



CCNC Opioid SPARC ECHO

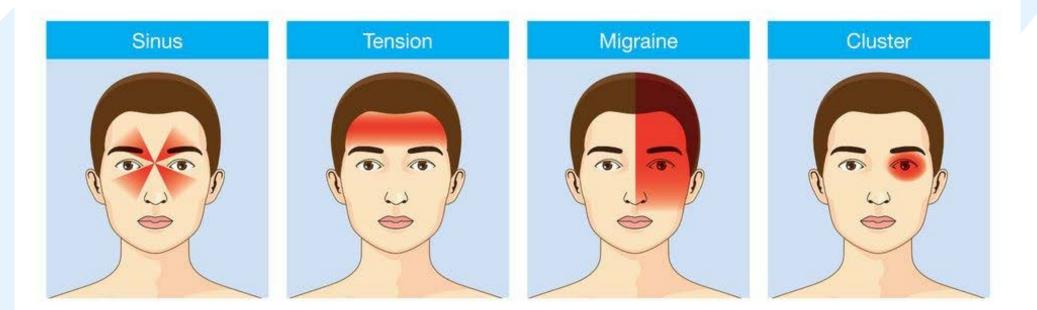
Challenging Headache Syndromes: Cluster Headaches and Refractory Migraines

> Lawrence Greenblatt, MD Medical Director NPCC Professor of Medicine, Duke

> > August 21, 2019

So many headaches... So little time...

Headache Type





Cluster Headaches-Is This Where the Slang Term Cluster*** Originates?

It wakes me from a deep sleep. The agony is all-encompassing. It feels like having a white-hot screwdriver thrust through my eyeball and left there. The screwdriver is then wired up to an electric current and the voltage is continually increased.

My sinus feels like it has been washed out with acid, my temple is swollen and hot, the area under my cheek burns, my upper jaw feels like I have a toothache in every tooth. Even the roof of my mouth is sore.

Most of the pain is focused on my eyeball: as well as the screwdriver, it feels like there is a red-hot metal ball, the size of a golf ball, directly behind it, pushing it out of the socket.



One of the Most Painful Conditions





Epidemiology of Cluster and Migraine

Cluster

- Quite rare-lifetime 0.12% of people (2-3 of 2000)
- In a year 0.05% of people (1 of 2000)
- 80% of cluster sufferers are men

Migraine

- Quite common-12% of the population (240 of 2000)
- In a year, of 2000 women, 340 will have a migraine.
- In a year, of 2000 men,
 120 will have a migraine



Treating Cluster Headache

Acute Headache Symptoms

- > 100% Oxygen
- Triptans
 (sumatriptan and zolmitriptan)

CENTRAL NERVOUS SYSTEM ANTI-MIGRAINE AGENTS

Quantity limits apply to all triptans

Non-Preferred
almotriptan tablet (generic for Axert®)
Alsuma® Auto-Injection
Amerge® Tablet
Axert® Tablet
Cambia® Powder Packet
eletriptan (generic for Relpax® Tablet)
frovatriptan tablet (generic for Frova®)
Frova® Tablet
Imitrex [®] Cartridge/Nasal Spray/Pen/Tablet/Vial
Maxalt® Tablet/MLT Tablet
Migranow [®] Kit
naratriptan tablet (generic for Amerge®)
Onzetra™ Xsail™ Nasal Powder
Relpax® Tablet
sumatriptan injection kit/refill/syringe (generic for Imitrex®)
sumatriptan/naproxen (generic for Treximet® Tablet)
Sumavel® DosePro® Syringe
Treximet® Tablet
Zembrace [®] SymTouch [®]
zolmitriptan ODT/tablet (generic for Zomig®)
Zomig® Nasal Spray/Tablet/ZMT® Tablet



Stopping a Cluster

- Verapamil first line
- Short burst of steroids acts more quickly
- Greater occipital nerve block may be helpful
- Topiramate and lithium may also be helpful and can be combined with verapamil
- Taper after acute flare up has ended
- Very slow taper for patients with chronic cluster after headaches are controlled

New data-Emgality (galcanezumab) has FDA indication. Modestly helpful, well tolerated.





COMMUNITY CARE OF NORTH CAROLINA Committed to improving the health of our communities.

Who Needs Migraine Prophylaxis?

- □ Frequent or long-lasting migraines
- □ Interfere with activity
- Contraindication, side effects, or inadequate response to acute therapies
- **Risk of medication overuse headache**
- □ More serious syndromes-hemiplegic migraine, migraine with brainstem aura, Hx migrainous infarction



Goals of Migraine Prophylaxis





Migraine Prophylaxis



Menu

Beta blockers

Topiramate

Valproate

TCA's (amitriptyline)

CGRP antagonists

Butterbur, CoQ10

Feverfew, Riboflavin

CCB's

What is a CGRP Antagonist?

Monoclonal antibody therapy blocking calcitonin gene-related peptide given by sq injection.

Medicaid requires trial and failure of 2 established prophlyactic therapies

ANTI-MIGRAINE AGENTS	
CGRP Blockers/Modulators	
Clinical criteria apply to all drugs in this class	
Preferred	Non-Preferred
Aimovig™ Emgalitu®	Ajovy™
Emgality®	

Erenumab (Aimovig) - In RCT with 900 adults $8.3 \longrightarrow 4.8 \text{ vs.} 8.3 \longrightarrow 6.5$

Galcanezumab (Emgality)

In low frequency migraine $5.8 \longrightarrow 4.3 \text{ vs } 5.8 \longrightarrow 5.2 \qquad 11 \longrightarrow 5.5 \text{ vs } 11 \longrightarrow 7.5$

High frequency migraine







COMMUNITY CARE OF NORTH CAROLINA Committed to improving the health of our communities.