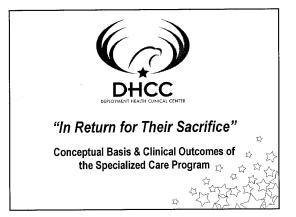
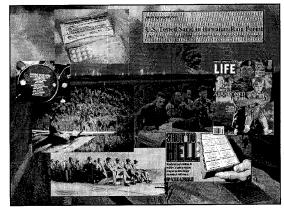
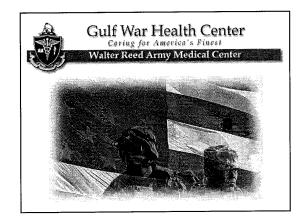
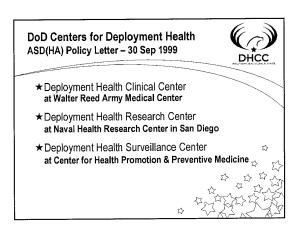
Presentation 9 – Charles Engel









DHCC Mission

Improve post-deployment health care for Department of Defense health care beneficiaries and Reserve Component

Specialized Care Program Mission Statement

Deliver a coordinated multidisciplinary treatment program for those with persistent, disabling, or treatment refractory symptoms related to the Gulf.

Specialized Care Program History of the Program

- Initiated by LTG Blanck in January 1995 per tasking from DoD/HA
- Evidence-based model adapted from chronic pain programs
- Validated for treating Gulf War veterans by a multi-institutional expert panel
- Program started March 1995
- over 600 veterans & 100 cycles

Specialized Care Program Candidates for Care

Anyone with persistent, disabling Gulf War-related symptoms that:

- remain undiagnosed after appropriate medical evaluation; and/or
- are unlikely to respond to specific biomedical treatments.

Specialized Care Program Many symptoms and services

| | <u>mean</u> | <u>sd</u> |
|---------------------|-------------|-----------|
| Symptom Count | 9.7 | (3.6) |
| CCEP Visits | 16.9 | (8.2) |
| Other Visits (6-mo) | 12.5 | (25.2) |
| CCEP Tests | 62.0 | (28.8) |
| CCEP Diagnoses | 5.9 | (2.3) |
| Med Fills (6-mo) | 13.1 | (10.9) |
| | | |

Successful Intervention Requires...

- 'embracing the veteran' to build trust
- · carefully coordinated delivery
- many medical perspectives
- · comprehensive intervention
- treatment of overall functional status and quality of life rather than a narrow set of symptoms

Specialized Care Program Demographics (n=78)

| | SCP | CCEP | All |
|-----------|-------------|------|-----|
| Age (GW) | 33.3 (±8.3) | 26 | 26 |
| Females | 27% (20) | 12% | 7% |
| Caucasian | 57% (42) | 57% | 70% |
| Officers | 10% (7) | 11% | 10% |
| Army | 73% (54) | 81% | 50% |
| Active | 74% (55) | 83% | 83% |

Disease-Centered Care

The primary goal is to improve the medical status of a disease. Disease status is typically determined through objective indices such as examination signs or laboratory tests.

"Medicine as Usual" History Exam Testing Diagnosis Treatment

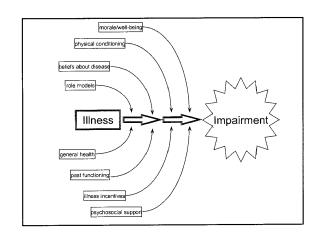
Person-Centered Care

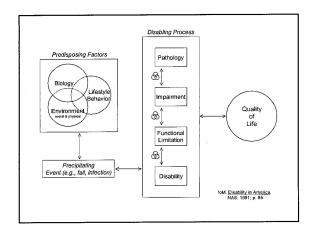
The primary goal is to facilitate change in health-related behavior. The provider and patient collaboratively negotiate the exact goals of care. Behavior such as verbal reports of symptoms, quality of life, or functional capacity are used to monitor treatment success.

