





#### **SOAR 2022: BASELINE RESULTS**

Hope Seib McMaster, PhD



### **DISCLAIMER**



I am an employee of the U.S. Government. This work was prepared as part of my official duties. Title 17, U.S.C. §105 provides that copyright protection under this title is not available for any work of the U.S. Government. Title 17, U.S.C. §101 defines a U.S. Government work as work prepared by a military service member or employee of the U.S. Government as part of that person's official duties. This work was supported by the DoD Office of Military Community and Family Policy under work unit no. WU60002. The views expressed in this presentation are those of the authors and do not necessarily reflect the official policy or position of the Department of the Navy, Department of Defense, nor the U.S. Government.

The study protocol was approved by the Naval Health Research Center Institutional Review Board in compliance with all applicable Federal regulations governing the protection of human subjects. Research data were derived from an approved Naval Health Research Center Institutional Review Board protocol, number NHRC.2021.0018.



#### **BRIEFING OVERVIEW**



- Study Design
- Study Results
  - Psychological Health
  - Military Life Experiences
  - Health Related Behaviors
  - School Environment
  - Parental Relationship
  - Family Factors
  - Support Factors



### **STUDY DESIGN**



- SOAR is designed to understand how military life affects military-connected youth's psychological and physical health, academic achievement, and educational/career goals.
  - Most comprehensive study of military-connected adolescents undertaken by the DoD.
- The study will assist the DoD in outlining future programs and services aimed at improving military family readiness and resiliency.



### STUDY DESIGN (CONTINUED)



MILLENNIUM COHORT PROGRAM

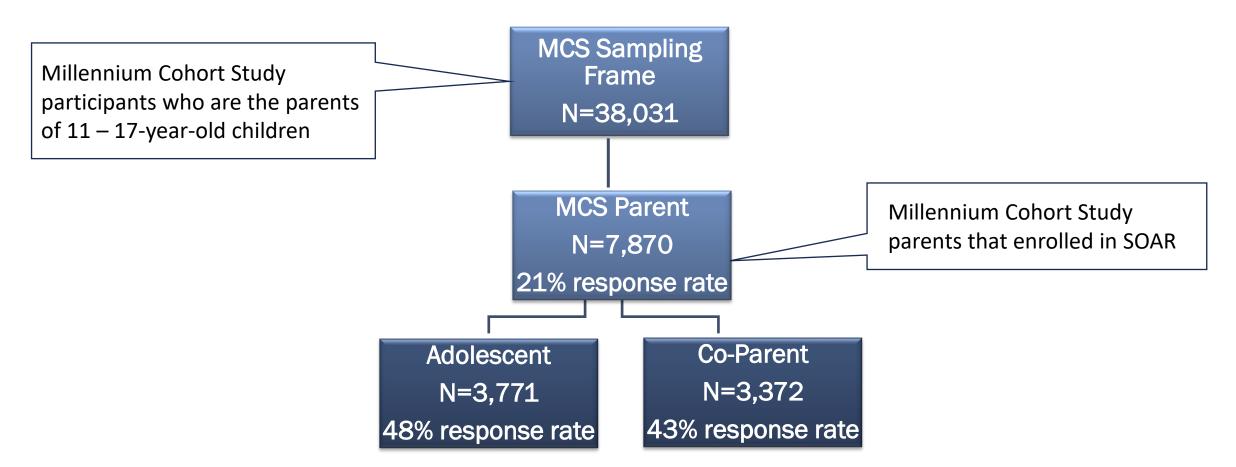
- Millennium Cohort Program: SOAR is a longitudinal study recently added to the Millennium Cohort Program, which includes the Millennium Cohort Study (MCS) of service members and veterans (est. 2001) and the Millennium Cohort Family Study (MCFS) of spouses (est. 2011).
- SOAR Sampling Frame: Parents are drawn from MCS participants enrolled between 2001 and 2021 with adolescent children between the ages of 11 and 17 during the 2022/23 academic year.
- **SOAR Methodology:** SOAR collected baseline self-report data from military-connected adolescents and from their parent(s) during the 2022/23 academic year. Follow-up surveys fielded every other year collect self-report data from adolescents until emergent adulthood (age 25).



#### **RESPONSE RATES**



Survey Fielded November 2022 – July 2023





## MCS PARENT CHARACTERISTICS



(n=7,870)

MCS Parent Characteristics	%
Female	30.1
White, non-Hispanic	75.2
Enlisted	62.8
Veteran	31.6
Married	80.4
Age	Average 43 years

## **SERVICE BRANCH (%)** Coast Guard 2% Air Force 33% Army 43% Marine Corps 7% Navy 15%

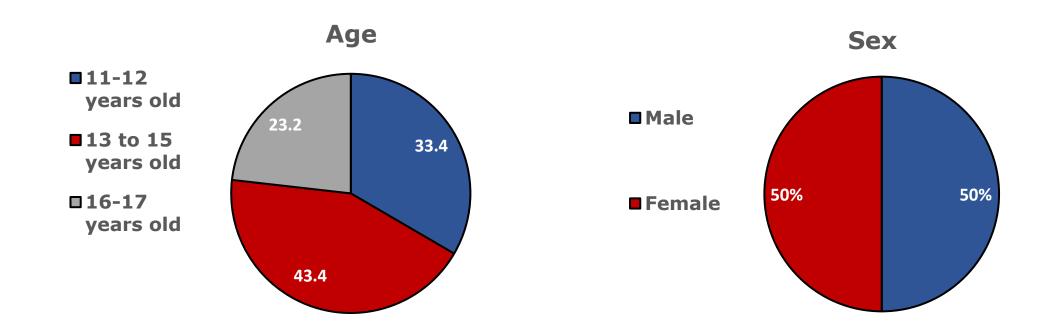
2022 SOAR Parent Survey Q11; DMDC data



## ADOLESCENT CHARACTERISTICS



(n=3,771)





#### **ABOUT THE BRIEF**



• Throughout the slides in this briefing, we have looked for demographic differences using the comparison groups as defined below:

Demographic Group	Reference			
Adolescent Age	11-12 (younger) 13-15, 16-17 (older)			
Adolescent Sex	Male Female			
Service Branch	Army	Navy, Marine Corps, Air Force, Coast Guard		
Paygrade O4–O6 (Sr. Officer) E1–E		E1-E4 (Jr. Enlisted), E5-E9 (Sr. Enlisted), WO1- O3 (Jr. Officer)		
<b>Current Military Status</b>	Veteran	Active Duty, Reserve		

Significant differences in comparison groups are noted on slides.

Note: If 13-15 and 16-17 groups are both significantly different from the 11-12 group, they are combined and referred to as older children.

Note: If E1-E4 and E5 –E9 groups are both significantly different from the 04-06 group, they are combined and referred to as enlisted personnel.

