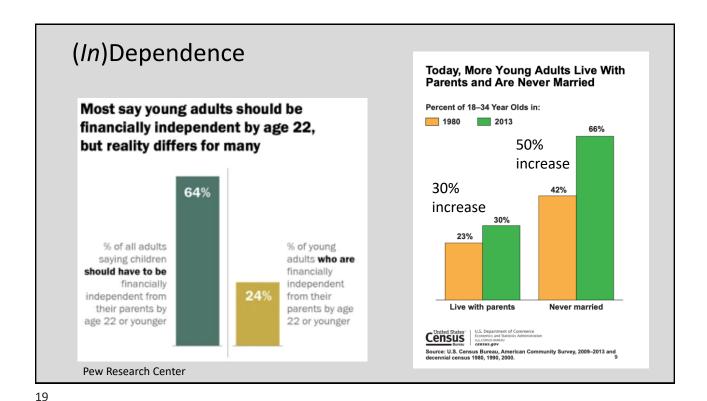
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### 2. Changing AYA Timelines and Priorities

- Economic instability is delaying and deferring dating, marriage, parenthood, employment, independent living
- Deferring "normative" developmental tasks as choice
  - Reinforced by their peers
  - Not experienced as "delays in development" or "psychological regression"



% of 25-35 year olds living in parent(s)' home

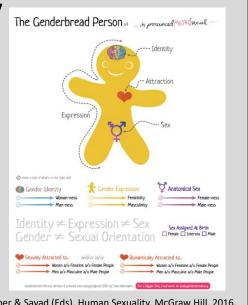


3. Gender and Sexual Plurality

Better understanding of the SCIENCE of human sexuality Sex ≠ Gender

#### Social norms changing

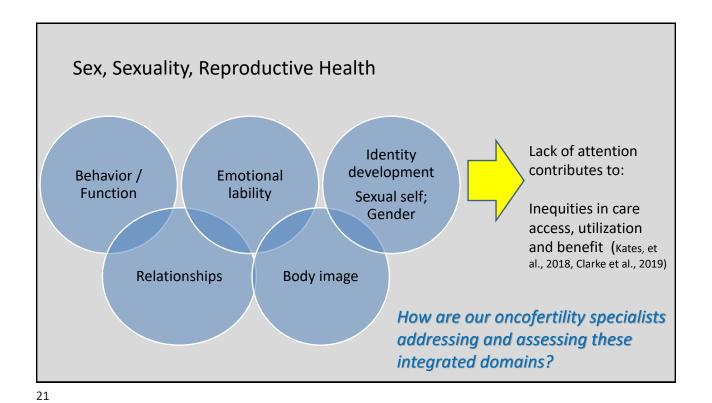
- More open communication and dialogue: sexual attraction, family composition, gender identity
- Yet, active discrimination and violence still exist



Yarber & Sayad (Eds), Human Sexuality, McGraw Hill, 2016.

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9.7%

1850

non-Hispanics who identify with multiple races. Figures may not add to 100% due to rounding.

44% of US citizens 18-34yrs report race as other than non-Hispanic White, US Census Bureau

Note: Ages shown are as of 2017. Members of the Silent Generation were ages 72 to 89 in

2017. Since the Current Population Survey aggregates those ages 85 and older into one category, outcomes for members of the Silent and Greatest generations cannot be separately shown. Whites, blacks and Asians include only single-race non-Hispanics. Hispanics are of any

US Foreign-born share projected to hit record milestone by 2065, Pew Research Center

1965

ACTUAL

1900

4.8

PROJECTED

2015

23

Boomers

Ages 53 to 71 Born 1946-64

Silents/Greatest

Born before 1946

<sup>2</sup>JOURNAL OF ADOLESCENT AND YOUNG ADULT ONCOLOGY Volume 6, Number 1, 2017 © Mary Ann Liebert, Inc. DOI: 10.1089/jayao.2016.0018

Perspectives

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Chad Hammond PhD

#### Why we need Precision Medicine for AYA Care

### **PSYCHOSOCIAL CONTEXT**

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# Consider: Exposures to Emotional Trauma

# Adverse Childhood Experiences (ACEs)

"All types of abuse, neglect, and other potentially traumatic experiences that occur to people under the age of 18."

