



Pain management in older patients

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Conflict of interest declaration



I have no conflict of interest related
to this presentation



Learning objectives

As a result of attending this session, participants will be able to :

- Develop a multidimensional management plan for chronic pain in older persons
- Prescribe opioids appropriately to older persons
- Prescribe most useful non-opioid analgesics, based on patient's pain and comorbidities



Pain

“An unpleasant sensory and emotional experience associated with actual or potential tissue damage, or described in terms of such damage”

(International Association for the Study of Pain)



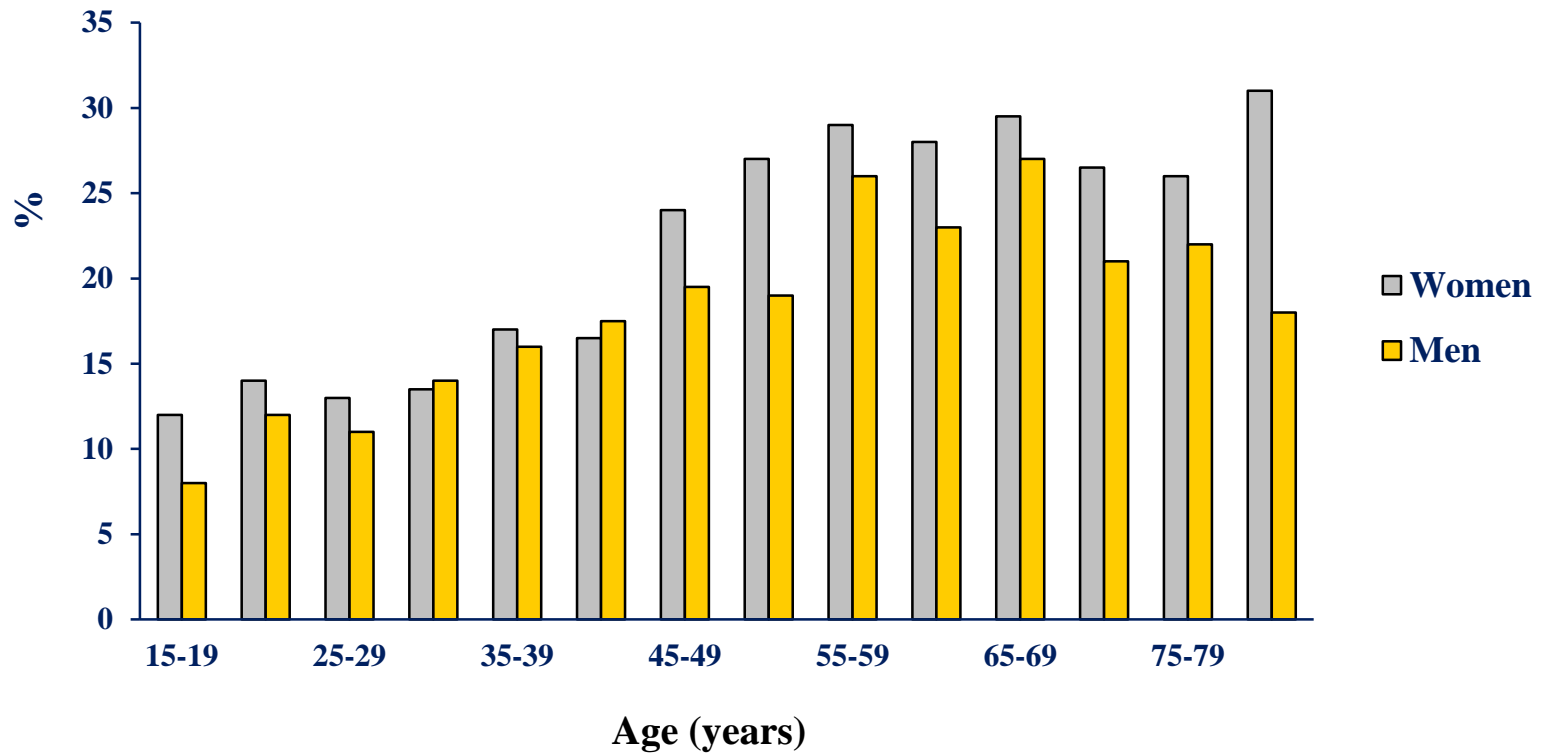
Pain (new definition)

“An unpleasant sensory and emotional experience associated with, or resembling that associated with, actual or potential tissue damage”

(International Association for the Study of Pain, July 2020)