2022 SOAR Adolescent Survey Q1, Q2; DMDC data

٢



### **ABOUT THE BRIEF (CONTINUED)**



Given the national state of emergency in children's mental health declared in 2021\*, we
determined the odds of adolescents screening for anxiety or depression (adolescent report)
using the following predictors for this briefing:

- Adolescent behaviors
- Military experiences
- Health related behaviors
- School environment
- Bullying
- Parental mental health
- Parent-child relationship

- Family factors
- Adverse childhood events
- Adolescent caregiving
- Financial hardship
- Extracurricular activities
- Support services

 Cross-sectional analyses controlled for the impact of adolescent age, sex, and service member branch, component, paygrade, and current military status





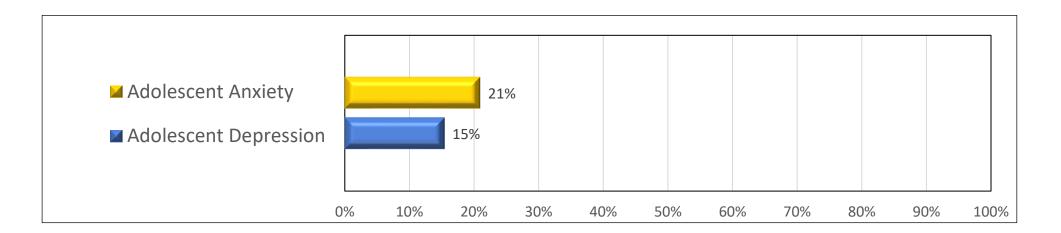
# STUDY FINDINGS: PSYCHOLOGICAL HEALTH





## **CURRENT ADOLESCENT MENTAL HEALTH**

ADOLESCENT REPORT



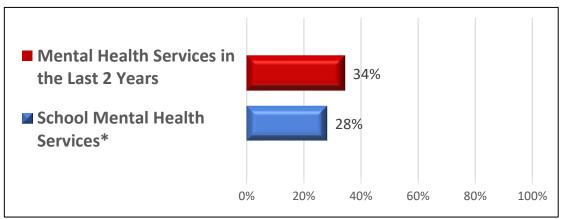
- Adolescent children of Jr. enlisted personnel, female adolescents, and older adolescents (13-17 years old)
  were more likely to screen positive for anxiety.
- Adolescent children of **enlisted personnel, female adolescents and older adolescents** were <u>more likely</u> to screen positive for depression.

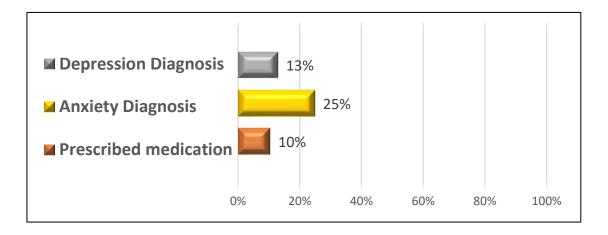


# ADOLESCENT MENTAL HEALTH: MEDICATION, DIAGNOSES, AND CARE



PARENT AND ADOI ESCENT REPORT





\*Adolescent report

- Mental heath services were <u>more often</u> used by adolescents of Jr. enlisted personnel, female adolescents, and older adolescents (13 -17 years old).
- Adolescent children of enlisted personnel, female adolescents, and older adolescents were also more likely to be diagnosed with anxiety or depression.
- Similarly, **female adolescents and older adolescents** were <u>more likely</u> to take prescription medication for anxiety or depression.

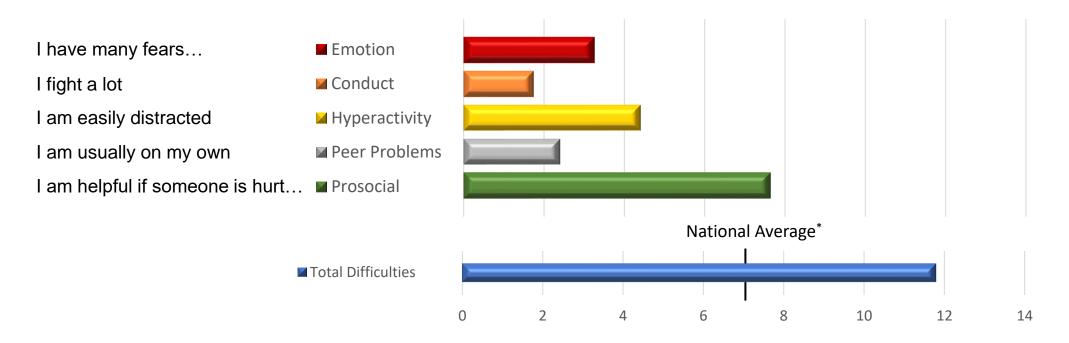
Note: All differences presented on the slide are statistically significant bivariate associations (p<0.05). 2022 SOAR Parent Survey Q50, Q52, Q53, Adolescent Survey Q23



### MENTAL, BEHAVIORAL, AND SOCIAL ADJUSTMENT



ADOLESCENT REPORT



• Children of enlisted personnel, female adolescents and older adolescents (13 -17 years old) had significantly higher average Total Difficulties scores\*.

Note: All differences presented on the slide are statistically significant bivariate associations (p<0.05). 2022 SOAR Adolescent Survey O11

L

<sup>\*</sup>National Average is based on 4–17-year-olds. Bourdon, K. H., Goodman, R., Rae, D. S., Simpson, G., & Koretz, D. S. (2005). The Strengths and Difficulties Questionnaire: US normative data and psychometric properties. Journal of the American Academy of Child & Adolescent Psychiatry, 44(6), 557-564.



#### **ADOLESCENT ADJUSTMENT**



ADOLESCENT REPORT

	Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
Adolescent Behaviors*	Reference group Continuous	Prosocial Behaviors	.862	.827	.897
Adolescent Behaviors*	Reference group Continuous	Peer Problems	<b>1.530</b>	1.464	1.599

<sup>\*</sup>Reported by adolescent

 Adolescent prosocial (helping) behavior was associated with a <u>lower</u> risk for anxiety/depression, while encountering problems with peers was associated with a <u>higher</u> risk of anxiety/depression.

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the presence of the other key predictor variables.





#### **SELF-ESTEEM AND CHARACTER**

ADOLESCENT REPORT

#### Character

Helping to make sure all people are treated fairly.

Speaking up for equality.

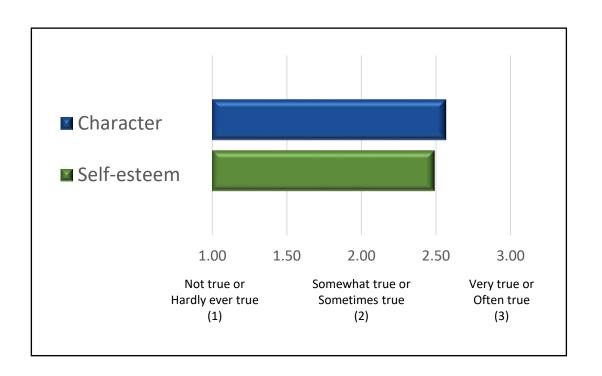
Standing up for what I believe, even when it's unpopular to do.

#### **Self Esteem**

On the whole, I am satisfied with myself.

I feel that I have a number of good qualities.

I take a positive attitude toward myself.







#### **SELF-ESTEEM AND CHARACTER**

ADOLESCENT REPORT

#### **Table on Adolescent Resilience Factors**

Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
Reference group Continuous	Self-Esteem	.134	.114	.158
Reference group Continuous	Character	.647	.538	.777

• Higher self-esteem and character were associated with significantly lower odds of anxiety or depression.

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the other key predictor variables.





