



Pain Management Task Force Downrange Pain Control

What has Changed?

Program Director

Defense and Veterans Center for Integrative Pain Management (DVCIPM)





Financial Relationships

I have no financial relationships with any product or company discussed in this presentation



VELENANS CHIEF TOR INTEGRATIVE PAIN MAI

Pain Management Task Force



Agenda

- Pain Management Task Force (PMTF)
- Pain Chronification
- Acute Pain Service (APS)
 - Joint Theater Practice Guideline on Pain, Anxiety, and Dilerium
 - Why?
 - Data to support
- Proposed Role 3 (APS) Staffing
- PMTF Major Lines of Effort
 - Defense & Veterans Pain Rating Scale (DVPRS)
 - Patient Assessment Screening Tool and Outcomes Registry (PASTOR)
 - Interdisciplinary Pain Management Clinics
 - ECHO Extension for Community Healthcare Outcomes
- Suggested way forward

VETERALS CHIMATOR INTEGRATIVE PAIN MANAGER

Pain Management Task Force

Mission

NDAA 2010, Section 711:

- -Directed SECDEF to develop comprehensive pain management policy by March 2011
- -Annual Report: update to Congress required 180 days after initiation of policy and annually each 1 October

MEDCOM Pain Management Task Force and Campaign Plan:

- -Chartered by Army Surgeon General in August 2009 to make recommendations for improving clinical, administrative, and research processes involved with the provision of pain management care and services at MEDCOM facilities.
- -Tri-Service and Veterans Administration Membership
- -Task Force Report included over 100 recommendation for a holistic, multimodal, multidisciplinary pain strategy and 19 recommendations requiring establishment of a DoD-level pain management advisory/synchronization organization
- -MEDCOM operationalizing TF recommendations in the Comprehensive Pain Management Campaign Plan

» Army surgeon general presents top 10 initiatives

WASHINGTON (Army News Service, Feb. 1, 2011) -- Army Surgeon General Lt. Gen. Eric B. Schoomaker announced his Top 10 initiatives for Army medicine Jan. 27.

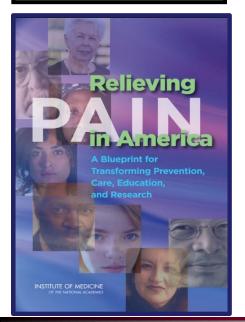
- Pain Management Task Force/Comprehensive Pain Management

http://www.armymedicine.army.mil/reports/reports.html





Office of The Army Surgeon General Pain Management Task Force Final Report May 2010 Providing a Standardized DoD and VHA Vision and Approach to Pain Management to Optimize the Care for Warriors and their Families FOUD FOR Official Use Only



Pain Management Task Force

- Provide recommendations for a MEDCOM comprehensive pain management strategy that is holistic, multidisciplinary, and multimodal in its approach, utilizes state of the art/science modalities and technologies, and provides optimal quality of life for Soldiers and other patients with acute and chronic pain.
 - » Army Pain Management Task Force Charter; signed 21 Aug 2009

- Relieving Pain in America: A Blueprint for Transforming Prevention, Care, Education and Research
 - » June 2011





John Ranby, a physician describing the care of battlefield injuries in 1776

"...to act in all respects as if your are entirely unaffected by their groans and complaints, but at the same time behave with such caution as not to proceed rashly or cruelly, and be particularly careful to avoid unnecessary pain."







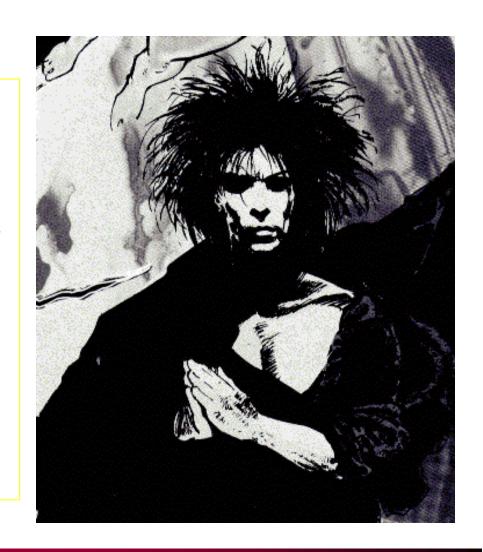
"What an infinite blessing."





19th Century Battlefield Pain Control

In 1803, Serturner, a German pharmacist, identified and isolated the main ingredient of opium, Morphine. He called this alkaloid "Morphia" after Morpheus, the Greek God of Dreams. The name "Morphine" is now used instead of Morphia because of the standard that all alkaloids end in "-ine".



