Chronic pain prevalence



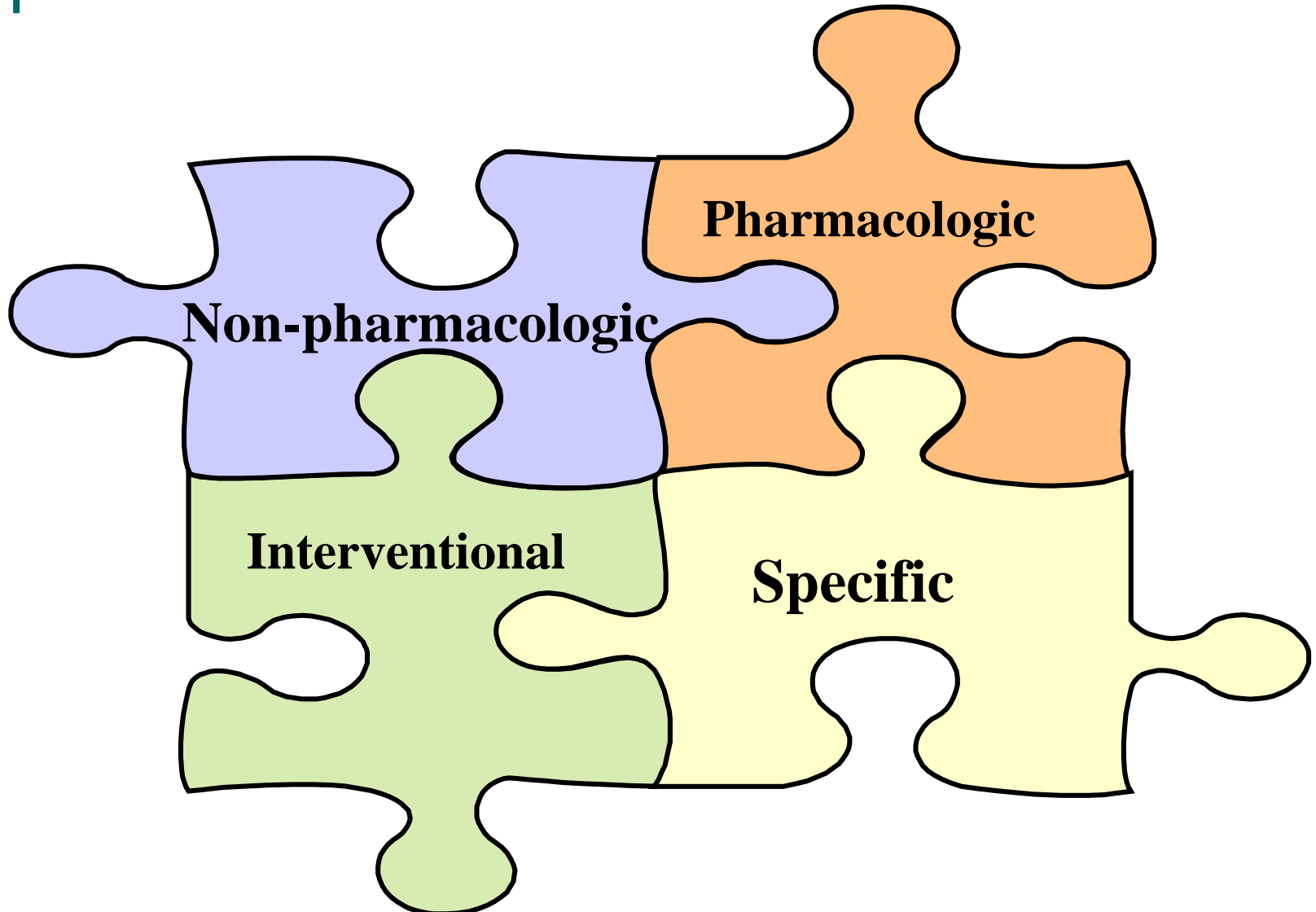
(Blyth et coll., 2001)



Pain management

FAVOR **ACTIVE** APPROACHES
ENCOURAGING PATIENT
EMPOWERMENT AND ENGAGEMENT IN
HIS/HER PAIN MANAGEMENT

Pain management



Pharmacological management



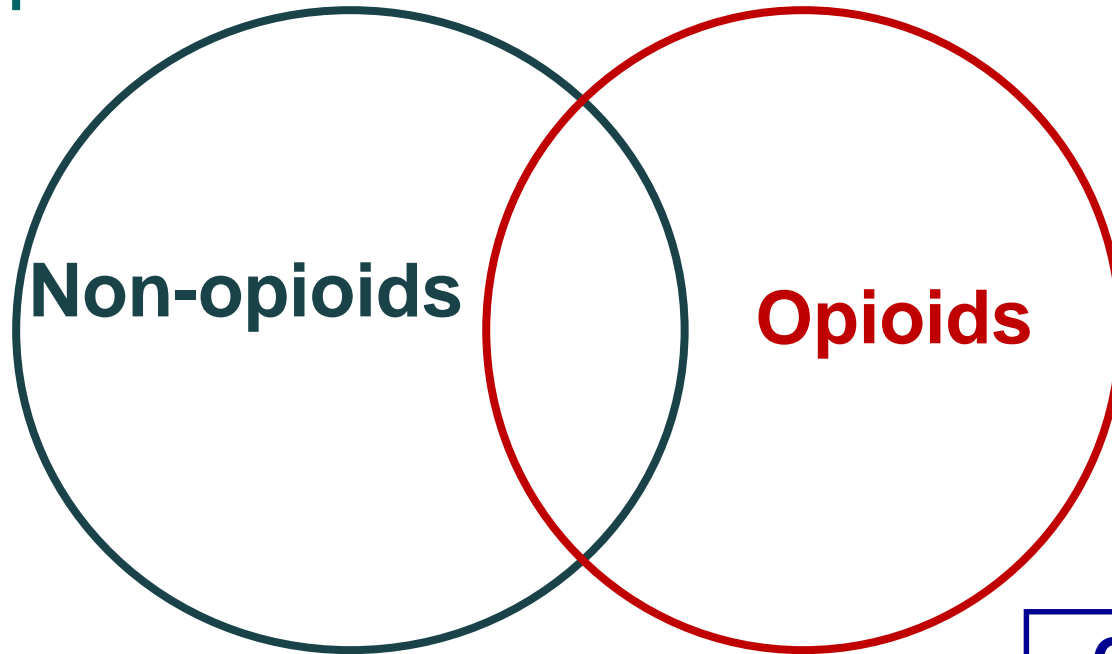


Pharmacological management

- Choose medications with the best efficacy : adverse effects ratio
- Discontinue medications with poor ratios
 - benzodiazepines
 - tricyclics
 - daytime gabapentinoids
- Use combination therapy rather than monotherapy
- « **Start low, go slow ... but go somewhere** »



Pharmacological management



**Comorbidities
management**



Acetaminophen

- ↑ half-life in older patients: qid rather than q 4 hours
- Sustained-release formulation 650 mg can be used bid-tid
 - Tylenol Arthritis, Tylenol Muscle Pains
- **Adverse effects**
 - renal toxicity with prolonged use
 - risk of liver toxicity with high doses
- **Caution with**
 - “**Back pain**” and “**Body Pain Night**”: methocarbamol
 - “Night”: diphenhydramine
 - “Headache”: caffeine



Acetaminophen

- **Maximum doses :**

- 4 g/d <10 days in healthy and well nourished patients
- 3,2 g/d for prolonged use in healthy patients
- **2,6 g/d** for prolonged use in patients at risk or > 65 years old



NSAIDs

Pharmacological Management of Persistent Pain in Older Persons

American Geriatrics Society Panel on the Pharmacological Management of Persistent Pain in Older Persons


II) Non-selective NSAIDs and coxibs may be considered rarely, and with extreme caution, in highly selected individuals

(A) *Patient selection*

- other (safer) therapies have failed
- evidence of ongoing therapeutic goals not met
- ongoing assessment of risks and complications outweighed by therapeutic benefits


VII) All patients taking non-selective NSAIDs or coxibs **should be routinely assessed for**

- gastro-intestinal toxicity
- renal toxicity
- hypertension
- heart failure
- drug-drug and drug-disease interactions