# STUDY FINDINGS: MILITARY LIFE EXPERIENCES



## **MILITARY LIFE EXPERIENCES**



PA	R	Ε	N	Τ	R	Ε	P	0	R'	Τ
----	---	---	---	---	---	---	---	---	----	---

	Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
PCS Moves	Reference group Continuous	Number of PCS moves experienced by child since birth	1.05	1.00	1.09
Changing Schools	Reference group Continuous	Number of times child has changed schools due to a PCS move	<b>1.06</b>	1.01	1.12
Parental Absence	Reference group Continuous	Number of times parent was away from home for more than 30 days since child was born	1.02	1.00	1.05

- Changing schools due to a PCS move <u>increased</u> the odds of screening for depression or anxiety.
- PCS moves and Parental Absence were not significant but trend the same direction.
- When we limit our sample to adolescent children of active duty personnel, parental absence significantly increased the odds of screening for depression or anxiety.

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the other key predictor variables.





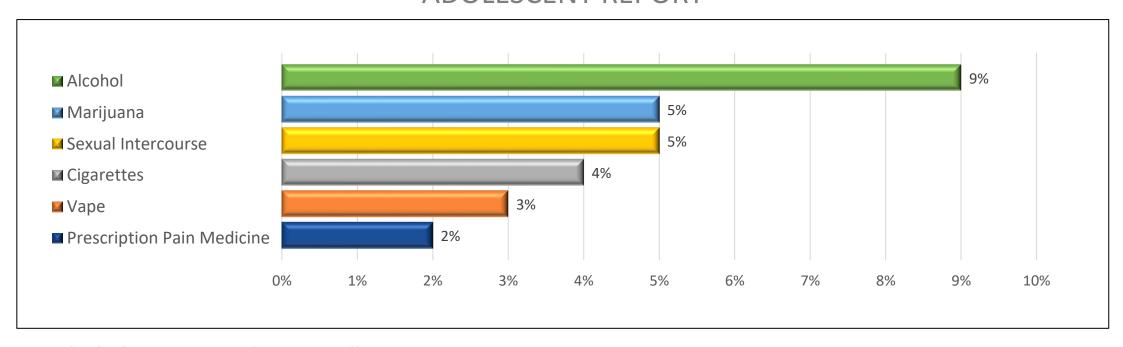
# STUDY FINDINGS: HEALTH RELATED BEHAVIORS



#### **HEALTH RELATED BEHAVIORS**



ADOLESCENT REPORT



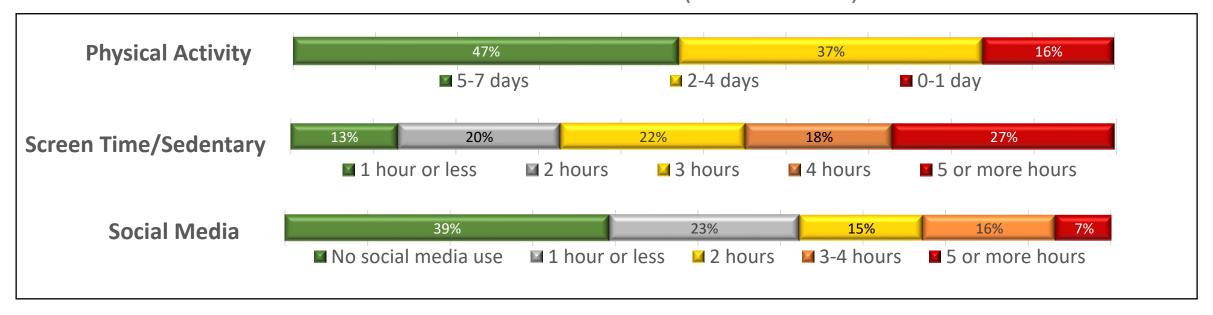
- Risky behaviors were low overall.
- Adolescent children of Jr enlisted personnel more likely to report risky behaviors compared to Sr officers.
- Almost all risky behaviors were <u>higher</u> in <u>older adolescents</u>.
- Females were more likely than males to report using prescription pain medicine recreationally and drinking.



### **HEALTH RELATED BEHAVIORS**



ADOLESCENT REPORT (CONTINUED)



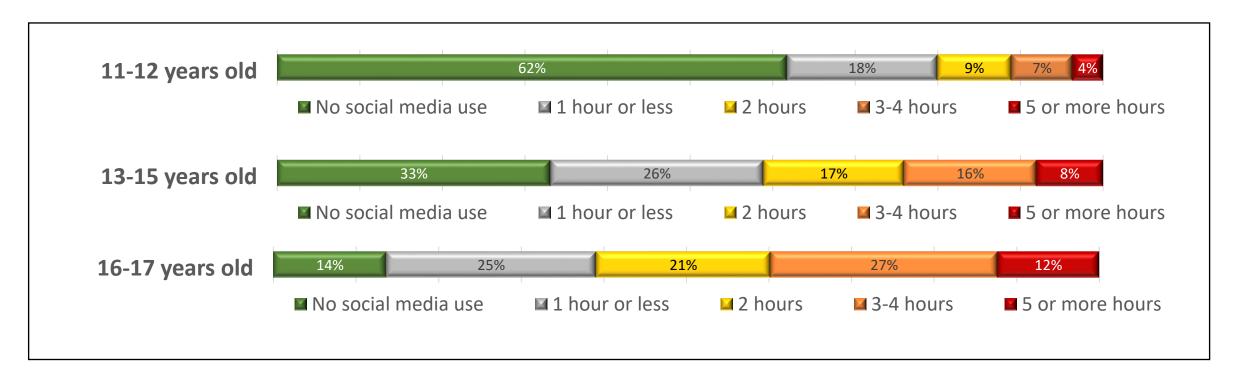
- Children of enlisted personnel and older adolescents were more likely to be less physically active and engage in 5 or more hours of sedentary behavior and social media use per day.
- Female adolescents were more likely to be less physically active and engage in 5 or more hours of social media.



### **SOCIAL MEDIA USE BY AGE**



ADOLESCENT REPORT



• The percentage of adolescents using **social media for 3 or more hours** each day more than **triples** from early to late adolescence

2022 SOAR Adolescent Survey Q40



### **HEALTH RELATED BEHAVIORS**



#### ADOLESCENT REPORT

Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
Reference group Continuous	Hours of Sleep	.65	0.61	0.69
Reference group Continuous	Days Physically Active	.92	0.89	0.95
<u>Reference group</u> No	High Sedentary Behavior	2.38	2.02	2.81
<u>Reference group</u> No	High Social Media	1.87	1.44	2.42

- More hours of sleep and more days of physical activity were associated with significantly <u>lower</u> odds of adolescent depression or anxiety.
- More than 5 hours of screen time (high sedentary behavior) and more than 5 hours of social media
  use were both associated with significantly <u>higher</u> odds of adolescent depression or anxiety

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the other key predictor variables.





# STUDY FINDINGS: SCHOOL ENVIRONMENT

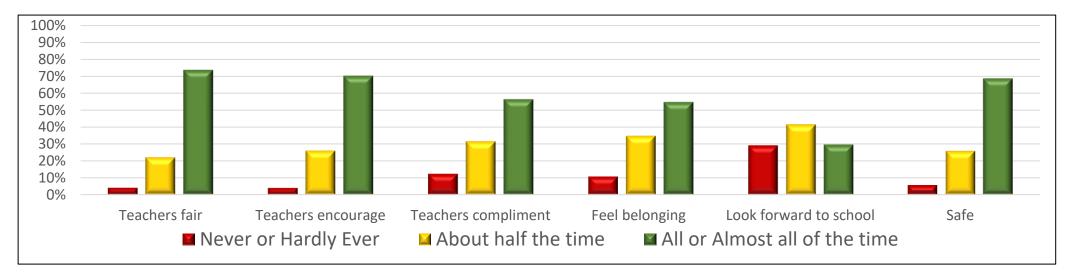


### **SCHOOL ENVIRONMENT**



#### ADOLESCENT REPORT

During the last 12 months, how often have you felt any of the following ways about your school?



