

Department of Veterans Affairs (VA) Agency Activities on Research Specific to Pregnant and Lactating Women

Laurie Zephyrin, MD, MPH, MBA Acting Assistant Deputy Under Secretary for Health for Community Care Director, Reproductive Health Department of Veterans Affairs

US Department of Health and Human Services Task Force on Research Related to Pregnant Women and Lactating Women (PRGLC)

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Background and Context







VA Healthcare System

 The VA Healthcare System is the largest integrated health care delivery system in the United States



Over 9 Million Enrollees

- 18 Veterans Integrated
 Networks
- Over 1200 Community
 Based Outpatient Clinics
- Over 140 VA Medical Centers





Veterans Health Administration Facts



97% of those appointments occurred within 30 days



Offered 1 million same day appointments a month



VA partners with DOD, DHS, and HHS to form the National Disaster Medical System



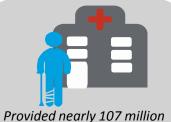
Approximately 70% of all US physicians have received at least some of their medical training with VA



VA's groundbreaking medical research has resulted in 3 Nobel prizes, 7 Lasker awards, and numerous other honors



VA's many medical accomplishments include the nicotine patch, first successful liver transplants, and a vaccine for shingles



Provided nearly 107 million outpatient visits



Treated nearly 600,000 inpatient medicine/surgery patients

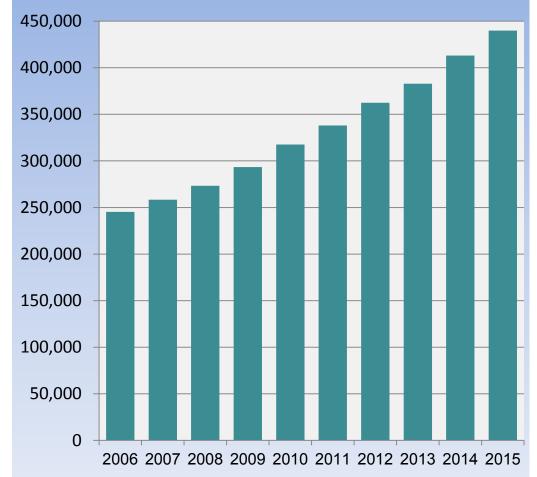
If VA were a business, it would be in the **top ten** on the Fortune 500 list





Women Veteran Patients Utilization

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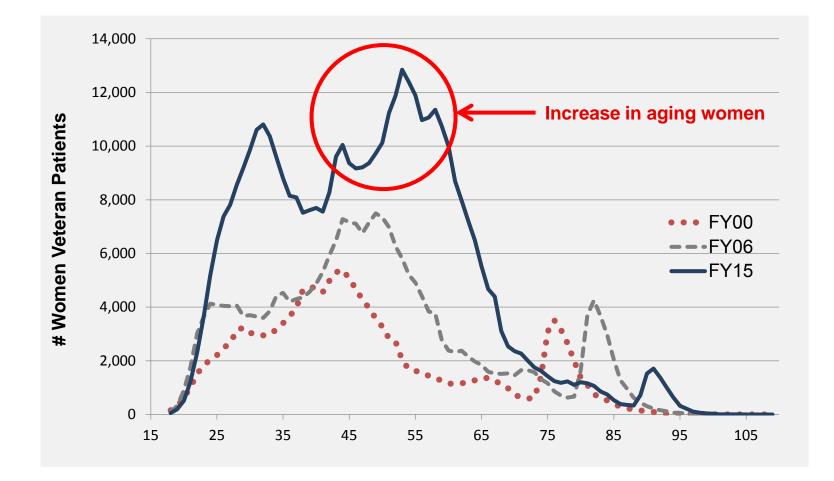
- The number of women Veterans requesting health care from VA has *increased almost 80%* over the last decade
- VA is experiencing a greater demand for care and services that have not been traditionally provided at VA facilities (e.g., obstetrics and mammography)

Year





Age Distribution of Women Veterans



Cohort: Women Veteran patients with non-missing ages 18-110 years (inclusive). Women in F Y00: N=159,553; FY06: N=245,270; FY15: N=439,615.





