Deployment Stressors Unique to Women

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Disclosures

- The views expressed in this presentation are those of the author and do not necessarily reflect the official policy or position of the Department of Defense, nor the U.S. Government.

- This continuing education activity is managed and accredited by the Department of Veterans Affairs, Employee Education System (VA-EES).

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- No conflict of interest.

- No discussion of non-FDA-approved medications or devices.

- Case presentation is a composite with no personal identifiers.
Biography

COL Jennifer Chow

COL Chow has been an Air Force (AF) psychiatrist since 2000 when she started her psychiatric residency at Wilford Hall at Lackland AFB. She has been stationed in South Korea, Germany, the United Kingdom, Turkey, and deployed to Kabul, Afghanistan in 2012-2013. Currently she is the Deputy Director of Psychological Health for the AF, since 2019, which is the advisor to the AF surgeon on mental health policy and strategy for the AF.
Agenda

- Overview/History of Women in Military Deployments
- Practical Considerations for Women Deploying
- Risk Factors for Mental Health Disorders, Gender differences in Developing MH Disorders
Learning Objectives

At the end of the presentation, you will be able to

- Describe risk factors for developing mental health disorders that are unique to women
- Identify common deployment stressors specific to women
Overview and History of Women in Military Deployments
Women in the Military

Figure 1.1. Gender Representation in the Armed Forces, 2019

- 21% of Navy personnel were women
- 20% of officers were women
  - Active Duty: Male 80%, Female 20%
  - Reserve: Male 76%, Female 24%

- 15% of Coast Guard personnel were women
- 14% of officers were women
  - Active Duty: Male 85%, Female 15%
  - Reserve: Male 83%, Female 17%

- 18% of Army personnel were women
  - Active Duty: Male 95%, Female 15%
  - Reserve: Male 76%, Female 24%
  - Guard: Male 82%, Female 18%

- 16% of enlisted personnel were women
  - Male 89%, Female 11%

- 8% of Marine Corps personnel were women
  - Active Duty: Male 79%, Female 21%
  - Reserve: Male 73%, Female 27%
  - Guard: Male 79%

Warrant Officers (W-1 to W-5) are included with officers.
Source: DoD (2019).
Women in Combat Roles

- 653 women serving in combat roles in Army a/o Oct 2019
- 19 submarine crews integrated with women a/o Dec 2019
- 5 female secretaries of AF, more female general officers than any other service
- 231 female Marines serving in combat arms billets a/o Dec 2019
- None of the traditional SOF units are integrated (Green Berets, Navy SEALs, Marine Raiders, AF special tactics)

Moore, 2020
Women in Combat Roles: Stressors Disproportionately Affecting Female Service Members

- Relocation stress due to unsafe housing
- Translating children’s education across states
- Spouse’s unemployment
- Dual-military relationship creating difficult choices
- Difficulty having a family
- Feeling that pregnancy is discriminated against

Photo: Cpl. Rachel Mendieta

“Medically Ready Force...Ready Medical Force”
Female Service Members who Have Deployed

202,849 Female Service members (AD)

- 144,980 have not deployed
- 57,869 have deployed

Photo: Capt Holli Nelson

Stahlman, et al, 2017
Women in Military Deployments

Current Statistics of Women in Combat Zones

■ 58.8% of women reported combat exposure, 34% of females reported high combat exposure (5+ experiences)

■ 65.8% of males reported combat exposure, 47.5% of males reported high combat exposure (5+ experiences)

■ 22.9% of women reported deployment-related injuries vs 28.4% of men

(DoD HRBS 2015)
Women in Military Deployments

- Role of women in the military has expanded
- Most occupations include combat support roles
Pre-Deployment Risk Factors

Adverse Childhood Events (ACE)

- Women with military Service report greater ACEs than those without Service history

- Female Veterans reported higher ACE scores than female non-Veterans

(McCauley et al, 2015)
Baseline Rates of Mental Illness

Females
■ Substance use disorders - 1.6%
■ Adjustment disorders - 11.2%
■ Depressive disorders - 6.0%
■ PTSD - 2.7%
■ Anxiety disorders - 6.5%
■ Any mental health related problems - 15.7%

Males
■ Substance use disorders - 2.2%
■ Adjustment disorders - 5.3%
■ Depressive disorders - 2.7%
■ PTSD - 1.2%
■ Anxiety disorders - 2.8%
■ Any mental health related problems - 11.5%

(Armed Forces Health Surveillance Branch, 2020)
Poll Question #1

If you have been deployed, what are some stressors unique to women that you/fellow Service women have experienced?
Practical Considerations for Women Deploying
Deployment Stressors: Gynecological/reproductive issues

- Menstruation and menstrual management
- Menstrual suppression
- Lack access to OB-GYN
- Increased maternal morbidity in female Veterans

(Combellick et al, 2020)
Deployment Stressors

- Bathrooms
- Hygiene
Deployment Stressors

- Body Armor
- Heavy Equipment

photo: Maj. Cory Angell

“Medically Ready Force...Ready Medical Force”
Deployment Stressors

- Pre-deployment stressors & reintegration
- 24/7 “fishbowl”: friendships with both men and women
- Blending/fitting in

Photo: Maj Michelle Lunato

“Medically Ready Force...Ready Medical Force”
Deployment Stressors

- Infertility, increased risk of hysterectomy and Sexually Transmitted Diseases (STDs)\(^1\)

- Unintended pregnancy 60% rate\(^1\)

- Spontaneous preterm birth: 11.7% among females who delivered within 6 mos of return from deployment vs. 6% female soldiers who had not deployed (PTSD nor multiple past deployments not associated with increased SPB risk)\(^2\)