- Most students are reporting a positive school environment.
- Younger adolescents were less likely to report "Never or Hardly Ever" across all items.
- Females, children of Army and Marine Corps personnel, and children of enlisted personnel were more likely to report "never or hardly ever" feeling like they belong at school.
- Females were more likely than males to report "never or hardly ever" feeling safe at school.

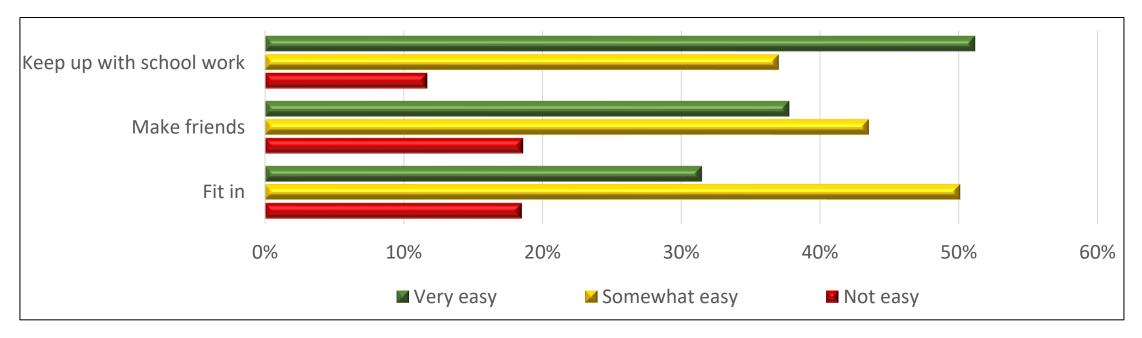


#### **ADAPTING TO SCHOOL**

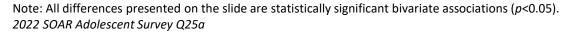


#### ADOLESCENT REPORT

The last time you changed schools because of your parent's job in the U.S. military, how easy was it for you to...



- Across all three adapting to school items, children of enlisted personnel and older children were more likely to report that it was not easy.
- In addition, females were more likely to report that fitting in was not easy.





### GRADES AND SCHOOL ENVIRONMENT



#### ADOLESCENT REPORT

Grades or School Environment	Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
Grades	Reference group Continuous	Grades	0.88	0.83	0.94
School Environment	Reference group Continuous	Teacher Quality	0.37 🦊	0.32	0.43
School Environment	Reference group Continuous	Sense of Belonging	0.36 🦊	0.32	0.40
School Environment	Reference group Continuous	Looking forward to School	0.38	0.34	0.43
School Environment	Reference group Continuous	Safety	0.33 🦊	0.29	0.37

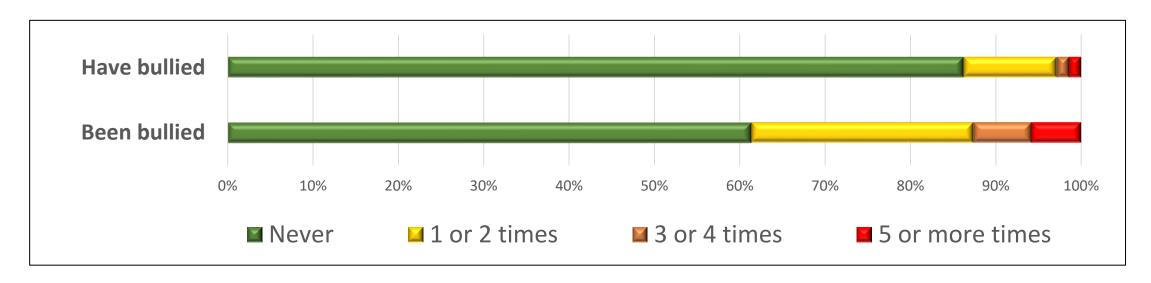
- Higher grades were associated with <u>lower</u> odds of depression or anxiety
- Higher perceptions of teacher quality and school environment were associated with <u>lower</u> odds of anxiety and depression

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the other key predictor variables.









- Children of enlisted personnel and Army personnel were more likely to report bullying (perpetration).
- Children of enlisted personnel, females, and younger children (11-12) were more likely to report being bullied (victim).







	Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
Bullying	Reference group No	Bullying (perpetrator)	<b>1.49</b>	1.30	1.71
Bullying	Reference group No	Being Bullied (victim)	<b>1.86</b>	1.70	2.02

• Both being bullied and bullying were associated with significantly <u>higher</u> odds of screening for anxiety or depression.

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the other key predictor variables.





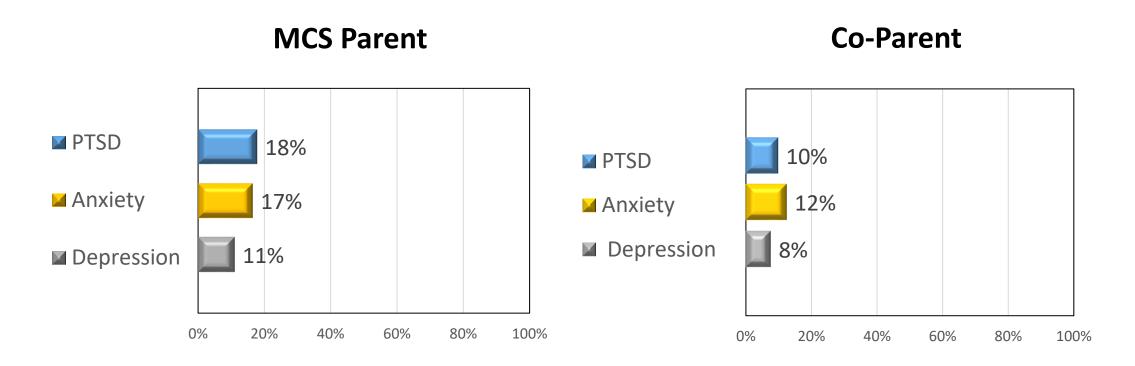
# STUDY FINDINGS: PARENTAL RELATIONSHIPS



#### PARENTAL MENTAL HEALTH



#### PARENT REPORT





#### PARENTAL MENTAL HEALTH



PARENT REPORT (CONTINUED)

	Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
Parental Mental Health	Reference group Negative Screen for PTSD/Anxiety/Depression	Service Member Mental Health	<b>1.441</b>	1.210	1.715
Parental Mental Health	Reference group Negative Screen for PTSD/Anxiety/Depression	Co-parent Mental Health	<b>1.363</b>	1.099	1.691

• Either parent screening positive for PTSD, Anxiety, or Depression was associated with a <u>higher</u> risk that their child would screen positive for anxiety or depression.

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the presence of the other key predictor variables.

