Social Determinants of Health in Athletic Healthcare

Kelsey J. Picha, PhD, AT

Athletic Training Programs
A.T. Still University

Twitter: @KelseyPicha

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The views expressed in these slides & today's discussion are mine

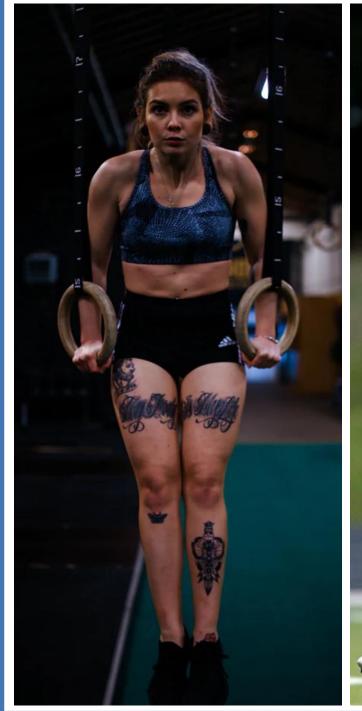
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Objectives

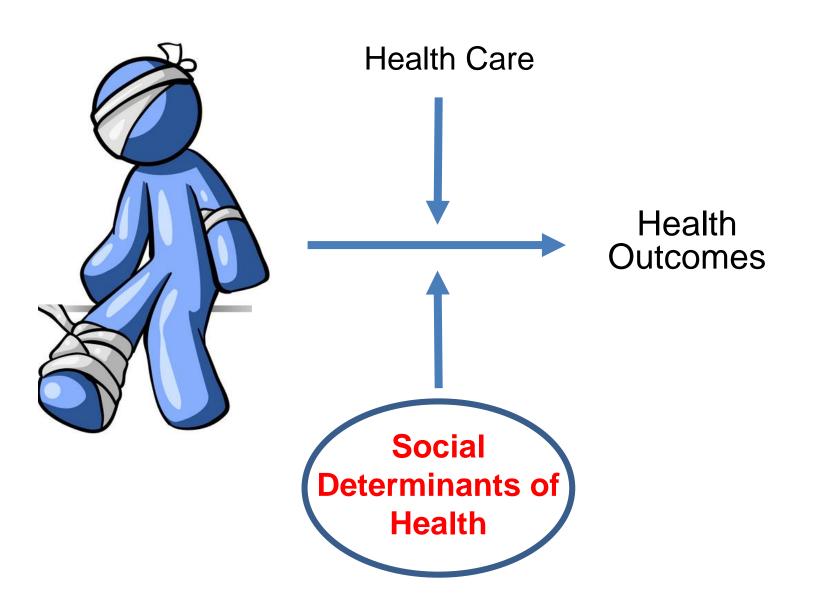
Understand foundational concepts related to social determinants of health

- Explain their value in athletic healthcare & population health
- Appreciate the role of athletic trainers in identifying, evaluating, & intervening when social determinants of health are observed in patients to promote better patient outcomes





Whole Patient Care



What are Social Determinants of Health?

The conditions in which people are born, grow, live, work, and age

They are complex conditions that shape the overall health of an individual on a continuous basis