21st Century Evacuation Realities



Chronification: The Chronic Pain Cycle

Pathophysiology of Maintenance:

- -Radiculopathy
- -Neuroma traction
- -Myofascial sensitization
- -Brain, SC pathology (atrophy, reorganization)

Psychopathology of maintenance:

- -Encoded anxiety dysregulation
 - PTSD
- -Emotional allodynia
- -Mood disorder

Acute injury and pain

<u>Central</u> <u>Sensitization</u>

-Neuroplastic changes

Pathology:

- -Muscle atrophy, weakness;
- -Bone loss;
- -Immunocompromise
- -Depression
- -Substance abuse

Neurogenic Inflammation:

Glial activation

- Pro-inflammatory cytokines
- blood-nerve barrier dysruption

Peripheral Sensitization:

New Na+ channels cause lower threshold

Disability

Less active
Kinesophobia
Decreased
motivation
Increased
isolation
Role loss
Sleep disorder

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Coagulation

Muscular

Psychological

Pain Management Task Force

Consequences of unrelieved pain



Organ systems Physiologic responses

Cardiovascular Increased heart rate, peripheral vascular resistance, arterial blood

pressure, and myocardial contractility resulting in

increased cardiac work, myocardial ischemia and infarction

Pulmonary Respiratory and abdominal muscle spasm (splinting),

diaphragmatic dysfunction, decreased vital capacity, impaired ventilation and ability to cough, atelectasis,

increased ventilation/perfusion mismatch, hypoventilation,

hypoxemia, hypercarbia, increased postoperative

pulmonary infection

Gastrointestinal Increased gastrointestinal secretions and smooth muscle sphincter

tone, reduced intestinal motility, ileus, nausea, and vomiting

Renal Oliguria, increased urinary sphincter tone, urinary retention

Increased platelet aggregation, venostasis, increased deep vein

thrombosis, thromboembolism

Immunologic Impaired immune function, increased infection, tumor spread or recurrence

Muscle weakness, limitation of movement, muscle atrophy, fatigue

Anxiety, fear, anger, depression, reduced patient satisfaction

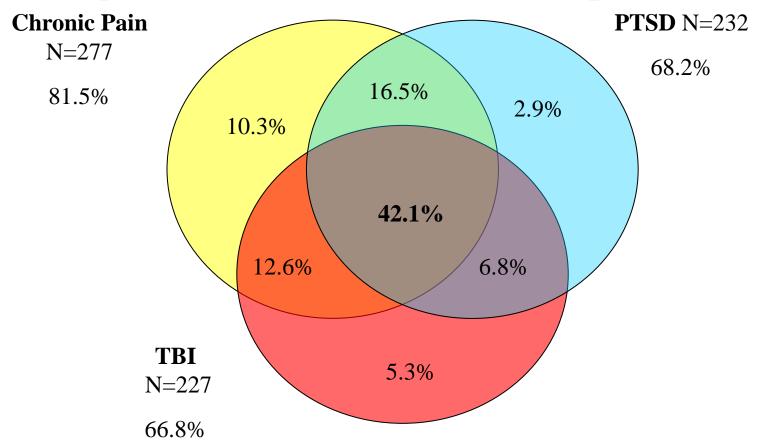
Overall recovery delayed recovery, increased need for hospitalization, delayed

return to normal daily living, increased healthcare resource

utilization, increased healthcare costs

Joshi GP, Ogunnaike BO. Consequences of inadequate postoperative pain relief and chronic persistent postoperative pain. *Anesthesiology Clin N Am* 2005 23:21-36.

Prevalence of Chronic Pain, PTSD and TBI in a sample of 340 OEF/OIF veterans with polytrauma



Lew, Otis, Tun et al., (2009). Prevalence of Chronic Pain, Post-traumatic Stress Disorder and Post-concussive Symptoms in OEF/OIF Veterans: The Polytrauma Clinical Triad. *JRRD*.

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Troops reportedly popping more painkillers

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By Gregg Zoroya, USA TODAY

WASHINGTON — Narcotic pain-relief prescriptions for injured U.S. troops have jumped from 30,000 a month to 50,000 since the Iraq war began, raising concerns about the drugs' potential abuse and addiction, says a leading Army pain expert.

The sharp rise in outpatient prescriptions paid for by the government suggests doctors rely too heavily on narcotics, says Army Col. Chester "Trip" Buckenmaier III, of Walter Reed Army Medical Center in Washington.

Mixx it Other ways to share: Yahoo! Buzz Digg Newsvine Reddit Facebook What's this?

By 2005, two years into the war, narcotic painkillers were the most abused drug in the military. according to a survey that year of 16,146 servicemembers.