Noradrenaline and serotonin reuptake inhibitors (NSRIs)

| | Approved indications | Adverse effects | Interactions | Precautions |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------|
| Duloxétine (Cymbalta®) | <ul style="list-style-type: none"> • Diabetic neuropathy • Fibromyalgia • Low back pain • Knee OA | <ul style="list-style-type: none"> • Nausea • Dizziness • Headache • Constipation • Fatigue • Somnolence | Numerous | <ul style="list-style-type: none"> • Adjust dose in renal failure • ↑ liver enzymes has been reported |
| Venlafaxine (Effexor®) | | <ul style="list-style-type: none"> • Headache • Nausea • Somnolence • Sweating • High blood pressure | | <ul style="list-style-type: none"> • Adjust dose in renal failure |



Noradrenaline and serotonin reuptake inhibitors (NSRIs)

| | Starting dose | Titration | Usual effective daily dose | Maximum daily dose | Delay to assess response |
|-------------------------------|---------------|-----------------------------|----------------------------|--------------------|--------------------------|
| Duloxetine (Cymbalta®) | 30 mg die | ↑ to 60 mg die in 1-2 weeks | 30-60 mg | 60 mg | 4 weeks |
| Venlafaxine (Effexor®) | 37,5 mg die | 75 mg q 1-2 w | 37,5-150 mg | 225 mg | 4 weeks |



Gabapentinoids

| | Approved Indications | Adverse effects | Interactions | Precautions |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Pregabalin (Lyrica®) | <ul style="list-style-type: none"> • Diabetic neuropathy • Post-herpetic neuralgia • Central neuropathic • Fibromyalgia | <ul style="list-style-type: none"> • Dizziness • Somnolence • Peripheral edema • Dry mouth • Ataxia • Weight gain • Confusion | None | <ul style="list-style-type: none"> • Adjust dose in renal failure • Caution if stage III-IV heart failure |
| Gabapentin (Neurontin®) | | | Antacids decrease absorption | |



Gabapentinoids

| | Starting dose | Titration | Usual effective daily dose | Maximum daily dose | Delay to assess response |
|--------------------------------|----------------------|----------------------------------|-----------------------------------|---------------------------|---------------------------------|
| Pregabalin (Lyrica®) | 25-75 mg HS-bid | ↑ q 3-7 days | 150-300 mg | 600 mg | 3-4 weeks |
| Gabapentin (Neurontin®) | 100-300 mg HS-tid | ↑ par tranche 100 mg q 1-4 weeks | 900-2400 mg | 3600 mg | 3-8 weeks |

Other antidepressants

| | Approved Indications | Adverse effects | Interactions | Precautions |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tricyclics/ tetracyclics <ul style="list-style-type: none"> •amitriptyline •nortriptyline •desipramine | | Central <ul style="list-style-type: none"> •Fatigue •Sedation •↓ vigilance •Confusion Peripheral <ul style="list-style-type: none"> •Constipation •Blurry vision •Urinary retention •Tremors •Weight gain •Sexual dysfunction •Hypotension | Several | <ul style="list-style-type: none"> • Contraindicated if cardiac disorder (conduction, CAD, heart failure) or glaucoma • Risk of serotonergic syndrome if associated to another antidepressant • Avoid in older patients |
| Bupropion (Wellbutrin®) | | <ul style="list-style-type: none"> • Dizziness • Nausea • Somnolence • Headache | ↓ seizure threshold if associated to another antidepressant | Contraindicated if feeding or seizure disorder |



Other antidepressants

| | Starting dose | Titration | Usual effective daily dose | Maximum daily dose | Delay to assess response |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------|----------------------------|--------------------|--------------------------|
| Tricyclics/ tetracyclics <ul style="list-style-type: none">•amitriptyline•nortriptyline•desipramine | 10 mg HS | ↑ 10 mg q 3-7 jours | 50-100 mg HS | 150 mg | 3-8 weeks |
| Bupropion (Wellbutrin®) | 150 mg die | ↑ to 300 mg after 2 weeks | 150-300 mg | 300 mg | 4-6 weeks |



Other anticonvulsants

| | Approved Indications | Adverse effects | Interactions | Precautions |
|----------------------------------|----------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Carbamazepine (Tegretol®) | | <ul style="list-style-type: none"> • Nausea • Fatigue • Somnolence | <ul style="list-style-type: none"> • Numerous | <ul style="list-style-type: none"> • Hepatiti • Stevens-Johnson syndrome • Bone marrow aplasia |
| Topiramate (Topamax®) | | | | |
| Levetiracetam (Keppra®) | | | | |



Other anticonvulsivants

| | Starting dose | Titration | Usual effective daily dose | Maximum daily dose | Delay to assess response |
|---------------------------------|---------------|----------------------|----------------------------|--------------------|--------------------------|
| Carbamazepine (Tégréol®) | 50 mg die | 100-200 mg/w | 400-1200 mg (in 2-4 doses) | 1200 mg | 4 weeks |
| Topiramate (Topamax®) | 15 mg bid | 15-25 mg/w | 200-400 mg (in 2 doses) | 400 mg | |
| Levetiracetam (Keppra®) | 250 mg bid | 500 mg/d q 1-4 weeks | 1000-3000 mg (in 2 doses) | 3000 mg | |



Other anticonvulsivants

| | Approved Indications | Adverse effects | Interactions | Precautions |
|---------------------------------------|----------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Oxcarbazepine (Trileptal®) | | | | |
| Lamotrigine (Lamictal®) | | <ul style="list-style-type: none">• Nausea• Fatigue• Somnolence | <ul style="list-style-type: none">• Carbamazepine• Oxcarbazepine• Phenytoin• Valproic acid | <ul style="list-style-type: none">• Allergies• CNS effects• Skin reactions• Stevens-Johnson syndrome |
| Valproic acid | | | | |



Other anticonvulsivants

| | Starting dose | Titration | Usual effective daily dose | Maximum daily dose | Delay to assess response |
|-----------------------------------|----------------------|------------------|-----------------------------------|---------------------------|---------------------------------|
| Oxcarbazepine (Trileptal®) | 150 mg bid | 300 mg/d q 1-4 w | 900-1200 mg (in 2 doses) | 2400 mg | 4 weeks |
| Lamotrigine (Lamictal®) | 25 mg bid | 50 mg/d q 2-4 w | 300-500 mg (in 2 doses) | 500 mg | |
| Valproic acid | 10-15 mg/k/j | 5-10 mg/kg/d | 1200-1800 mg (in 3 doses) | 1800 mg (60 mg/k/d) | |