Influence of Social Factors

Lack
 Education

Limit Job Opportunities

Constrains Income

- Reduces access
 - Healthcare
 - Nutritious food

- Causes stress
- Promotes unhealthy coping behaviors

Creates Hardships



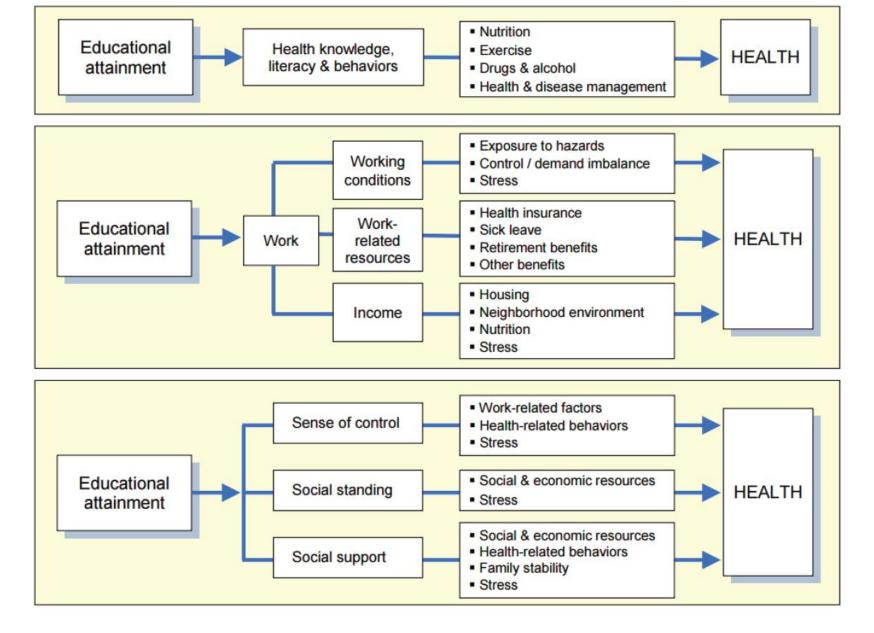
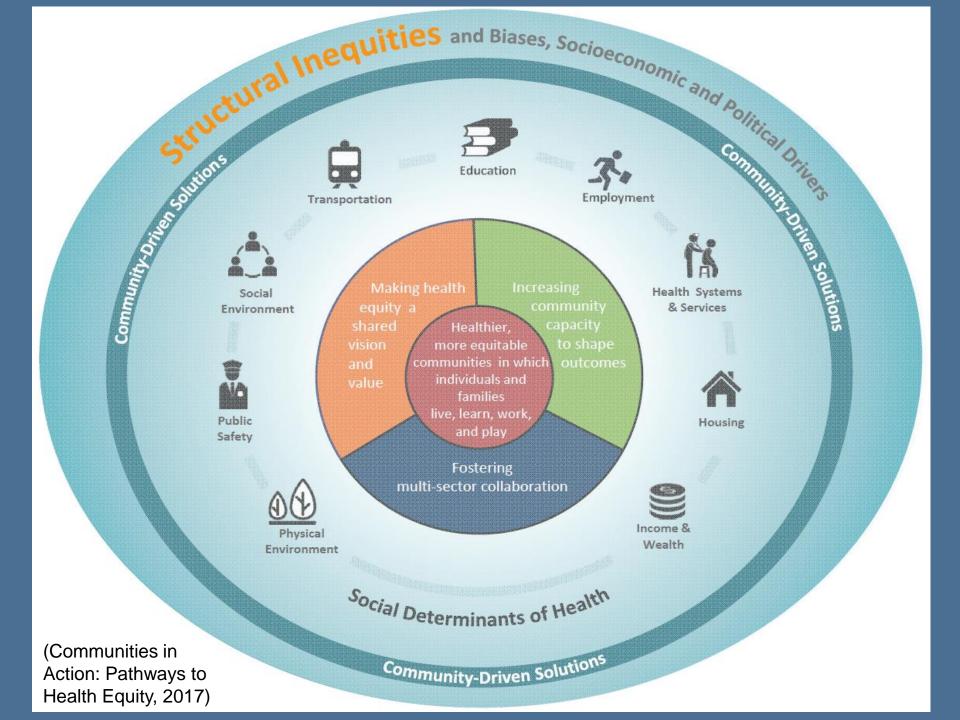


FIGURE 3-6 Pathways through which education can affect health. SOURCE: Egerter et al., 2011b. Used with permission from the Robert Wood ATSU Johnson Foundation.

So what?



