



# The Social Determinants of Health Model: Updated Clinical Applications for Military Children and Youth

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# Presenter(s)

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# Colonel (Ret), US Army Denise Hopkins-Chadwick R.N., Ph.D.



Dr. Denise Hopkins-Chadwick is an expert clinician, educator, scientist, and senior leader in healthcare. She has worked with patients, research participants, families, and faculty for thirty-five years utilizing her experience as a clinician, healthcare leader, scientist, educator, and administrator to found HC Research Associates creating a space for supporting research and academic activities. Her programs of research include translating evidence into clinical practice, combat trauma resuscitation, medical modeling and simulation and combat reintegration. Dr. Hopkins-Chadwick is a pioneer in nursing research and administration and distinguished herself throughout her military career through several appointments to executive committees and being an integral part of military leadership.

Hopkins-Chadwick graduated from the Indiana University of Pennsylvania with her Bachelors of Science in Nursing. She went on to graduate from the University of Washington in Seattle, WA as a Clinical Nurse Specialist in Critical Care. Hopkins-Chadwick would later enroll in the United States Army War College in Carlisle, PA to earn a Master's Degree in Strategic Studies. However, her doctoral thesis that applied the Social Determinants of Health Model to the active duty service woman will be the focal point of this session. Updated applications of the Marmot Model will be applied to the current status of the military child and family and Dr. Hopkins-Chadwick will provide unique strategies for utilizing the Social Determinants of Health Model with military children and youth.



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# Navy CAPT(Ret.) Christine L. Johnson, M.D.,F.A.A.P. (Panel)



- Dr. Christine L. Johnson is a General Pediatrician currently working as a civilian provider at the Naval Medical Center San Diego (NMCS). She graduated from Mount Sinai School of Medicine in New York City and then matched for Pediatric Residency training at Wright Patterson Air Force Base and Dayton Children's Medical Center in Ohio. She served as Chief Resident during her last year of training.
- After serving her first tour at Yokota Air Base in Japan and a brief assignment at McGuire Air Force Base in New Jersey, Dr. Johnson was assigned to the Military's Medical School, the Uniformed Services University of the Health Sciences (USUHS) for over 5 years. She was directly involved with improvements to the medical education curriculum and the pediatric clerkship opportunities. The Pediatric Education Section was recognized with the Ambulatory Pediatric Association Outstanding Teaching award for innovation in 3rd year clerkship programs during her tenure there.
- Upon moving to San Diego, Dr. Johnson was appointed as the Pediatric Clinic Director of one of the Navy's busiest clinics at NMCS, During her tenure she was then selected as the Pediatric Residency Training Program Director where she served for over 4 years, leading process improvement and change during the implementation of duty hours and the beginning of the ACGME's Next Accreditation System.
- As Specialty Leader for the Navy Pediatrics with over 150 Pediatricians stationed all over the world, Dr. Johnson directly mentored individuals through their careers. Johnson deployed twice during her active duty time, to Haiti after the January 2010 earthquake and then again on Pacific Partnership 2011, where she served as the Director of Medical Services. She was recognized by the Uniformed Services Section of the American Academy of Pediatrics with the Outstanding Service Award in 2018 and her database research exploring the association between BMI and Lipid Profiles in Military Beneficiaries won the Naval Medical Center San Diego Academic Research competition in 2019.
- Dr. Johnson retired from Active Duty in the Navy in October 2015 after over 21 years as a General Pediatrician, Academician, and Military Leader. She is pleased to continue to work with the military population of beneficiaries and military residents in the training program.



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# Navy CDR Lisa Mondzelewski, M.D., M.P.H. (Panel)



- CDR Lisa Mondzelewski graduated with honors from the United States Naval Academy in May 1999 and then she graduated from the Uniformed Services University of the Health Sciences (USUHS) in 2003. She went on to complete her pediatric residency at the Naval Medical Center, San Diego (NMCS) and was selected as Chief Resident for the Pediatric Program in her final year of training.
- Following graduation from residency in 2006, CDR Mondzelewski served as general pediatrics faculty at the Naval Hospital Camp Pendleton and NMCS, before accepting overseas orders to Naval Hospital, Okinawa Japan in 2010.
- In 2012, CDR Mondzelewski was competitively selected for training in Academic General Pediatrics. She completed her fellowship at the University of California, San Diego, earning a Masters Degree in Public Health at San Diego State University.
- CDR Mondzelewski is a Fellow of the American Academy of Pediatrics (AAP). She is first author on multiple peer-reviewed publications in *Hospital Pediatrics* and *Pediatric Dermatology*, and has presented her scientific research and quality improvement initiatives at local, regional and national meetings. She is a two time winner of the Leo J. Geppert Research Award, presented at the annual AAP Section on Uniformed Services, meeting. She is a Clinical Associate Professor of Pediatrics at Uniform Services University of the Health Sciences (USUHS), and has received recognition as a Master Clinician at NMCS.
- In 2011 she was recognized as the AAP Uniformed Services Chapter West, Pediatrician of the Year. CDR Mondzelewski currently serves as Program Director for the Pediatric Residency Program at NMCS.



