

## Strategies and tips for treating non-migraine headaches



**PANELISTS** 

Dr. Sheri Wark • Dr. Virginia McEwen

WITH

Dr. Stephanie Zhou • Dr. Nikki Bozinoff



## Please introduce yourself in the chat!



@OntarioCollege
#PractisingWell

## Your Panelists: Disclosures



#### Dr. Virginia McEwen

Relationships with financial sponsors (including honoraria):

- Ontario College of Family Physicians Practising Well CoP Speaker
- St. Joseph's Care Group (Thunder Bay) ECHO Chronic Pain and Opioid Stewardship



#### Dr. Sheri Wark @SheriW\_TBay

Relationships with financial sponsors (including honoraria):

Ontario College of Family Physicians – Practising Well CoP Speaker

#### Disclosures

## Dr. Stephanie Zhou @stephanieyzhou

Relationships with financial sponsors (including honoraria):

- · Ontario College of Family Physicians Practising Well Implementation Group Member, CoP Speaker
- Canadian Medical Association Honoraria for practice management lectures
- Habitat for Humanity GTA Board of Directors member
- Toronto Public Health Board of Directors member

#### Dr. Nikki Bozinoff @NikkiBozinoff

Relationships with financial sponsors (including honoraria):

- · Ontario College of Family Physicians Practising Well Implementation Group Member, CoP Speaker
- CAMH
- Department of Family and Community Medicine (University of Toronto)
- · National Institute on Drug Abuse
- Womenmind
- CIHR
- Academic Health Sciences Alternate Payment Plan

## Disclosure of Financial Support

This program has received funding from the Ontario Ministry of Health and in-kind support from the Ontario College of Family Physicians and the Department of Family and Community Medicine, University of Toronto.

## Potential for conflict(s) of interest: N/A

## Mitigating Potential Bias

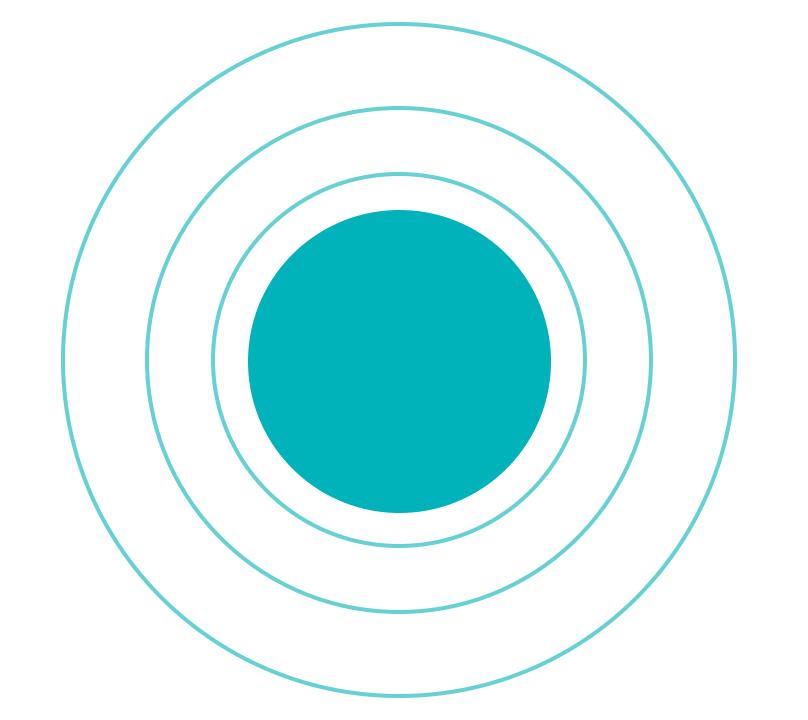
- The Scientific Planning Committee (SPC) has control over the choice of topics and speakers.
- Content has been developed according to the standards and expectations of the Mainpro+ certification program.
- The program content was reviewed by the SPC.

## Land Acknowledgement

We acknowledge that the lands on which we are hosting this meeting include the traditional territories of many nations.

