



### A Headache History: The Art of Helping a Patient to Tell Their Story

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### Disclosures: Alexander Melinyshyn, MD



#### **Relationships with financial interests:**

#### **Grants/Research Support:**

- Research Grant through Canadian Headache Society: Lilly, Teva, Miravo
- Primary Investigator on Industry-led Studies: Lundbeck, APEX Pharmaceuticals, Abbvie

#### **Participation in Advisory Board:**

• Teva, Novartis, Lilly, Abbvie, Lundbeck, Miravo, LinPharma, Pfizer, Idorsia, Eisai

Speakers Bureau/Honoraria: Teva, Novartis, Lilly, Abbvie, Lundbeck, Pfizer

Equity ownership/stock options: None



# **Learning Objectives**



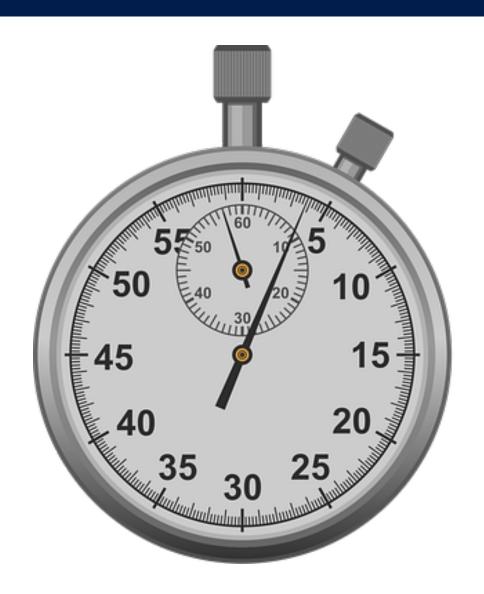
#### By the end of this session, attendees will be better equipped to:

- **Explore the narrative approach in headache diagnosis**: Discuss the importance of taking a comprehensive patient history, including symptoms, triggers, patterns, and personal experiences to enhance diagnostic accuracy and patient-centered care.
- **Demonstrate effective techniques for eliciting a headache narrative**: Provide practical strategies and communication skills for healthcare providers to effectively gather and interpret the patient's headache history, emphasizing listening, empathy, and open-ended questioning.
- Identify red flags and historical clues for secondary headaches: Highlight key historical features and red
  flags in patient narratives that indicate secondary headache disorders to facilitate prompt referral for further
  investigation and specialized treatment when necessary.

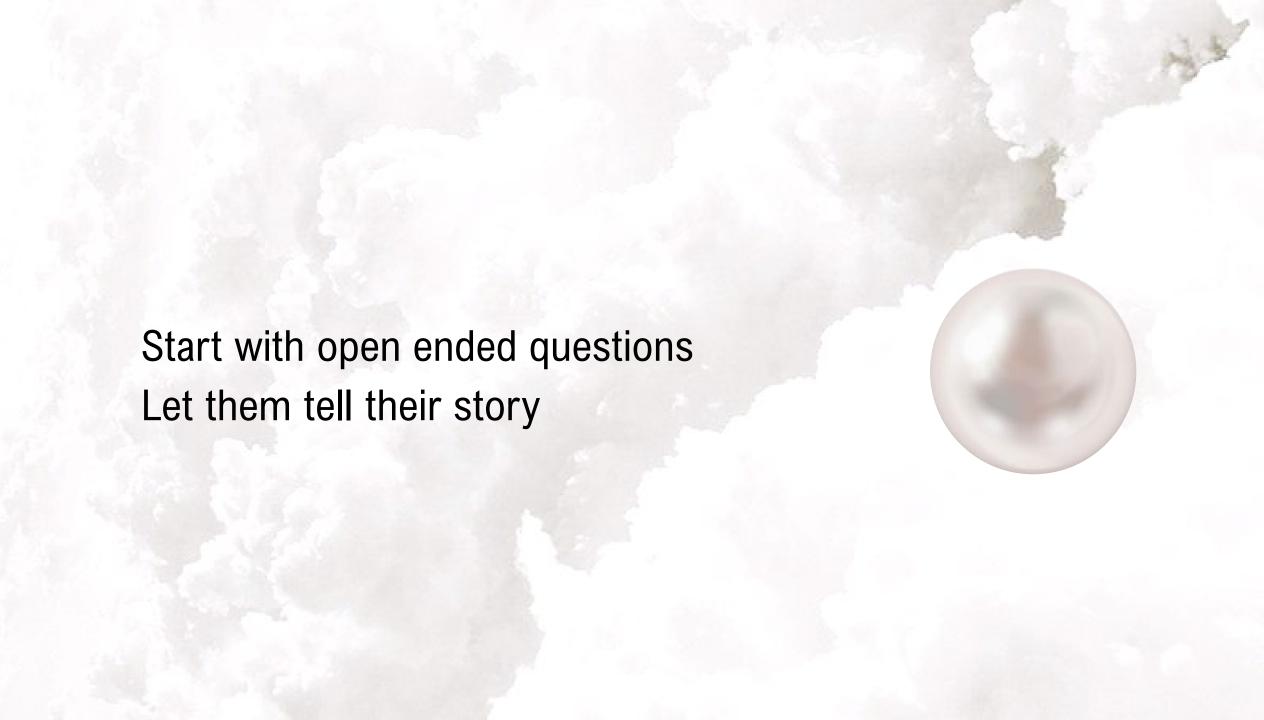


### Not all headache consults are equal...









The basic pain history framework...

Site

**O**nset

Character

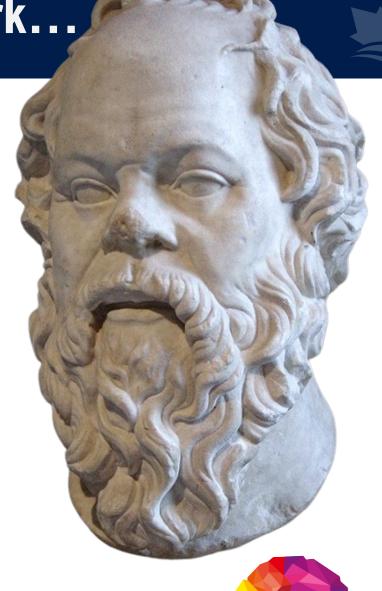
**R**adiation

**A**ssociated symptoms

Time course

**E**xacerbating / Alleviating factors

Severity



CANADIAN

#### **Onset**



- When do you first remember having headaches?
- Did you have them as a child or more in your teen years?
- Did they start with your period (menarche) or did they tend to happen around this time of the month for you?
- Do you remember anything that might have helped to get these headaches started around that time – anything like a head trauma, car accident, medical illness or new medicine?
- >50 years old new onset is a red flag



## Frequency/Duration/Timing



Thinking about the last three months on average, how many days out of 30 in a typical month? If you weren't to take any medication, how long would your headache typically last?