(Van den Berk Clark et al, 2018; Shaw et al, 2018)
### Deployment Stressors: Sexual Assault / Harassment

<table>
<thead>
<tr>
<th></th>
<th>Study Sample (n = 1,262)</th>
<th>No Sexual Stressor (n = 11,900)</th>
<th>Sexual Harassment (n = 1,089)</th>
<th>Sexual Assault (n = 121)</th>
<th>Both SA &amp; SH (n = 152)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non deployed</td>
<td>79.6%</td>
<td>80.7%</td>
<td>70.2%</td>
<td>72.7%</td>
<td>67.8%</td>
</tr>
<tr>
<td>Deployed W/O Combat</td>
<td>11.4%</td>
<td>11.4%</td>
<td>10.9%</td>
<td>14.1%</td>
<td>11.2%</td>
</tr>
<tr>
<td>Deployed W/ Combat</td>
<td>9.0%</td>
<td>7.9%</td>
<td>18.9%</td>
<td>13.2%</td>
<td>21.1%</td>
</tr>
</tbody>
</table>

(LeardMann et al, 2013)
Deployment Stressors

- 38.4% of female Veterans report MST (when including harassment and assault)
- 23% of female Veterans report h/o assault
- 52% report harassment

(Wilson, 2018)
Deployment Stressors

Female Veteran study, n= 330

- Women who experienced deployment related SA had 6 times the odds of developing PTSD over those who had not experienced deployment related SA

- However, no interaction between SA and combat exposure in predicting PTSD

(Gross et al, 2018)
Deployment Stressors: Suicide

Across deployment status, suicide attempts were more likely among soldiers who were women (currently deployed: OR = 3.4; 95% CI, 3.0-4.0”

- Previously deployed: OR = 1.5; (95% CI, 1.4-1.7)
- And never deployed: OR = 2.4; (95% CI, 2.3-2.6)

(Ursano et al, 2016)
Results from studies that examine gender differences and PTSD suggest that female Service members are at a higher risk for post-deployment PTSD than male Service members.

Results from female Veterans studies show a significant predictive relationship between deployment-related traumatic stressors, most notably combat experiences and sexual assault and sexual harassment, and PTSD outcomes.

(Crum-Cianflone & Jacobson, 2014; Maguen et al, 2012)
Deployment Stressors

- Deploying as individual augmentees, females are at increased risk than males for depression, probable PTSD and binge drinking\(^1\)
- Traumatic Brain Injury (TBI): females report more neurobehavioral symptoms with mild TBI (mTBI), and female Veterans with TBI are more frequently diagnosed with depression\(^2\)

\(^1\) Photo: Sgt Ashley Bell

“Medically Ready Force...Ready Medical Force”
Poll Question #2

What are some additional stressors that women experience while deployed that have not been covered in this session?
DACOWITS

Defense Advisory Committee on Women in the Services

- Established in 1951
- Recommendations on matters and policies relating to the recruitment of Service women in the US Armed Forces

(dacowits.defense.gov)
The Secretary of Defense should allocate increased funding to address the lack of adequate child care capacity and on- and off-installation child care resources, to include construction/expansion of child care facilities and initiatives to ensure sufficient child development center staffing and family child care home providers.

The Secretary of Defense should review and revise the eligibility priority system for Child Development Centers detailed in DoDI 6060.02 (Child Development Programs) to ensure increased priority is afforded eligible Service members to improve availability and reduce waitlist time.
DACOWITS 2019 Recommendations: Well-Being and Treatment – Domestic Abuse

The Secretary of Defense should expand DoDI 6400.06 (Domestic Abuse Involving DoD Military and Certain Affiliated Personnel) to include dating partners in the collection of domestic abuse data affecting Service members.

The Secretary of Defense should implement a means for Service members suffering from domestic abuse to establish immediate and convenient access to resources and assistance, similar to the DoD Sexual Assault Prevention and Response program and “Safe Helpline” offered to military sexual assault victims.

The Secretary of Defense should establish a DoD policy that directs the Military Services to notify civilian enforcement immediately after a military protective order is issued for domestic abuse, and to solicit civilian law enforcement cooperation in assisting victims to obtain a civilian protective order and other related services.
DACOWITS 2019 Recommendations: Well-Being and Treatment - Pregnancy

The Secretary of Defense should direct the Military Services to develop and implement policies that ensure a servicewoman’s career is not negatively affected as a result of pregnancy.

The Secretary of Defense should commission a research project to identify and assess the potentially unique impacts on military mothers who are reintegrating into the family after deployments.
Female Veterans in Congress

Rep. Chrissy Houlahan: AF
Sen. Tammy Duckworth: Army
Sen Joni Ernst: Army
  (1st female combat Veteran in Senate)
Rep. Tuls Gabbard: Army
Rep. Mikie Sherrill: Navy
Rep. Elaine Luria: Navy
Sen. Martha McSally: AF

Photo: Petty Officer 2nd class Camilo E. Fernan


LeardMann, C. A., Pietrucha, A., Magruder, K. M., Smith, B., Murdoch, M., Jacobson, I. G., ... & Millennium Cohort Study Team. (2013). Combat deployment is associated with sexual harassment
or sexual assault in a large, female military cohort. Women's Health Issues, 23(4), e215-e223.


https://doi.org/10.1016/j.whi.2011.07.010


References


Referral Resources

PSYCHOLOGICAL HEALTH RESOURCE CENTER
866-966-1020 • Open 24 hours a day, 7 days a week

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