Cannabinoids

| | Approved Indications | Adverse effects | Interactions | Precautions |
|--------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------|
| Nabilone (Cesamet®) | | <ul style="list-style-type: none">• ↓ concentration• Hypotension• CNS effects• Dry mouth• Dizziness | ↑ effects of other CNS depressants | Caution in patients with psychiatric history |
| Dronabinol (Marinol®) | | | | |
| Buccal THC/CBD (Sativex®) | <ul style="list-style-type: none">• Multiple sclerosis• Cancer | | | |



Cannabinoids

| | Starting dose | Titration | Usual effective daily dose | Maximum daily dose | Delay to assess response |
|----------------------------------|-----------------|-------------------------|----------------------------|--------------------|--------------------------|
| Nabilone (Cesamet®) | 0,5-1 mg HS-bid | 0,5-1 mg HS-bid q 1-4 w | 1-2 mg HS | 6 mg | 2 weeks |
| Dronabinol (Marinol®) | 2,5 mg bid | 2,5 mg bid q 4 w | | 20 mg | |
| Buccal THC/CBD (Sativex®) | 4 puffs | as tolerated | 8 puffs (12 puffs q 4-6h) | 12 puffs | |



Cannabis

- 2 forms
 - **Cannabidiol (CBD)**
 - Anti-inflammatory and analgesic effects
 - **Tetrahydrocannabinol (THC)**
 - Euphoric, dysphoric, antidepressive?, anxiolytic? effects



Cannabis

| | Smoked / vaporised | Oral |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Onset of action (min) | 5-10 | 60-180 |
| Duration of action (hours) | 3-4 | 6-8 |
| Pros | <ul style="list-style-type: none">- Rapid action- Better for acute or episodic symptoms (nausea, breakthrough pain, spasm) | <ul style="list-style-type: none">- Odorless- Easy and discreet use- Better for chronic disease or pain |
| Cons | <ul style="list-style-type: none">- Dexterity required- Vaporisers can be expensive, and sometimes not portable | <ul style="list-style-type: none">- Titration sometimes difficult because delayed onset of action |



Cannabis - autorisation

- The physician does not « prescribe » the cannabis.
- **Authorizes the patient to obtain cannabis from a licensed producer**
 - Completes the registration form of the the licensed producer selected by the patient
 - Indicates maximum authorised quantity and if restriction on administration mode or % THC
 - Has to be renewed every year
- Coverage
 - Not by RAMQ
 - Yes by Veterans and CSST
 - Some insurance companies for specific diagnoses
 - 75-200\$/mois



ORDONNANCE DE CANNABIS À DES FINS MÉDICALES



MISE À JOUR
09/2018
DIRECTIVES



Opioids

- Opioids are rarely indicated as first-line treatment.
- It is usually accepted to initiate them
 - as second line, after acetaminophen and NSAIDs, for nociceptive pain
 - as second or third line for neuropathic pain



Before prescribing an opioid

- Clarify patient's expectations
 - Reduce pain and its impacts rather than completely resolve pain
- Multimodal analgesia
 - Non-pharmacologic
 - Non-opioid analgesics
- Progressive dose titration
- Assess response
 - ↓ pain 30% or 2 on 0-10 scale
 - ↑ functional status
- Prevent and treat adverse effects
- Be attentive to signs of inappropriate behavior



Follow-up of opioid prescription

At each follow-up of an opioid prescription, the following should be assessed and documented :

- pain relief
- adverse effects
- functional autonomy
- mobility
- mood
- sleep
- inappropriate behavior

The 2017 Canadian Guideline for Opioids for Chronic Non-Cancer Pain

Guideline for opioid therapy and chronic noncancer pain

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The 2017 Canadian Guideline for Opioids for Chronic Non-Cancer Pain

1. **First-line pain treatment**

- **Optimize non-opioid pharmacotherapy** and non-pharmacological therapy, rather than a trial of opioids
(strong recommendation)

2. **Persistent problematic pain despite optimized non-opioid therapy**

- **Trial of opioids** rather than continued therapy without opioids
(weak recommendation)

The 2017 Canadian Guideline for Opioids for Chronic Non-Cancer Pain

6. **Patients who are beginning longterm opioid therapy**
 - **Restrict prescribed dose to < 90 mg morphine equivalent/day** rather than no upper limit or a higher limit
(strong recommendation)

Some patients may gain important benefit at a dose of more than 90mg morphine equivalents daily. Referral to a colleague for a second opinion regarding the possibility of increasing the dose to more than 90mg morphine equivalents daily may therefore be warranted in some individuals.

The 2017 Canadian Guideline for Opioids for Chronic Non-Cancer Pain

8. **Patients who are currently using opioids, and have persistent problematic pain and/or problematic adverse effects**

- **Rotation to other opioids** rather than keeping the opioid the same

(weak recommendation)

The 2017 Canadian Guideline for Opioids for Chronic Non-Cancer Pain

9. Patients who are currently using ≥ 90 mg morphine equivalents/day

- **Taper opioids to the lowest effective dose,** potentially including discontinuation, rather than no change in opioid therapy

(weak recommendation)

- Some patients are likely to experience significant increase in pain or decrease in function that persists for > 1 month after a small dose reduction.
- Tapering may be paused and potentially abandoned in such patients.

The 2017 Canadian Guideline for Opioids for Chronic Non-Cancer Pain

10. Patients who are using opioids and experiencing serious challenges in tapering

- **Refer these patients to a formal multidisciplinary program**

(strong recommendation)



Opioids in older patients

- Scarce data on pharmacokinetic and pharmacodynamic properties of opioids in older patients
- è Consider comorbidities and concomitant medications when choosing the most appropriate opioid for a patient
- è Avoid meperidine (Demerol®) and pentazocine (Talwin®)



Tramadol

- **3 mechanisms of action**
 - very weak agonist of μ opioid receptors
 - not pharmacologically defined as an opioid
 - not considered as a narcotic in Canada
 - noradrenaline and serotonin reuptake inhibitor
- Analgesic effect shown for noiceptive and neuropathic pain, including several studies with older subjects
- Less adverse effects than opioids (ex. ↓ constipation, ↓ somnolence)
- **Adverse effects**
 - Nausea/vomiting
 - Dizziness
 - Constipation
 - Sedation