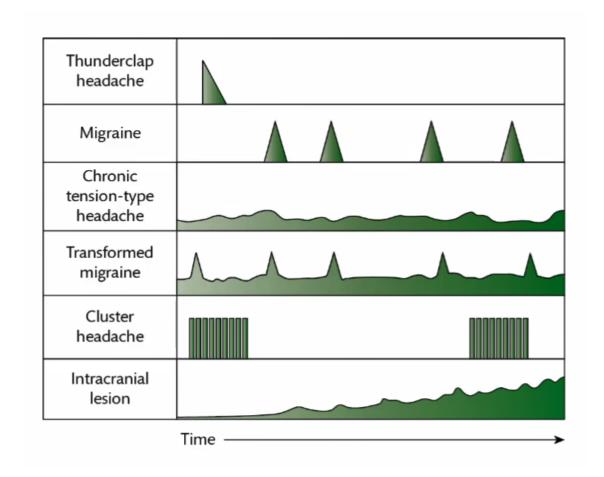
- Prodrome
- Duration
- Postdrome
- Multiple attacks per day
- Diurnal Predilection
- Circannual Predilection
- Nocturnal exclusively
- Rapid onset / peak (<1s)</li>

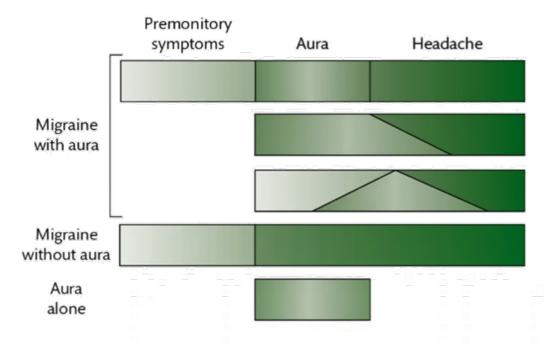


"I have headache every day."

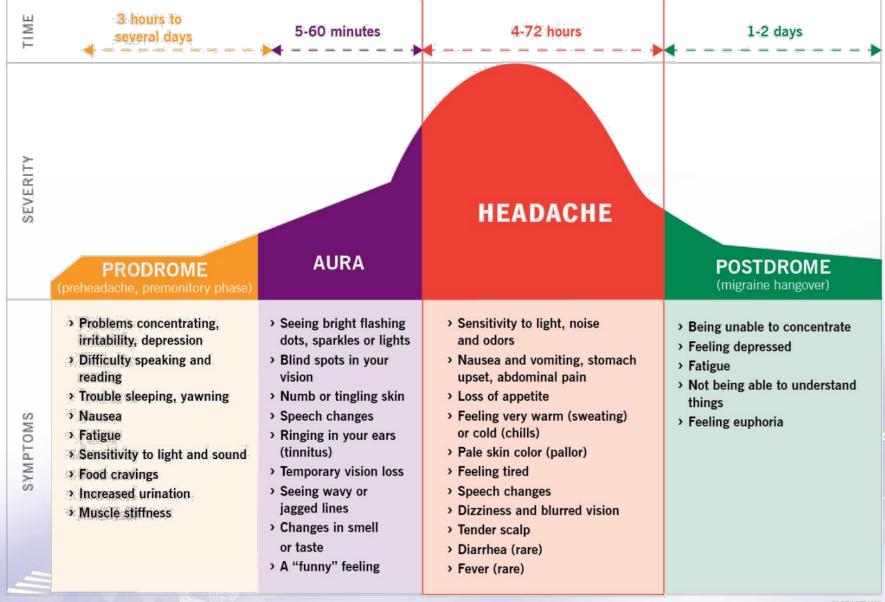
"My Headache is 24/7 without any relief"

Do you experience any headache free (crystal clear) time?



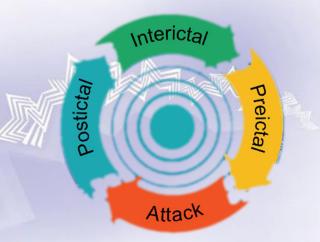


#### The 4 Phases of a Migraine Headache



#### INTERICTAL (~30%):

- Photo/phonophobia
- Cognitive complaints
- Nausea
- Fatigue
- Allodynia
- **Neck Pain**
- Vertigo / disequilibrium



#### Character



Tell me about your headache - what does it feel like?

• Is it sharp, dull, throbbing, constant, that kind of thing?

 Assess for brief electric lancinations, tactile triggers etc. that may suggest alternative diagnoses

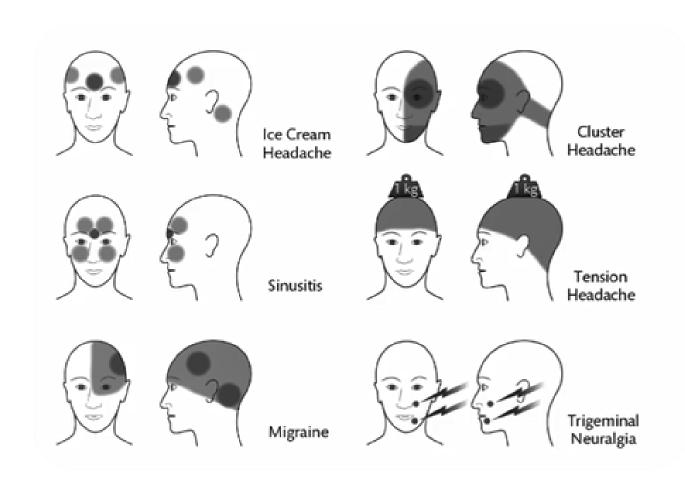


Many patients with migraine, don't recognize it, and those diagnosed may often not realise how many of their attacks are actually migrainous.

When you say migraine, what do you mean, and what are your other headaches like?

#### Site/Location





- Where on the head are you having pain; is it sharp, dull, throbbing, constant that kind of thing?
- Does it change sides or is it side locked?