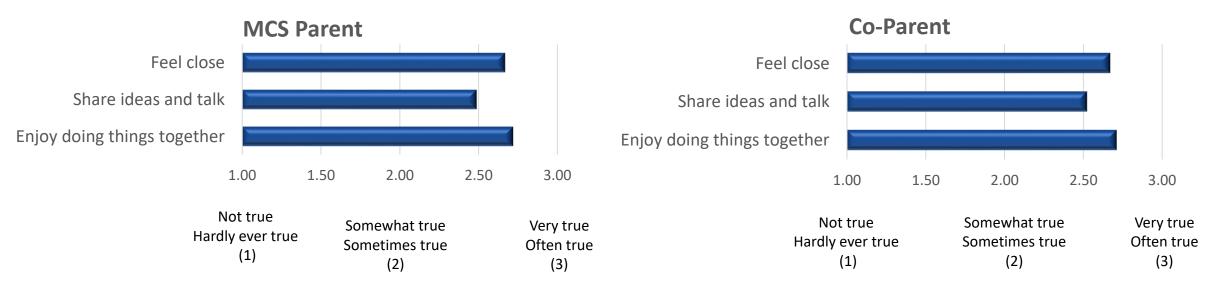


## PARENT-CHILD RELATIONSHIP QUALITY



#### ADOLESCENT REPORT

How true is each of the following statements about your relationship with your parent(s)?



- Male adolescents, children of Air Force and Navy personnel, and children of Sr. Officers reported better relationship quality across both parents.
- Children of veterans reported worse relationship quality across both parents.

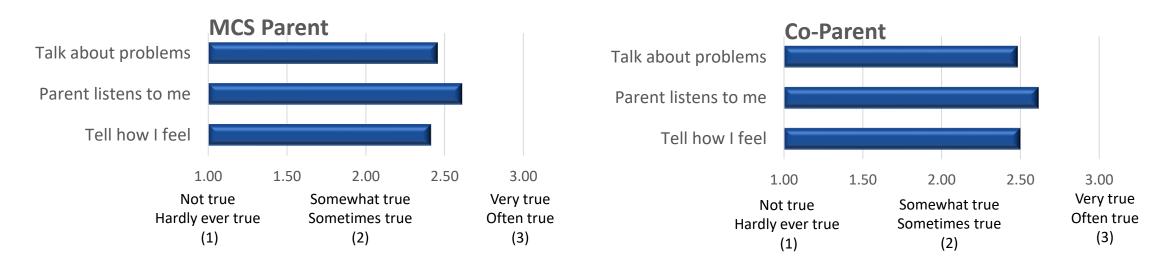


## PARENT-CHILD COMMUNICATION



#### ADOLESCENT REPORT

How true is each of the following statements about your relationship with your parent(s)?



- Male adolescents, children of Navy personnel, and younger children reported better communication across both parents.
- Children of veteran families reporter worse communication.

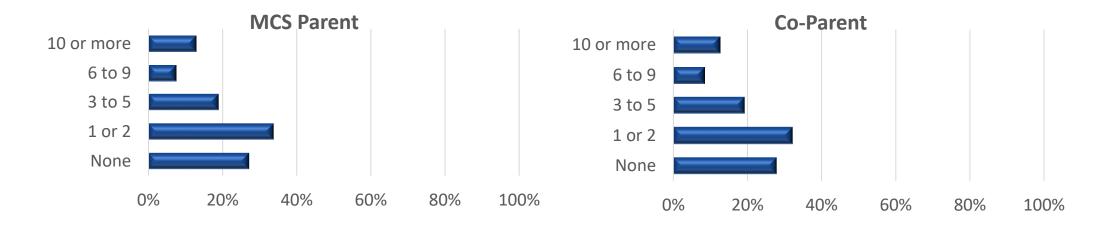


### PARENT-CHILD CONFLICT



**ADOLESCENT REPORT** 

During the last 12 months, how many times have you argued or had a fight with [parent]?



• The **children of Sr. Officers** reported fighting or arguing with their parents more often than the children of enlisted personnel, however the average number of arguments or fights was low (1 or 2).



#### PARENT-CHILD RELATIONSHIP



#### ADOLESCENT REPORT

	Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
MCS Parent	Reference group Continuous	Relationship Quality	.50 🌉	.44	.58
MCS Parent	Reference group Continuous	Communication	.44 🌉	.39	.50
MCS Parent	Reference group Continuous	Conflict	<b>1.35</b>	1.28	1.43
Co-Parent	Reference group Continuous	Relationship Quality	.51 🦊	.44	.59
Co-Parent	Reference group Continuous	Communication	.44 🖖	.38	.50
Co-Parent	Reference group Continuous	Conflict	1.37	1.29	1.45

• Adolescent-reported dimensions of parent-child relationship quality were all significantly associated with adolescent mental health.

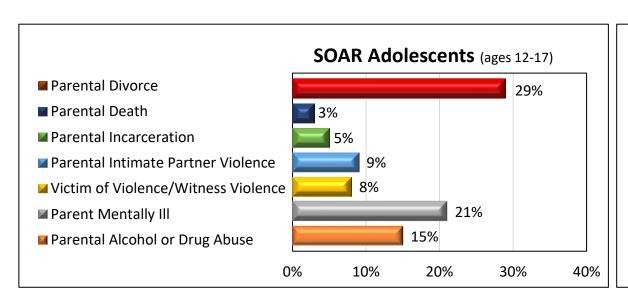
Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the presence of the other key predictor variables.

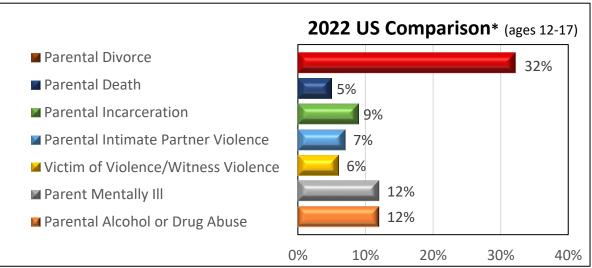


#### ADVERSE CHILDHOOD EVENTS



**PARENT REPORT** 





- Children of enlisted personnel, older adolescents, and children of soldiers were more likely to have higher total scores.
- This pattern was consistent across individual items.

Note: ANOVA used for significance testing and all differences presented on the slide are statistically significant bivariate associations (p<0.05).

\*National Survey of Children's Health (2022), Health Resources and Services Administration, Maternal and Child Health Bureau. <a href="https://mchb.hrsa.gov/data/national-surveys">https://mchb.hrsa.gov/data/national-surveys</a>
2022 SOAR Parent Survey Q68







**PARENT REPORT** 

Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
Reference group Continuous	Adverse Childhood Events	1.20	1.13	1.27

• The odds of screening positive for anxiety and depression are <u>higher</u> for adolescents with exposure to adverse childhood events.

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the presence of the other key predictor variables.





# STUDY FINDINGS: FAMILY FACTORS



## **FAMILY FACTORS**



ADOLESCENT REPORT

#### **Civic Modeling**

My parents vote in elections.

My parents follow news about politics and current events.

My parents are active in improving our neighborhood.

My parents volunteer in our community.

My parents take actions to protect the environment (e.g., recycle, use less electricity).

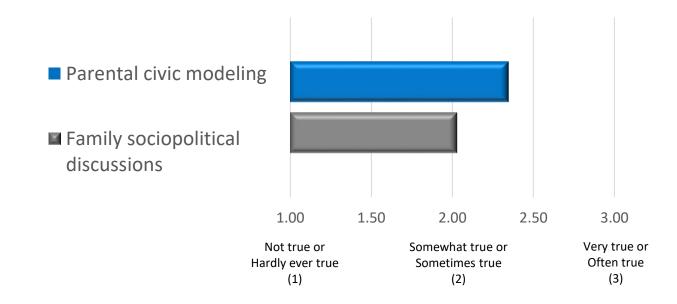
My parents would take action when they see others being treated unfairly

#### **Sociopolitical Discussions**

We talk about politics and current events.