Morphine

| Advantages | Disadvantages |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Metabolised via hepatic glucuronidation <ul style="list-style-type: none">• no age-related changes• less drug-drug interactions | Renal clearance |
| | Lipophilic active metabolite that easily crosses blood-brain barrier |
| | ↑ constipation |



Oxycodone

| Advantages | Disadvantages |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Half-life unchanged | Renal clearance |
| Physiological effects unchanged | Drug-drug interactions via CYP2D6 |
| | Pro-drug activated via CYP2D6 ? |
| Kappa agonist activity <ul style="list-style-type: none">• ↓ sedation ? | Kappa agonist activity <ul style="list-style-type: none">• euphoria |



Codeine

| Advantages | Disadvantages |
|-------------------|--------------------------------------------------------|
| | Pro-drug activated by CYP2D6 |
| | Renal accumulation of codeine, morphine and norcodeine |
| | ↑ nausea |
| | ↑ constipation |



Hydromorphone

| Advantages | Disadvantages |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Metabolised via hepatic glucuronidation <ul style="list-style-type: none">• no age-related changes• less drug-drug interactions | ↑ constipation |
| Metabolite has low affinity for opioid receptors | ↑ sedation |
| Hydrophilic metabolite → less easily crosses blood-brain barrier | |



Long-acting opioids

- Indications
 - constant pain
 - frequent episodic pain
- **Most of the time, should only be used in patients who tolerate several daily doses of short-acting opioids**
- Better to start with several regular daily doses of short-acting opioids, and later convert to a long-acting opioid if well tolerated



Transdermal buprenorphine

| Advantages | Disadvantages |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| No accumulation in renal failure | Lipophilic <ul style="list-style-type: none">• ↑ volume of distribution• ↑ half-life |
| Metabolised via hepatic glucuronidation <ul style="list-style-type: none">• no age-related changes• less drug-drug interactions | Highly protein bound → possible ↑ free portion in undernourished patients |
| Ceiling effect for respiratory depression | |
| Lower available dose can be given to opioid naive older patients | |
| Stable delivery for 7 days <ul style="list-style-type: none">• ↑ compliance• ↓ nursing care | |
| Data on clinical efficacy and tolerability in older patients | |



Transdermal fentanyl

| Advantages | Disadvantages |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| No accumulation in renal failure | Lipophilic <ul style="list-style-type: none">• ↑ volume of distribution• ↑ half-life |
| Stable delivery for 7 days <ul style="list-style-type: none">• ↑ compliance• ↓ nursing care | Variable absorption and bioavailability |
| Dysphagic patients | Smallest available dose is too high → should never be prescribed to an opioid naive older patient |



Methadone

| Advantages | Disadvantages |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| No accumulation in renal failure | Lipophilic <ul style="list-style-type: none">• ↑ volume of distribution• ↑ half-life |
| Long duration of action | Long and variable half-life |
| Cheap | Linear equianalgesic doses |
| NMDA antagonist activity | Risk of QTc interval prolongation and torsade de pointes |
| No cross-allergy with morphine, codeine and oxycodone | Drug-drug interactions via CYP3A4 |
| | Limited data on pharmacokinetics and pharmacodynamics in older patients |

(Lussier 2013)



Long-acting opioids

- Lowest long-acting opioid doses available
 - BuTrans[®] (buprenorphine) 5-20 mcg/h q 7 jours
 - Kadian[®] (morphine) 10 mg die
 - Journista[®] (hydromorphone) 4 mg die
- Capsule can be opened and granules sprinkled on cold food or administered via jejunostomy/feeding tube
 - HydromorphContin[®] (3 mg bid)
 - M-Eslon[®] (10 mg bid)
 - Kadian[®] (10 mg die)



Equianalgesic doses

Maintenance treatment

Morphine equivalents : other opioids

| Opioid | Equivalent dose (mg) | Conversion to morphine equivalents |
|------------------------|-------------------------------|------------------------------------|
| Morphine | 30 | 1 |
| Codeine | 200 | 0,15 |
| Oxycodone | 15 | 2 |
| Hydromorphone | 6 | 5 |
| Methadone and tramadol | Variable morphine equivalents | |