The OCFP and DFCM recognizes that the many injustices experienced by the Indigenous Peoples of what we now call Canada continue to affect their health and well-being. The OCFP and DFCM respects that Indigenous people have rich cultural and traditional practices that have been known to improve health outcomes.

I invite all of us to reflect on the territories you are calling in from as we commit ourselves to gaining knowledge; forging a new, culturally safe relationship; and contributing to reconciliation.





## Strategies and tips for treating non-migraine headaches

## You raised important questions we'll try to work through together today:

- 1. Differentiating between various headache types; touch upon uncommon types
- 2. Medication related
  - 1. Determining optimal medications and their prescription details (dose, frequency)
  - 2. Assessing the usefulness and effectiveness of anti-hypertensive drugs for headache relief
  - 3. The role of opioids in headache management
- 3. Headache hygiene recommendations
- 4. Key components of a valuable neurological examination; identifying red flags and the need for additional assessments; indications for referring patients
- 5. Affordable treatment options

## And other questions you add in the Q&A box...



## **Your Panelists**



Dr. Virginia McEwen
Thunder Bay, ON



Dr. Sheri Wark
Thunder Bay, ON

Strategies and tips for treating non-migraine headaches



## History

## Table 6.1. Important Components to Include in the Focused Headache History

- Headache frequency
- Headache duration
- Headache location
- 4. Headache intensity
- Quality of the pain (pressure, throbbing, stabbing)
- Associated symptoms (e.g., nausea/vomiting)
- Precipitating/provoking factors
- Alleviating factors
- Previous treatment experiences and responses to date (including benefits and side-effects)

## Red Flags

#### **Headache navigator red flags**

#### Red Flags (imaging recommendations)

#### Emergent - address immediately

- Thunderclap onset (CT)
- Fever and meningismus (CT)
- Papilloedema (+focal signs or reduced LOC) (MRI)
- Acute glaucoma (no current recommendation)

#### Urgent - address hours to days

- Temporal arteritis (no imaging recommended)
- Papilloedema (NO focal signs or reduced LOC) (MRI or CT)
- Relevant systemic illness (MRI or CT)
- Elderly: new headache with cognitive change (CT)

#### Possible indicators of secondary headache (imaging recommendations)

- Unexplained focal signs (MRI or CT)
- Atypical headaches (CT)
- Unusual headache precipitants (MRI or CT)
- Onset after age 50 (MRI or CT)

- Aggravation by neck movement; abnormal neck exam.
   Consider cervicogenic headache refer and/or investigate but also proceed down the algorithm (no current recommendations)
- Jaw symptoms; abnormal jaw exam. Consider temporomandibular disorder (no current recommendations)

## Still look for migraine headaches...

- Underdiagnosed
- Criteria for tension type headaches often misunderstood

Ex. migraine headaches are only unilateral, only pulsatile, occur with aura

- headache-summary.pdf(albertadoctors.org)
- Post-concussion headaches often have migrainous features

ICHD-3 Criteria The International Classification of Headache Disorders - ICHD-3

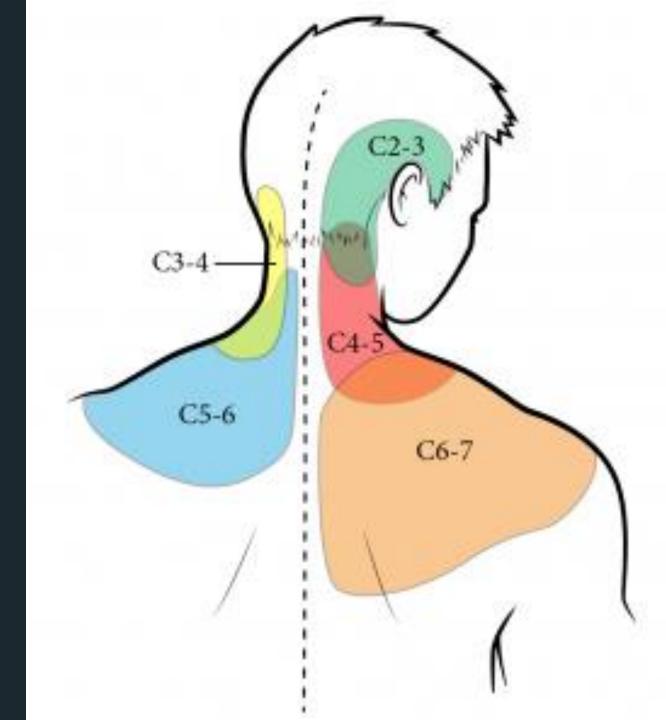
4-72 hours duration

2 of 4 characteristics: unilateral, throbbing/pulsating, moderate-severe intensity, aggravation by or avoidance of physical activity