#### Radiation

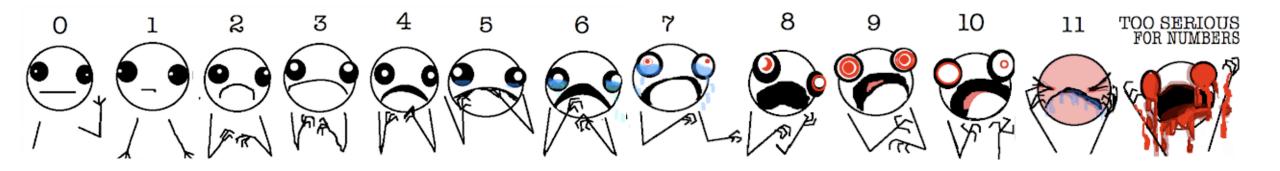


- Ocular Pain (Don't miss glaucoma)
- Facial Pain (Trigeminal Neuralgia (Occipital neuralgia and other cranial neuralgias))
- Sinus Pain
- Dental Pain
- TMJ Pain / Dysfunction
- Neck and Shoulder Pain



### Severity





Visual Analogue Scale: 1-10+/10 (they always say 11...)

#### Mild - Moderate - Severe

- Mild annoying, still affecting quality of life, but not impacting ability to function at work or chores
- Moderate requiring a change of activity or pace.
- Severe requiring rest and stopping activities, or significant inability to perform tasks .



# Associated Symptoms... the classic vignettes



M	igı	raiı	ne
	· IJ ·	•	

Throbbing / moderate to severe / Asymmetric / Frontotemporal / Worse with exertion – improved with rest Photophobia / Phonophoba / Osmophobia / Nausea / Vomiting / Cutaneous / Allodyia

Tension

Band-like / Squeezing or pressure / No migrainous or autonomic features

Cluster / TAC Family Side-locked / Peri/retro-orbital / Sharp or Boring / Severe / Circannual and diurnal predilection / EtOH Ptosis / Periorbital edema / Lacrimation / Conjunctival injection / Rhinorrhea / Facial flushing / Sweating / Aural fullness / Restlessness / Foreign body sensation

IΙΗ

Overweight or obese / Blurring of vision / transient visual loss / Horizontal diplopia (far)
Pulsatile tinnitus / Prior Vit A, retinoids or tetracyclines. Papilledema on exam, Elevated OP

SIH

Postural aggravation of headache (classic is worse upright) / Worsening of headache over course of the day Diplopia / Tinnitus / Auditory distortion / History of ligamentous laxity or CTD.

Cervicogenic

Side-locked, associated neck pain, triggered by particular head / neck movement, posture, laying position Question mark like radiation, ?Red Ear Syndrome

# 1.2 Migraine with aura



- A. At least two attacks fulfilling criteria B and C
- B. One or more of the following fully reversible aura symptoms:
  - Visual
  - Sensory
  - Speech and/or language
  - Motor
  - Brainstem
  - Retinal
- C. At least three of the following six characteristics:
  - At least one aura symptom spreads gradually over ≥5 minutes
  - Two or more aura symptoms occur in succession
  - Each individual aura symptom lasts 5-60 minutes
  - At least one aura symptom is unilateral
  - At least one aura symptom is positive
  - The aura is accompanied, or followed within 60 minutes, by headache
- D. Not better accounted for by another ICHD-3 diagnosis.

# **Asking About Aura**

#### **Visual Symptoms Associated with Migraine:**

- Photosensitivity
- Blurring
- Scintillation
- Scotoma
- Teichopsia (fortification spectrum)
- Photopsias (colourful glowing flashes or dots) reported in up to 25% of patients

...

- Visual Distortions micro/macro-psia
- Increased entoptic phenomena (self lighting, floaters)
- Visual Snow
- Language (dysphasia)
- Sensory march (paresthesias / numbness)
- Aura symptoms in approx. 10% of patients
- Auras commonly last 10-60 minutes and resolve just prior to headache onset, but can be variable





# 1.2.4 Retinal migraine



**Repeated attacks of monocular visual disturbance**, including scintillations, scotomata or blindness, associated with migraine headache.

- A. Attacks fulfilling criteria for 1.2 Migraine with aura and criterion B below
- B. Aura characterized by both of the following:
  - Fully reversible, monocular, positive and/or negative visual phenomena (eg, scintillations, scotomata or blindness) Confirmed during an attack by either or both of the following:
    - Clinical visual field examination
    - Patient's drawing of a monocular field defect (made after clear instruction)
  - At least two of the following:
    - Spreading gradually over ≥5 minutes
    - Symptoms last 5-60 minutes
    - Accompanied, or followed within 60 minutes, by headache
- C. Not better accounted for by another ICHD-3 diagnosis, other causes of amaurosis fugax have been excluded.



Quiz patients about monocular vs. binocular visual symptoms and encourage them to assess with each eye closed in sequence.

Rule out other ocular conditions and consider vascular imaging of the neck vessels

