

September 2023

Dear Attendee:

We are delighted to have your participation in the 37nd Annual Southern Pain Society Meeting. We hope you find the speakers enlightening and informative.

As you may know, SPS represents the 18 southern states including Puerto Rico. Our membership base is strong and we have many active and engaged professionals who serve on a number of committees.

If you have not already done so, we hope you will consider becoming a member of the Society and participate in the growth and development of the organization as well as the discipline of pain management. Membership applications are included in your packet and you will get 2 years membership for the price of one if you sign up during the meeting. We welcome your input, suggestions and contributions.

Best wishes for a great meeting!

Thomas Davis, MD

President

Slide 1 How to Develop a Multidisciplinary Pain Program in a Non-Academic Setting Norman Harden Depts PMSR and PTHMS Northwestern University normanharden 3@gmail.com Slide 2 Pain Management in Urban and non-academic Practice There is no reason that high quality cannot be delivered in a non-academic and/or rural practice Harden 2023

• Conflicts: none • Bjas: An interdisciplinary approach is far better than a unidisciplinary.

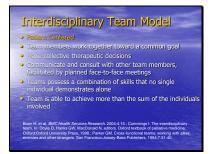


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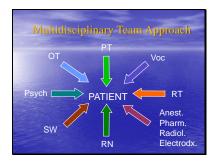
Slide 6

Multidisciplinary Team Model Doctor Centered (MD/DO/PhD) Pacifent care is planned and managed by a team leader Leadership is hierarchical One or two individuals direct the services of a range of team members Team members have individual goals Make independent decisions CME is the essential ingredient Boonff at al BMC Feath Services Reasent, 2004.415. Crawford G. Price S. Medical Journal of Aust. 2003,179 \$32-834.



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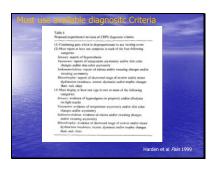


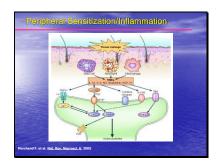




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Doctors Role: Diagnose first then Treat • Ideal is to match the mechanism of disease with the mechanism of action of the intervention. • Problem: We know little about the mechanisms of our interventions, and less about the pathophysiology of pain.





Slide 14

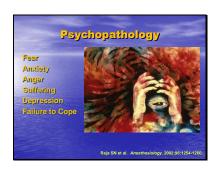




Slide 16 Sympathetically Maintained Slide 17 Imaging Slide 18 Electro-Diagnosis

Myopain: Fibromyalgia (Whole body) Myofascial Pain Syndrome (regional) • Weakness • Dystonia • secondar/~ contracture • Kenisiophobia Trigger Points, Tender Points

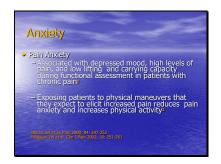
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Slide 21

Pain and Depression in Primary Care

- 1/3 to 1/2 of patients with CP have comorbid depression
- 3/4 of depressed people present with physical sxs, including pain
- Pain often best indicator of dep in elderly
- Depression increases impairment from CP
- Pain+depression=increased health care use/cost



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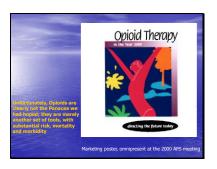


Slide 25	Treatment	
	n cachisis	
Slide 26	Use available guidelines, but recall they are <i>just</i> Guidelines	
Slide 27	Pharmacotherapy	
	<u> гланпасолетару</u>	

Reason for inability to begin or progress	Action
Mild to moderate pain	Simple analgesics and/or blocks
Excruciating, intractable pain†	Opioids and/or blocks or later, more experimental interventions
Inflammation/swelling and edema	Steroids, systemic or targeted (acutely) or NSAIDs (chronically); immunomodulators
Depression, anxiety, insomnia	Sedative, analgesic antidepressant/anxiolytics and/or psychotherapy
Significant allodynia/hyperalgesia	Anticonvulsants and/or other sodium channel blockers and/or NMDA- receptor antagonists
Significant osteopenia, immobility and trophic changes	Calcitonin or bisphosphonates
Profound vasomotor disturbance	Calcium channel blockers, sympatholyticsand/or blocks

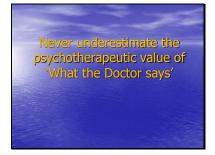
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Physical Therapy (DPT, RPT)	
 De-emphasizing high tech, passive modalities Emphasizing low tech, self management and <u>active</u> modalities Reactivation "Reanimation" Stretch/strengthen Desensistization Mirror Therapy 	