MORE: Prescription drug abuse hits Mo. Army unit hard

Among Army soldiers, 4% surveyed in 2005 admitted abusing prescription narcotics in the previous 30 days, with 10% doing so in the last 12 months. Researchers said the results may have been skewed by respondents mistakenly referring to legal use of pain medication. A 2008 survey has not been released.

FIND MORE STORIES IN: Washington | Virginia | Iraq | Pentagon | Missouri | Marine Corps | Walter Reed Army Medical Center | Department of Veterans Affairs | Fort Leonard Wood | Afghanistan-era | Warrior Transition Units

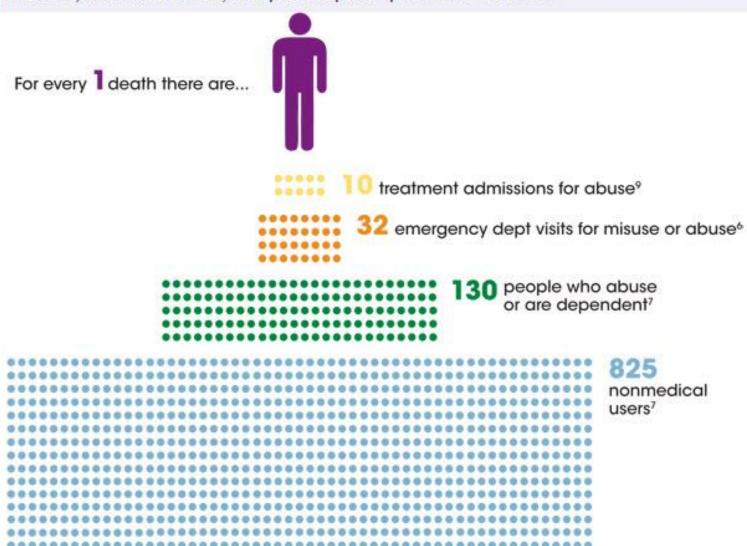
"You don't have to throw narcotics at people to start managing pain," says Buckenmaier, who pioneered technology that eases the pain of wounded soldiers.







In 2008, there were 14,800 prescription painkiller deaths.4







Joint Theater Trauma System Clinical Practice Guideline

M	anageme	nt of Pain, A	nxiety and Delirium in Injured Warfighters				
Original Rele	ase/Approval	23 Nov 2010	Note: This CPG requires an annual review.				
Reviewed:	Oct 2010	Approved:	22 Nov 2010				
Supersedes:	This is a nev	CPG and must be reviewed in its entirety.					
☐ Minor C	hanges (or)	Changes are	substantial and require a thorough reading of this CPG (or)				
☐ Significa	nt Changes						

Goal: To provide state-of-art pain services to combat zone casualties in the theater Roll 3 hospitals prior to the air evacuation of casualties to their country of origin.

Guidelines: The <u>acute pain service</u> will be available to all patients that are admitted to the theater hospital.

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Pain Management Task Force



Afghanistan Study Data summary

Total # Patients seen: 160 of 392 surgical trauma patients (April – July 2009).

Demographics:

Males seen: 155 # Females seen: 5

Mean Age of Patients: 25.8 years old → Min: 5 years old; Max: 85 years old

Repeat Patients: 19 # OEF/OIF's: 99 ISAF

#Non-OEF/OIF's: 61 Afghans

VAS Score:

Average Pre-pain score: 5.266 Average Post-Pain score: 0.734

Times Ultrasound and/or Stimulation used:

U/S (+): 99 Stim (+): 37

Block Info:

Total # Catheters Placed: 91

Total # Single blocks performed: 129

Total # Bolus: 10

Patients with Multiple blocks: 53

Procedures done with General Anesthesia (Sleep): 50





Wiley Periodicals, Inc.

ACUTE PAIN SECTION

Original Research Articles Impact of an Acute Pain Service on Pain Outcomes with Combat-Injured Soldiers at Camp Bastion, Afghanistan

Chester "Trip" Buckenmaier III, MD,*^{†‡} Peter F. Mahoney, OBE TD MSc FRCA L/RAMC,** Todd Anton, MD, CPT,[‡] Nancy Kwon, CRNP, MSN,* and Rosemary C. Polomano, PhD, RN^{§†}







Pain Medicine

Av AMERICAN ACADEMY of PAIN MEDICINE the sales of pain medicine







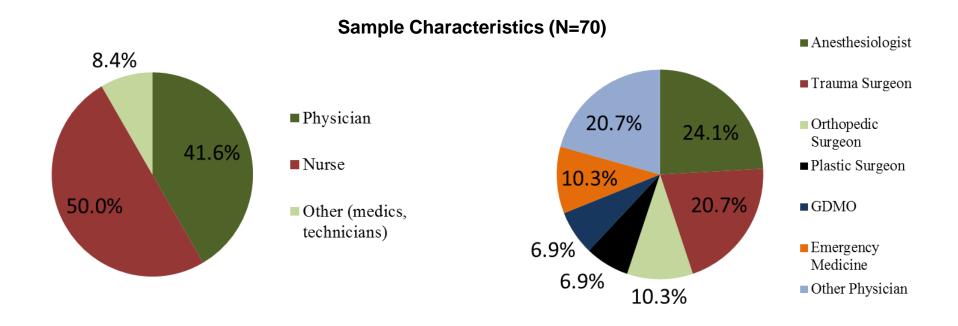
Pain Medicine 2012; 13: 927-936 Wiley Periodicals, Inc.