During headache at least one of the following: nausea and/or vomiting, photo AND phonophobia

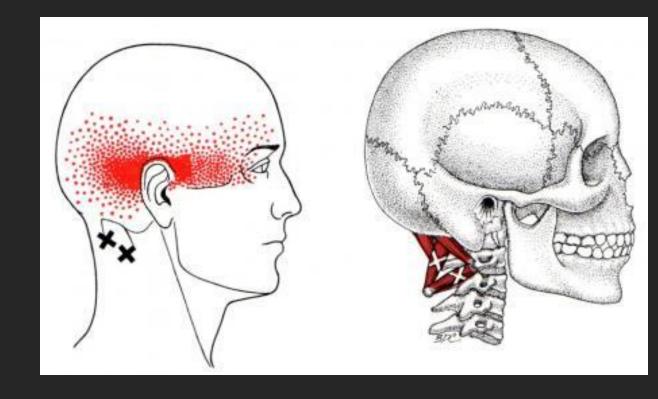
## Cervicogenic headaches

- Commonly acutely triggered by whiplash
- Can also simply occur with arthritis
- Mimics tension-type headache
- CORE Neck Tool
   CEP\_HeadandNeck\_2016\_v1
   5.2-1.pdf



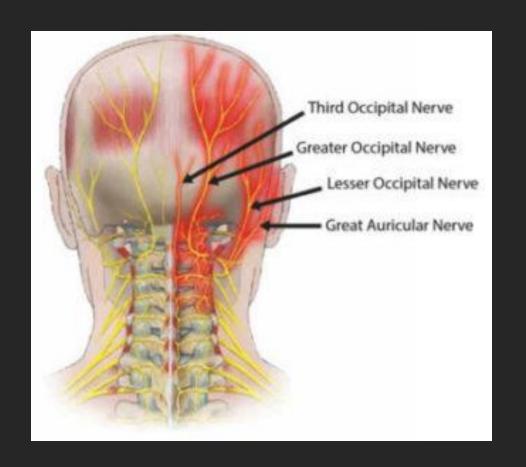
# Tension type headache

- Often myofascial,
   http://www.triggerpoints.net a good visual resource for patients
- Remember to consider the TMJ



## Occipital neuralgia

- Common
- Can also be confused with tension type headache
- Hoodlike pattern



## Post-concussion/traumatic headaches

• <u>Headache</u> is the most common prolonged symptom following concussion and is classified as a secondary, rather than primary headache subtype (develops within 7 days of the trauma).

• It is estimated that up to 58% of patients with TBI will develop a headache at 1 year after the trauma

• Acute Concussion/PTH usually resolves within a few weeks, but persistent PTH can cause significant disability for those affected

## Clinical Presentation

• Usually characterized by symptoms such as nausea, vomiting, headache after physical activity and stress, headache exacerbated by light and sound, and impaired cognitive and psychosocial functions.

• These symptoms resemble those of various types of primary headaches, and the most frequent PTH phenotypes are migraine-like or tension-type-like headaches, but can also include cervicogenic, physiological (exercise-induced), occipital neuralgia or headaches associated with prolonged visual stimulation.