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# Disclosures

- Dr. Denise Hopkins-Chadwick, Dr. Christine Johnson and CDR Lisa Mondzelewski have no relevant financial or non-financial relationships to disclose relating to the content of this activity; or presenter(s) must disclose the type of affiliation/financial interest (e.g. employee, speaker, consultant, principal investigator, grant recipient) with company name(s) included.
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# Learning Objectives

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At the conclusion of this activity, participants will be able to:

1. Explain the background of the Wilkinson and Marmot's labeling of social factors that affect health outcomes as “social determinants of health” on today's health view.
2. Label Wilkinson and Marmot's model (1999) components.
3. Explore Marmont's current work and views.
4. Discuss the Military Family Report (2019).
5. Identify opportunities for the application of the Wilkinson and Marmot (2003) model to the military child.

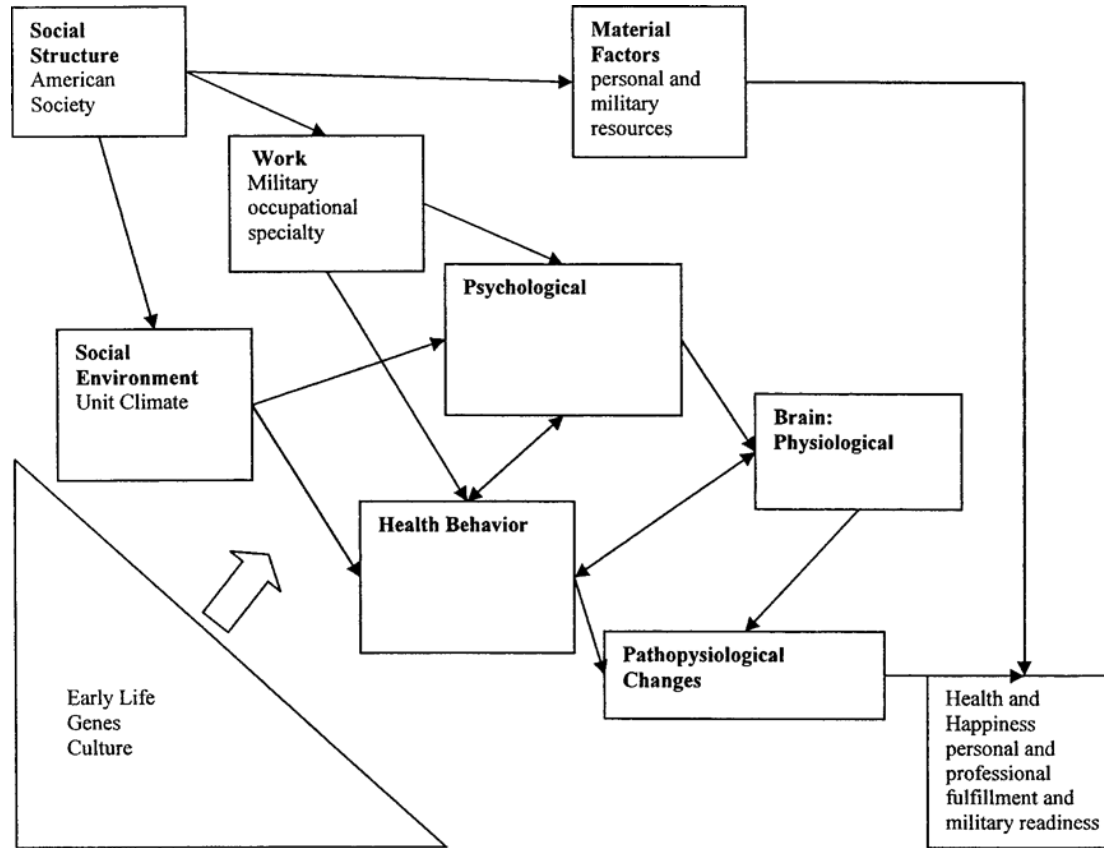


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# 1999 Marmont & Wilkinson publish Social Determinants of Health (SDOH)



Hopkins-Chadwick, 2006

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## Where is Marmont today?



[https://nationalpress.org/Marmot\\_Michael.jpg](https://nationalpress.org/Marmot_Michael.jpg)

Professor Sir Michael Marmot F.R.C.P.  
Director, UCL Institute of Health Equity  
UCL Dept of Epidemiology and Public Health  
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@MichaelMarmot

“Lack of the positive implies a dearth of parenting activities that are crucial to good early childhood development. The negative are adverse childhood experiences. I can imagine that both of these will apply to a varying extent in the military child.”