A Survey of Military Health Professionals' Perceptions of an Acute Pain Service at Camp Bastion, Afghanistan

Rosemary C. Polomano, PhD, RN,*† Ellie Chisholm, RN,** Todd M. Anton, MD, CPT, MC, USA,§ Nancy Kwon, CRNP, MSN,† Peter F. Mahoney, OBE, TD, MSc, FRCA, L/RAMC,†† and Chester "Trip" Buckenmaier III, MD, COL, MC, USA[‡]¶

Health Profession

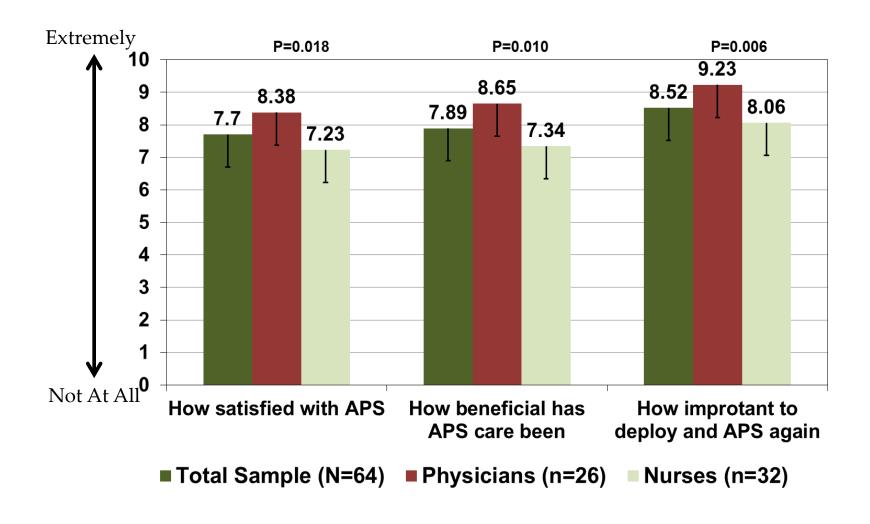
Physician Specialties





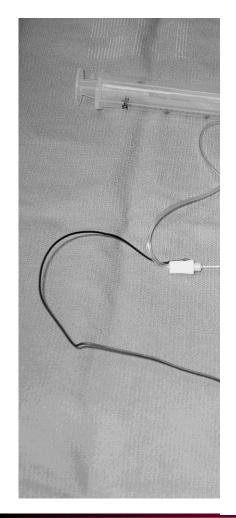








The New Face of Regional Anesthesia









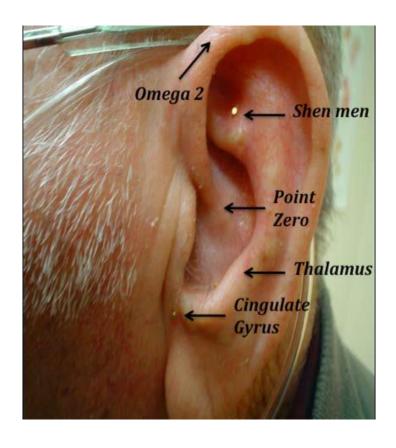
Compartment Syndrome

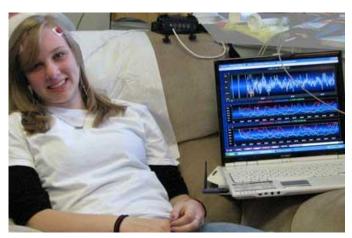
- High risk patients can be identified
- Communication is the key!
- Options available
 - No block for injury of concern
 - Multimodal therapy
 - Place block 24 hours after surgery if
 Pain
 - Place catheter don't use until after postoperative exam
 - Electing to not treat pain is no longer an option in the 21st century.