### 1.2.2 Migraine with brainstem aura

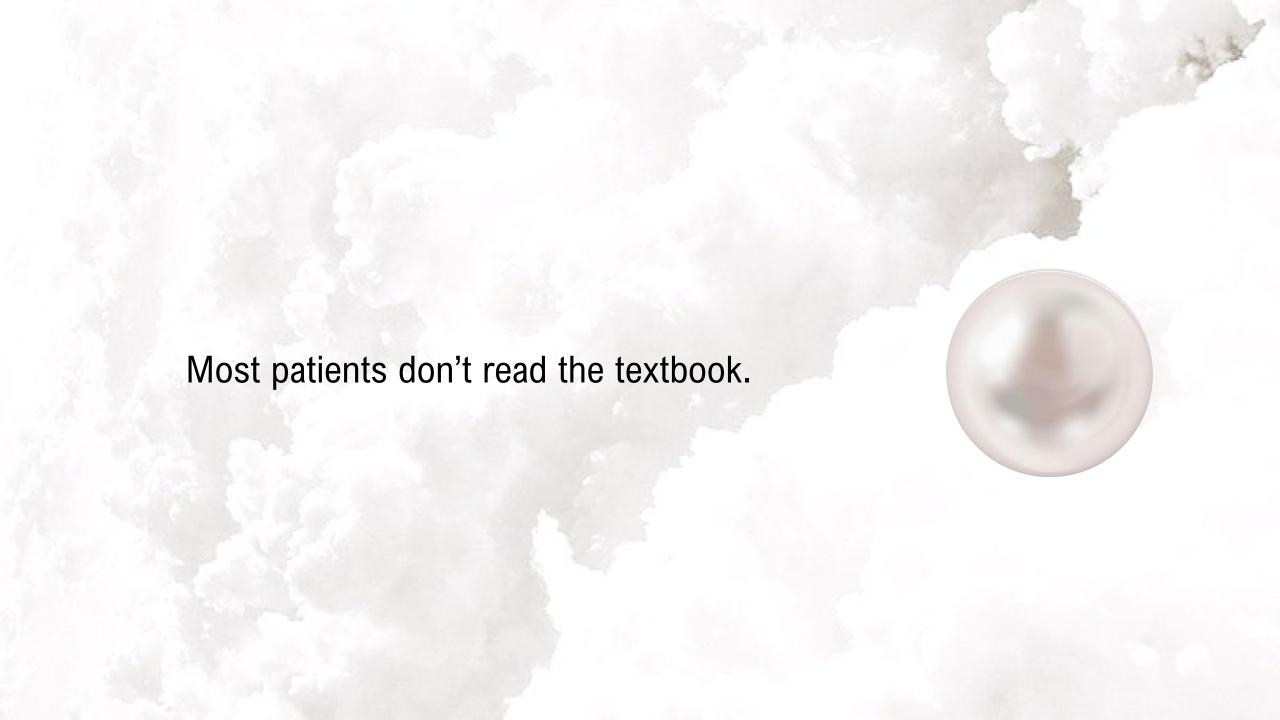


Migraine with aura symptoms clearly originating from the brainstem, but no motor weakness (hemiplegic migraine).

- A. Attacks fulfilling criteria for 1.2 Migraine with aura and criterion B below
- B. Aura with both of the following:
  - 1. at least two of the following fully reversible brainstem sxs:
    - Dysarthria
    - Vertigo
    - Tinnitus
    - Hypacusis
    - Diplopia
    - Ataxia not attributable to sensory deficit
    - Decreased level of consciousness (GCS ≤13)
  - 2. No motor or retinal symptoms.



The main difference between an aura and TIA is the gradual evolution (e.g. sensory march, shifting scotoma) or characteristic features like teichopsia



# Associated Symptoms... the reality



Throbbing / moderate to severe / Asymmetric / Frontotemporal / Worse with exertion – improved with rest Photophobia / Phonophoba / Osmophobia / Nausea / Vomiting / Cutaneous / Allodyia

Neck Pain Vertigo / Dysequilibrium / Brain Fog / Visual phenomena / Autonomic features

Tension

Band-like / Squeezing or pressure / No migrainous or autonomic features

Cluster / TAC Family Side-locked / Peri/retro-orbital / Sharp or Boring / Severe / Circannual and diurnal predilection / EtOH Ptosis / Periorbital edema / Lacrimation / Conjunctival injection / Rhinorrhea / Facial flushing / Sweating / Aural fullness / Restlessness / Foreign body sensation / Can occur concurrently with migraine

IΙΗ

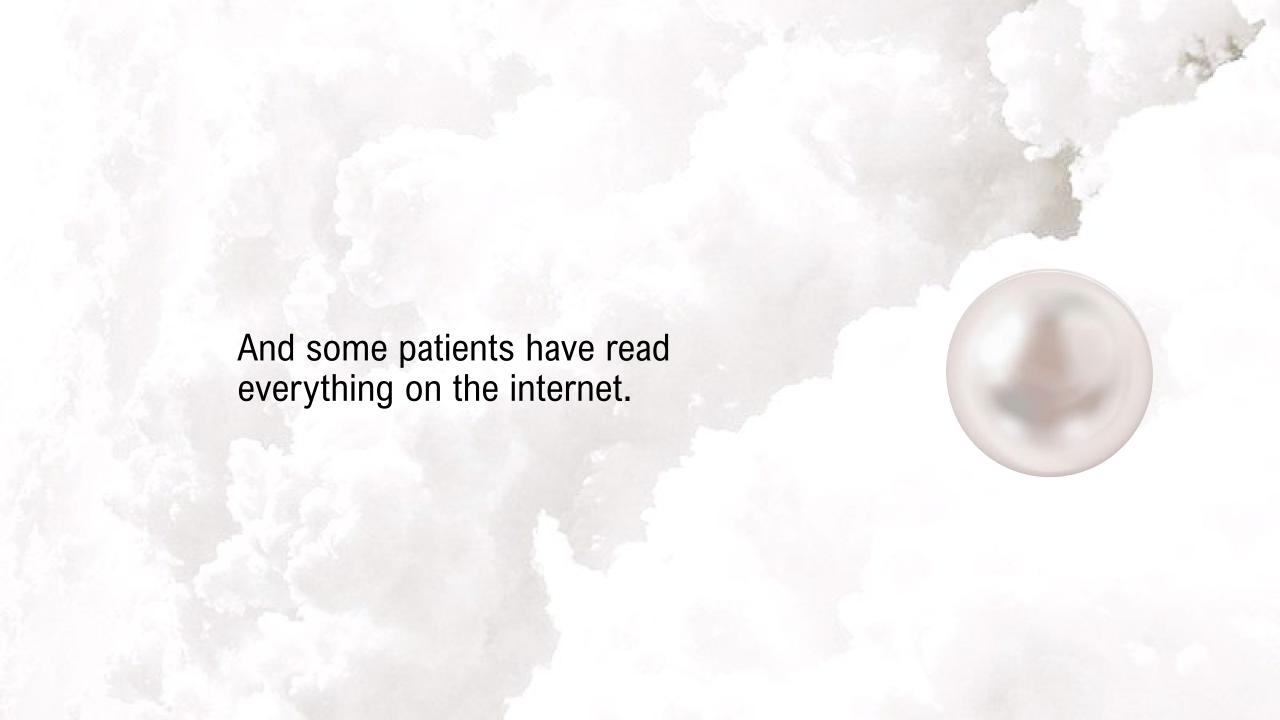
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Cervicogenic

Side-locked, associated neck pain, triggered by particular head / neck movement, posture, laying position Question mark like radiation, ?Red Ear Syndrome





#### **Neurologic ROS:**

- ✓ Seizure activity, altered awareness
- ✓ Syncope, loss of consciousness
- ✓ Expressive or receptive language difficulty
- ✓ Subjective memory issues
- ✓ Cognitive concerns (BRAIN FOG)
- Nausea and vomiting
- Headache
- ✓ Scalp allodynia
- ✓ Neck Pain
- ✓ Back Pain
- ✓ Blurred vision
- Transient loss of vision
- ✓ Visual disturbances
- Diplopia
- ✓ Dysarthria
- ✓ Dysphagia
- ✓ Tinnitus
- ✓ Vertigo, disequilibrium, presyncope
- ✓ Clumsiness / ataxia
- ✓ Weakness in an arm or leg
- Difficulty ambulating
- ✓ Falls
- Numbness or tingling
- ✓ Saddle anesthesia
- Change in bowel or bladder habits