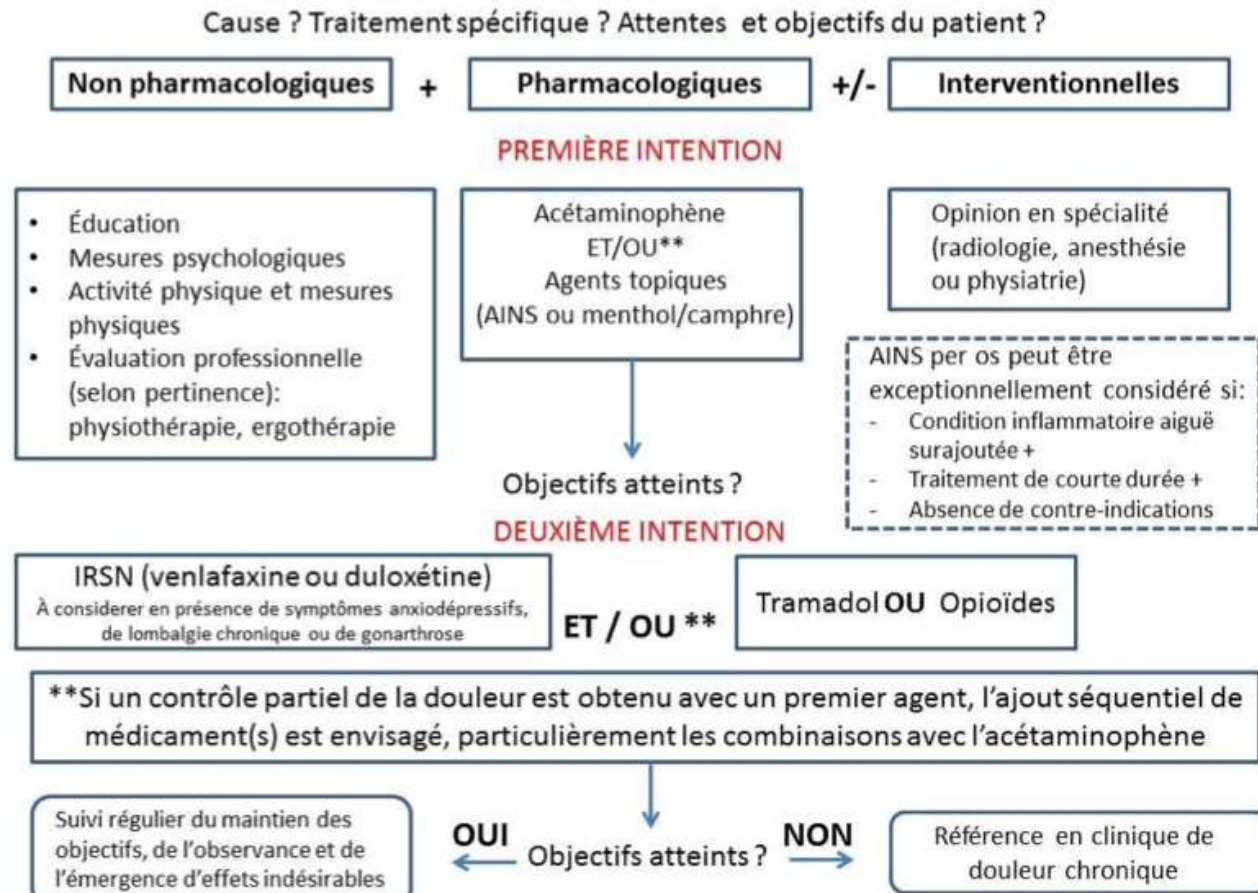
Equianalgesic doses

Maintenance treatment

Morphine equivalents : fentanyl

| Opioid | |
|----------------------|-----------------------|
| Transdermal fentanyl | 60-134 mg = 25 µg/h |
| | 135-179 mg = 37 µg/h |
| | 180-224 mg = 50 µg/h |
| | 225-269 mg = 62 µg/h |
| | 270-314 mg = 75 µg/h |
| | 315-359 mg = 87 µg/h |
| | 360-404 mg = 100 µg/h |

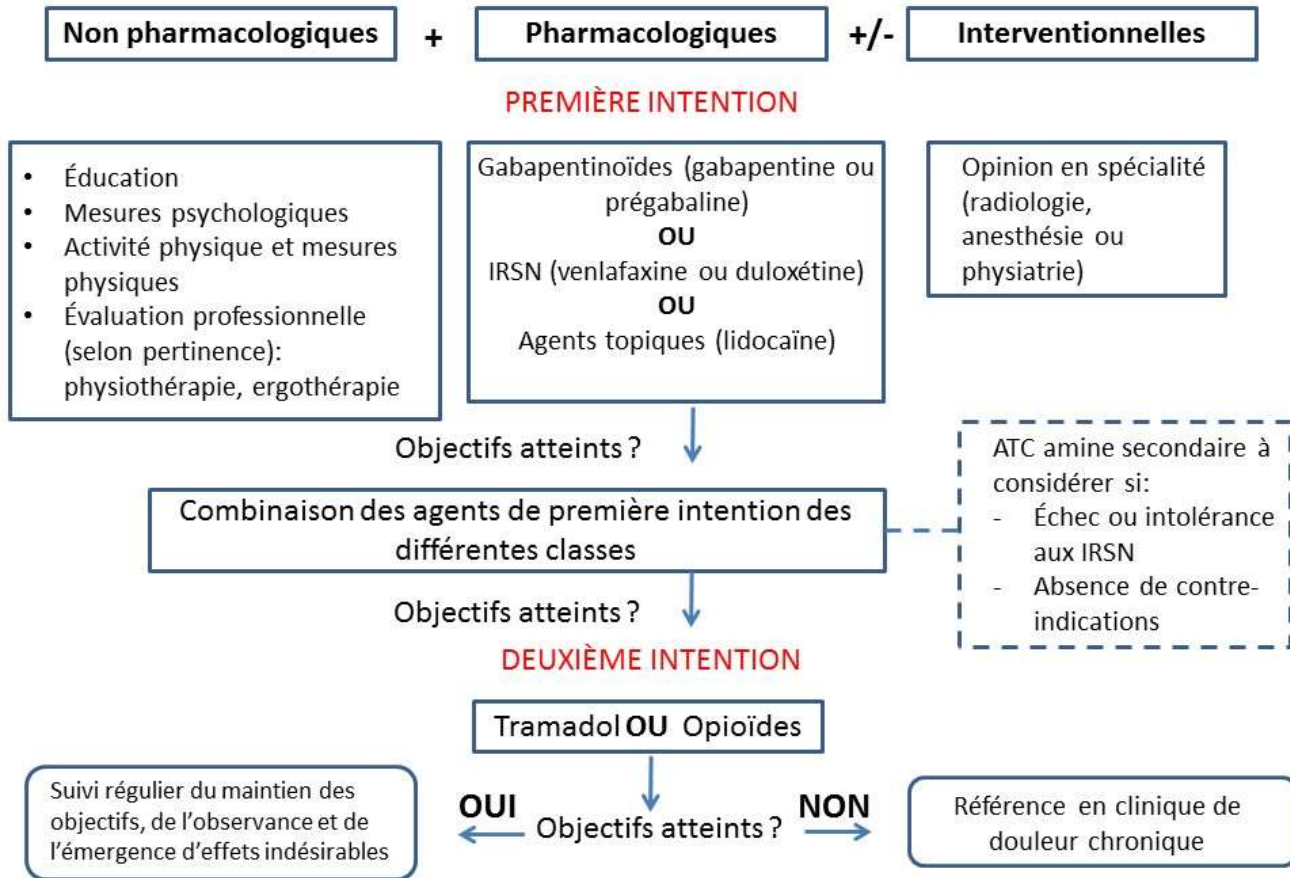
Nociceptive pain treatment



AINS: anti-inflammatoire non stéroïdien ; IRSN: inhibiteur de la recapture de la sérotonine et de la noradréline

Neuropathic pain treatment

Cause ? Traitement spécifique ? Attentes et objectifs du patient ?