(WHO, 2016; Keyes, 2016; NEJM Catalyst, 2017; National Academies of Sciences, Engineering, and Medicine, 2017)



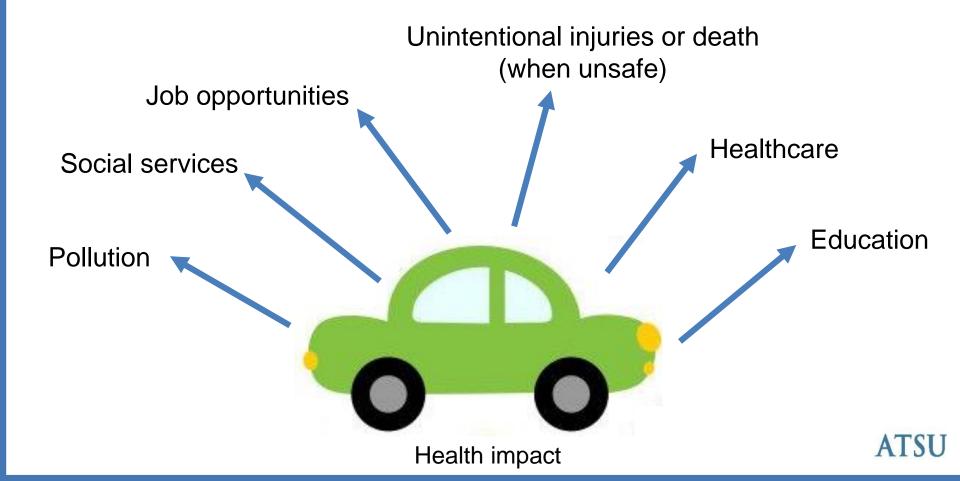
Education

- Access or lack of access to learning opportunities and literacy development
 - Process home, school, community
 - Product collective knowledge, skills, capacity (intellectual, emotional, physical, interactive)



Transportation

 The infrastructure/services for residents to travel from place to place





Housing

- Availability or lack of high quality, safe, affordable housing
 - Density of housing
 - Level of segregation/diversity







Employment

- Level or absence of adequate participation in the workforce
 - Employment, unemployment, underemployment



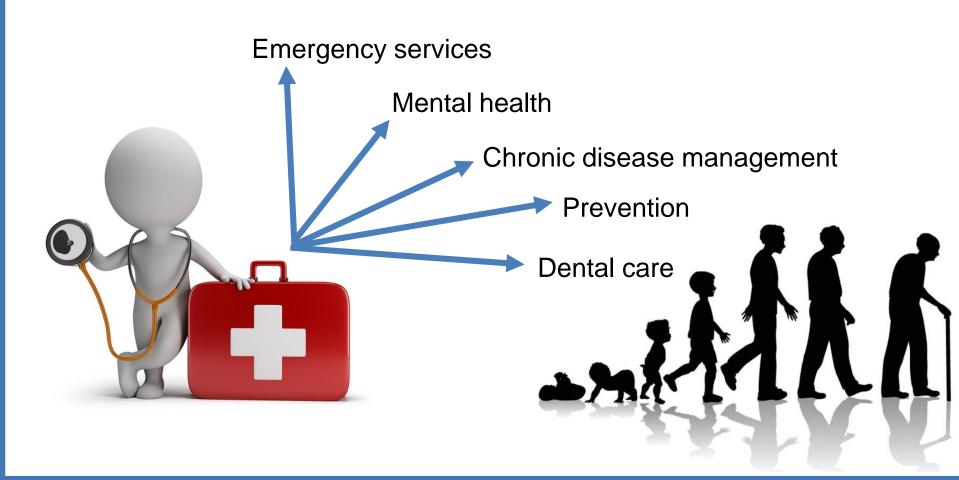
Employment in School-Aged Youth

- Job to support family/self
 - Less time for
 - Homework
 - Friends
 - Physical activity/sport
- Job of parent/guardian
 - Challenges
 - Getting to doctor (busy)
 - No health insurance
 - No funds to play sports

