UNIVERSITY OF MANITOBA: Thompson Community Based CPD Program 2023

## Palliative Care In Northern Manitoba

Nathan Coleman MD, CCFP Sep 15, 2023



### Disclosure

• Faculty: Nathan Coleman

- Relationships with commercial interests:
  - Employee:
    - Northern Regional Health Authority- Family Physician, Palliative Care Prescriber
    - University of Manitoba
  - All of my income currently comes from serving and teaching in Northern Manitoba
  - Training as an associate LEAP Facilitator with Pallium Canada
  - No Grants, Honoraria or Consulting Fees from Commercial Sources



### Disclaimer

OFF Label treatments are common in Palliative Care due to unique dosing, routes of administration and challenges at end of life.

All OFF Label treatments in this presentation are common practice, supported by expert opinion and varying degrees of evidence.

Need to be aware that as evidence base grows treatments advice and options may be adapted accordingly.



# Mitigating Potential Bias

- My Bias: I strongly desire to see accessible timely palliative approach to care incorporated across our region to meet patient and families' needs in a good way across the continuum of care and illness trajectory.
- **Self-Positioning**: I am a settler Canadian, raised in Ethiopia, trained in Manitoba primarily in western biomedical approaches to medicine but heavily affected and influenced by lived experience/knowledge of individuals and communities whose knowledge was transmitted orally and practically since before my ancestors immigrated to what is now called Canada.



# Acknowledgements

- Dr Nadin Gilroy
- Patients and Families
- Teachers
- Pallium
- BC Centre for Palliative Care



### Learning Objectives

- Define a Palliative Approach to Care
- Identify when and how Palliative Approach to Care can help meet patient needs
- Describe Key Conversations to help facilitate palliative approach to care
- Describe Regional and Provincial Resources for meeting needs
- Describe Management Tips for common Symptoms
- Describe an approach to preparing for potential end of life at home



What is Palliative Care?

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### What is Palliative Approach to Care?

"An approach that improves the quality of life of patients and their families facing the problems associated with life threatening illness, through the prevention and relief of suffering by means of early identification and impeccable assessment and treatment of pain and other problems, physical, psychosocial and spiritual."

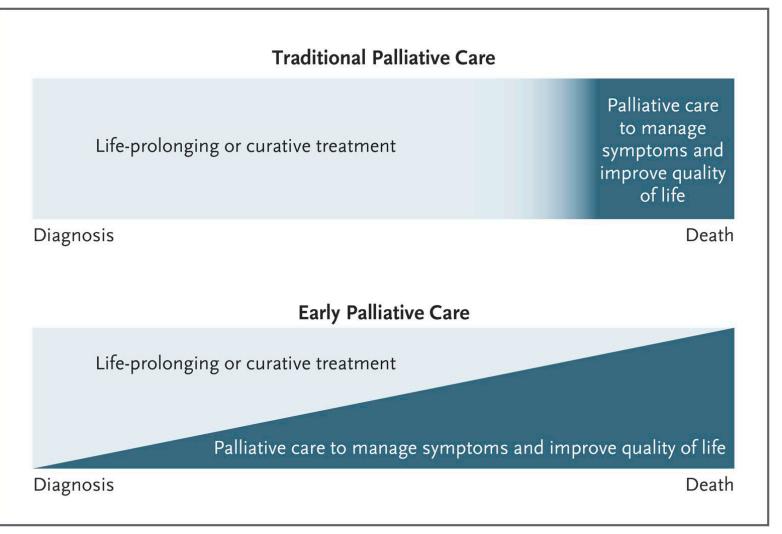
-WHO Definition

"It honors the connections and relationships that people have with family members, community members, and care providers, and views the family as the unit of care. Culture plays a key role since it incorporates the social practices and beliefs of any group of people."

-Johnston et al.

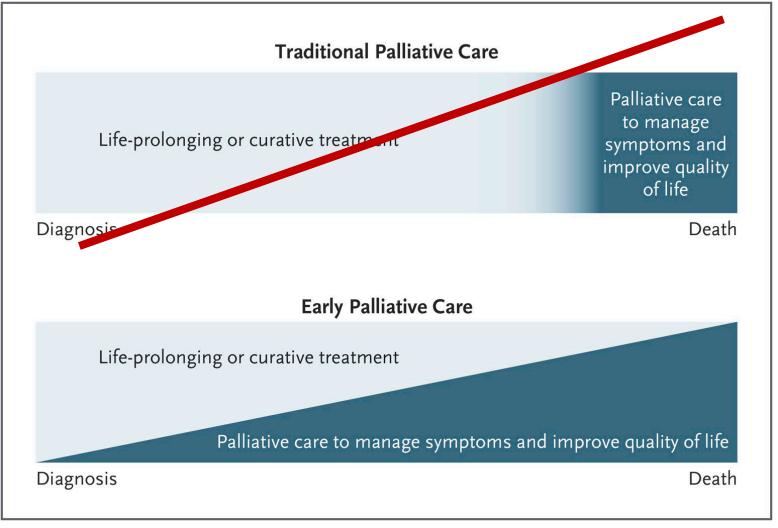


#### When?



Parikh et al

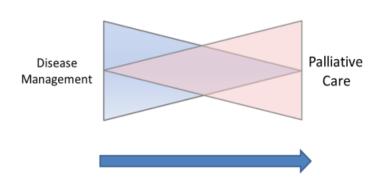
### When?