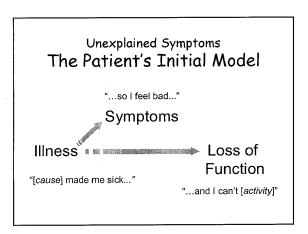
From Symptom to Disability Illness as Behavior

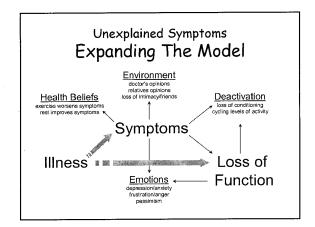
Perception Belief Response

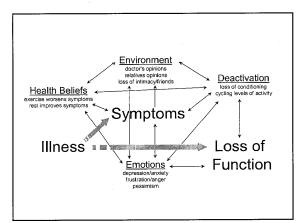
- Perception: result of physiologic process
- Belief: determined largely by experience
- Response:
 - > behavior
 - > emotion
 - > physiology





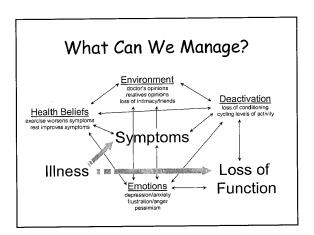






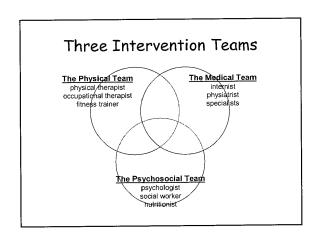
A Reverberating System

The factors determining prognosis among chronic illnesses are often far more complex than simply the cause of the illness.



Specialized Care Program Intensive Evaluation & Treatment

- CCEP & multidisciplinary reassessment
- 3-week intensive outpatient program
- 4 to 8 patients per cycle
- · Key Objectives:
 - » Form symptom management plan
 - » Coordinate primary care follow-up



Specialized Care Program A Typical Day

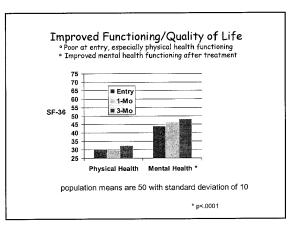
| 0720 | Warm-Up/Stretching |
|------|-----------------------------|
| 0800 | Medical System Review |
| 0900 | Occupational Therapy |
| 1 | Physical Therapy |
| 1 | Individual Counseling |
| 1115 | Team Rounds |
| 1200 | Lunch/Nutritionist |
| 1230 | Autonomic Response Training |
| 1300 | Occupational Therapy |
| 1 | Physical Therapy |
| 1 | Individual Counseling |
| 1500 | Participatory Seminar |
| 1600 | End of Day |
| | |

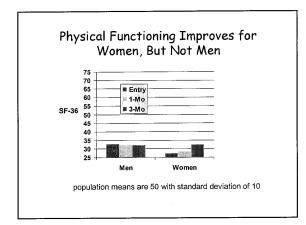
Specialized Care Program Participatory Seminars

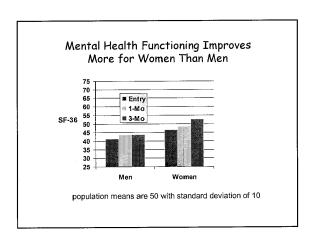
- · Orientation & overview
- Illness series:
 Illness and Impairment
 Acute and chronic illness
 Illness and emotions
- Users' Guide to:
 Your doctor
 Prescription meds
 Disability compensation
 Medical labs & tests
- Learning about your body:
 Activity and morale
 The nervous system
- Learning about body (cont'd): Impact of diet on symptoms
- Review of common symptoms
 Strategies for coping with illness
 - Overcome illness flares
 Pacing
 Sleep hygiene
 Goal-setting
 Overcoming inactivity
 - Overcoming inactivity
 Autonomic Training
 Problem-solving
 Communication skills

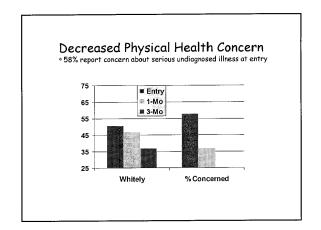
Specialized Care Program Demographics (n=78)

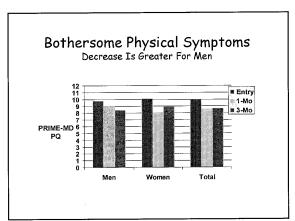
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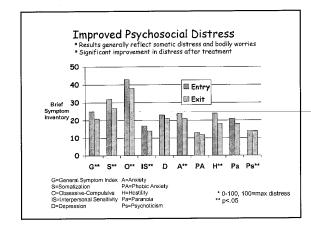