Stress, anxiety, depression, substance abuse

Health Services and Systems

 Access or lack of access to effective, affordable, culturally appropriate healthcare



Income and Wealth

Income

 Yearly earnings from employment, government assistance, retirement/pension, or investments

Wealth

 Measured at a single time point; may provide a more complete picture of a person's economic resources



Physical Environment



The Place

- Physical components and design
- Permitted use of space
- Natural environment

Health impact

- No parks kids less active
- Limited transportation isolation



Public Safety

Protection & safety of general public

Absence of violence in public settings

Role of the justice system

Health Impact

 Intentional use of force that is threatened, actual, or witnessed

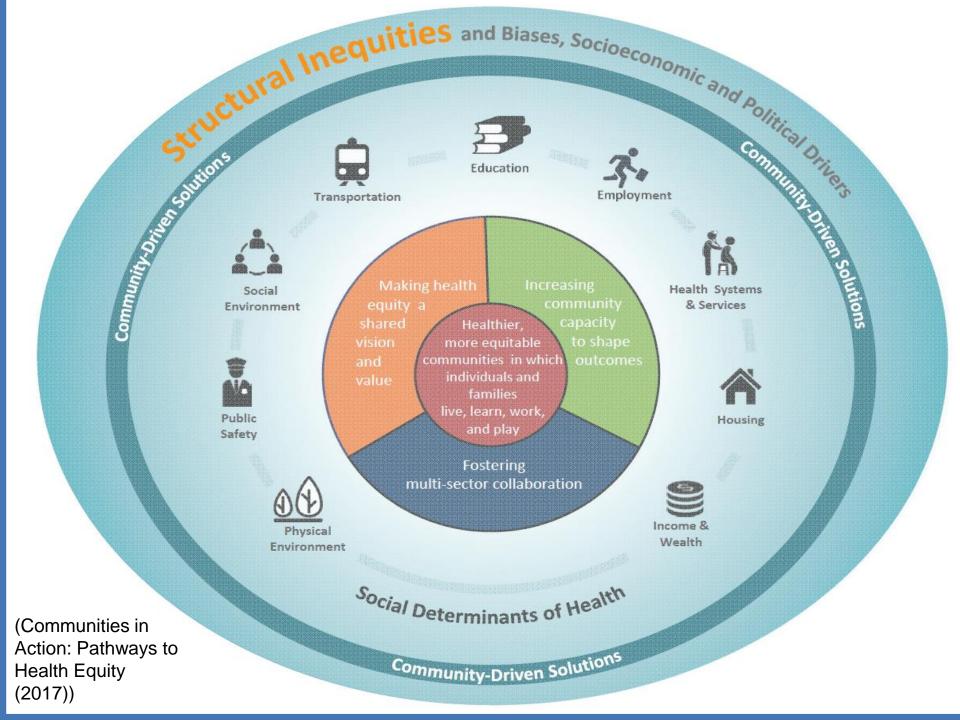
 Leads to risk of injury, death, psychological /emotional harm, trauma



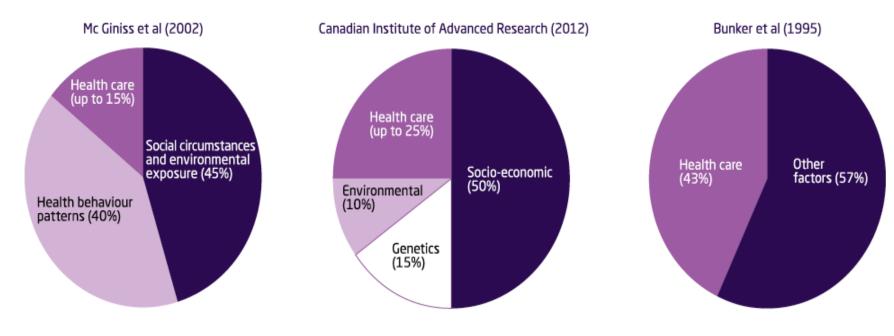
Social Environment

- Interactions of individuals, families, & businesses in a community
 - Ties between them, norms, and culture
 - Social networks, trust, & willingness to act for common good





Why Social Determinants?