We talk about times when people are treated unfairly.

We talk about problems facing our community.



2022 SOAR Adolescent Survey Q43, Q44, Q45, Q46 **41** 



## FAMILY FACTORS ADOLESCENT REPORT



Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
Reference group Continuous	Family Sociopolitical Discussions	.809 🕹	.707	.925
Reference group Continuous	Civic Modeling	.644 🦊	.536	.774

- Sociopolitical discussions were associated with significantly <u>lower</u> odds of screening for anxiety or depression.
- Family civic modeling was associated with significantly <u>lower</u> odds of screening for anxiety or depression.

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the other key predictor variables.

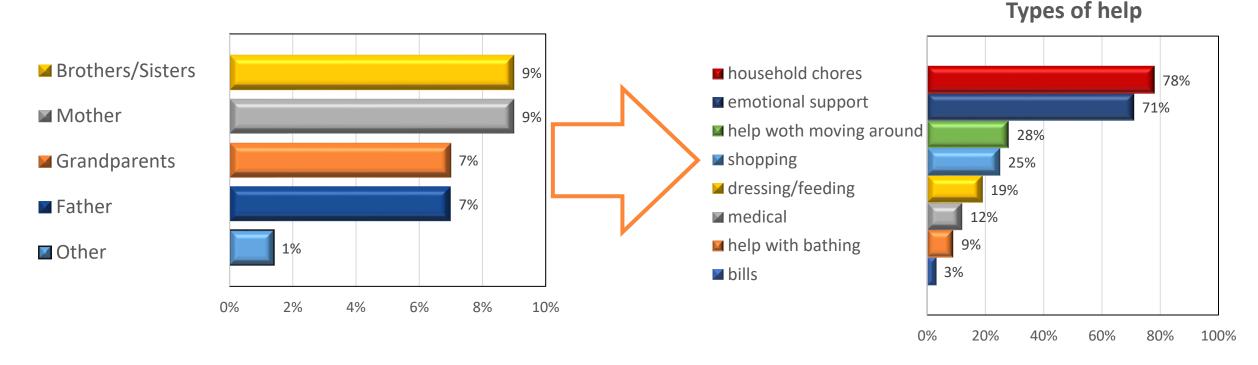


#### **ADOLESCENT CAREGIVING**



PARENT REPORT

During the last 12 months, has your child cared for any of the following people in your household who are sick, elderly, frail, disabled, or mentally ill?



21% of SOAR adolescents provided care for someone in their household during the last 12 months.

2022 SOAR Parent Survey Q69



#### **ADOLESCENT CAREGIVING**



PARENT REPORT

Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
Reference group No	Adolescent Caregiving	<b>1.26</b>	1.05	1.51

• Adolescent caregiving was associated with a significantly <u>higher</u> risk for adverse mental health.

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the presence of the other key predictor variables.

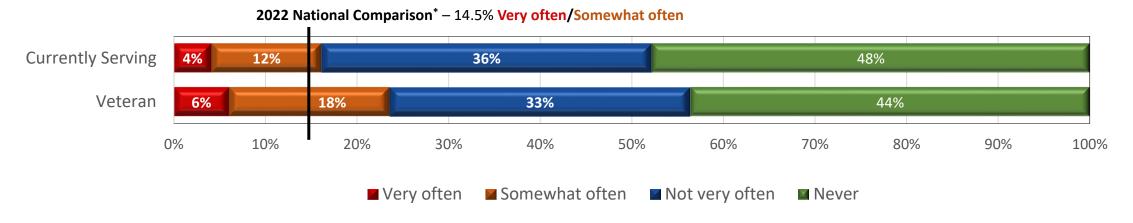


#### **FINANCIAL HARDSHIP**



PARENT REPORT

Since your child was born, how often has it been very hard to get by on your family's income, for example, it was hard to cover the basics like food or housing?



- Most parents report that they have never had difficulty covering the basics like food or housing.
- Currently Serving Parents of older children, enlisted personnel and Jr officers were more likely to report Very often/Somewhat often having financial hardship.
- Veteran Enlisted and Jr officers were more likely to report Very often/Somewhat often.

<sup>\*</sup>National Survey of Children's Health (2022), 12-17 years olds, Health Resources and Services Administration, Maternal and Child Health Bureau. https://mchb.hrsa.gov/data/national-surveys Note: All differences presented on the slide are statistically significant bivariate associations (p<0.05).

2022 SOAR Parent Survey Q67







	Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
Risk Factor	Reference group Not often/never	Financial Hardship	<b>1.30</b>	1.07	1.58

 Reporting financial hardship since child was born was associated with significantly <u>higher</u> odds of an adolescent screening for anxiety or depression.

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the other key predictor variables.





## STUDY FINDINGS: SUPPORT FACTORS

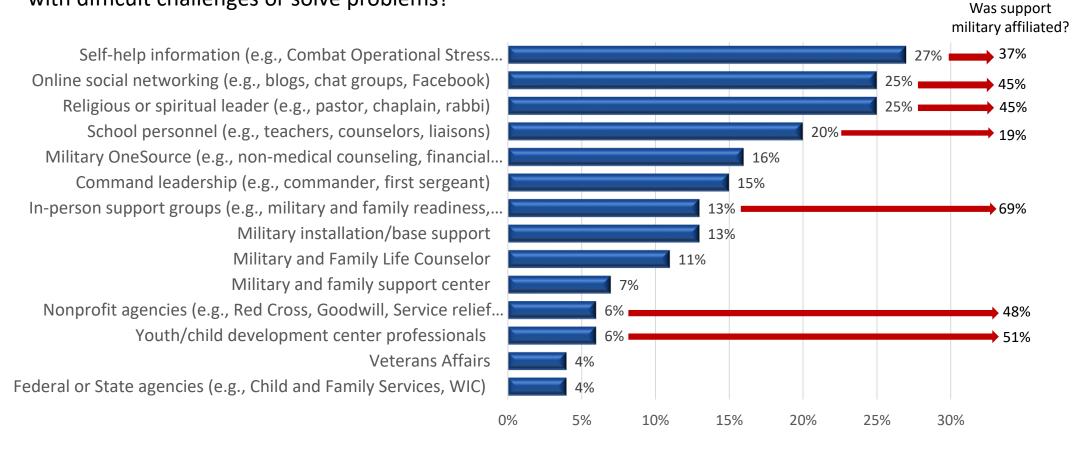


#### **SUPPORT SERVICES**



PARENT REPORT (ACTIVE-DUTY SAMPLE)

During the last 12 months, have you used any of the following sources of support to help you or your family cope with difficult challenges or solve problems?





#### **EXTRACURRICULAR ACTIVITIES**



PARENT REPORT

During the last 12 months, in how many of the following kinds of activities has your child participated?