#### Assessment and Management of Post-Traumatic Headache Following mTBI Assessment 1. Take a focused headache history exam (Table 6.1). Determine type of headache presentation (Appendix 6.3). Determine degree of disability and medication consumption. Perform neurological and musculoskeletal exam (Appendix 3.4). Pharmacological Treatment Non-Pharmacological Treatment Migrainous Tension/Unclassified Self-regulated intervention & lifestyle strategies to minimize headache occurrence (Appendix 6.6) Triptan class medications \*\* Limit Usage: 1. Over-the-counter or \* < 15 days (i.e., almotriptan, eletriptan, prescription NSAIDs \* per month sumatriptan, rizatriptan, Acetylsalicylic acid \* \*\* < 10 days Consideration to intermittent passive therapies Acetaminophen \* zolmitriptan, etc.) per month Combination (relaxation therapy, biofeedback, massage analgesics (with therapy, manual therapy etc.) **Prophylactic Treatment** codeine/caffeine) \*\* Assess factors that may trigger migraine. Yes Successful? Medication (beta-blockers, Was this treatment successful? tricyclic antidepressants) Anti-Epileptic Drugs (divalproex, topiramate, Monitor gabapentin, verapamil) symptoms & No Yes continue Reinforce education & lifestyle therapy. Is patient a candidate for management (Appendix 6.7) prophylactic treatment? Consider passive therapies Monitor Screen for depression and Pharmacological symptoms and generalized anxiety intervention. Yes No continue therapy if Referral is Successful? indicated recommended. Referral is Prophylactic No Yes recommended. Treatment Amitriptyline Other TCAs Venlafaxine XR Try different Continue Tizanidine treatment for first-line Adjunctive 6-12 months, medication or therapy drug of same then reassess. class. Successful? Yes Successful? Yes No Try combination of beta-blockers and tricyclics. Yes Successful?

## Table 1 Comparison of the characteristics between persistent PTH and primary headaches

From: Persistent post-traumatic headache: a migrainous loop or not? The clinical evidence

	Persistent PTH	Migraine	Tension-type headache	Cluster headache
Prevalence	18–58% after TBI	6–33%	62%	0.1%
Risk factors	-Prior history of headache -Female gender - Older age - Family history of headache	-Young age -Female gender	-Anxiety -Depression	-Young age -Male gender
Duration of episodes	Variable	180 min-3 days	30 min-7 days	15–180 min
Headache symptoms	-Migraine-like -Tension-type headache like -Cluster like	-Severe intensity -Unilateral location -Pulsatile quality -Aggravated by activity	-Mild/moderate intensity -Bilateral location -Pressing quality -Not aggravated by activity	-Severe intensity -Unilateral, orbital or periorbital
Associated symptoms	-Sleep disorders -Affective and behavioral disorders -Cognitive deficits	-Nausea or vomiting -Photophobia and phonophobia	-Photophobia, phonophobia or nausea	-Conjunctival injection, nasal congestion, eyelid edema, miosis, ptosisSense of restlessness or agitation
Imaging (MRI)	-Less cortical thickness in bilateral frontal regions and right hemisphere parietal regions of the brain -Gray matter changes in the prefrontal cortex.	-White matter hyperintensities	-Normal	-Normal
Neurophysiological studies (EEG)	Early abnormalities (focal slowing, absence of activity, amplitude asymmetries)	-H response to flicker stimulation -Abnormal resting-state EEG rhythmic activity	Normal	Normal
Treatment	-Behavioral -Drugs depending on phenotype	-Acute: NAIDs / triptans -Preventive: β-blockers, antiepileptics, antihypertensive, CGRP Abs	-Acute: NAIDs -Preventive: antidepressants	-Acute: triptans/O2 -Preventive: corticosteroids, verapamil

## Medication overuse headaches (MOH)

- Headache occurring on 15 or more days per month developing as a consequence of regular overuse of acute or symptomatic headache medication (on 10 or more or 15 or more days per month, depending on the medication) for more than three months.
- It usually, but not invariably, resolves after the overuse is stopped.

#### Diagnostic criteria:

- A. Headache occurring on ≥15 days per month in a patient with a pre-existing headache disorder
- B. Regular overuse for >3 months of one or more drugs that can be taken for acute and/or symptomatic treatment of headache1
- C. Not better accounted for by another ICHD-3 diagnosis.