Parikh et al

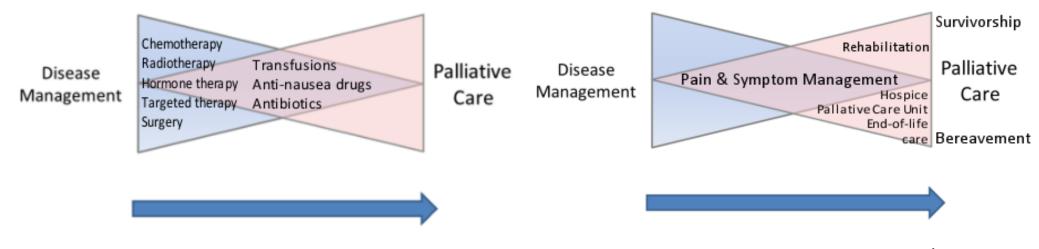
#### When?

Bow Tie Model of Care: Hoping for the best (Cure), preparing for the worse (Death) Basic Model of Integrated Palliative Care



#### Disease Management-Enhanced Model

#### ent-Enhanced Model Palliative Care-Enhanced Model



### Palliative care continuum

# Palliative Approach to Care

- All life limiting illness across illness trajectory
- Optimize Quality of Life
- Symptom Management
- Communicate with patient, family and community supports
- Advanced Care Planning

### Palliative Care

- Estimated Last year
- Active Management of Symptoms
- Supports to Live Well
- Caregiver Support

### End of Life Care

- Last weeks, days and hours
- Holistic Symptom Management
- Support for dying process
- Grief and Bereavement

Adapted from: BC Centre for Excellence



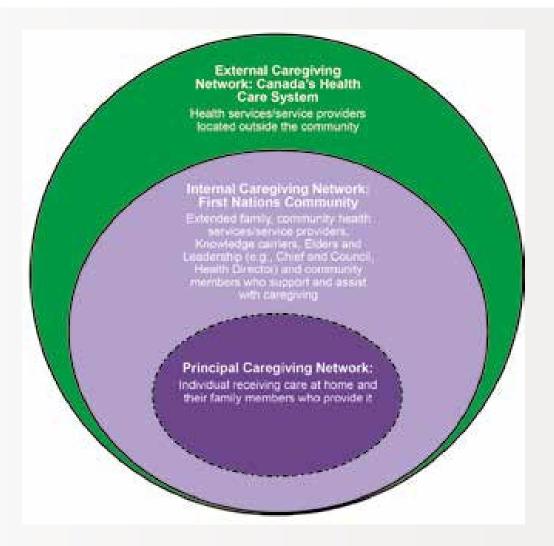
### Where?

All Settings: home, clinic, hospital, nursing station, specialized units, hospice, PCH, shelters...

Effective Palliative Care is delivered where the patient/family is and wishes to be.

"Dying outside the community negatively impacts families and community members." (Kelley ML, Smith J. et al)

 "In the hospital, you got to get out at a certain time, certain number of people, but when you're at home people can come and go in and out. People can sit there and sit with you for hours on end. That is one of the reasons people like being in their household." — Elder/Knowledge Carrier





### Who?

Surprise question:

"Would you be surprised if this patient died in the next 12 months?"



### Who? General Indicators of decline

Look for any general indicators of poor or deteriorating health (Two or more consider palliative needs)

- Unplanned hospital admission(s)
- 2. Performance status is poor of deteriorating, with limited reversibility. (I.e. The person stays in bed or a chair more than half the day)
- 3. Depends on others for care due to increasing physical and/or mental health problems. The person's care needs more help and support.
- 4. The person has significant weight loss over the past few months, or remains underweight.
- 5. Persistent symptoms despite optimal treatment of underlying condition(s).
- 6. The person (or family) asks for palliative care.



### Who? Disease specific indicators of decline

**Respiratory Disease**: Severe, chronic lung disease with breathlessness at rest or on minimal exertion between exacerbations, despite optimal medical management.

**Heart / Vascular Disease:** i. Heart failure or extensive, untreatable coronary artery disease; with breathlessness or chest pain at rest or on minimal exertion, despite optimal medical management. ii. Severe, inoperable peripheral vascular disease.

**Kidney Disease:** i. Stage 4 or 5 chronic kidney disease (eGFR<30ml/min) with deteriorating health. ii. Kidney failure complicating other life-limiting conditions or treatments. iii. Stopping or not starting dialysis.