CDC, 2016



39% adults reported being verbally abused one or more times as a child



27% adults reported having separated or divorced parents

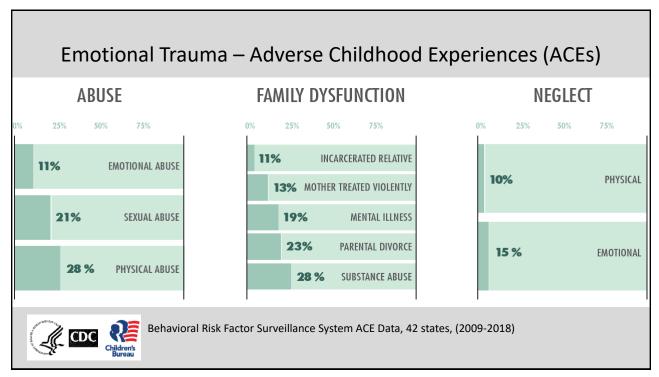


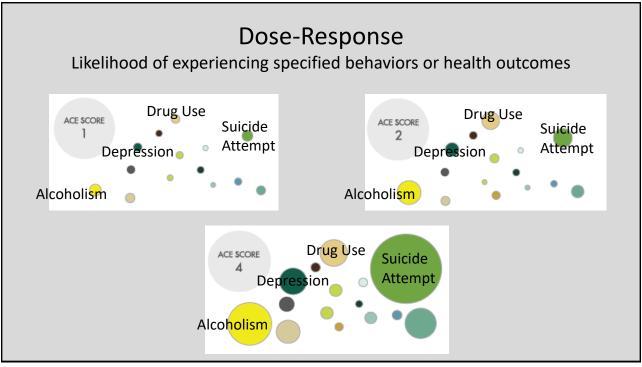
20% adults reported mental illness in their household growing up



19% adults reported witnessing physical violence between adults in their household

2016 Behavioral Risk Factor Survey, State of Michigan data; follow up to CDC Kaiser ACES study; n=17,000 (1995-1997)



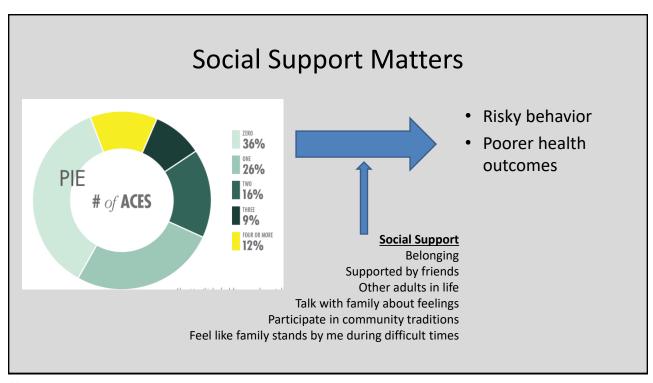


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## Clinical Significance -- Emotional Trauma

- Emotional and behavioral manifestation of childhood trauma exposure may not occur until adolescence or young adulthood
- Manifest as unsafe sexual behavior, drug/alcohol abuse, psychiatric symptoms, suicide, non-adherence to therapy

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# AYA Research & Practice in the 21<sup>st</sup> Century Opportunities and Challenges





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- 1. Are our interventions meeting AYAs' needs and preferences?
  - Most interventions for AYAs delivered during treatment
    - Yet, transition to off-treatment is critical time point
    - Little known about End-of-Life needs
      - 17%-20% mortality rate at 2-5 years post-diagnosis

Walker, Martins, Aldiss, Gibson, & Taylor, 2016

### Are our interventions meeting AYAs' needs and preferences?

- To determine efficacy and effectiveness Consider Precision Medicine:
  - Who are patients "at risk"?
  - Who most likely to benefit?
  - What are optimal modes of intervention delivery (face-to-face; Internet)?
  - Format (individual, peer survivor group, family)?
  - "Dosage" for how long?

Walker, Martins, Aldiss, Gibson, & Taylor, 2016

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# Role for Technology?

#### **PROS**

- 99% Prevalence of Internet Use in AYAs (Pew, 2018)
- Technologically-delivered interventions may be more feasible for AYAs (Rabin, 2013)
- Unmet psychosocial needs are attributable to limited availability of services using telecommunication technologies, (e.g., mobile devices, social media, internet) (Joint Task Force Development of Telepsychology, 2013)

#### CONS

- FOMO (anxiety), worse subjective wellbeing attributable to social media (Kross et al., PLOS One, 2013)
- Greater screen time associated with increased depressive symptoms, suicide risk & reductions in well-being (Twenge et al., 2017)
- Limited use of social media associated with reductions in loneliness and depression (Hunt, et al., 2018)

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# Self-efficacy — Quality of Life

Confidence and competence in performing a given task, or performing within a given domain, such as managing the effects of cancer and its treatment.

A. Bandura

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# Self-efficacy for coping with cancer Merluzzi et al., 2001

- Maintain activity and independence
- Seek and understand medical information
- Stress management
- Cope with treatment-related side effects
- Accept cancer and maintain a positive attitude
- Affect (emotion) regulation
- Seek support

**Intimate relationships** 

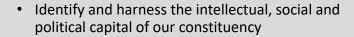
**Family** 

**Neighborhoods / Communities** 

**Nations** 

**Global Trends** 

### **Opportunities Ahead**

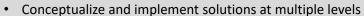








- Engage and foster communication and interaction
  - Scientists (Medical, Social, Behavioral)
  - Clinicians
  - Patients and Families
  - Advocates / Stakeholders



- Patient
- Provider
- System
- Population





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