ATC: antidépresseur tricyclique ; IRSN: inhibiteur de la recapture de la sérotonine et de la noradrénaline

(RUSHGQ, 2017)

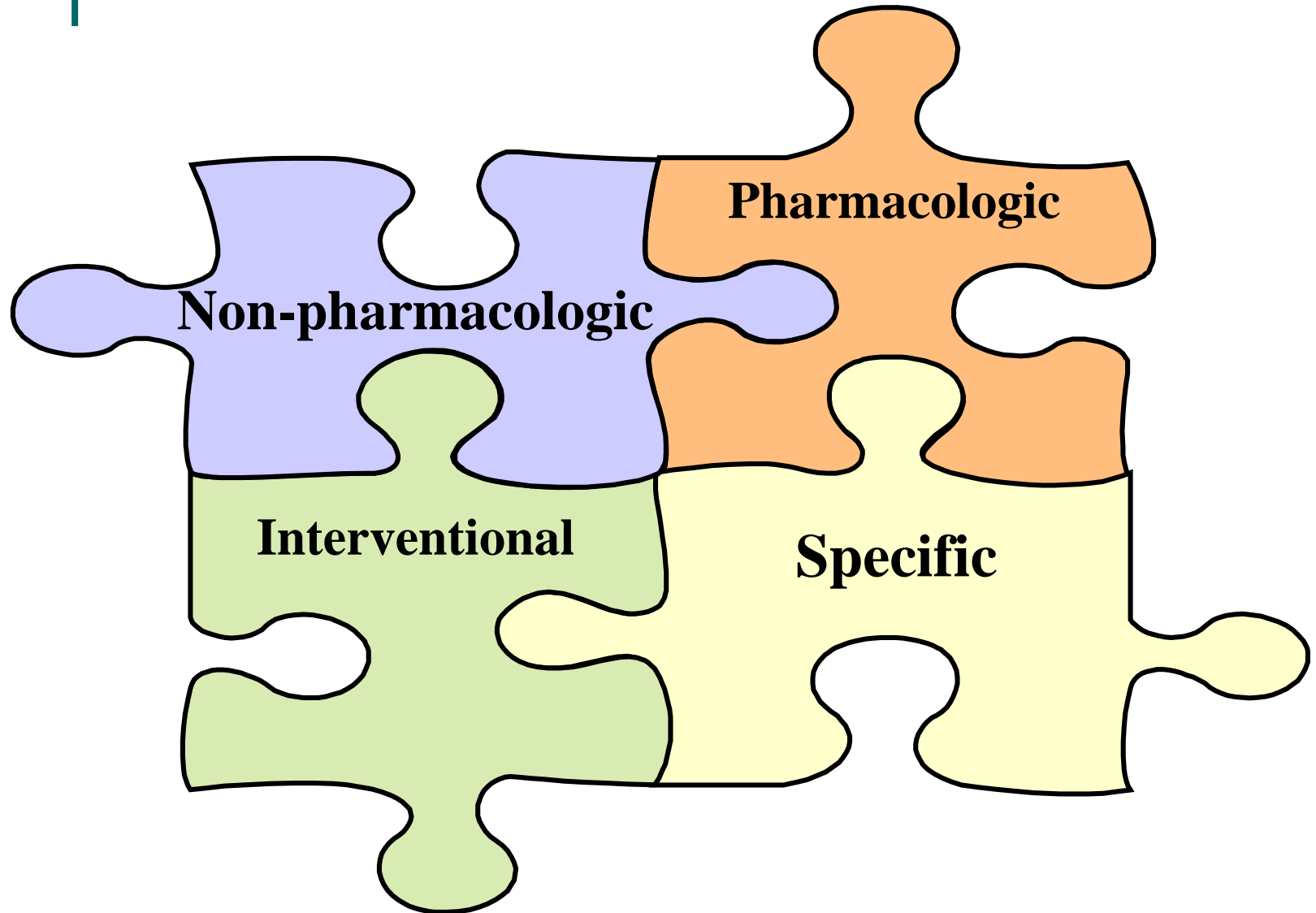


Mrs. Olivia Anderson (OA)

- 84 y.o.
- Polyarticular pain knees, hips, shoulders, lumbar
- No pain when sitting
- Pain when gets up from chair, in standing position and walking
- Maximum intensity 8/10
- Pain interferes with her mobility and ADLs, does not go out much
- Difficulty falling asleep, wakes up often
- Discouraged that she is always in pain, anxious because does not know how much longer she can stay home
- Current Rx: acetaminophen PRN

● ● ● | Mrs. Olivia Anderson (OA)

Mrs. Olivia Anderson (OA)





Mrs. Olivia Anderson (OA)

- **Interventions**

- **Joint infiltrations**

- Steroids
 - Hyaluronic acid
 - Platelet rich plasma (PRP) ?

- **Lumbar infiltrations**

- Facet blocks



Mrs. Olivia Anderson (OA)

- **Specific treatment**

- **Joint replacements ?**

- Total knee replacement

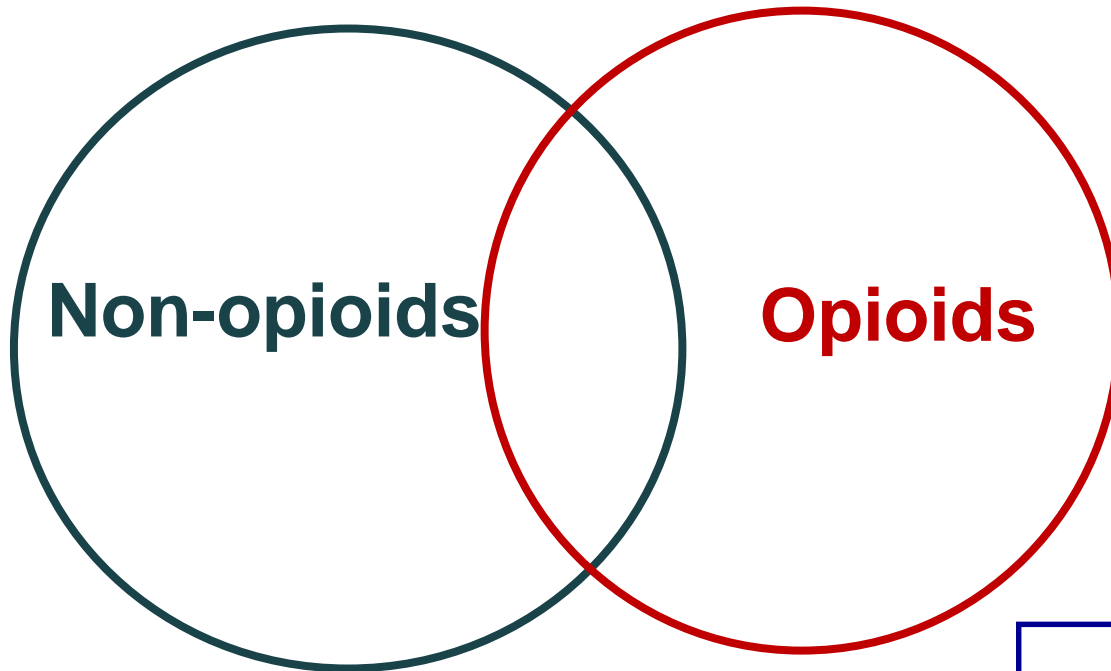
- Total hip replacement

- Shoulder arthroplasty

- ~~○ **Chirurgie lombaire ?**~~



Mrs. Olivia Anderson (OA)