**Liver Disease:** Cirrhosis with one or more of the following complications in the past six months: •Diuretic resistant ascites, Hepatic encephalopathy, Hepatorenal syndrome, Bacterial peritonitis, Recurrent variceal bleeds (Liver transplant is not possible)

**Dementia** 3 of: i. Unable to dress, walk or eat without help. ii. Eating and drinking less; difficulty with swallowing. iii. Urinary and fecal incontinence. iv. Not able to communicate by speaking; little social interaction. v. Frequent falls; fractured femur. vi. Recurrent febrile episodes or infections; aspiration pneumonia

**Cancer:** i. Functional ability deteriorating due to progressive cancer. ii. Too frail for or declines oncology treatment AND radiation treatments are for symptom control only.

**Neurological:** i. Progressive deterioration in physical and/or cognitive function despite optimal therapy. ii. Speech problems with increasing difficulty communicating and/or progressive difficulty swallowing. iii. Recurrent aspiration pneumonia; breathless or respiratory failure.

**Other Conditions:** i. Deteriorating and at risk of dying with other conditions or complications that are not reversible; any treatment available (or that is undesirable to the patient) would have a poor outcome.

- See SPICT TOOL- WRHA for details



### How?

- Identify
- Assess/Communicate
- Care Plan/Collaborate



## Identify

- Surprise Question
- Indicators of Decline
- Patient and Family Request
- Routine review of care (Hospital or LTC Admission/Discharge, periodic health exams, home care service access)

### Assess/Communicate

- Serious Illness Conversation Guide: <a href="https://bc-cpc.ca/wp-content/uploads/2018/08/SIC-Conversation-Guide-V3-April2017.pdf?pdf=SICConversationGuide%E2%80%8B">https://bc-cpc.ca/wp-content/uploads/2018/08/SIC-Conversation-Guide-V3-April2017.pdf?pdf=SICConversationGuide%E2%80%8B</a>
- Holistic Assessment- Physical, Emotional, Mental, Social, Spiritual
- Key Northern Conversations
  - When would transfer to another community, care facility or hospital be desired or undesirable?
  - How do you/your family/community prefer decisions to be made about care?
  - Where is your preferred place to be living? Where is your preferred place of passing?
  - Are you a caregiver?
  - When care options are limited, how best can we honour you/your family member?
- Recognise TRUST must be earned. Always advocate for the Best Care Possible.



#### **Serious Illness Conversation Guide**

#### PATIENT-TESTED LANGUAGE

"I would like to **talk together** about what's happening with your health and **what matters to you. Would this be ok?"** 

"To make sure I share information that's helpful to you, can you tell me **your understanding** of what's happening with your health now?"

"How much **information about what might be ahead** with your health would be helpful to discuss today?"

"Can I share my understanding of what may be ahead with your health?"

Uncertain: "It can be difficult to predict what will happen. I hope you will feel as well as possible for a long time, and we will work toward that goal. It's also possible that you could get sick quickly, and I think it is important that we prepare for that."

OR

Time: "I wish this was not the case. I am worried that time may be as short as (express a range, e.g. days to weeks, weeks to months, months to a year)."

OR

Function: "It can be difficult to predict what will happen. I hope you will feel as well as possible for a long time, and we will work toward that goal. It's also possible that it may get harder to do things because of your illness, and I think it is important that we prepare for that."

Pause: Allow silence. Validate and explore emotions.

"If your health was to get worse, what are your most important goals?"

"What are your biggest worries?"

"What gives you strength as you think about the future?"

"What activities bring joy and meaning to your life?"

"If your illness was to get worse, **how much would you be willing to go through** for the possibility of more time?"

"How much do the **people closest to you know** about your priorities and wishes for your care?"

"Having talked about all of this, what are your hopes for your health?

"i'm hearing you say that \_\_\_\_ is really important to you and that you are hoping for \_\_\_.

Keeping that in mind, and what we know about your illness, I recommend that we \_\_\_.

This will help us make sure that your care reflects what's important to you. How does this plan seem to you?"

"I will do everything I can to support you through this and to make sure you get the best care possible."





### Care Plan/Collaborate

- Identify Team Members/resources
- Anticipate goals and challenges
- Symptom Management
- Prepare for end of life care



# Identify Team Members and Resources

#### **Principal Network**

Individual Receiving Care Family Caregivers Substitute Decision Maker

#### **Local Network**

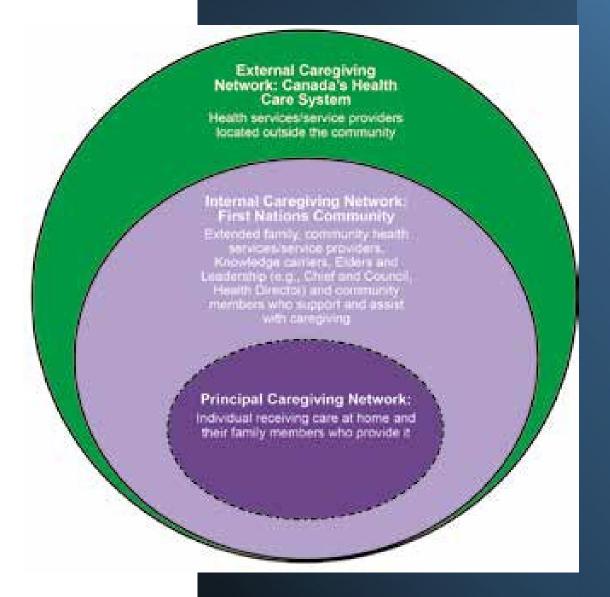
Home and Continuing Care
Primary Care Provider
Nursing Station/Health Centre/Clinic