## Management

- Educate
- Consider prophylactic medication
- Provide an effective acute med for severe attacks with limitations on frequency of use
- Gradual withdrawal if opioid, or combination analgesic with opioid or barbiturate
- Abrupt (or gradual) withdrawal if acetaminophen, NSAIDs, or triptan

## Headache hygiene

#### Simple Self-regulated Intervention Strategies\*

- Apply a cold or hot back to the neck or head
- Tie something tight around the head
- Stretching and self-massaging the head and/or neck and shoulders
- Perform breathing exercises
- Visualization or other mindfulness-based exercises
- Go to a quiet place
- Lie down
- Go outside to get fresh air

<sup>\*</sup> Note. When relevant, there are a variety of allied-health professionals who can guide individuals to perform appropriate home-based neck and shoulder stretching.

#### Self-Regulated Intervention and Lifestyle Strategies to Minimize Headache Occurrence











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MANAGEMENT

Lifestyle Strategy	Implementation	
Sleep	<ul> <li>Go to bed and wake up at the same times</li> <li>Avoid daytime napping</li> </ul>	
Regular Meals	<ul> <li>Do not skip breakfast, lunch or dinner</li> <li>High protein meals are ideal</li> </ul>	
Hydration	<ul> <li>Consume 4-6 drinks per day of water, juice or milk</li> <li>Avoid caffeine and diet soft drinks</li> </ul>	
Stress Management	Implement relaxation strategies (e.g., meditation, yoga and exercise)	
Exercise	<ul> <li>Following the initial rest period, avoid a sedentary lifestyle</li> <li>Brisk walking, stationary biking, jogging or swimming are recommended</li> </ul>	

## Tips and tricks

- Trillium EAP enroll online, use Prescribe Smart app to look up which meds will be covered and which ones will need EAP
- Which triptans? (sumatriptan, rizatriptan)
- Which CGRP antagonists? Ajovy
- Onabotulinum toxin A?
- Make your patient do the work headache questionnaire
- Consider working with a pharmacist or a company who can help you with paperwork

## Choosing Wisely

#### Headache

#### Four Tests and Treatments to Question

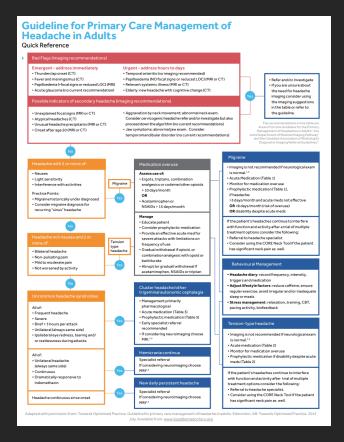
# Choosing Wisely Canada



by Canadian Headache Society Last updated: July 2020

- Don't order neuroimaging or sinus imaging in patients who have a normal clinical examination, who meet diagnostic criteria for episodic migraine, and have no "red flags" for a secondary headache disorder.
- 2 Don't prescribe opioid analgesics or combination analgesics containing opioids or barbiturates as first line therapy for the treatment of migraine.
- 3 Don't prescribe acute medications or recommend an over-the-counter analgesic for patients with frequent migraine attacks without monitoring frequency of acute medication use with a headache diary.
- 4 Don't forget to consider the behavioural components of migraine treatment, including lifestyle issues like regular and adequate meals and sleep, and management of specific triggers including stress.

## Great resource is the CORE Neck Tool/Headache Navigator



## References

- https://tools.cep.health/tool/core-neck-and-headache-navigator/
- Labastida-Ramírez et al. *The Journal of Headache and Pain* (2020) 21:55
- https://concussionsontario.org
- <a href="https://choosingwiselycanada.org/recommendation/headache/">https://choosingwiselycanada.org/recommendation/headache/</a>

Resources

## Tools



Links to resources shared today will be sent to participants following the session.

## Tools and Resources

Resource	Туре	Link
Choosing Wisely Canada	Clinical Recommendations	https://choosingwiselycanada.org/recommendation/headache/
CORE Neck Tool/Headache Navigator	Clinical Guidelines	https://cep.health/media/uploaded/CEP HeadandNeck 2016 v15.2- 1.pdf
Concussion Ontario	Living Concussion Guidelines	https://concussionsontario.org/

## Resources

## Education



Links to resources shared today will be sent to participants following the session.

## Practising Well CoP – Self Learning Program

## The Practising Well CoP is now certified for self learning credits!

Earn **1-credit-per-hour** for reviewing the recording and resources from **past CoP sessions**. The self learning program is certified for up to 38 Mainpro+ credits.