### **Exacerbating/Alleviating Factors**



- Stress
- Stress letdown "weekend headaches"
- Menstrual Cycle (premenstrual 2-3days or mid-cycle)
- Glare, flickering light, noise, strong perfumes
- Vasodilating drugs
- Alcohol
- Skipping meals / dehydration
- Caffeine overuse + withdrawal
- Exercise
- Sexual activity
- Cough
- Sustained neck / head posture or precipitating movements



# A Caution on Triggers...







- Place less emphasis on weather and food triggers
- Focus on sleep hygiene, stress reduction, proper diet and hydration
- Consider **situational prescribing** prior to events known to cause exacerbations for the individual

## Lifestyle / Social History, etc.:

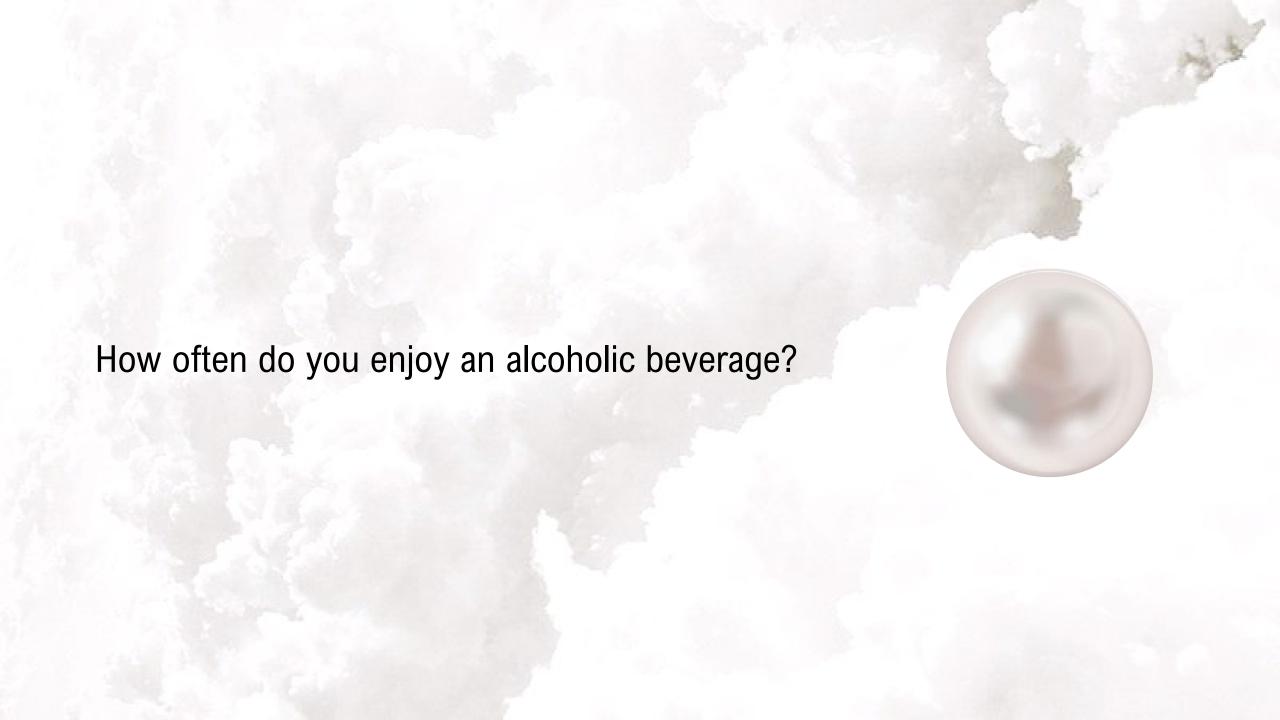


#### **SOCIAL HISTORY:**

- Tobacco
- Alcohol
- Marijuana
- Other drugs
- Relationships
- Work
- PREVIOUS INTERVENTIONS:
- PREVIOUS ABORTIVE TREATMENTS:
- PREVIOUS PREVENTIVE TREATMENTS:

#### **FAMILY HISTORY**





### Lifestyle / Social History, etc.:



- Caffeine: frequency / amounts / withdrawal headaches
- Diet: Regular breakfast? Adequate morning protein intake (12-15g within 1h)
- Hydration: (ideally 2-3L of water daily)
- Exercise: Part of their typical routine?

- Mood: screen anxiety, depression, or stress.
  - ... trauma, Adverse Childhood events?



### **ACE: Should we explore it?**



Adverse childhood experiences (ACEs) can include emotional, physical and sexual abuse as well as emotional and physical neglect.

ACEs are associated with chronic pain, including headache, in adulthood. There is longitudinal evidence to support a prospective relationship with migraine in adulthood.





- Systemic sxs / signs (fever, wt loss, rash/arthralgia, HIV, CA)
- Neurologic sxs/signs
- Onset: Crescendo, Thunderclap (
- Older age of onset (>50yo) (jaw cla
- Pattern ∆ :
  - Phenotype type Δ
  - Progressive
  - Provoked (manipulation)
  - Postural aggravation



In primary care, and if patients are presenting with headache, 90% chance it is migraine