**Treat
comorbidities**



Mrs. Olivia Anderson (OA)



Non-opioids

- **Acetaminophen**

- Acetaminophen 325-500 mg
PRN or regular
- Sustained-release
acetaminophen (Tylenol
Arthritis®) 650 mg 1-2 tid
PRN
- Maximum dose 2,8 g/day

- ~~NSAIDs ?~~



Mrs. Olivia Anderson (OA)



Non-opioids

- **Duloxetine**

- Analgesic, antidepressive and anxiolytic

- ~~Gabapentinoids ?~~



Mrs. Olivia Anderson (OA)

Treatment of comorbidities

- **Mildly depressed and anxious**
 - Mirtazapine HS
 - SSRI
- **Insomnia**
 - Mirtazapine HS



Mrs. Olivia Anderson (OA)



Opioids

- **Is an opioid indicated ?**
 - Severe pain
 - Very frequent
 - Interferes with functional autonomy and quality of life

➤ **YES**



Mrs. Olivia Anderson (OA)



Opioids

- **Immediate-release opioid PRN**
 - Hydromorphone 0,5 – 1 mg
 - Oxycodone 2,5 – 5 mg
- **Immediate-release opioid regular**
- **Sustained-release opioid ?**
 - No pain at rest
 - Risk of sedation
 - Transdermal buprenorphine ?

Mrs. Olivia Anderson (OA)

A friend of mine takes cannabis, and it completely relieved her pain.
Would it be good for my mother ?

- CBD oil, ad 1-2 ml bid (20-40 mg bid)
- CBD capsules, 5-20 mg bid
- Can add small dose THC HS



Mrs. Olivia Anderson (OA)

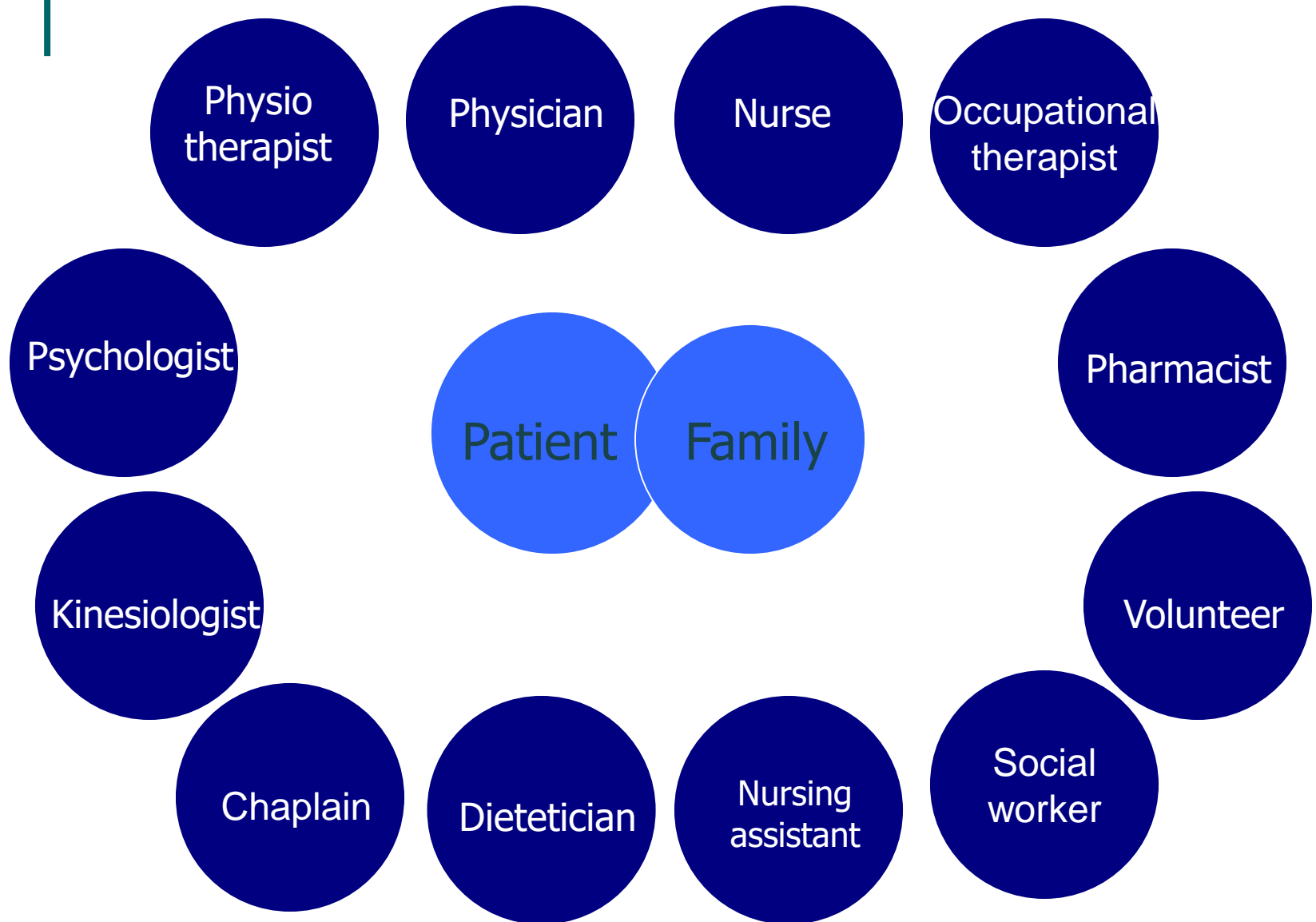
I saw on the internet a cannabis cream that you put on your knees to relieve your pain. Can I try that ?

- No scientific evidence or rationale
- Cannot be sold by licensed producer
- Patient can prepare cream from oil and lubricating cream





Interdisciplinary management





Conclusion

- Multimodal approach
- Favor medications with the best efficacy : adverse effects ratio
- Use several medications at small doses rather than one medication at high dose
- **Treat comorbidities**
 - Depression
 - Anxiety
 - Sleep impairment

Adapt the treatment to the patient