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# Reducing Health Inequities Through New Models of Care

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- Interview with Sir Michael “You’ve got to want to do it.”
  1. Prevention
  2. Focus on place
  3. Focus on population health
  4. Take actions directly on SDOH in addition to medical treatment (social prescribing)
  5. Cross sector collaboration
  6. Proportionate universal approach



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# Perkin's Work

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- Adverse Childhood Experiences (ACEs) and Military Exposure findings
- Relating ACEs and Military Exposure findings to the military child

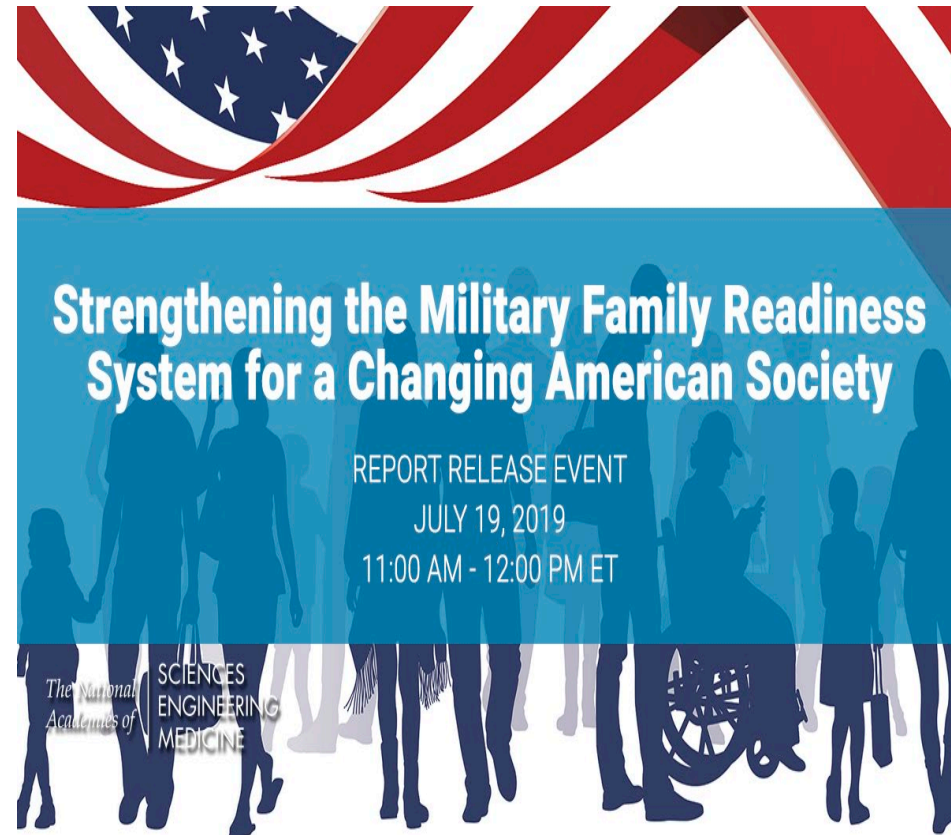


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# Strengthening the Military Family Readiness System for Changing American Society Report (2019)



<https://veteranetwork.psu.edu/wp-content/uploads/2021/02/nasem-strengthening-military-family-readiness-systems-report.pdf>



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# What does the Family Report say about Children?

- “First and foremost, sensitive, responsive, loving, predictable, and protective parents and caregivers help the development of a secure attachment relationship in infancy and early childhood” (Bowlby, 1988).
- “The second key correlate of resilience is self-regulation, the ability to monitor and regulate one’s behavior, attention, thoughts, and emotions. This is a crucial developmental task that begins to develop in early childhood and continues developing through emerging adulthood” (Zelazo & Carlson, 2012).
- “Mastery-motivation is a third key correlate of resilience” (Masten et al., 1995).
- “Across multiple studies of high-risk children, cognitive abilities, typically assessed through tests of intelligence quotient (IQ) or problem-solving capacity, appear to be significantly associated with resilience” (Luthar et al., 2006; Masten, 2015).
- “Finally, hopefulness (or positive outlook) and meaning-making may also be associated with resilience, although less empirical research has been conducted on these two constructs. In both observations of resilient children after they have grown up and anecdotal accounts of resilience, hope or a positive perspective is a key theme” (Maholmes, 2014; Werner & Smith, 1992, 2001).
- “Both resiliency research and youth development research find that opportunities to contribute or otherwise to “matter”—meaning-making within one’s context—are linked with successful outcomes in adolescents” (National Research Council and Institute of Medicine, 2002; Villarruel et al., 2003).



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# Key Takeaways

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- What can you do at the microlevel?
- What can you do at the macrolevel?



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Questions?



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3. Click on the REGISTER/TAKE COURSE tab.
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  - b. If you have not previously used the CEPO CMS click register to create a new account.
4. Follow the onscreen prompts to complete the post-activity assessments:
  - a. Read the Accreditation Statement
  - b. Complete the Evaluation
  - c. Take the Posttest
5. After completing the posttest at 80% or above, your certificate will be available for print or download.
6. You can return to the site at any time in the future to print your certificate and transcripts at: <https://www.dhaj7-cepo.com/>
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