Common Conditions in Women Veterans



Medical Condition	%
Musculoskeletal	56%
Endocrine/Metabolic/Nutritional	51%
Mental Health/Substance Use Disorder	44%
Cardiovascular	37%
Reproductive Health	31%

1 in 5 women Veterans report Military Sexual Trauma





Care for Women Veterans

- Gender-specific services provided at VA facilities:
 - Gynecologic care (Basic and Specialty)
 - Contraceptive care and counseling
 - o Mammography
 - Breast and cervical cancer screening and treatment
 - Menopause-related care
 - o Emergency Medicine

- Services *not* provided at VA facilities:
 - \circ Obstetrical/maternity care
 - Specialty Infertility services

Note: Individual VA facilities are unique in their availability to provide particular services to Veterans. Factors such as **local Veteran demographics, proximate academic affiliates, availability of specialists** affect where women Veterans can go, within <u>and</u> outside of VA, to receive gender-specific care. PCP plays critical role with GYN and mental health providers





Research

Unique VA Research Strengths - Integrated comprehensive health system with dedicated research budget Premiere data capabilities with mix of clinical, administrative and genomic data

Partnership of VA researchers (60% clinicians) and VA healthcare system Partnership with DoD, NIH and other federal and private organizations





Research Overview

- Intramural Research
 - VA Office of Research and Development
 - Biomedical Laboratory, Clinical Science, Health Services, Rehabilitation



- Approximately 2,100 ORD funded research projects at any one time
- Women's Health Topics Include
 - Medication safety
 - Evidence-based psychotherapy for women Veterans with PTSD
 - Effect of military service, trauma, and co-occurring conditions on pregnancy, health care delivery, and care coordination
 - Pregnancy-associated conditions
 - Established new models of care (Women's Health)





- Since early 1990's, women's health a VA research priority
- 2005 VA developed a comprehensive research agenda for women Veterans
- Expansive research portfolio to understand the health and healthcare needs of women Veterans
- Establishment of national VA Women's Health Research Network to support research aimed at ensuring accessible, high-quality care for women Veterans, and implement research into practice
- Reproductive health is a key area of research







Research Examples



Studying the effect of maternal PTSD on birth outcomes, confirming an increased risk of preterm birth



Assessing the coordination of pregnancy care experienced by women Veterans by interviewing women Veterans and their health care providers



Documenting the use of opioids among pregnant veterans; between 2001 and 2010, about 10 percent of pregnant veterans received prescriptions for opioids



Through the PROVE project, scientists linking VA and CA data to determine the effect of maternal PTSD on birth outcomes, and quantify the distribution and character of preterm births and other outcomes.





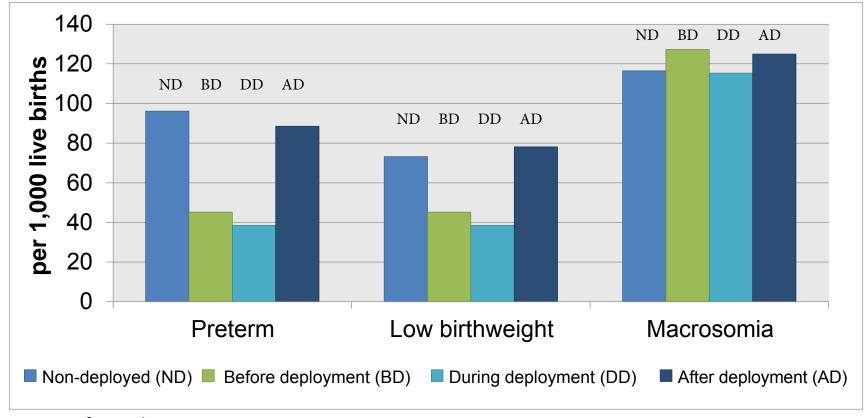
Women Veterans and Pregnancy







2,276 live births (1,571 non-deployers, 705 deployers)