Source. Reprinted with permission from the King's Fund.4

FIGURE 1—Estimates of the contribution of the main drivers of health status.

Underlying Cause

- Obesity
- Diabetes
- Heart disease
- Depression

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(Marmot and Allen, 2014 Editorial; NEJM Catalyst)

Reality of Social Factors

 Greater impact on population health than healthcare

- Spending on social services more than healthcare improves population health
 - State with more social services spending outperform others
 - Asthma
 - Diabetes
 - Mental health

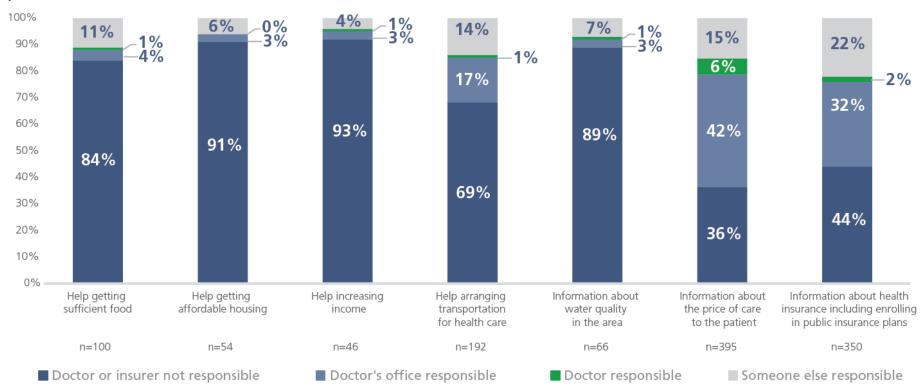
Social factors
matter more
than
healthcare!

"Inequities in power, money, & resources give rise to inequities in the conditions of daily life, which in turn lead to inequities in health."

- Sir Michael Marmot

Who is responsible?

Figure 5: Percent of physicians who believe the following individuals or groups are responsible for helping patients with social needs



Social Determinants of Health in Sport

- Only access to healthcare system is through sport
- Low income areas
 - 3xs higher risk of injury hospitalizations
- Location of residence, participation hours, ethnicity, and BMI are equal predictors of sport injury