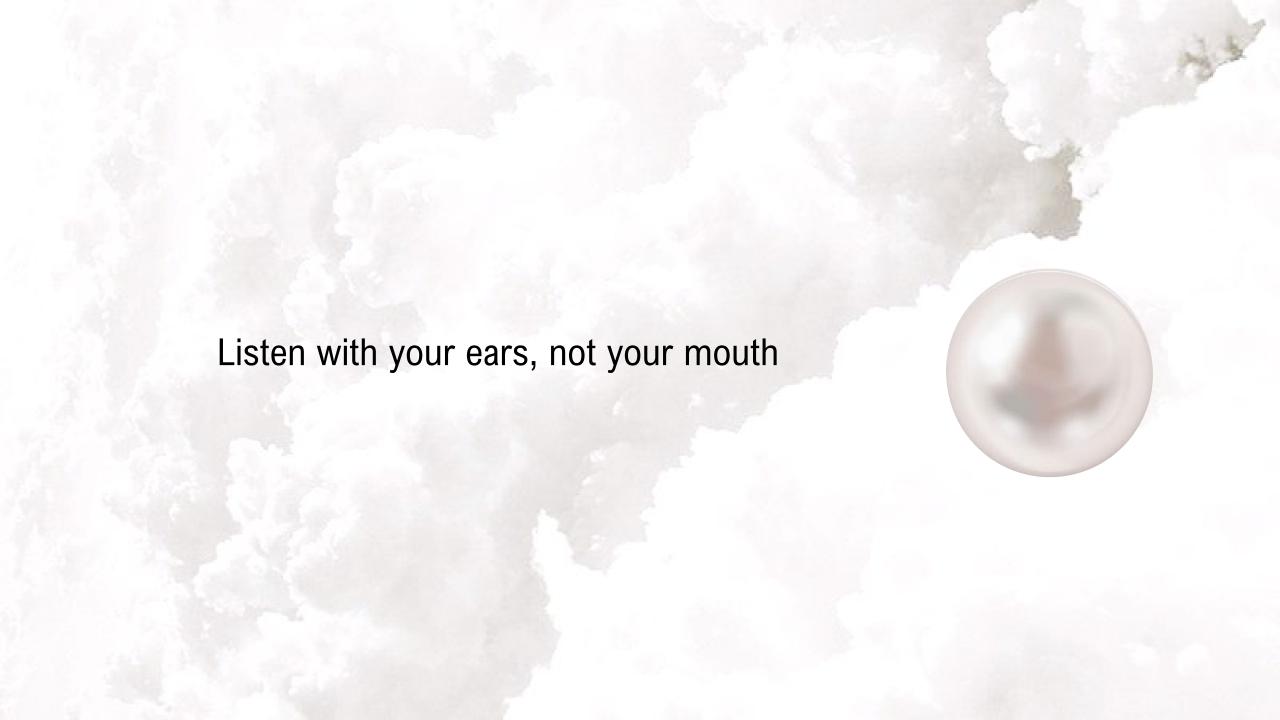




Sign/symptom	Related secondary headaches
Systemic symptoms, including fever	Headaches attributed to infection or nonvascular intracranial disorders, carcinoid or pheochromocytoma
Neoplasm in history	Neoplasms of the brain
Neurologic deficit or dysfunction	Headaches attributed to intracranial disorders, brain abscess, or other infections
Sudden or abrupt onset of headache	Subarachnoid hemorrhage and other headaches attributed to cranial or cervical vascular disorders
	Giant cell arteritis, other headaches attributed to cranial or cervical vascular disorders, neoplasms, or other nonvascular intracranial

# Any NEW or UNUSUAL headache in a patient known for migraine is secondary until proven otherwise

Painful eye with autonomic features	Pathology in posterior fossa, pituitary region, or cavernous sinus; Tolosa-Hunt syndrome; ophthalmic causes
Posttraumatic onset of headache	Acute and chromic posttraumatic headache, subdural hematoma and other headaches attributed to vascular disorders
Immune system pathology (e.g., HIV)	Opportunistic infections
Painkiller overuse or new drug at onset of headache	Medication overuse headache; drug incompatibility



Epictetus' Proverb: We have two ears and one mouth so that we can listen twice as much as we speak.

The patient will tell you their diagnosis and guide further questions / treatment approaches



### **Physicians Interrupting Patients**

Kari A. Phillips, MD<sup>1</sup>, Naykky Singh Ospina, MD, MSC<sup>2</sup>, and Victor M. Montori, MD, MSC<sup>3</sup>



<sup>1</sup>Department of Pediatric and Adolescent Medicine, Mayo Clinic, Rochester, MN, USA; <sup>2</sup>Division of Endocrinology,

Department of Medicine, University of Florida, Gainesville, FL, USA; <sup>3</sup>Knowledge and Evaluation Research Unit, Division of Endocrinology,

Diabetes, Metabolism and Nutrition, Department of Medicine, Mayo Clinic, Rochester, MN, USA. Phillips KA, et al. J Gen Intern Med. 2019 Oct;34(10):1965.

- Physicians interrupted patients after a median of 11 seconds
- Patients who were not interrupted spoke for a median of 6 seconds.
- Many patients who spoke only briefly had no concerns had minimal opportunity for interruption.
- Patients who had concerns or more prolonged story behind their chief complaint, were interrupted only a few seconds into their story.
- Small sample size (only a subgroup of patients was asked about their agenda)
- Some interruptions can be helpful in guiding the clinical encounter in a productive direction
- Interruption seconds into the initial elicitation of the patient's concerns is not the appropriate
- Allow the patient to relay their story and experience your engaged, empathetic listening rather than a question-answer driven conversation.



### **Avoid Willful Blindness**



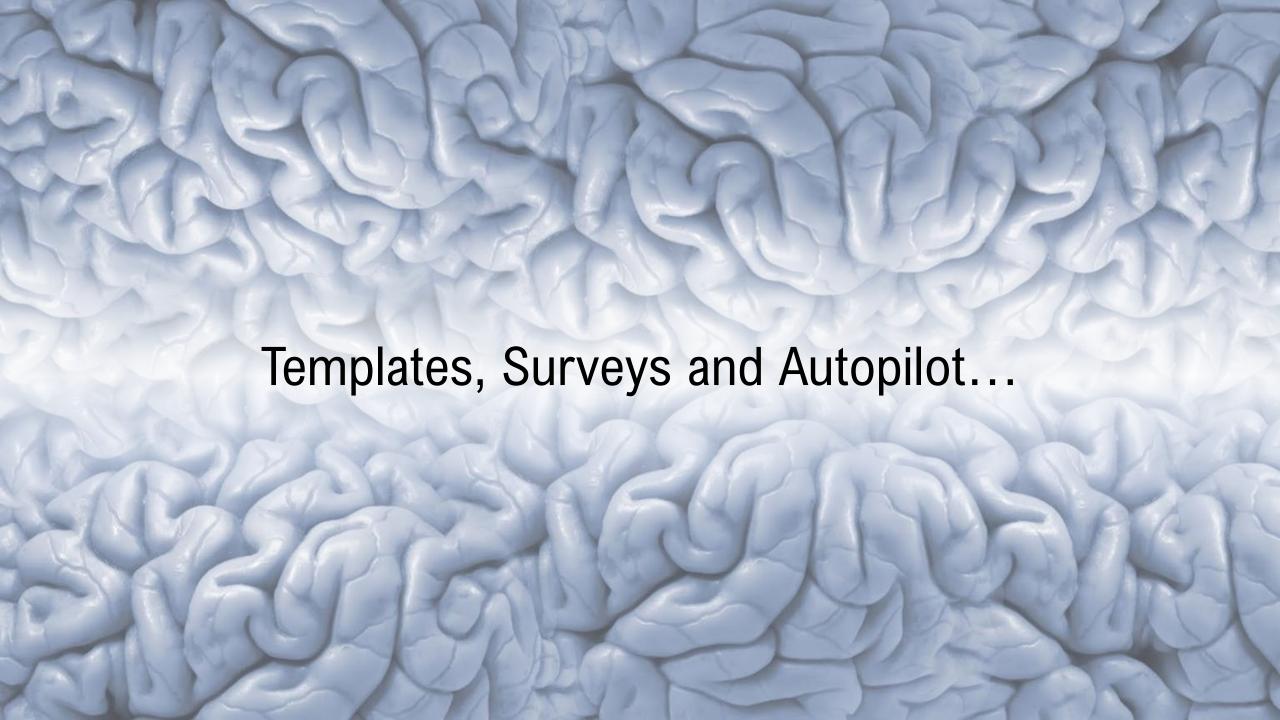
Hidden curriculum: "Don't ask questions to which you don't want the answers"