#### **Regional Network**

Palliative Care Coordinator
Palliative Care Prescriber
Hospitals/Emergency Rooms

#### **Provincial Network**

Palliative Care MD On Call Palliative Care Units/Provincial Hospitals



### Anticipate Goals and Challenges

- Goals of Care
  - R- Resuscitation, M- Medical, C- Comfort (and Communication)
  - Transfer
- Loss of independence
  - Early identification of Substitute decision maker
  - Will and Estate planning
  - Financial Power of Attorney
- Drug coverage
  - Provincial Drug Access Program (Application Form at <a href="https://wrha.mb.ca/files/palliative-care-drug-access-form.pdf">https://wrha.mb.ca/files/palliative-care-drug-access-form.pdf</a>, PC Coordinator)
  - NIHB Palliative Drug Access requires Prior Approval (after rx is sent prior approval form will be faxed)- Consider Calling Pharmacy
- Disease progression
  - Titration of medications
  - Removal of unnecessary medications (Continue Disease modifying treatment if aligned with pt goals e.g. CHF meds)
  - Loss of Oral Route
- Systems- service gaps, transport times, provider availability, Medication Supply



### Symptom Management

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# Symptom Management

PAIN

**FATIGUE** 

**PRURITUS** 

SEVERE BLEEDING

CONSTIPATION

**NAUSEA & VOMITING** 

**DYSPHAGIA** 

ANOREXIA

**DEHYDRATION** 

RESPIRATORY CONGESTION

**DYSPNEA** 

COUGH

HICCOUGHS

TWITCHING/ MYOCLONUS/SEIZURES

DELIRIUM

OTHER SYMPTOMS

REFRACTORY
SYMPTOMS /
PALLIATIVE SEDATION

NURTURING PSYCHOSOCIAL AND SPIRITUAL WELL-BEING

### B.C. INTER-PROFESSIONAL PALLIATIVE SYMPTOM MANAGEMENT GUIDELINES



SYMPTOMS TO EXPLORE

PAIN

FATIGUE

**PRURITUS** 

SEVERE BLEEDING

CONSTIPATION

**NAUSEA & VOMITING** 

DYSPHAGIA

**ANOREXIA** 

DEHYDRATION

RESPIRATORY CONGESTION

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OTHER SYMPTOMS

REFRACTORY SYMPTOMS / PALLIATIVE SEDATION

NURTURING PSYCHOSOCIAL AND SPIRITUAL WELL-BEING



#### DOWNLOAD PRINTER FRIENDLY PDF VERSION



#### AUDIENCE

Inter-professional clinicians working with adults living with advanced life-limiting illnesses. Though these guidelines were created for adults, the symptoms may also be experienced by children. See additional resources within each guideline specific to pediatrics, illnesses such as cancer, and your organization/region.



CITATION, COPYRIGHT AND DISCLAIMER



BACKGROUND



CLINICIAN INTRODUCTION



ACKNOWLEDGEMENTS



FIRST NATIONS
PERSPECTIVE ON
HEALTH & WELLNESS

#### CONTRIBUTING PARTNERS





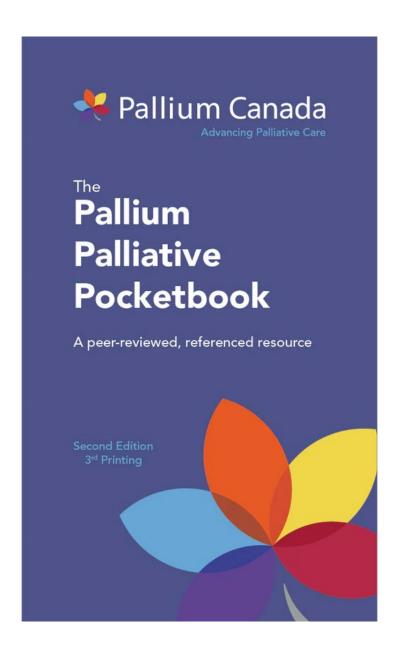














### Pain-Assessment

- Management begins with Pain Assessment- see references for details
- Rule out Emergency:

Spinal cord compression, bone fracture or impending fracture of weight-bearing bone, infection/abscess, obstructed or perforated viscus, ischemic process, superior vena cava obstruction.