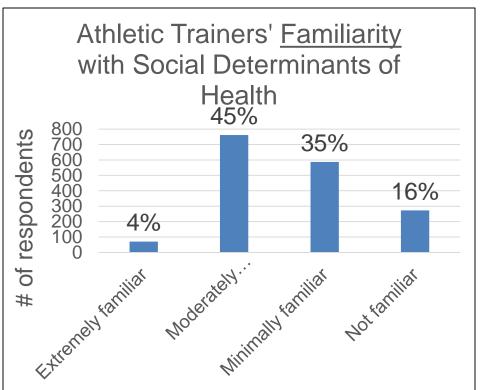
Access to Athletic Trainers

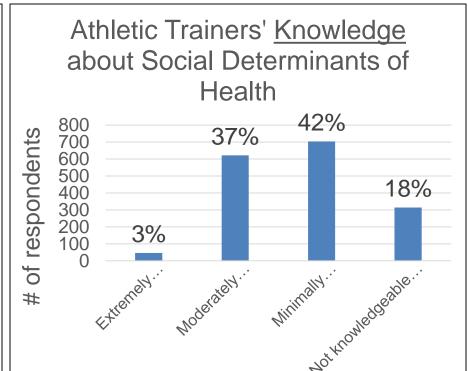


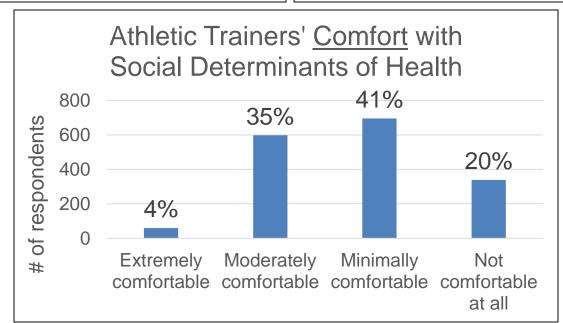
- Schools without an AT had more students eligible for free/reduced-cost lunch & were in counties with lower median household incomes
 - Health systems and services
 - Income & wealth
 - Education

Where do we go from here?



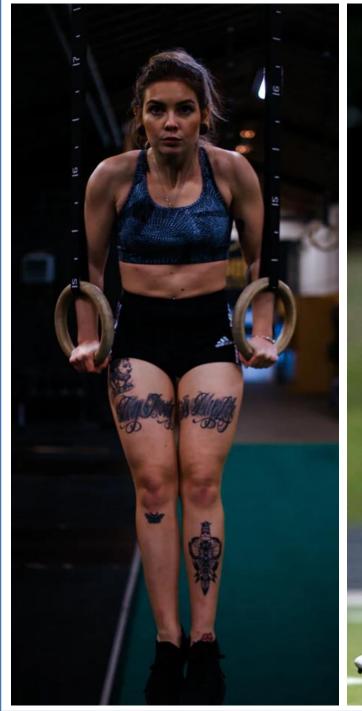






(Picha et al. in preparation)

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What's our role?

- Awareness & advocacy
- Provide social support
 - Connect patients to support resources
- Participate in/promote research related to social determinants of health



Assessment and Identification

- Ask simple questions...
 - How are you doing? Are you stressed out? How are you handling the stress?
- Inquire about social challenges
 - CLEAR Toolkit
 - AAFP Social Needs Screening Tool





No

HOUSING
 Are you worried or concerned that in the next two months you may not have stable housing that you own, rent, or stay in as a part of a household?¹
□ <u>Yes</u>
□ No
2. Think about the place you live. Do you have problems with any of the following? (check all that apply)² Bug infestation Mold Lead paint or pipes Inadequate heat Oven or stove not working No or not working smoke detectors Water leaks None of the above
FOOD
3. Within the past 12 months, you worried that your food would run out before you got money to buy more. Often true Sometimes true Never true
4. Within the past 12 months, the food you bought just didn't last and you didn't have money to get more. ☐ Often true ☐ Sometimes true ☐ Never true
TRANSPORTATION
 Do you put off or neglect going to the doctor because of distance or transportation?¹ Yes



THE **CLEAR** TOOLKIT

Training frontline health workers to ask about and act upon the social causes underlying poor health

EXAMPLE QUESTIONS:

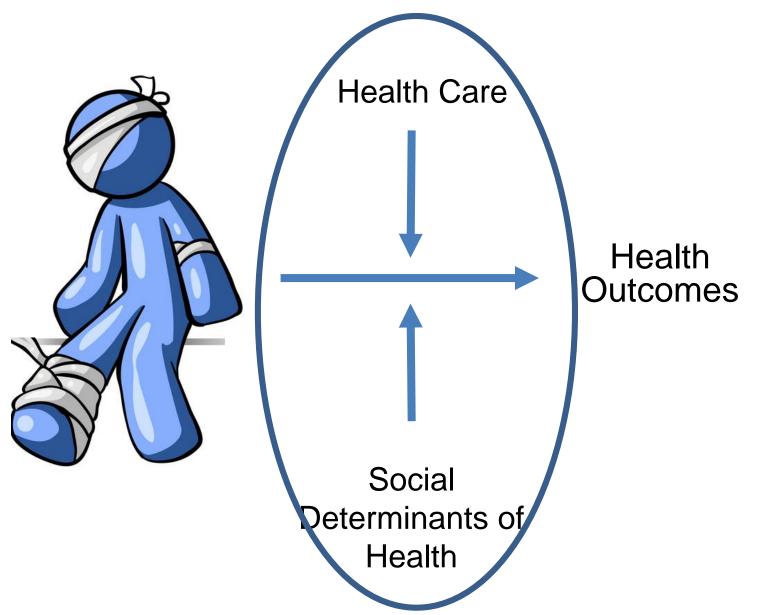
Do household members have stable work with safe working conditions?
Enter question
Who cares for your children while household members are working?
Are school-aged children able to regularly attend school?
s there always enough to eat at home?