-		

Adage/Legend/Lore/Anecdote/ Empirical `Truth' Must counter `kinesiophobia' Must reanimate the affected part Must normalize use *frist thought to be stimulation or large fibers to 'shut' the pain gate (precedence over small fiber input), normalize and balance input to CNS *but evidence from mirror therapy suggests there is more to it than just afferent normalization

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Functional Movement
As often as possible, use function based exercises For UE involvement: instead of working on supination/pronation, have the patient practice turning door knobs/opening doors
 For LE involvement: exercise should promote gait and equal weight bearing (i.e. offset static standing, progressive step ups, weight shifting during leisure activity)



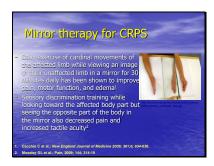
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Initiate at evaluation appointment, if possible
Explain clearly how to perform and what to expect [Bexe sure patient understands that desensitizing an area to a pressure/texture/temperature does not mean that it will begin to feel "good"
Be creative with desensitization media - Mrs. St. very fearful/apprehensive of treatment, poor prior experience with O' started desensitization by petting her kitten
Establish daily regimen for desensitization multiple times/day — Consistent demand is key



Slide 41



Flare Up Plan
Degrease but DO NOT STOP activity
Utilize all pain management strategies Pating of activities Informal modalities Relayation or biofeedback exercises Medications
 Increase emphasis on scrubbing during flare and for several days after

Slide 43 Therapeutic Recreation Leisure assessmentModifications

Slide 44

Psychotherapy Cognitive behavioral therapyStress management • Coping skills Relaxation techniques Imagery Self hypnosis

Slide 45

Cognitive Factors That May Contribute to Treatment Outcomes

- Readiness to Change
 Acceptance of Chronicity
 Cognition of situation
 Five stages that reflect readiness to make behavioral changes
 Precontemplation
 Contemplation
 Preparation
 Action
 Maintenance

Biofeedback EMG biofeedback Autogenic training Progressive muscle relaxation Meditation Sleep hygiene

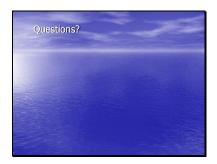
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Vocational Rehabilitation Job description Site analysis Testing Return to work assessment Placement

Slide 48

Complementary-Alternative Medicine • 629 million visits to CAM practitioners 1997 - Up from 427 million in 1990 - Only 243 million visits to PCP's in 1997 • 42.1% of population used at least one of 16 CAM therapies 1997 - 33.8% in 1990

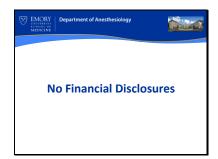
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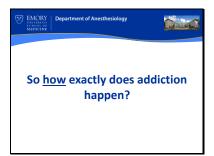
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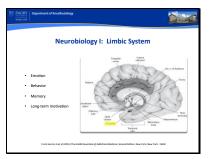






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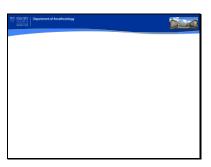


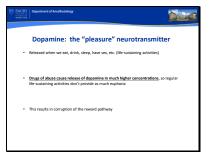


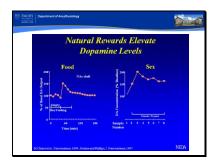
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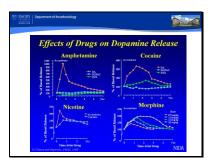
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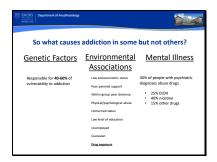


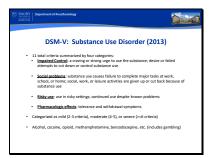




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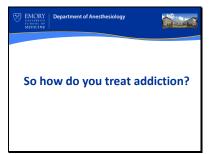




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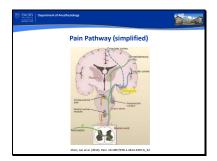




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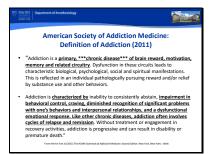
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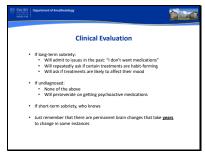


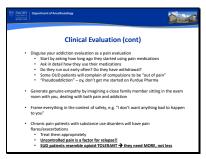




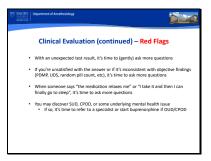
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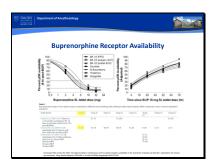




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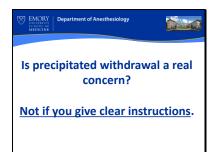