- Certain difficult symptoms minimised or ignored
- Part of migraine, but not reflected in classical criteria
- Patients feel frustrated or unheard, concerned symptoms may be caused by something else more ominous
- Chance to provide reassurance instead

This attitude is not limited to Medical Culture:

- Astronauts and space motion sickness
- 1960s: None have it
- Today: 90% have it

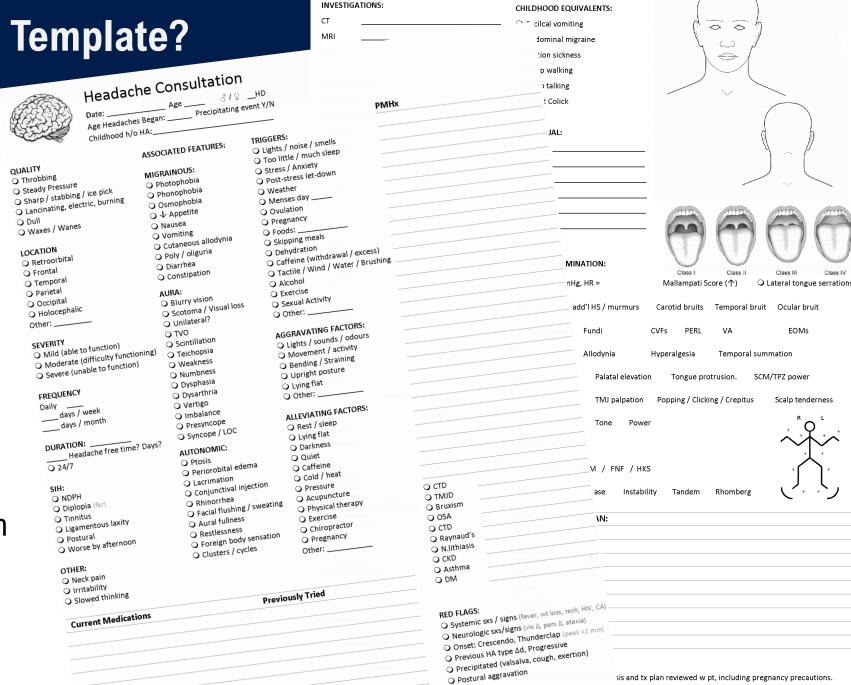




### **To Template or Not to Template?**

## Clinical Encounter Checklists have pros and cons...

- Great for beginners
- Methodical Approach
- Potentially time saving...
- Inefficient if done incorrectly
- Red Herrings
- Suggestibility of patients
- May lead to overinvestigation



## To Template or Not to Template?



EMR Templates and Macros can help to greatly reduce your note taking time and allow for more face to face time with patients, and completion of medical records in the course of the encounter.

Patient was seen in clinic today. Case reviewed from to

Thank you for your kind referral to our clinic.

PATIENT IDENTIFICATION: XXXXXXX is a 23 year old [right-handed|left-handed] [woman|man] referred to our clinic for evaluation of headaches and recommendations for management.

#### PAST MEDICAL HISTORY:

#### **CURRENT MEDICATIONS:**

ALLERGIES AND SENSITIVITIES: [No allergies reported No known allergies causes].

#### HISTORY OF PRESENTING ILLNESS:

XXXXXXX's headaches seem to have begun [in infancy|in childhood|in their teens|years ago|at the age of] [without any discernible precipitant|following a MVA in|following].

Currently, [headaches occur approximately XX days monthly | headaches are 24/7 without relief; she does not experience any headache free (crystal clear) time]. [Of 30 days in a typical month: |They range from] [1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17|18|19|20] are mild, and only minimally bothersome. [1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17|18|19|20] are moderate, requiring a change of activity or

[1|2|3|4|5|6|7|8|9|10|11|12|13|14|15|16|17|18|19|20] are severe, requiring rest and stopping activities.

Headaches may last up to XX [hours days] untreated.

[They wax and wane over the course of the day.]

In terms of phenotype, headaches [are primarily|may consist of any combination of] [throbbing|steady pressure|sharp|stabbing|ice pick|lancinating|electric|burning|dull] and usually occur [on the right|on the left|bilaterally] in a [retroorbital|frontal|temporal|frontotemporal|parietal|vertex|occipital|holocephalic] distribution. [ | Headaches may become holocephalic during extreme exacerbations.]

Associated symptoms include [photophobia|phonophobia| osmophobia|nausea|vomiting|cutaneous allodynia]. [She|He] [can|does not] worsen with exertion and [improves|does not improve] with rest. Headache triggers include [lights|noises|smells|too little sleep|stress or anxiety|post\_stress|let\_down| weather|menses day|specific foods such as \_\_\_\_|skipping meals|dehydration|caffeine withdrawal| tactile stimulation|wind|water|tooth-brushing|alcohol|exercise|sexual activity\and seemingly any activity that elevates the heartrate|.

Aggravating factors [include|are the same] [lights|sounds|odours|movement or activity|bending|straining|upright posture|lying flat].

Alleviating factors include [rest and sleep|lying

flat | darkness | quiet | caffeine | cold | heat | pressure | analgesics ].

On questioning regarding aura,

she sometimes experiences [blurry vision|scotoma|scintillation|teichopsia|weakness|numbness|dysphasia|dysarthria|vertigo|imbalance|presyncope|syncope].