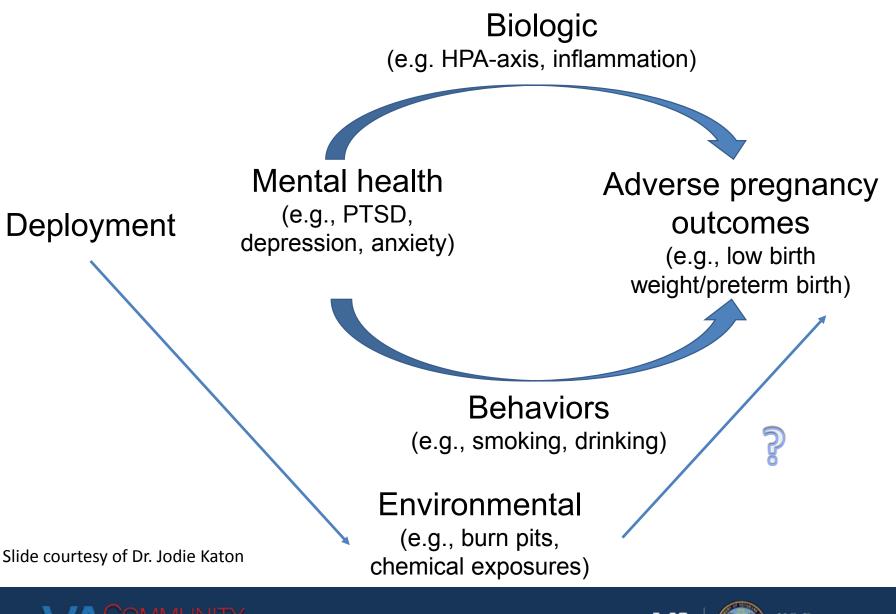


Slide courtesy of Dr. Jodie Katon





Potential Explanatory Mechanisms

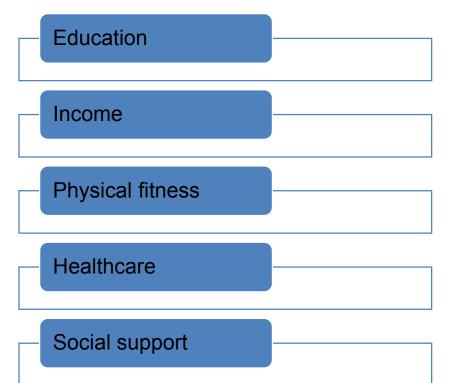




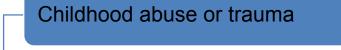


Healthy Soldiers and Wounded Warriors

Healthy Soldiers



Wounded Warriors



Behavioral risk factors

Mental health conditions

Military specific exposures

African American women overrepresented in military and women Veterans

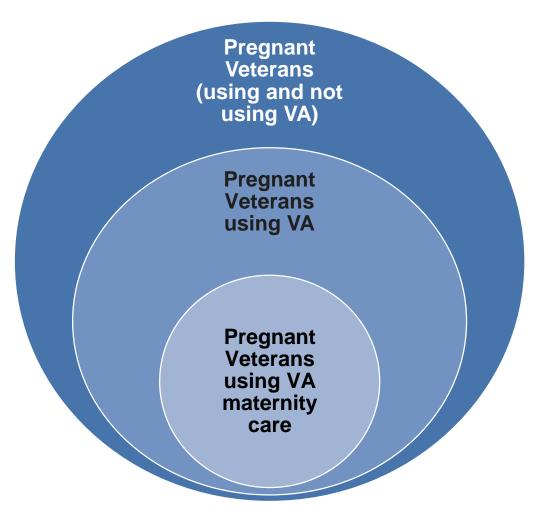
Veterans are on average older than non-Veterans

Lehavot, K., et al. (2012). Am J Prev Med 42(5): 473-480 Katon, J. G., et al. (2015). Am J Prev Med 49(4): 573-582