- Determine etiology and possible causes
- Investigations should be based on goals of care- consider benefits and costs (to patient) when ordering tests
- Assess for substance use disorder/opioid misuse risk
  - NOT a contraindication to opioids but requires management plan (seek support/ consultation as needed)



#### PAIN **Nociceptive** Neuropathic Caused by direct stimulation of peripheral nociceptors in an intact nervous system Perpetuated by nerve damage or originates from a site of aberrant somatosensory processing in central pain pathways Usually associated with tissue damage and an inflammatory process Visceral **Peripheral** Somatic Central Nociceptors found in viscera, Occurs as a result of activation of nociceptors in Lesion in peripheral nerves or plexus. Lesion in brain or spinal cord. peritoneum, pleura cutaneous and deeper tissues Descriptors: burning, numb, tingling, pins & Descriptors: aching, squeezing, Examples: needles, shooting, electric or shock-like, fire-like cramping, gnawing, pressure, or "indescribable". Post-stroke, Multiple Sclerosis, distention, stretching, bloated spinal cord injury or Examples: Deep compression, phantom limb Diffuse, often poorly localized. Post herpetic neuralgia, diabetic or post-chemi pain, leptomeningeal Can be referred to distant sites. Superficial Nociceptors found in neuropathy, cervical, lumbar or brachial carcinomatosis muscle, bone, joints and Examples: plexopathy, trigeminal neuralgia Confined to nociceptors ligaments Pancreatitis, biliary colic, renal colic, in the skin Descriptors: aching, bowel obstruction, constipation, Descriptors: sharp, sore, throbbing pleural, liver and peritoneal burnina metastases, pulmonary More diffuse. thromboembolism, angina, bladder Usually well-localized. Examples: spasms, Examples: Bone metastases. Central or Peripheral Decubitus ulcers. muscle spasms, fungating wounds **Antidepressants** rheumatoid and **Anticonvulsants** osteoarthritis, Visceral NMDA Antagonists Antiarrhythmics **Antispasmodics** Dexamethasone Soft Tissue Bone Superficial NSAIDs (topical or **NSAIDs** systemic) Topical Morphine Dexamethasone Dexamethasone Topical Methadone **Bisphosphonates** Muscle Relaxants Topical Lidocaine Denosumab Adapted by: BC Centre for Palliative Care

Adapted by: BC Centre for Palliative Care from Dr Nicola Macpherson.

### Pain Management- Principles

- By Ladder
  - Mild-Acetaminophen/NSAIDS
  - **Moderate** Combine acetaminophen/NSAID +opioid/weak opioid, codeine is not preferred\*
  - Severe- Strong Opioid-Morphine, Hydromorphone, Oxycodone
- By Mouth- PO Preferred route if present
- By Clock (Avoid PRN only)
- Breakthrough (additional PRN available if needed)
- Can consider concurrent Adjuvants at all pain levels
- 72 hours reassessment/titration- consult if not managed
- Assess side affects- anticipate and address- Constipation, etc.



# Pain Management- Principles

### Sample Starting Doses

Opioid	Usual (PO)	Frail OR Advanced CV/Resp disease	
Codeine	15mg PO Q4h + 15mg Q 1H prn	7.5 mg PO Q4h + 7.5mg Q1h prn	NOT PREFERRED
Tramadol	37.5mg po TID +37.5mg po QID PRN	37.5mg PO BID + 37.5mg PO TID prn	
Morphine	5mg PO Q4h + 5mg Q 1H prn	1-2.5mg PO Q4h + 1-2.5mg Q 2H prn	
Hydromorphone	1mg PO Q4h + 1mg Q 1H prn	0.5mg PO Q4h + 0.5mg Q 2H prn	



### **Titration**

- 1. Calculate total daily dose (TDD) for the past 24 hours TDD = Regular + all BTD
- 2. Regular dose q4h for the next 24 hours = past **TDD** ÷ 6
- 3. Breakthrough dose (BTD) = **new regular dose** × **10%**

Increase the opioid BTD proportionately whenever the regular dose is increased.

Can also used fixed dose adjustment. of 30-50% if pain is not controlled

Source: BC Centre for Palliative Care



# Addressing Common Misconceptions

#### **Fear of Addiction**

- very rare, Withdrawal with abrupt discontinuation is normal, is prevented by gradual decreases

#### Fear of Side effects

-can be managed- constipation, drowsiness or nausea improve after 3-5d

#### Fear it won't be effective when pain becomes worse

- not accurate, early control is more effective, can be titrated effectively

#### Fear of Tolerance

-many people remain on same dose for a long time

#### Fear People Will Think You Are 'Giving Up'

-well controlled pain allows better quality of life and more active living

#### **Opioids hasten Death**

-Evidence shows improved quality and frequently quantity of life



### Addressing Side Effects/Issues

- Constipation
  - treat preventatively with opioid initiation (examples Senna 1 Tab PO at HS, Peg 17-34g PO daily in 250-500ml) continue to titrate to effect
  - Established constipation may require Enema, suppositories or disimpaction (may need sedation).
  - Methylnaltrexone Subcut- rarely needed and only used for opioid induced constipation with no obstruction
- somnolence/sedation (consider switching or add psycho-stimulant)
- respiratory depression (RARE with careful titration)
- Opioid Induced Neurotoxicity (OIN)
  - Recognise: cognitive dysfunction, delirium, Hallucinations, Myoclonus/seizures, Hyperalgesia/allodynia
  - Management: hydration, Lower dose, Switching opioid (rotation), Consultation
- Loss of Oral Route
  - Anticipate at end of life
  - Consider subcut or IV formulation, reduce to 50% due equivalent potency or parenteral administration
  - Continue scheduled and ensure BT available, alternate routes include intranasal and Sublingual for some preparations



