

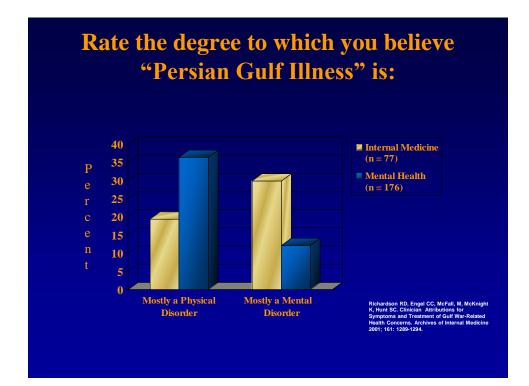
Researcher's and Clinician's Beliefs about Gulf War symptoms

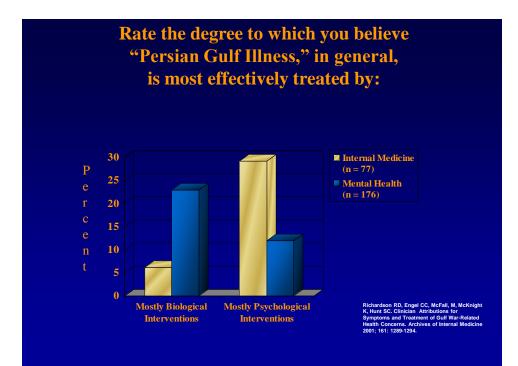


What is it?

What caused it?

What can be done to help?



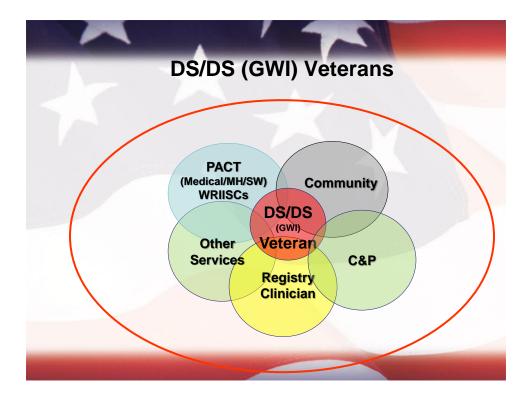


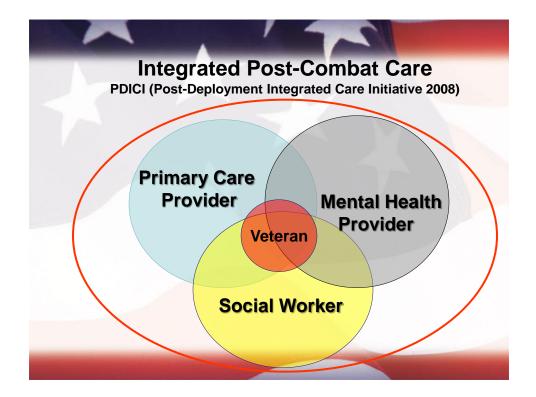
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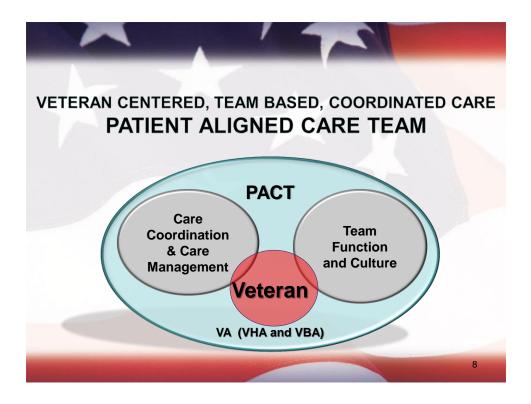
Gulf War Veterans' Beliefs about their Symptoms

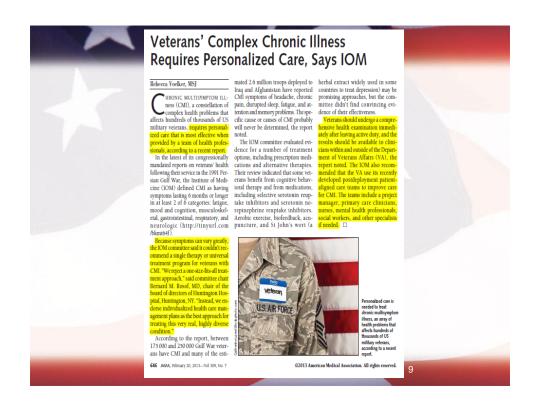


What is it? What caused it? What can I do about it? Who or what might help? What is going to happen?