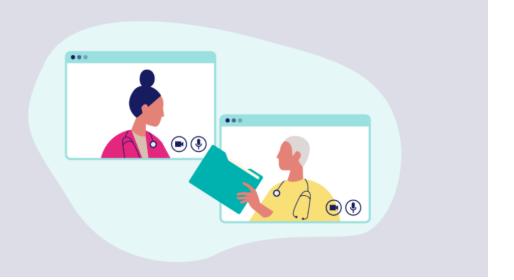


## For more information and to participate:

https://www.ontariofamilyphysicians.ca/supports-for-family-doctors/mental-health-and-addictions-supports/community-of-practice/practising-well-copself-learning-post-session-evaluation-survey/

#### **Peer Connect**

Enabling you to connect, share and learn from your fellow family physicians.





## **Mentorship Program - Connect with a Peer Guide!**

An opportunity to partner with another family physician, **one-to-one or in a small group**, for support as you **explore clinical complexity and increase your confidence** caring for patients with mental health challenges, substance use, and chronic pain. A focus can be on your well-being as you engage in this challenging work.

# Resources Supports O

Links to resources shared today will be sent to participants following the session.



Live -stream days on January 26 & 27, 2024

#### Why attend?

- Hear from thought-provoking leaders including keynote speakers: Dr. Teresa Chan, Dr. Avi Goldfarb and Dr. Chika Stacy Oriuwa.
- **Strengthen your skills** on health topics that matter to you and your practice.
- **Connect and network** with your family medicine community.

Register today and save with early bird pricing! <a href="http://www.ocfpsummit.ca">http://www.ocfpsummit.ca</a>

## **Opening Keynote**



Dr. Hayley Wickenheiser

Family Physician Resident, Olympic Gold Medalist, Hockey Hall of Famer and Senior Director of Player Development for the Toronto Maple Leafs

# Supporting Family Doctors Through Respiratory Illness Season



Information to help Ontarians stay healthy

**Information for Physicians** 

**Information for Patients** 

https://www.ontariofamilyphysicians.ca/educ ation-practice-supports/respiratory-illnessseason-tools-and-resources

#### **Respiratory Illness Season Tools and Resources**

This respiratory illness season, the OCFP is sharing tools and resources to help family doctors and patients.

#### Respiratory Illness Tools and Resources

Find current information on vaccines, IPAC reminders, planning for high-risk groups to access antivirals, and patient education on caring for illness at home.

**Tools and Resources for Family Doctors** 

#### **Screening Tool**

This tool will help you screen patients for respiratory symptoms to ensure high-risk patients have timely access to antiviral treatments.

**Screening for Symptoms of Respiratory Illness** 

#### Patient Education

Share these tips and resources on vaccines, antivirals and when and where to seek care.

**Tools for Patients** 

#### Resources

## **Supports**



OMA Physician Health Program <a href="https://php.oma.org">https://php.oma.org</a>

Centre for Addiction and Mental Health Health Care Provider (HCP) Resource Site

http://www.camh.ca/covid19hcw

CMA Wellness Hub

https://www.cma.ca/physician-wellness-hub



- PARO 24/7 Helpline for Residents, Family Members, Medical Students
- 1-866-HELP-DOC



- https://www.ontario.ca/#support-health-care-worker
  - Self-led / With peers / Talk to a clinician
- •Ontario Shores Centre for Mental Health Sciences, Whitby
- •St. Joseph's Healthcare, Hamilton
- •The Royal Ottawa Mental Health Centre, Ottawa
- Waypoint Centre for Mental Health Care, Penetanguishene
- •Centre for Addictions and Mental Health (CAMH), Toronto



- ECHO Coping with COVID
  - for health providers (educational credits)
  - Fridays 2-3pm EST

https://camh.echoontario.ca/echo-coping-with-covid/

Support for you and those you care about.

## **Upcoming Community of Practice**

Improving burnout with time management with Drs. Chandi Chandrasena, Sarah Giles, and James Goertzen

December 13, 2023 8:00am – 9:00am

**Register Now** 

practisingwell@ocfp.on.ca