Resources

- Institute for Healthcare Improvement
 - http://www.ihi.org/resources/Pages/AudioandVideo/Don-Berwick-National-Forum-Keynote-2018.aspx
- CLEAR Collaboration
 - https://www.mcgill.ca/clear/
- 100 Million Healthier Lives
 - https://100mlives.org/index.html#who
- Purpose Build Communities
 - https://purposebuiltcommunities.org/podcast/
- Arizona Health Care Cost Containment System
 - https://www.azahcccs.gov/PlansProviders/Demographics/

Whole Patient Care



Take Home Messages

- Social determinants of health matter more than healthcare we provide
- Social determinants of health impact population
 & individual health outcomes

- Athletic healthcare is not immune to social factors
 - ** But we can help!! **

Thank you!



Kelsey Picha-kpicha@atsu.edu

References

- Andermann A, Collaboration C. Taking action on the social determinants of health in clinical practice: a framework for health professionals. Can Med Assoc J. 2016; 188(17-18):E474-E483.
- Bostic, R. W., et al. (2012). "Health in all policies: the role of the US Department of Housing and Urban Development and present and future challenges." Health Aff (Millwood) 31(9): 2130-2137.
- Braveman P. Health disparities and health equity: concepts and measurement. Annu Rev Public Health. 2006;27:167-194.
- Braveman P, Gottlieb L. The social determinants of health: it's time to consider the causes of the causes. Public Health Rep. 2014;129 Suppl 2:19-31.
- Braveman P, Egerter S, Williams DR. The social determinants of health: coming of age. Annu Rev Public Health. 2011;32:381-398.
- Garg, A., et al. (2015). "Addressing social determinants of health at well child care visits: a cluster RCT." Pediatrics 135(2): e296-304.
- Hassan, A., et al. (2015). "Improving Social Determinants of Health: Effectiveness of a Web-Based Intervention." Am J Prev Med 49(6): 822-831.
- Matthews KA, Gallo LC, Taylor SE. Are psychosocial factors mediators of socioeconomic status and health connections?
 A progress report and blueprint for the future. Ann N Y Acad Sci 2010;1186:146-73.
- Marmot M, Friel S. Global health equity: evidence for action on the social determinants of health. J Epidemiol Commun H. 2008;62(12):1095-1097.
- NEJM Catalyst Group. Social determinants of health (SDOH). Patient engagement. 2017. https://catalyst.nejm.org/social-determinants-of-health/.
- Noel-London K, Breitbach A, Belue R. Filling the Gaps in Adolescent Care and School Health Policy-Tackling Health Disparities through Sports Medicine Integration. Healthcare (Basel). 2018;6(4).
- Pryor, R. R., et al. (2015). "Athletic training services in public secondary schools: a benchmark study." <u>J Athl Train **50**(2):</u> 156-162.
- Rose, M. S., et al. (2008). "Sociodemographic predictors of sport injury in adolescents." Med Sci Sports Exerc 40(3): 444-450.
- World Health Organization. A conceptual framework for action on the social determinants of health. Geneva, Switzerland: WHO;2010.