Slide courtesy of Dr. Jodie Katon





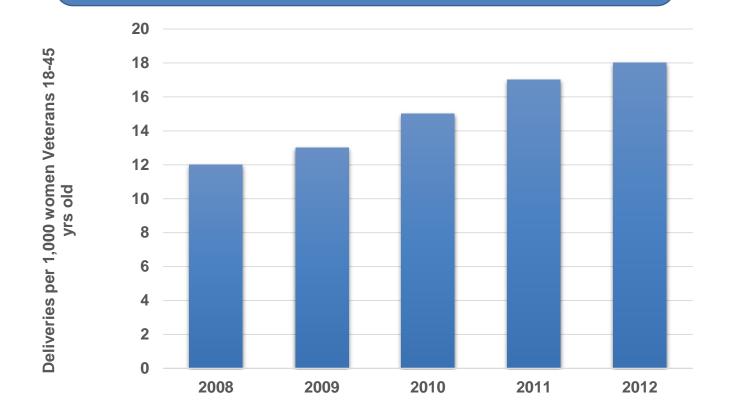






VA Maternity Benefits

Prenatal, labor and delivery, postpartum care Nearly all purchased from non-VA community providers



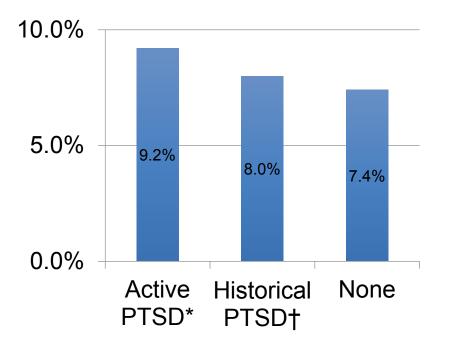
Mattocks, K. et .al. Womens Health Issues (2014). 24(1): e37-42





PTSD, Preterm Birth, and Pregnancy Complications

Spontaneous Preterm Births by PTSD Status



* Diagnosis present in 365d antepartum VOIder Diagnosis, not present in 365d antepartum

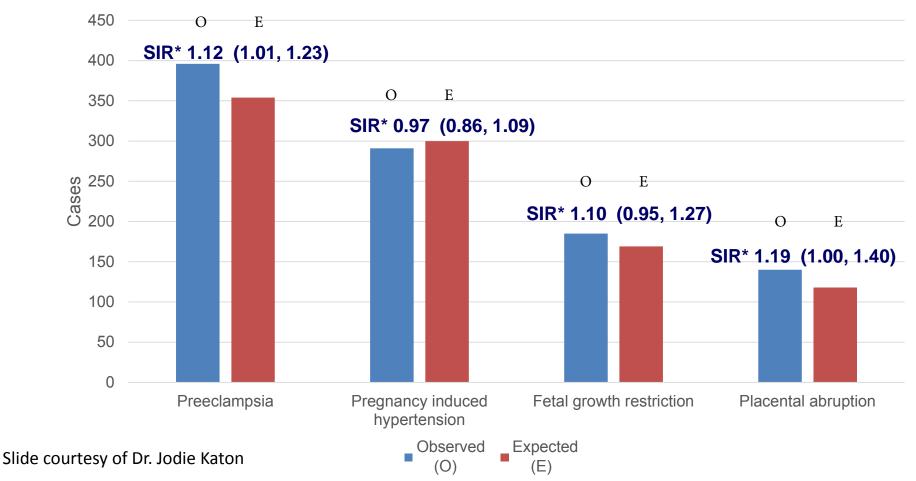
Cohort of 16,000 Deliveries Covered by VA Maternity Care

- 19% had prior PTSD diagnosis
- Active PTSD increased risk of preterm birth, in adjusted models, aOR 1.35 (p < 0.001)
- Antenatal complications and length of stay also elevated in PTSD-affected pregnancies





VA Maternity Benefit Users and Pregnancy Complications



*SIR = standardized incidence ratio, standardized by age, year, & race/ethnicity

Shaw, J et. al. Obstetric Outcomes in the VA: Comparison with a Nationally Representative Sample to Guide Future VA Research and Quality Measures. HSR&D National Meeting on Partnerships for Research & Care of Women Veterans: Building the Evidence Base for Clinical and Policy Action. Washington, DC. July 31-August 1, 2014





Target Population – Key Questions

- Are women Veterans using VA maternity care a high risk "vulnerable" population?
- Are quality and outcomes of VA maternity care similar to national averages?