Cognitive Behavioral Therapy and Aerobic Exercise for Gulf War Veterans' Illnesses

A Randomized Controlled Trial

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N 1990 AND 1991, 700,000 US troops were deployed to the Per-sian Gulf in what became known as the Gulf War. Upon their return,

many Gulf War veterans from both US and other allied forces began to re-port chronic, unexplained fatigue, pain,

For editorial comment see p 1436.

1396 JAMA, March 19, 2003-Vol 289, No. 11

Context Gulf War veterans' illnesses (GWVI), multisymptom illnesses characterized

Context: Guin Vail veterans unesses (GVVV), multisymptom interses characterized by persistent pain, fatigue, and cognitive symptoms, have been reported by many CdII War veterans. There are currently no effective therapies available to treat GVVVI. **Objective** To compare the effectiveness of cognitive behavioral therapy (CBI), esc-ercise, and the combination of both for improving physical functioning and reducing the symptoms of GVVI.

the symptoms of CWVI. Design, Setting, and Patients: Randomized controlled 2×2 factorial trial con-ducted from April 1999 to September 2001 among 1092 Culf War veterans who re-ported at least 2 of 3 symptom hypes (fatigue, pain, and cognitive) for more than 6 months and at the time of screening. Treatment assignment was unmasked except for a masked assessor of study outcomes at each chincial site (18 Department of Vet-erans Affairs [VA] and 2 Department of Defense [DOD] medical centers).

Easts mans (reg and 2 department of before [DOO] model centers). Interventions: Veterans were randomly assigned to receive usual care (n=271), con-sisting of any and all care received from inside or outside the VA or DOD health care systems; CET [but usual care (n=266), exercise sessions were 60 minutes and CET sessions were 60 to 50 minutes; both met weekly for 12 weeks.

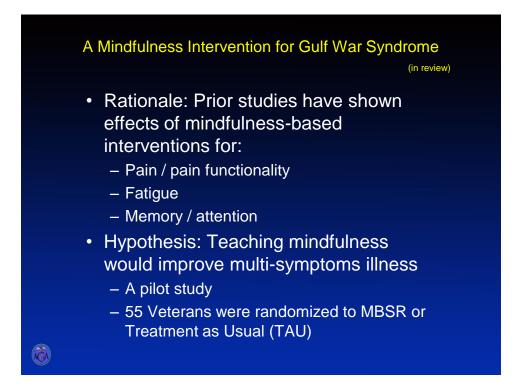
Main Outcome Measures The primary end point was a 7-point or greater in-crease (improvement) on the Physical Component Summary scale of the Veterans Short Form 36-Item Health Survey at 12 months. Secondary outcomes were standardized measures of pain, fatigue, cognitive symptoms, distress, and mental health function-ing. Participants were evaluated at baseline and at 36, and 12 months.