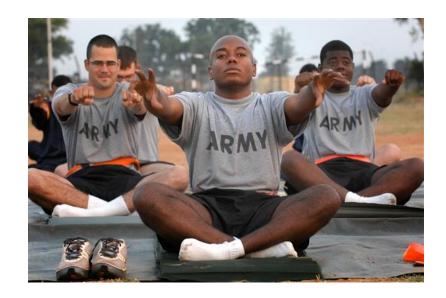


Integrative Medicine











Novel



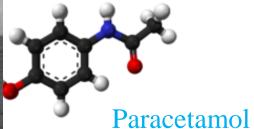




nd equipment

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Proposed APS Staffing*

APS Medical Officer – Identified physician with medical expertise in acute pain medicine. This will usually be a military trained anesthesiologist.

APS Chief Nurse – Chief nurse responsible for unit pain policy adherence and ward safety.

Ward Pain Nurse Champions – Nurse from each Role 3 ward to serve as the ward pain nurse.

*These personnel can be identified and tasked from existing Role 3 force structures.



Pain Equipment Chests



B-5 Standardized Medical Equipment and Personnel in Deployed Setting

Medical Equipment Template





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8510	0/22/14/95	ADHESIVE TAPE SURGICAL SILK OVERALL SSIX/50INCHES WHITE	PG	L	1	- 1		084	45090/53111	ВX	1	ŧ	121
sam	078825762	ADMINISTRATION SET IN FLUIDS VENTEONIONNENTED IST 21 DE	FG	L	1	1		CB1		C5		\$	511.41
8565	0/6423926	ANESTHEBIA BET EPIDURAL CONTIPLEX CONTINOUS NERVE BL	PG	L	1	1		C84	3584331691	СB	1	ŧ	472.95
ESIS	0.000315.05	AMESTHESIA SET EPIDURAL TUDHY CONTINERE BLOCK SET 160		L	1	1		NA.		CE		\$	287.72
886	0/61/20921	ANESTHEBIA BET EPIDURAL TUCHY CONTINUOUS NERVE BLK 15		L	1	1		CBI		CB		0	441.55
ESIS	O'BEZITZE	AMESTHESIA SET REGIONAL MERVE BLOCK SUPPORT TRAY TO			1	1		CB1		CS	1		254.34
886	0/61/05/5	ANJESTHESIA SET SPINAL TRAY 7 COMPONENTS 108	PG		1	1	no los per eval, resé	asiAmaj griffith e	mailed 3-18			٥	23831
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ESIS	0/51/20740	AMESTHESIA SET, REGIONAL MERVE BLOCK CONTINOUS TUDHY			1	1					_	*	412.57
6510	016123579	BANDAGE GANZE SELF-ADHERENT #7/2YOS NON YOVEN COVE			1	1					Н		49.99
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ESS	ONLINE	CATHETER WITHAVENOUS BY M SAPLAST POLYPROZY STRINES		-	1	1		CB1	250425259402				411.15
880	01110337	DRESSING DOCUMENT ACHESIVE PLASTIC COATED SIX SIZENT			- 1	- 1		Care	200421239402		ı.	*	35.52
reus	015120799	DULOMETINE HYDROCHL CAPULES DELAYED RELEASE SOMS 30			-1	- 1		CBI	F11102-0240-00	87	,		15.16
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rom	OTZTOTZ		FG	L	1	1		N/A		C5		3	53.57
866	01905334	NEEDLE HYPODISP SHT BEVEL ISGA W/ N/1009	Rit	L	- 1	1		1865	22320 811		Ė	ŧ	584.15
ESS	77806380	NEEDLEH-PRODEPMIC ANESTHESIA 25°L ZIGA SINGLE SHOT NE		L	1	1				_		8	682.85
Estis	0/6420893	NEEDLE HYPOGERMIC AMESTHESIA 6°L 21GA SINGLE SHOT MER		L	1	1				_	Н	ŧ	652.05
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E816	0/0223069	NEEDLE HYPOGERMIC C21 SPINAL 22 BANS' LUER LOCK HUB ST		L	- 1	- 1		CBI	0723406141	ВΚ	-		49.54
ESIS	OTE 20358	NEEDLE HYPODERMIC EPIDURAL TUDHY 6" LONG 20GA STERILE		ī	1	1					Ė	8	114.22
866	0/51/5996	NEEDLE HYPOGERMIC EPIGURAL WEBS TUDHY POINT HIS AKKS		L	1	1						1	8151
856	OH189679	NEEDLE HYPODERMIC SPINAL TINICANNULA 22GAGE DISOSABL			- 1	- 1		NWA.	0723405141	C8	1	8	225.23
888	076520759	NEEDLEHNPOORPMIC 27GA ISINSTERPPE CEIONISLIDE 1005			- 1	- 1						3	57.81
6545	0/6420733	NEEDLEHYPOOERMIC EPIDURAL ANES 193A KINEXLOTH 109		L	1	- 1				_		8	102.15
tom	OTESZIZZET	NEEDLE, HYPODERMIC PERMITHERAL ANESTHESIA SINGLE SHOT		L	- 1	- 1						\$	582.85
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6585	0/6423656	PREGABALINI CAPSULES 79MB SI CAPSULES PER BOTTLE	BT	L	1	- 1		C84	F00071-1014-68	BΤ	1	ŧ	14339
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866	0/2714894	SENSOR DAYGEN MONITORING NOWAYAS ARTERIAL FADULT	PG	L	1	1		CBI	41300000025	СB	1	¢	388.44
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9595	0/6421288	TRAY EPIDURAL SPINAL WESPOCAN 5 THREAD ASSIST BUIDE:	PG	L	1	1						ŧ	516.15
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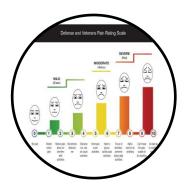