# Opioids Equianalgesic

#### Appendix A: Equianalgesic Conversion for Morphine

Morphine Equivalence Table (for chronic dosing)									
DRUG	SC/IV (mg)	PO (mg)	COMMENTS						
morphine	10	30 <sup>A</sup>							
codeine	120 (SC only)	200	metabolized to morphine						
fentanyl patch	see table below – useful when PO / PR routes not an option								
fentanyl	0.1 (100 mcg)	NA	usually dosed prn less than 1 hour effect						
hydromorphone	2	4							
oxycodone	not available in Canada								
sufentanil	0.01 – 0.04 (10 – 40 mcg)	NA	usually dosed prn less than 1 hour effect						

<sup>\*</sup> Health Canada recommends using a conversion of 10 mg SC/IV morphine = 30 mg PO (1:3) Refer to http://www.healthycanadians.gc.ca/recall-alert-rappel-avis/hc-sc/2010/14603a-eng.php

Source: BC Guidelines.ca



Fentanyl Transdermal Patch Equianalgesic Conversion <sup>A, B, C, D</sup>			Approximate Breakthrough Doses Recommended for Fentanyl Transdermal Patch <sup>A</sup> Breakthrough should be 10% of the total daily opioid dose				
Morphine PO (mg/day)	Hydromorphone PO (mg/day)	Oxycodone PO (mg/day)	Fentanyl Patch (mcg/hr)	Patch Strength mcg/hour	Oral Morphine Immediate Release (mg)	Oral Hydromorphone Immediate Release (mg)	Oral Oxycodone Immediate Release (mg)
45 – 59	6 – 11	30 – 44	12 <sup>E</sup>	12	5	1	2.5
60 – 134	12 – 26	45 – 89	25	25	10	2	5
135 – 179	27 – 35	90 – 119	37	37	15	3	10
180 – 224	36 – 44	120 – 149	50	50	20	4	12.5
225 – 269	45 – 53	150 – 179	62	62	25	5	15
270 – 314	54 – 62	180 – 209	75	75	25	5	17.5
315 – 359	63 – 71	210 – 239	87	87	30	6	20
360 – 404	72 – 80	240 – 269	100	100	35	7	25
405 – 449	81 – 89	270 – 299	112	112	40	8	27.5
450 – 494	90 – 98	300 – 329	125	125	45	9	30
495 – 539	99 – 107	330 – 359	137	137	50	10	32.5
540 – 584	108 – 116	360 – 389	150	150	55	11	35
585 – 629	117 – 125	390 – 419	162	162	60	12	40
630 - 674	126 – 134	420 – 449	175	175	65	13	42.5
675 – 719	135 – 143	450 – 479	187	187	70	14	45
720 – 764	144 – 152	480 – 509	200	200	70	14	47.5
765 – 809	153 – 161	510 – 539	212	212	75	15	50
810 – 854	162 – 170	540 – 569	225	225	80	16	55
855 – 899	171 – 179	570 – 599	237	237	85	17	57.5
900 – 944	180 – 188	600 – 629	250	250	90	18	60
945 – 989	189 – 197	630 – 659	262	262	95	19	62.5
990 – 1034	198 – 206	660 – 689	275	275	100	20	65
1035 – 1079	207 – 215	690 – 719	287	287	105	21	70
1080 – 1124	216 – 224	720 – 749	300	300	110	22	72.5

A Adapted from Fraser health Hospice Palliative Care Program Principles of Opioid Management, Appendix A – Fentanyl Transdermal. September 10, 2015 [cited April 6, 2016]. Available from: http://www.fraserhealth.ca/media/HPC\_SymptomGuidelines\_Opioid.pdf



<sup>&</sup>lt;sup>8</sup> Initiation of fentanyl in patients who are opioid-naïve is contraindicated at any dose.

C The conversion table is unidirectional only and should ONLY be used to convert adult patients from their current oral or parenteral opioid analgesic to the approximate fentanyl transdermal patch for use in chronic pain.

Do not convert patients previously on codeine or tramadol to fentanyl transdermal patch due to significant inter-patient variability in metabolism, safety, and effectiveness of these drugs.

E Health Canada recommends that 12 mcg/hr patches be used for dose titration or adjustments, not as the initiating dose.