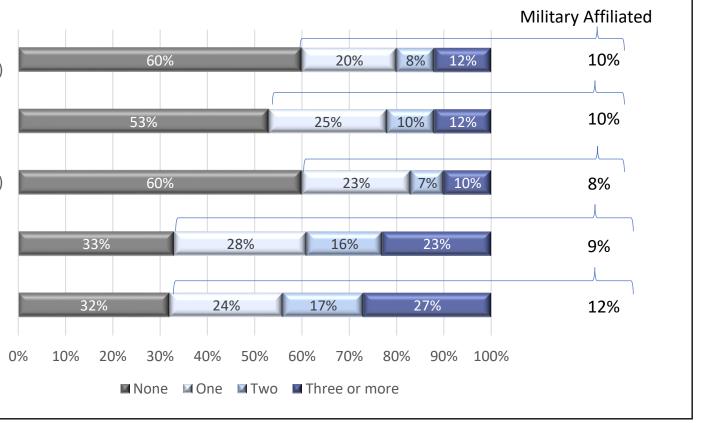
Leadership and community service (e.g., Youth of the Year, Congressional Awards, youth councils, 4-H, Scout programs)

Education, STEM, and career development (e.g., homework assistance, tutoring, mentor programs, internships, college fairs)

Health and wellness (e.g., financial readiness, cooking)

Art programs (e.g., art classes, music lessons, band, dance classes, theater)

Sports or recreation programs (e.g., individual or team sports, fishing, swimming lessons, geo-hunt)



2022 SOAR Parent Survey Q61



#### **ACTIVITIES AND SUPPORT SERVICES**



	Category	Predictor	Effect Size (Odds Ratios) >1 = Higher Odds	95% CI Lower Bound	95% CI Upper Bound
Extracurricular Activities	Reference group No	Leadership and community service	0.73	0.63	0.86
Extracurricular Activities	Reference group No	Sports or recreation programs	0.58	0.49	0.68
Support Services	Reference group No	Support Services (All)	<b>1.25</b>	1.07	1.47
Support Services	Reference group No	Support Services (Military)	<b>1.23</b>	1.03	1.48

- Participation in leadership programs/community service and sports/recreation were associated with significantly lower odds of anxiety or depression.
- Participation in support services were associated with significantly <u>higher</u> odds of anxiety or depression.

Note: Education, STEM, career development, Health and wellness, and Art programs were not significantly associated with adolescent screen for anxiety or depression.

Note: These logistic regressions analyses controlled for adolescent age, sex, and service member branch, component, paygrade, and current military status. The predictor variables indicated by reference groups are separate models; the data are presented to show the controlled impact of these predictors irrespective of the other key predictor variables.



#### MILLENNIUM COHORT PROGRAM TEAM



- Isabel Altarejos, MPH
- Anna Baccetti, MPH
- Wisam Barkho, MS
- Lauren Bauer, MPH
- Satbir Boparai, MBA
- Ania Bukowinski, MPH
- Felicia Carey, PhD, MPH
- LT Nathan Carnes, PhD
- Sarah Carinio, BS
- Sheila Castañeda, PhD
- Samuel Chung, PhD
- Rebecca Consigli, BS
- James Davies, BS
- Mike Dorell, BS
- Alejandro Esquivel, MPH
- Clinton Hall, PhD, MPH
- · Judith Harbertson, PhD, MPH

- Toni Rose Geronimo-Hara, MPH
- Gia Gumbs, MPH
- Lauren Jackson, BS
- Isabel Jacobson, MPH
- Mark Jamil, BS
- Claire Kolaja, MPH
- Cynthia LeardMann, MPH
- Crystal Lewis, EdD
- Denise Lovec-Jenkins
- Hope McMaster, PhD
- Robyn McRoy, MPH
- David Moreno Ignacio, BS
- Lani Pinon-Fair, BS
- Travis Ray, PhD
- Erin Richard, PhD, MPH
- Sabrina Richardson, PhD
- · Anna Rivera, MPH

- Scott Roesch, PhD
- Rudolph Rull, PhD, MPH
- Neika Sharifian, PhD
- Beverly Sheppard, BS
- Steven Speigle
- Valerie Stander, PhD
- Karen Tannenbaum, PhD
- Daniel Trone, PhD
- Xin Tu, PhD
- Javier Villalobos, MS
- Jennifer Walstrom
- Kelly Woodall, MPH
- Nikki Wooten, PhD
- Katie Zhu, MPH

Note: SOAR team members are in blue





#### **CONTACT INFORMATION**

**Hope McMaster, PhD** 

Hope.m.mcmaster.civ@health.mil

DoD Center for Deployment Health Research

Naval Health Research Center





## ADDITIONAL SLIDES



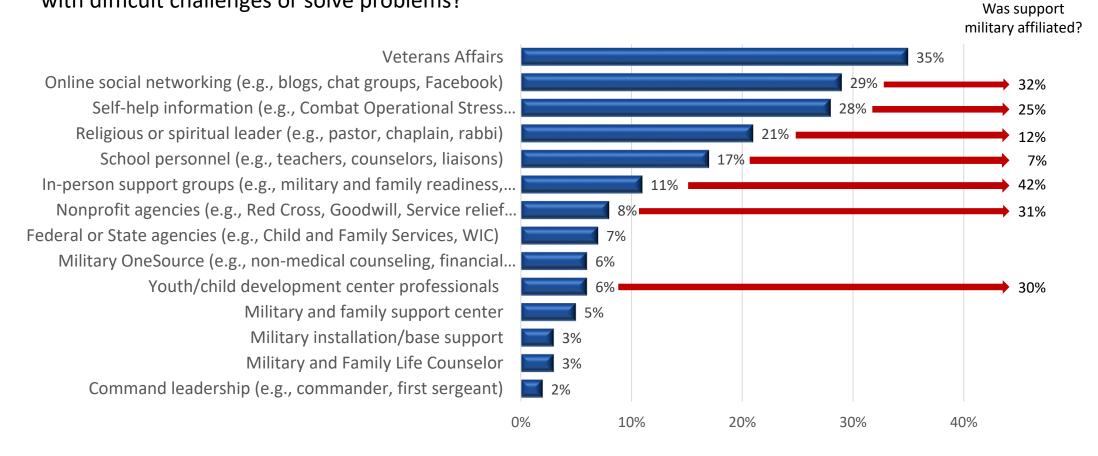
#### **SUPPORT SERVICES**



PARENT REPORT (VETERAN SAMPLE)

During the last 12 months, have you used any of the following sources of support to help you or your family cope with difficult challenges or solve problems?

Was support





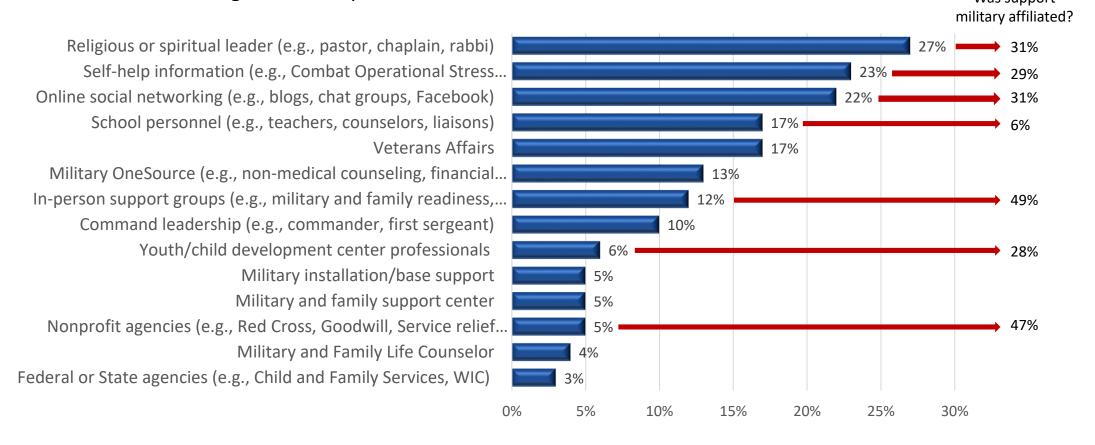
#### **SUPPORT SERVICES**



PARENT REPORT (RESERVE/NATIONAL GUARD SAMPLE)

During the last 12 months, have you used any of the following sources of support to help you or your family cope with difficult challenges or solve problems?