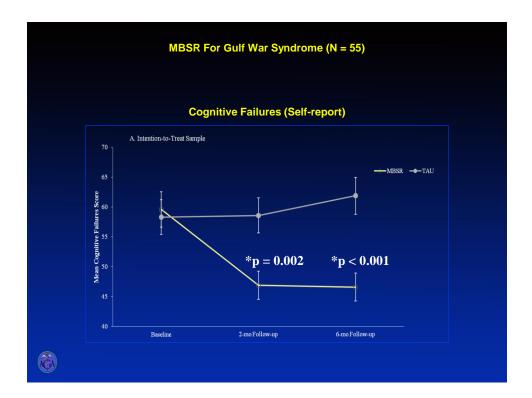
Ing. Participants were evaluated at baseline and at s, e, and 12 months. Results: The percentage or Verterians with improvement in physical function at 1 year was 11.5% for usual care, 11.7% for exercise alone, 18.4% for CBT plus exercise, and 18.5% for CBT alone. The adjusted odds ratios (OR) for improvement in exercise, CBT, and exercise plus CBT vs usual care were 1.07 (95% con1dence interval [CI], 0.63-1.82), 1.72 (95% C, 0.93-1.23), and 18.40 (95% C, 0.95-5.5), respectively. The OR for the overall (marginal) effect of receiving CBT (in-552) vs no CBT (in-553) vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no ceres (in-556) vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no ceres (in-556) vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no ceres (in-556) vs vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no ceres (in-556) vs vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no ceres (in-556) vs vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no ceres (in-556) vs vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no ceres (in-556) vs no vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no ceres (in-556) vs no vs 1.71 (95% C, 0.15-2.53) and for exercise (in-550) vs no vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no vs 1.71 (95% C, 0.15-2.53) and for exercise (in-551) vs no vs 1.71 (95% C, 0.15-2.53) and for exercise (in-656) vs 1.550 (in-656) and for exercise (in-656)

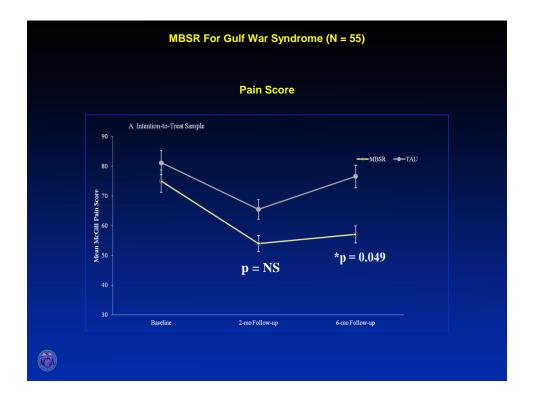
Conclusion Our results suggest that CBT and/or exercise can provide mod for some of the symptoms of chronic multisymptom illnesses such as GWVI dest relief

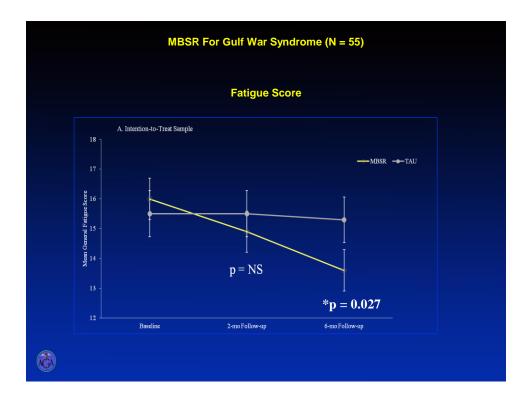
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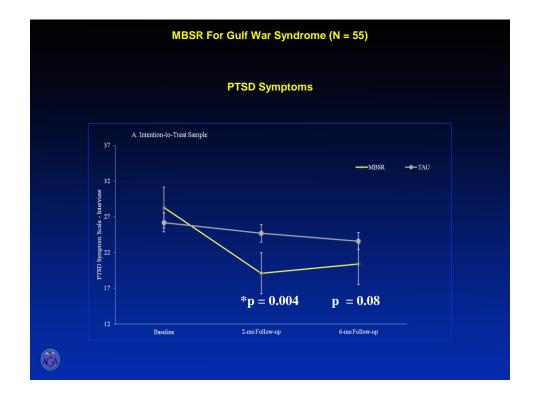
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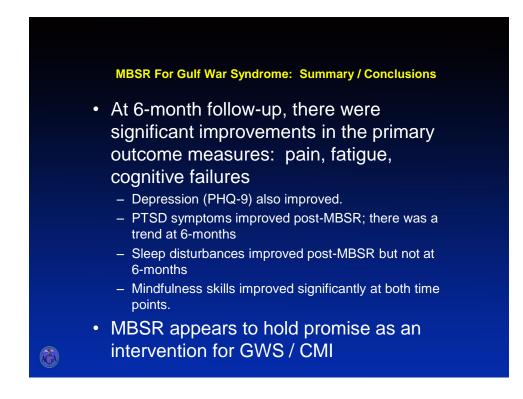