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Main Lines of Effort



Defense & Veterans Pain Rating Scale (DVPRS)

 An innovative new scale for rating pain across the DoD



Extension for Community Healthcare Outcomes (ECHO)

 Expanding DoD providers knowledge of pain through Video Teleconference



Pain Assessment Screening Tool and Outcomes Registry (PASTOR)

 A screening tool and reporting system to examine a soldiers individual pain over time



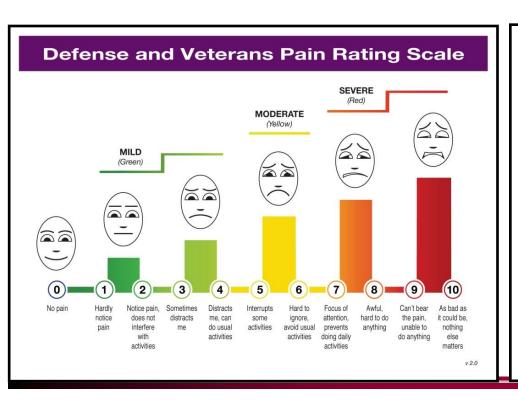
Interdisciplinary Pain Management Centers (IPMC)

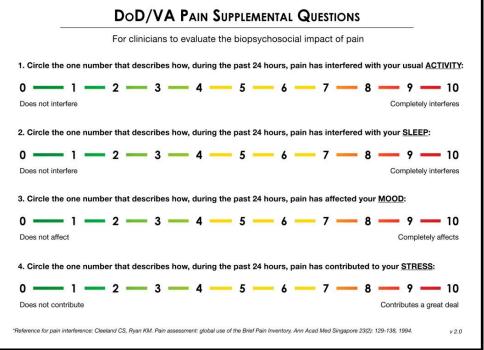
 Incorporating integrative and traditional medicine to treat pain



Defense and Veterans Pain Rating Scale (DVPRS)

- 4.1.2 Standardized Pain Assessment Tool
- Objective: Describe a common language DoD and VHA pain assessment tool with visual cues and a common set of measurement questions.





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PASTOR/PROMIS

RESEARCH * OUTCOMES REGISTRY * CLINICAL DECISION TOOL





 Center for Disease Control and Prevention: (Health People 2020 will include PROMIS Global Measure)



The Children's Hospital of Philadelphia Hope lives here.





 Bravewell Collaborative Integrative Medicine Outcomes Study



- DVCIPM Research
 - Pain Management
 - Rx Med Abuse
 - Interdisciplinary Care







RESEARCH • OUTCOMES REGISTRY • CLINICAL DECISION TOOL

- Web application served from MAMC
 - Clinical Assessment
 - Using validated computer adaptive testing (CAT) PROMIS instruments
 - Clinical Report/Decision Tool
 - Longitudinal pt pain/function/alert data in concise format
 - Patients Enter Information Prior to Appointments
 - Using the web capable device of their choice





RANK: CPT



PASTOR Clinical Report

Date: 17-04 -13 Name: Smith. Snuffv Q.

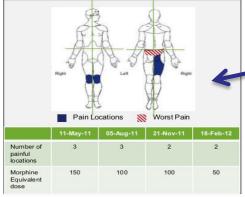
DOB: 16-04-44 AGE: 72

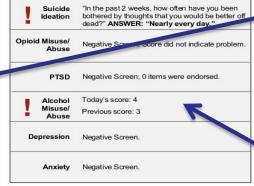
Family Preference Code/SSN: 20/1111

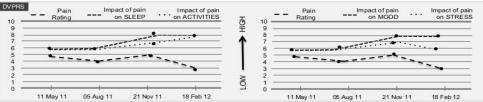
Home Phone Number: 555-555-5555 Primary Care Manager: Dr. XYZ Gender: M