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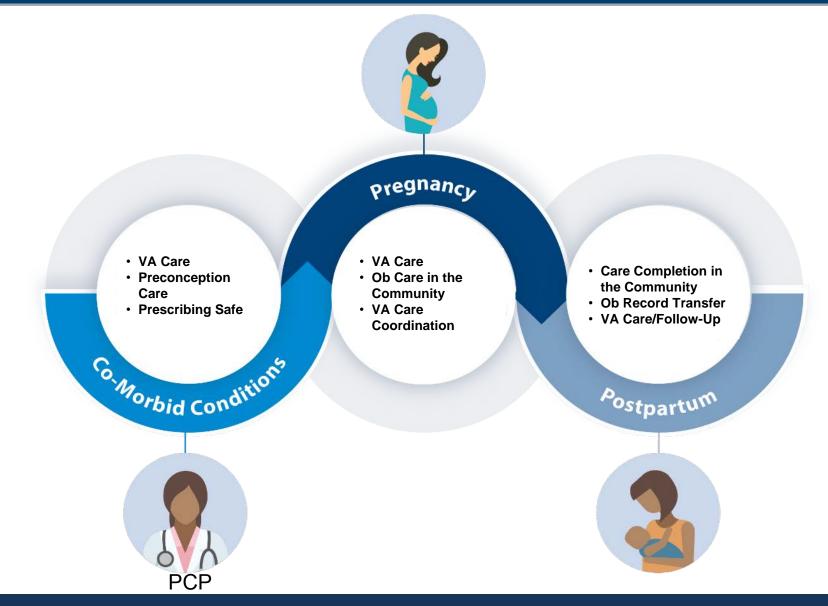
Translating Research into Policy, Programs and Practice







Transitions for a High Risk Population

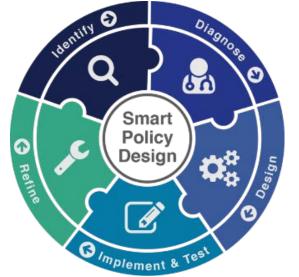






VA Maternity Care

- First national policy for VA Maternity Care
- Maternity Care Coordinators (MCC)
 - At each VA Medical Center
 - Facilitate communication with community providers and VA providers
 - Provide support and education
 - Screen for post-partum needs



- MCC Community of Support
 - VA maternity care coordinators and reproductive health subject matter experts to share best practices system wide
- MCC Implementation Center
 - Telephone Care Program





Maternity Tracker Innovation

- Clinical reminders specific to pregnancy
- Note templates designed to support the collection of pregnancy related data
- Gathering and storage of maternity data which includes key reproductive health data elements

One Cprsnurse BS	Name	Last 4	Age	Phone	Non-VA OB	L&D	Pregnant	Tri	GA	EDD	
Alerts	Cprspatient, Eight F	8000	59	555-2222			Yes				
Sign Out	Drmpatient, Ten	0010	59	5185551212	Wednesday Test Obgyn	Smallish Hospital	Yes	2 nd	21w 0d	01/10/201	
Tracking	Epspatient, Four F	1958	58				No				
Tracked Patients	Feebasis, Nine	5578	36				Yes	1 st	10w 6d	03/22/201	
Flagged Patients	Hhzlsxaxfn, Wisdhys Tdo	1931	83			Testing Hospital Z	Yes	2 nd	14w 2d	02/26/201	
Track A Patient	Jxyht, Teluny	4222	81				Yes	3 rd	32w 3d	10/22/201	
Tracking History	Kuhrm, Kuhhmn	XXXX		465-054-08816			No				
	Mnhut, Laguhi K	7563	81		Test Good	Great Hospital	Yes	1 st	10w 4d	03/24/201	
Configuration	Sdosxht, Spdybah	0555	59				Yes				
Non-VA Care	Shytdsdqh, Hzwaxnhh	XXXX			Wednesday Test Obgyn		Yes	2 nd	20w 4d	01/13/201	
Education items	-										





Conclusion







Laurie Zephyrin, MD, MPH, MBA

Acting Assistant Deputy Under Secretary for Health for Community Care Director, Reproductive Health Department of Veterans Affairs

Laurie.Zephyrin@va.gov