Was support



2022 SOAR Parent Survey Q34

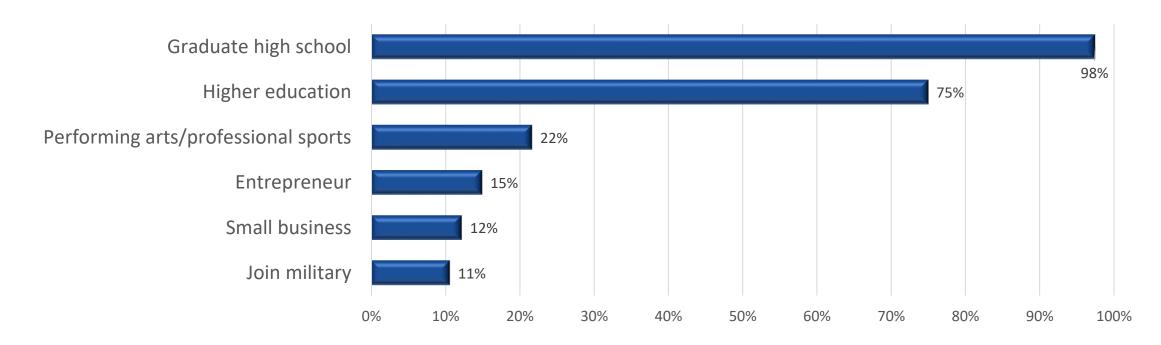




#### **EDUCATION AND CAREER ASPIRATIONS**

ADOLESCENT REPORT

#### Do you plan to...







## **CONGRESSIONAL REPORT ANALYSES**



#### **CONGRESSIONAL REPORT ANALYSES**



 The STRONG Veterans Act requires the Secretary of Veteran Affairs and Secretary of Defense to prepare a report to Congress on the impacts of servicemember PTSD and depression on spouses, children, and caregivers. Tables of Descriptive Statistics for Military Parent and Adolescent Characteristics

**Table 1. MCS Parent Mental Health** 

PTSD/Depression	%(n) or M(SD)
Probable MCS Parent PTSD (% yes)	17.19 (648)
Probable MCS Parent depression (% yes)	10.61 (400)
Chronic PTSD <sup>a</sup> (% yes)	7.98 (269)
Chronic depression <sup>a</sup> (% yes)	4.07 (137)
Comorbid PTSD-Depression	-
Neither PTSD or Depression	79.01 (2981)
PTSD only	10.29 (388)
Depression only	3.71 (140)
Both PTSD and depression	6.90 (260)
Chronic PTSD/depression (% yes)	10.71 (338)

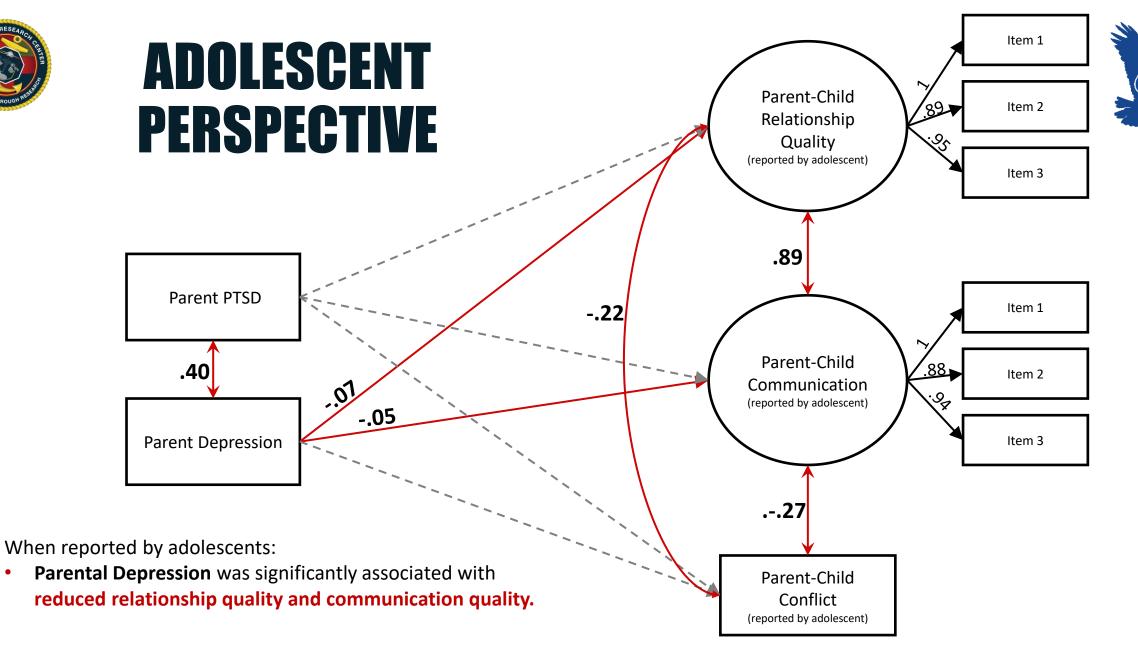
<sup>&</sup>lt;sup>a</sup>Chronic conditions were derived from data linkage to the 2019-21 Millennium Cohort Study survey assessment with the 2022-23 SOAR baseline survey assessment. Mean time between assessments was 2.78 years.

**Table 2. Parent-Child Relationship Quality** 

Parent-Child Dynamics	%(n) or M(SD)
Parent-Child Conflict (1-5) – Parent Self-reported	2.49 (0.87)
Parent-Child Communication (1-5) – Parent Self-reported	4.09 (0.76)
Parent-Child Conflict (0-4) – Adolescent Self-reported	1.45 (1.31)
Parent-Child Communication (1-3) – Adolescent Self-reported	2.49 (0.58)
Parent-Child Relationship Quality (1-3) – Adolescent Self-reported	2.63 (0.50)

58

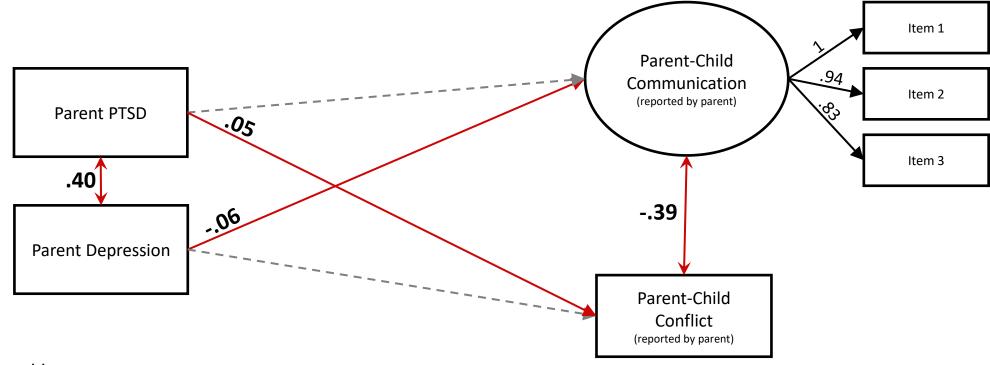






#### PARENT PERSPECTIVE





When reported by parents:

- Parental Depression was significantly associated with decreased communication quality.
- Parental PTSD was significantly associated with increased conflict.