#### Comments on Fentanyl Patches

- Contraindications:
  - opioid naive (Or from Codieine/Tramadol)
  - Inadequate adipose tissue- severe cachexia (relative due to variable absorption)
- Not effective approx. 12 hours (do not stop scheduled IR immediately, or utilize BT doses while initiating, also remains present for 12 hours after removal
- Change q 72 hrs (earliest can adjust dose is every 3 days)
- If at 200mcg/hr but inadequate symptom control consider alternate agents (consult with Palliative MD)



#### MEDICATIONS FOR MANAGEMENT OF PAIN BASED ON TYPE OF PAIN

Drug, Action	Dose, Therapeutic	Onset, Adverse Effects, Precautions and Dosing Concerns <sup>73-75</sup>				
•	Range <sup>73</sup>	and a solid police in a				
1. Pain	1. Pain					
Acetaminophen	500 mg to 1g PO, PR q6h to q4h 650 to 1300 mg SR PO q8h	Caution in renal impairment and severe hepatic impairment, particularly when associated with alcohol dependence and malnutrition. Maximum 4 g per day or 3 g in the elderly. <sup>76, 77</sup>				
NSAIDs		Avoid in frail elderly, cardiac, renal and hepatic dysfunction, or active peptic ulcers.				
Diclofenac	50 mg PO, PR q12h or q8h 75 SR PO q12h	Maximum dose 100 mg per day. Contraindicated in those with cardiovascular impairment. 21				
	or 100 mg daily 50 to100 mg PR q8h					
Ibuprofen	400 to 800 mg PO q8h	Maximum 2400 mg per day				
COX-2 Inhibitors		Contraindicated if established ischaemic heart disease, peripheral arterial disease or cerebrovascular disease.				
Celecoxib	200 to 400 mg PO daily or q12h	Maximum 400 mg per day				
Meloxicam	7.5 to 15 mg PO daily	Maximum 15 mg per day				
Corticosteroids		Start at a high dose then reduce to a maintenance				
Dexamethasone	High Dose: 8 mg PO, SC once daily or twice daily	level. Stop if no response within 7 to 10 days.  Taper steroid dose gradually if used for more than  3 weeks or if stopping doses greater than 4 mg per day.				
	Low Dose: 2 to 6 mg PO, SC daily	Hyperglycemia, anxiety, steroid psychosis, myopathy.  Long-term adverse effects are significant; therefore, avoid prolonged use.  Avoid concomitant use with NSAIDs.				
2. Superficial Somati	c Pain					
Topical NSAIDs						
Diclofenac Sodium	Apply 1.5% cream topically	Do not apply on an open wound, or on areas of infection or rash.  Apply to affected area up to 4 times per day.				
Diclofenac Gel	Apply 1.16 to 5% cream topically					
Ketoprofen	Apply 5 to 20% cream topically					

Topical Opioids	Apply topical morphine 0.1% (1 mg per mL) in hydrogel once to twice daily	The amount of gel applied varies according to the size and the site of the inflammation or ulcer. The topical morphine is kept in place with gauze or a non-absorbable dressing.		
3. Deep Somatic Bor	ne Pain			
Bisphosphonates - bone modifying				
agent	,,			
Clodronate	900 mg IV every 4 weeks 1600 to 2400 mg PO daily	Adverse effects include: osteonecrosis of the jaw, renal impairment, or hypocalcemia. Transient mild flu-like symptoms for 1 to 2 days may occur after administration. Monitor renal function and calcium with each treatment. Dental review is necessary		
Pamidronate	60 to 90 mg IV every 3 to 4 weeks	before initiation.  Use with extreme caution in renal impairment, dose adjustment required.		
Zolendronic Acid	4 mg IV every 4 weeks			
Monoclonal Antibody - bone modifying agent		Monitor calcium levels prior to administration.  Dental review is necessary before initiation. No dose		
Denosumab	120 mg SC every 4 weeks	adjustment required for renal impairment.		
4. Deep Somatic Sof	t Tissue Pain			
Skeletal Muscle Rela	xant			
Diazepam	2 to 10 mg PO at night	Useful for painful muscle spasm. Adverse effects include drowsiness and ataxia. Caution in elderly patients.		
Baclofen	5 mg PO q12h or q8h	Start at 5 mg daily and increase to 15 mg daily in divided doses. Maximum recommended dose 100 mg daily. Monitor liver function tests periodically. Abrupt cessation associated with seizures. Adverse effects include drowsiness.		
Tizanidine	2 to 8 mg PO q8h or q6h	Start at 2 mg daily and increase by 2 mg every 3 to 4 days according to response. Maximum recommended total daily dose 36 mg.		
5. Visceral Pain				
Anticholinergics				
Hyoscine butylbromide	20 mg SC q6h 60 to 120 mg CSCI daily	Monitor for peripheral antimuscarinic effects which may include: blurred vision, dry mouth, constipation and urinary retention. Does not cross the blood brain barrier; therefore, does not cause sedation. Maximum recommended total daily dose 300 mg.		
6. Neuropathic Pain				
Antidepressants		First line for neuropathic pain		
TCAs		Starting dose 10 to 25 mg at bedtime. Titrate slowly		
Amitriptyline	75 to 150 mg PO at bedtime	every 3 to 7 days by 10 to 25 mg as tolerated. Target therapeutic dose range 75 to 150 mg daily. Monitor for anticholinergic effects: drowsiness, constipation, dry mouth, urinary retention.		
Nortriptyline	75 to 150 mg PO at bedtime	Avoid if poor cardiac function, severe prostatic hypertrophy, or glaucoma.  Positive effects on mood and sleep may be desirable.		