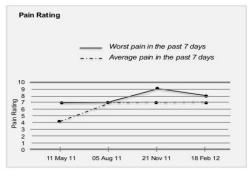
Home Address: 123 Sesame Street, Beverly Hills, CA 90210

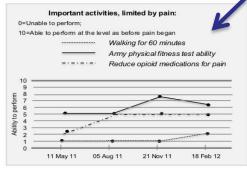
Case Managed: Yes











Pain Mapped by Region

Clinical Alerts

Patient Defined Goals

Date: 17-04 -13 Name: Smith, Snuffy Q. Family Preference Code/SSN: 20/1111

sample matched to the US 2000 Census on age

05 Aug 11

05 Aug 11

11 May 11 05 Aug 11

Social

Function

21 Nov 11

21 Nov 11

21 Nov 11

__ Pain

Interference

18 Feb 12

18 Feb 12

18 Feb 12

Page 2 of 3

PROMIS Scores

DOB: 16-04-44 AGE: 72 RANK: CPT

HEALTH.

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90 80

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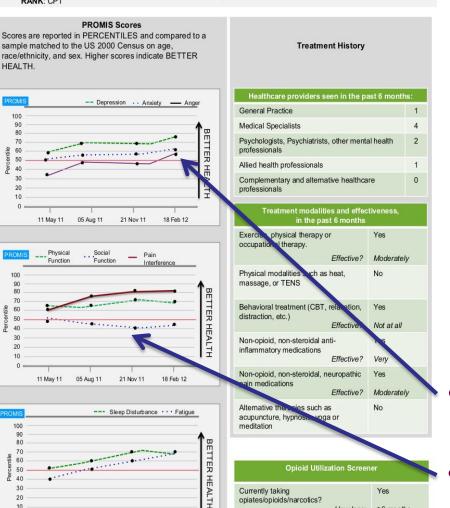
Physical

Function

Home Phone Number: 555-555-5555 Primary Care Manager: Dr. XYZ

Home Address: 123 Sesame Street, Beverly Hills, CA 90210

Case Managed: Yes



Opioid Utilization Screener

"Bad days" in past month:

Currently taking

opiates/opioids/narcotics?

Yes

Good

How long: ≥6 months Pain relief:

Date: 17-04-13 Home Phone Number: 555-555-5555 Name: Smith, Snuffy Q. Primary Care Manager: Dr. XYZ Family Preference Code/SSN: 20/1111

DOB: 16-04-44

AGE: 72

RANK: CPT

Home Address: 123 Sesame Street, Beverly Hills, CA 90210

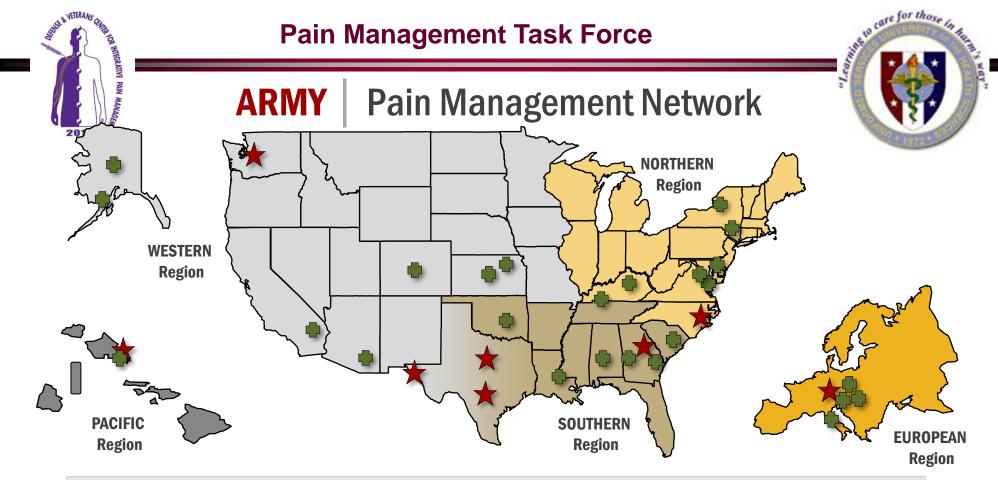
line to care for those in

Case Managed: Yes

Depression (Percentile	:55)	Sleep (Percentile: 72)				
In the past 7 days:	Response	In the past 7 days:	Response			
I felt sad.	Very Much	I tried to sleep whenever I could	Rarely			
I felt that I was not needed.	A little bit	I had problems during the day because of poor sleep.	A little bit			
I felt lonely.	Somewhat	I felt irritable because of poor sleep.	Often			
I felt that nothing was interesting.	Somewhat	I still felt sleepy when I woke up.	Often			