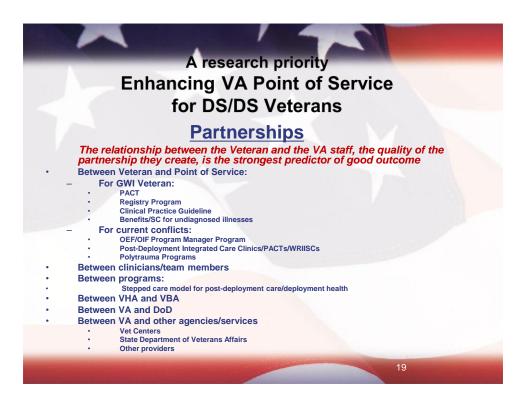














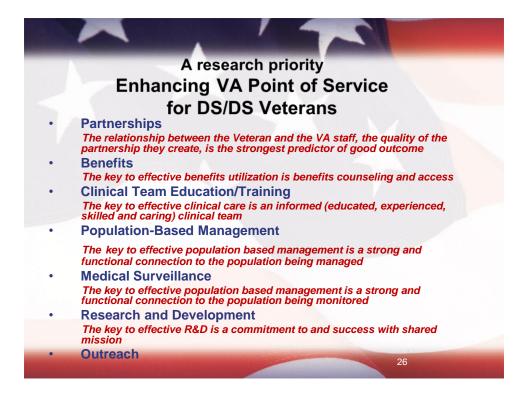


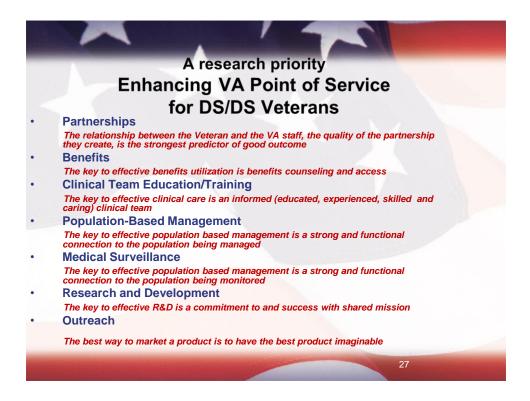


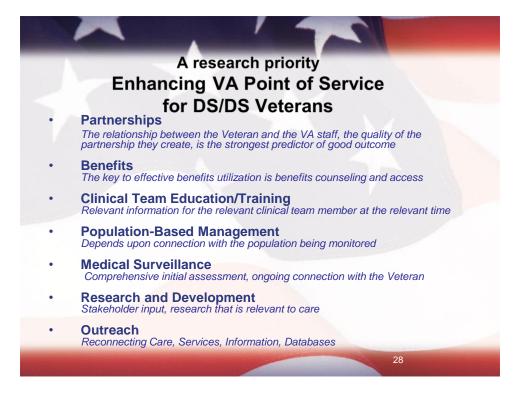


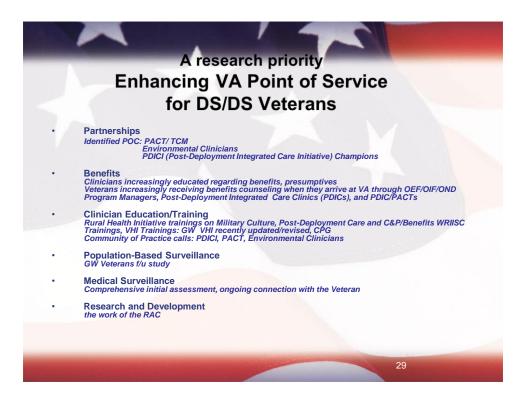


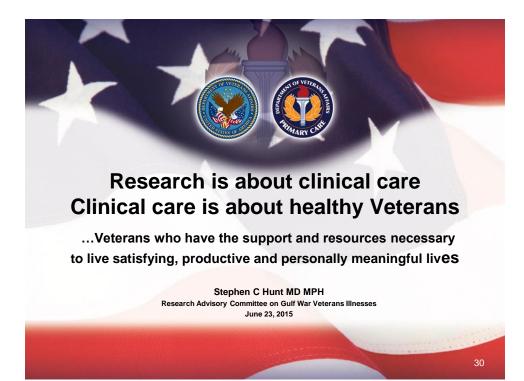






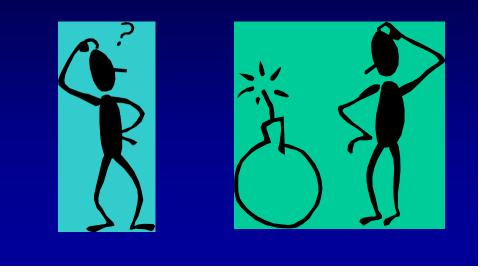






Beliefs

What we believe to be true is true to us.





What we <u>do</u> know about GW veterans health...

- GW veterans have more medically unexplained symptoms than veterans of other conflicts
- GW veterans have a particular constellation of symptoms (fatigue, muscle/joint pain and memory/concentration problems) more often than combat veterans from other conflicts
- GW veterans have more concerns about, and likely more exposure to, a wider variety of chemicals and environmental agents than combat veterans of other conflicts
- GW veterans have poorer general health and functioning than expected
- GW veterans had less exposure to traditional combat stressors but more exposure to chemical/biological stressors than combat veterans from other conflicts

What we <u>don't</u> know about GW veterans health...

- The specific effects of many of the numerous combat related exposure on post-war health
- The specific cause(s) of the chronic multi-symptom illnesses so commonly see in GW veterans
- The relative contributions of the many combat related exposures and experiences to specific post-war health symptoms and concerns
- The long term health risks of many of the numerous combat related exposures and experiences

What we <u>do</u> know about individuals with unexplained symptoms...

- Unexplained symptoms are not unique to GW veterans
- Most individuals coming in to see their primary care doctors have symptoms for which a specific cause will not be found
- In many cases, we do not have to know the specific cause of a symptom to effectively treat the symptom