There is no report of [blurry vision|scotoma|scintillation|teichopsia|weakness|numbness|

## **Patient Surveys**

- May help to gather data while patient is waiting, or even given prior to visit
- Patients often express frustration with interpretation of questions

#### Headache Intake Assessment Form Age: \_\_\_\_\_Sex: M F Marital Status \_\_\_\_\_ Do you smoke cigarettes? Yes No Do you drink alcohol? Never Name of Spouse: Have you had any type of problem with addict Name(s) and Age(s) of children:\_\_\_\_\_ Do you tend to be anxious or nervous? If yes, is your anxiety mild, Do you have trouble Sleeping? Y N If yes, Does anyone in your family have headaches, or have they had moderate-to-severe headaches in Do you have a history of depression? Y or N Is/was it: Mild How old were you when you started having headaches? How often do you have a mild -moderate headache? Other past medical history: How often do you have a severe headache/ migraine?\_\_\_\_\_ How long do the severe headaches last? \_\_hours \_\_one day \_\_ two days \_\_three or more days On a scale of one to ten, ten being the worst, how severe are the headaches? Ulcers or stomach problems? \_\_\_\_\_ Moderate How much do these daily headaches bother you? Mildly \_\_\_\_\_ Moderately \_\_\_\_\_ Severely \_\_\_\_ Any other medical problems? Where does the pain occur for your daily headaches? Where does the pain occur for your severe headaches/migraines?\_\_ What does your headache typically feel like? ( please circle one) sharp/stabbing Throbbing/pulsing Pressing/squeezing Side effects or allergies to any medications? Does your eye tear on the side of the headache? Are the headaches much worse in the last few months? What medications are you currently taking? Are the headaches much worse in the last year? Do you typically have visual problems with your headaches; such as flashing lights, sprinkles of Do you frequently have nausea with your headaches? light, or vision loss on one side? Do you typically experience sensitivity to light? Do you typically experience sensitivity to sound? tefore or during your menstrual cycle? Yes

dull/achy

No

No

No

No

Yes

Yes

Yes

Yes

Yes



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Professor of Neurology and Director of the Headache Facial Pain Program at Stanford University.

Founding medical director at the Keeler Center for the Study of Headache.



Alan Rapoport, MD

Clinical Professor of Neurology at The David Geffen School of Medicine at UCLA.

Past-President of the International Headache Society.

Founder and Director-Emeritus of The New England Center for Headache.



Jim Blythe, PhD

Research Scientist at the Information Sciences Institute at the University of Southern California.

Over 5000 citations across 100 publications in artificial intelligence, knowledge acquisition, machine learning, social network analysis and security.

## **Al-Assisted History Taking**





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#### News release

April 24, 2024













OMA welcomes artificial intelligence pilot and other initiatives aimed at reducing administrative burden for doctors



**Al-Assisted History Taking** 

• Summarizes / transcribes conversations between doctor and patient.

 Some models can suggest critical elements that have been omitted by MD

May reduce administrative burden / burnout

 May improve access to care for patients (can see more patients)



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### The great AI scribe rollout

July 02, 2024

By Colin Leslie - June 2024, The Medical Post

Some doctors euphoric about new tech that produces SOAP notes automatically at end of patient encounter. But there is a lot to unpack about this fresh technology and how to find the best tools for your practice.

"I will never go back," gushed Dr. Rosemarie Lall, a family physician in Toronto, to Global News. "It decreases the cognitive load you feel at the end of the day!" She said the burden of paperwork had been so bad she was "dreading" her workday until she got an Al scribe.

For Dr. Ali Damji of Mississauga, Ont., the time-saving is astonishing. He started using an Al scribe at the start of the year and found for a clinic day with 14 patients (mix of in-person and virtual), he now spends a total of 30 minutes after the clinic on all documentation including referrals. He estimates using an Al scribe is saving him at least four hours during the week and at least two or three hours over the weekend. "This is almost like getting a whole day of your life back!" he observed.

To be sure, there are doctors who scoff and say that clinicians who finish on time, use templates and don't chart on evenings and weekends, simply don't need them. But the level of enthusiasm from some doctors about this tech is sky-high.

Essentially, Al scribe companies have taken a foundation model from one of the big Al providers like the creator of ChatGPT and then they have tuned it for medical use along with adding other components like speech-to-text and deidentification, explained Simon Ling, executive director for partnerships and stakeholders at OMD (also known as OntarioMD).

The effect for a clinician like Dr. Damji is that now he brings his iPad to each encounter and just talks with the patient while the scribe listens and writes a SOAP note at the end. Dr. Damji glances over that clinical summary and perhaps changes a few things and then, "It is a quick copy and paste into the EMR," he said. (Many doctors use AI scribes that are integrated with their EMR so they'll just have a microphone beside their computer to record encounters.)

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help@tali.ai

to get connected!

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#### Record

Conversation in the room
is analysed, and a real time
transcription of the
conversation will track
what's said

### **Analyse**

AutoScribe creates a
Clinician Note based on
the encounter
with 1 of the 100 different
templates we offer











#### Consent

Patient consent must be gained before AutoScribe will begin to record **Populate** 

Clinician Note field will populate in real time with the clinically relevant information during encounter Submit

Once reviewed and editing is complete the note can be pushed to the EMR or copy and pasted

Q



Yes. However, when integrating AI scribes into their practice, physicians should be aware of the following:

- Accuracy: Al scribes can create medical records containing errors. Physicians need to review all information summarized by the AI scribe for accuracy and completeness.
- Accountability: physicians are ultimately accountable for everything that is captured in the patient's medical record.
- Data privacy and protection: all patient data entered into the AI scribe needs to be kept private and secure. Physicians' obligation to protect their patients' personal health information is no different when using AI scribes than in any other circumstance.
- Transparency: physicians need to inform patients about how the AI scribe will be used for the purposes of documentation, and in particular obtain patient consent before recording conversations using AI scribes.

Physicians using AI scribes to assist with documentation need to be mindful of existing legal and medical professional obligations which would also apply to the use of AI scribes. Physicians may want to consult the Canadian Medical Protective Association (CMPA) or the Ontario Medical Association (OMA) for further guidance on the use of AI scribes.





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MY MEMBERSHIP

You must obtain written consent from the patient before using an AI scribe

You are still responsible for the accuracy and reliability of the patient note (beware of hallucinations!)

You are still responsible for ensuring the AI service meets privacy and security requirements under privacy legislation (PHIPA etc.)

#### Additional Resources:

College of Physicians and Surgeons of Alberta, Advice to the Profession: Artificial Intelligence in Generated Patient Record Content [PDF].

College of Physicians and Surgeons of Ontario, eDialogue, Can Al Boost Safety and Quality in Patient Care?.

American Medical Association, ChatGPT and Generative AI: What physicians should consider [PDF] .

DISCLAIMER: The information contained in this learning material is for general educational purposes only and is not intended to provide specific professional medical or legal advice, nor to constitute a "standard of care" for Canadian healthcare professionals.

## Summary

- Give yourself time (60-90 min) to take a thorough and complete history
  - Builds patient trust
  - More likely to uncover secondary contributors to headache
- Start with open ended questions
- Templates may be useful but caution with respect to suggestibility
- Avoid minimizing symptoms like vertigo, brain fog, etc.
- Validate symptoms when patients express them. Empathy is key
- Always screen for red flags and investigate when appropriate
- Al Scribes may assist with workflow and thoroughness



### **THANK YOU**