Pain Interference (Percentile: 63)	Physical Function (Percentile: 76)				
In the past 7 days:	Response		Response			
How much did pain interfere with your ability to concentrate?	Somewhat	Does your health now limit you in doing vigorous activities, such as running, lifting heavy objects, participating in strenuous sports?	Somewhat			
How much did pain interfere with your day to day activities?	Very much	Does your health now limit you in lifting or carrying groceries?	Very much			
How much did pain interfere with your enjoyment of recreational activities?	Not at all	How much do physical health problems now limit your usual physical activities (such as walking or climbing stairs)?	Quite a bit			
How much did pain interfere with the things you usually do for fun?	A little bit	Are you able to move a chair from one room to another?	Very much			

- Gen population percentile indicator
- **Color Coding on each graph**



INTERDISCIPLINARY PAIN MANAGEMENT

CENTER (IPMC): Serves as hub for pain management synchronization for designated MTFs within RMC. Provides pain management specialty referral /consultation services, patient and provider education, and coordination of research initiatives.

PAIN AUGMENTATION TEAM: Serves as the MTF lead element for pain management education, training, and practice standards; linked to a designated IPMC for support.

Pain Champion; Clinical Pharmacist; Nurse Care Coordinator





Pain Augmentation Teams (25)

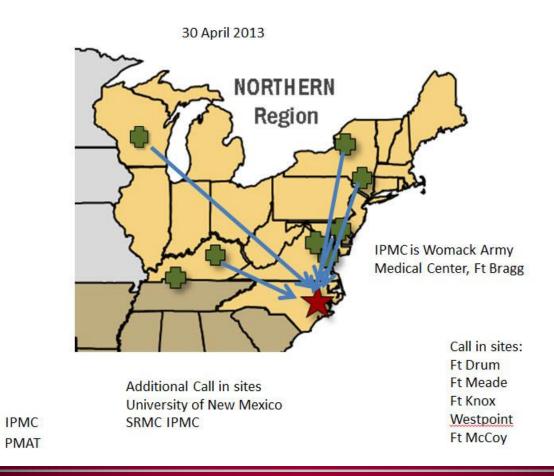
Ft Gordon	Ft Benning	Ft Polk	Ft Eustis
Ft Hood	Ft Campbell	Ft Riley	Ft Lee
Ft Bliss	Ft Carson	Ft Sill	Ft Leavenworth
Ft Lewis	Ft Drum	Ft Stewart	West Point
Ft Sam Houston	Ft Huachuca	Ft Wainwright	Wiesbaden
Landstuhl	Ft Irwin	Schofield Barracks	
Tripler	Ft Jackson	Stuttgart	
Ft Bragg	Ft Knox	Vilseck	
	Ft Leonard Wood	Vicenza	
	Ft Meade	Ft Richardson	







Extension for Community Healthcare Outcomes









Synchronize a culture of pain awareness, education and proactive intervention

- This is no less than a cultural change and reorientation of attitudes about pain and its consequences within the military.
- Medical leaders at all Roles of care must recognize that pain management will be a new criteria used to measure the success and quality of healthcare within their facility.



Way Ahead

- Encourage Role 3 leaders to follow the pain CPG and integrate APS structure into their CSH.
- Utilize the MARAA handbook as a guide for APS function in the field.
- Ensure pain management equipment inventories are adequate and monitored.
- Adjust pre-deployment training of all personnel to re-orient providers on the importance of acute pain medicine and consequences of allowing pain chronification.
- Make the DVPRS standard for collecting pain management outcomes and include this data in the JTTR.
- Embrace PASTOR as a model for obtaining patient reported outcomes data to drive MHS resource decisions.
- Maintain and expand the IPMC concept with ECHO for improved pain care.
- Use pain medicine as a 'gateway drug' for integrative medicine to enter our system.
- Support pain research and the DVCIPM.

VETERALS CHIMANAGEM

Pain Management Task Force



Defense and Veterans Center for Integrative Pain Management DVCIPM

Military Pain Management Association Center of Mass - Throughout the Continuum of Care

Acute Pain

Chronic Pain

Military Pain Medicine Board of Directors (MPMBD)



Clinical Pain Medicine

- Outcomes
 - Functional / Vocational
- Information and Technology
 - JRAATS / AHLTA / Essentris
- Pain Clinical Practice Guidelines

Pain Education

- Patients
- Providers
- Commands

Pain Research & Technology

- CRMPP / MRMC
- ISR
- DVPMI provides the subject matter experts to help set the research agenda



Drive to Support the Balanced Scorecard











Questions?

Pain: A disease, not a symptom

Not my Job









Questions?



Defense & Veterans Center for Integrative Pain Management

DVCIPM

www.dvcipm.org