- Attributing a symptom to an incorrect cause may result in incorrect or ineffective management of the symptoms
- Living with medically unexplained symptoms or chronic multi-symptom illness can be more challenging than living with a diagnosed disease

To say that we do not know the cause of a symptom is <u>not</u> to say...

- We do not care
- We are not doing our best
- Your health concerns are not real
- Your symptoms do not matter
- These health concerns are not serious
- There is nothing we can do

To say that we do not know is to say...

- This is complex; to be simplistic is to dishonor the complexity of this reality...there are no "magic bullets"...treatment will take time and a team effort
- It is important not to guess or to act upon assumptions
- It matters a great deal that we are honest and straightforward
- It is more important than ever to pay attention, take care of one's self, stay involved in care, support ongoing research
- Our goal is not to eradicate all symptoms related to disease; our goal is to mitigate symptoms, improve functioning and optimize quality of life for the Veteran and his/her family

What we <u>do</u> know about treating individuals with unexplained symptoms...

- To effectively manage unexplained symptoms:
 - Comprehensive initial assessment and testing
 - Effective communication and education of Veteran and teams
 - Validation of the patient's experience and symptoms; acknowledgement that "it is real"
 - A willingness to acknowledge complexity and "not knowing"
 - Symptomatic treatment and comprehensive support
 - Patient centered: health maintenance, preventive medicine, health recovery; shift from medical to self-management approach
 - Ongoing monitoring of care and status; life long commitment
 - Ongoing research into the specific syndrome/condition involved