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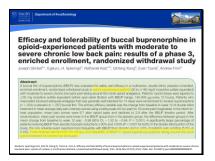


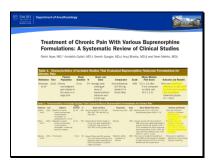




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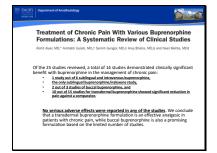






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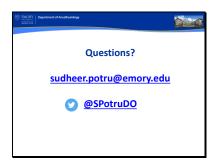


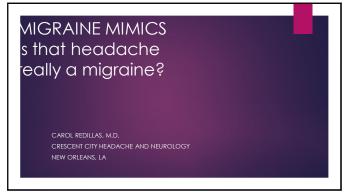


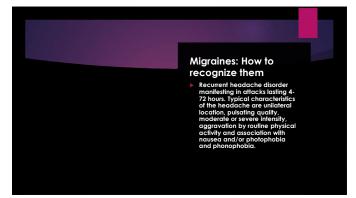
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Handacha "rad flace	
Llandacha "rad flags	
Hondacha "rod flags	
Headache "red flags	
Headache "red flags	,
Rapid onset of symptoms	
Thunderclap headaches	
Presence of neurologic symptoms a signs	nd
Prominent neck pain with and without fever	
Age of onset > 50 y/o	
 Worsening with position or Valsalva 	

Primary headache disorders

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Trigeminal Autonomic Cephalgias

Cluster headaches
Paroxysmal hemicranias
Hemicrania Continua
Short lasting unilateral
neuralgiform headaches w/ or
w/o conjunctival injection
(SUNCT/SUNA)

Trigeminal Autonomic Cephalgias	
 Distinguished by attack frequency, attack duration and patterns of response to treatment 	
 Can be confused with migraines due to unilateral pain, overlap of associated symptoms and treatment response 	



TACs- Cluster Headaches Differentiating features from migraines Shorter attack duration Circannual and/or circadian pattern Restlessness during an attack



TACs- Hemicrania
Continua

As the name suggests, it is characterized by continuous headaches with exacerbations of pain

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TACs-- Hemicrania Continua Can be confused with migraines especially if the history focuses on the painful exacerbations Differentiating features from migraines Absence of pain free intervals Absolute response to indomethacin

TACs– Paroxysmal		
Hemicrania		
 Similar to cluster headache, it is a severe, episodic, unilateral headache that affects the periorbital and refroorbital regions. 		
In contrast to cluster headache, which occurs 10 times more commonly in men, paroxysmal hemicrania occurs primarily in women		
Shorter duration and higher frequency of headaches compared to cluster		
Absolute response to indomethacin		



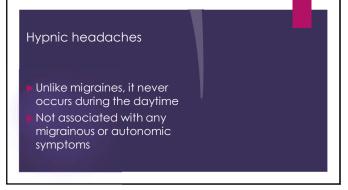
TACs- SUNCT/SUNA Characterized by moderate to severe single or multiple stabs of pain lasting from 1to 600 seconds Can be differentiated from migraines by the very high frequency and very short duration of attack

Trigem	inal Auto	nomic C	ephalgic	as
	Cluster	Paroxysmal Hemicrania	SUNCT/SUNA	Hemicrania Continua
Sex Ratio F:M	1:3	2:1	1: 1.2	Ś
Quality of pain	Stabbing/sharp	Throbbing, piercing, stabbing	Burning, stabbing, cutting	Pressing, stabbing
Intensity of pain	Very severe	Very severe	Very severe	Moderate to severe
Location of pain	Orbital, temporal	Orbital, temporal	Periorbital	Nuchal to frontal
Frequency	Every 1-2 days or up to 8x a day	1-40/day	3-200/day	Continous
Duration	15-180 min	2-30 min	5-240 sec	Daily, continous

Trigem	inal Auto	nomic C	Cephalgi	as
<u> </u>			, 0	
	Cluster Headache	Paroxysmal Hemicrania	SUNASUNCT	Hemicrania Continua
Autonomic symptoms	Present	Present	Present	Present but mile
Trigger: ETOH	Yes	Sometimes	No	No
Trigger: cutaneous stimuli	No	No	Yes	No
Response to indomethacin	No	Yes	No	Yes

New daily persistent headaches	
 Persistent headache clearly remembered from onset 	
Present for at least 3 months	
Notoriously difficult to treat	
Can exhibit migraine featuresDifferentiated from migraines by	
absence of pain free periods from onset	

Hypnic headaches	
 Rare, occurs exclusively during sleep Dubbed as the "alarm clock headache" as it usually occurs at the same time at night 	
Usually starts after the age of 50 years,	



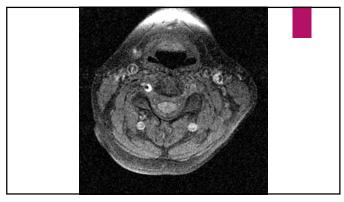
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Secondary headache disorders .