Specialized Care Program Summary of Outcomes

- · At program entry --
 - > High users of health care
 - › High numbers of bothersome physical symptoms
 - > Poor physical and emotional functioning
- · Significantly improved after treatment --
 - > mental health-related quality of life
 - > level of physical health concern
 - > level of psychosocial distress

Limitations

- · Lack of a control group of comparable veterans receiving usual medical care or another active intervention
- · Improvements are global but modest

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

A Randomized Controlled Trial

Sum T. Domin, MD, Doniel J. Claivs, MD; Charles C. Engel, Jr. MD, MPB; Peter Courtins, MPB; Peter Podiner, PMD; Drivid A. Williams, PhD; Jonnes S. Skioner, PhD; Antiel Back Indices, 301; Thomas Tsylor, MD; Lewis R. Kari, Scipl. Sephanic Segg. PhD: Stephen C. Hunt, MD; Cayabia M. Dougherry, 1781; Sulph D. Bichardson, PhD; Charles K. Rode, MD; Williams Bordgrave, MD; Sedria Allona, MD; Philippe Chilidel, MD; Mignert Byan, MD, Philippe Chilidel, MD; Mignert Byan, MD, WPB; Genger CC, Forn, MD, MPH; Lang. Philippe Chilidade, DIS Margaret Ryan, IIII, MPIA Gregory C. Gray, MD, All'HL, Larry Lutwick, MD; Dorothy Norwood, MD; Samantho Smith, PhD, Michael Everson, PhD; Warren Blackburn, MD; Wude Martin, MD; J. McLeud Griffiss, MD; Robert Cooper, MD; Ed Renner, PhD, MPI; James Schmitt, MD; Coutlin McMurry, MD;

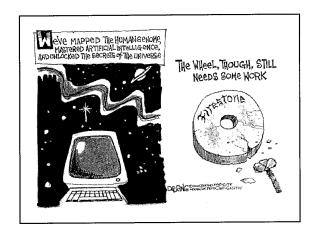
Context: Guiff War veterans' illnesses (CWVI), multisymptom illnesses charac by persistent pain, fatigue, and cognitive symptoms, have been reported by ma War veterans'. There are currently no effective therapies available to the tall CW Objective: To compare the effectiveness of cognitive behavioral therapy (CE eruse, and the combination of both for improving physical functioning and re the symptoms of GWVI.

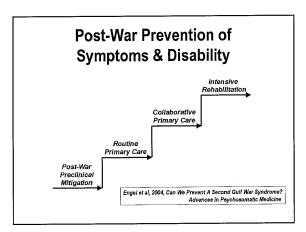
the symptoms of GWM.

Design, Setting, and Patients. Randomized controlled 2.×2 factorial to ducted from April 1999 to September 2001 among 1992 Gulf War velerans v ponted at least 2 of 3 symptom types (fatigue, pain, and cognitive) for more months and at the time of screening. Treatment assignment was unmarked for a masked assistor of study outcomes at each official size (18) Department errars Affairs (VA) and 2 Department of Defense (DOD) medical centers). Interventions Velerans were randomly assigned to receive usual cane (n=27 sisting of any and all care received from inside or outside the VA or DOD head systems; CSI fly usual care (n=286), exercise pessions view Go minutes and CSI 5 were 60 to 90 minutes, both mit weekly for 12 w

were 60 to 90 minutes; both met weekly for 12 weeks.

Akain Outcome Measures The primary end point was a 7-point or gree
crease (improvement) on the Physical Component Summary scale of the Veterar
Form 36-litem Health Survey at 12 months, Secondary outcomes were state
measures of poin, fatigue, cognitive symptoms, distress, and mental health
ing. Participants were evaluated at baseline and at 3, 6, and 12 months.





Toward Collaborative Post-Deployment Health Care

- ★ practice guidelines and clinical information systems
- **★** performance indicators and incentives
- ★ science-based technical assistance
- ★ stakeholder involvement in effort to improve care

Von Korff et al, Ann Intern Med, 1997;127:1097-1102