Arterial Dissection

May be present with unilateral severe headaches with nausea and phobias Unlike migraines, pain is more rapid in onset and commonly associated with signs of cerebral ischemia and/or sympathetic compromise

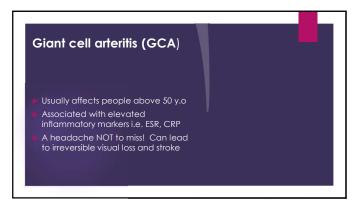
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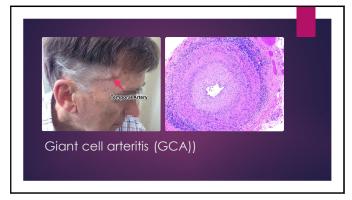


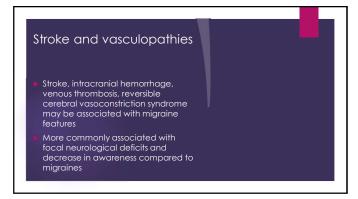
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Giant cell arteritis (GCA)

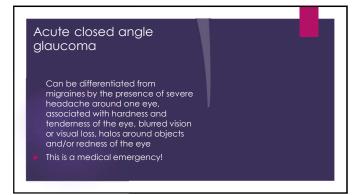
May be associated with visual loss (amaurosis fugax) that can be confused with migraine aura
Unlike migraine, GCA is usually associated with systemic symptoms such as fever, weight loss, jaw claudication, temporal artery induration/tenderness

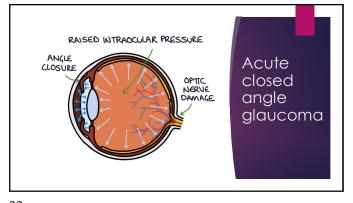


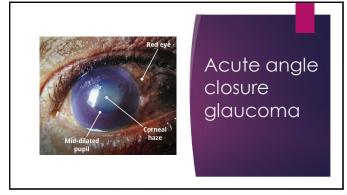












Thunderclap headaches Warrants vigorous evaluation for a secondary cause such as subarachnoid hemorrhage, intracerebral hemorrhage, pituitary apoplexy, stroke, RCVS Develops to peak intensity in < 1 minute of onset After all life threatening conditions are ruled out, consider primary thunderclap headaches as a diagnosis

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Transient ischemic attack Often confused for migraine aura and vice versa Inappropriate diagnosis of TIA in a patient with migraine can lead to extensive work-up and unnecessary use of antiplatelets Usually associated with vascular risk factors (HTN, HPL, CAD, etc.) and lasts < 1 hour

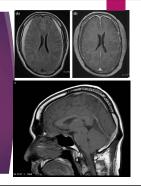
CSF pressure related headaches

Demographics for people with either migraine or intracranial hypertension(IIH) overlap significantly and these two conditions maybe comorbide.

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CSF pressure related headaches—intracranial hypotension

- ➤ Postural headaches or end of the day headaches may indicate CSF leak
- Opening pressure 60 mm H20 or less
 Sustained improvement after blood patch
- Cranial MRI changes i.e. brain sagging pachymeningeal enhancement,

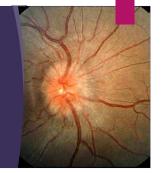


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CSF pressure related headaches—intracranial hypertension

Presence of pulsatile tinnitus, visual obscurations, CN VI palsy and papilledema suggests IIH

Opening pressure > 25 cm H20



Headaches associated with neoplasms	
 Migraine, nausea and vomiting can be a presenting feature Commonly precipitated by bending or Valsalva's Remain vigilant in patients with migraine whose symptoms worsen for unclear reasons 	

Headaches secondary to infections Meningitis-- frequently associated with headaches but commonly associated with nuchal rigidity, fever and altered mental status Sinusitis- nasal symptoms and facial pain are common in migraine but consider sinusitis in patients with nasal discharge, fever and halitosis

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Sinus headaches Self-diagnosed sinus headache is nearly always migraine (90% of the time, American Migraine Study II) Migraine is commonly associated with forehead and facial pressure over the sinuses, nasal congestion and runny nose. Presence of fever, purulent nasal discharge, halitosis, alteration in smell are common