SNRIs				
Duloxetine	60 to 120 mg PO daily	Safer and better tolerated than TCAs, but limited evidence of analgesic efficacy.		
Venlafaxine	75 to 225 mg PO daily	Initiate venlafaxine at 37.5 mg daily for one week.		
Anticonvulsants		First line for neuropathic pain		
Gabapentin	300 to 800 mg PO every q8h to q6h	Starting dose 100 to 300 mg at bedtime. Titrate slowly every 1 to 7 days by 100 to 300 mg as tolerated. Target therapeutic dose ranges from 900 to 3600 mg daily in 3 to 4 divided doses.		
		An adequate trial should include 1 to 2 weeks at the maximum-tolerated dose. Monitor for somnolence, dizziness, and ataxia. Slower titration for the elderly or medically frail.		
		Dose adjustment required for those with renal insufficiency.		
Pregabalin	150 to 300 mg PO q12h	Starting dose 75 mg twice daily. Titrate slowly every 3 to 7 days. Target therapeutic dose ranges from 50 to 150 mg daily in divided doses. Monitor for somnolence, dizziness, and ataxia. Slower titration for the elderly or medically frail.		
		Dose adjustment required for those with renal impairment.		
Analgesic Adjuvants for Consideration AFTER Specialist Consultation				
NMDA Blockers		Second line for neuropathic pain		
Ketamine	10 to 50 mg PO q8h to q6h	Starting dose 10 to 25 mg q8h. Titrate in steps of 10 to 25 mg up to a maximum dose of 200 mg q6h.		
	100 to 500 mg CSCI daily	Start with 100 mg over 24 hours. Increase after 24 hours to 300 mg over 24 hours and further increase to 500 mg over 24 hours if ineffective. Stop 3 days after last dose increment.		
		Monitor for psychomimetic effects.		
		Treat dysphoria with haloperidol, diazepam or midazolam.		
Local Anesthetic		Second line for neuropathic pain		
Lidocaine	5 to 12.5 mg per kg over 120 minutes IV or SC every 2 weeks OR	Use with caution in patients with cardiac failure.  Dose adjustment required in hepatic or renal impairment.		
	by continuous infusion	•		

† Off-label. PO = by mouth IV = Intravenous, SC = Subcutaneous, TID = three times daily, QID = four times daily ODT = oral dissolving tablet CSCI = continuous subcutaneous infusion.

Prices for prescription drugs may be obtained from BC PharmaCare. The British Columbia Palliative Care Benefits Plan <a href="https://www2.gov.bc.ca/assets/gov/health/health-drug-coverage/pharmacare/palliative-formulary.pd">https://www2.gov.bc.ca/assets/gov/health/health-drug-coverage/pharmacare/palliative-formulary.pd</a> province wide drug coverage for many of the recommended medications—check website to confirm coverage. Consider price when choosing similarly beneficial medications, especially when the patient / family is covering the cost.

- Identify and Treat Underlying Cause
- Control Symptoms
- Educate Patient, Family and Caregivers

- Identify and Treat Underlying Cause
  - CHF- optimize meds and Diuretics
  - Liver failure- diuretics, ascites management
  - **Effusion** Therapeutic Thoracocenteses, tunneled pleural catheter (PleurX) or pleurodesis
  - COPD- optimize inhalers
  - Pneumonia antibiotics
  - Anxiety- control symptoms/optimize treatment
  - Airway obstruction- steroids, stenting, radiation
  - Severe Anemia- Transfusion
  - Muscular weakness (ALS/Kennedy's)- Non-invasive ventilation
  - Carcinomatosis- Steroids



- Control Symptoms
  - Opioids are safe and effective, reduce sensation of Shortness of Breath
    - Administered and titrated as for pain- see above
  - Oxygen- generally only for hypoxemic patients, some others benefit but not routinely recommended- access early in remote areas (arrange with home care/palliative care nurse coordinator)
  - Benzodiazepines- Limit to panic and anxiety disorder, Consider Midazolam in dyspnea crisis
  - Adjuvants- Methotrimeprazine (2.5-12.5mg BID-TID po/subcut if severe),
     Steroids (COPD, lung Carcinomatosis), Bronchodilators (if wheezing)



- Educate Patient, Family and Caregivers
  - Differentiate breathing patterns from sensation of discomfort
  - Differentiate hypoxia and dyspnea which may be independent
  - Discuss treatment plan and counsel regarding normal breathing patterns at end of life



## Symptom Management- Delirium

- Identify and Treat Underlying Cause
- Control Symptoms
- Educate Patient, Family and Caregivers

### Delirium-Identify and Treat Underlying Cause

- Investigations should be based on goals of patient, disease and expected trajectory
- Common Causes: (30-50% are reversable) In Last days (10-15%)
  - Infection, metabolic disturbance, hypoxia, organ failure, medications
  - Withdrawal from alcohol, illicit drugs, benzodiazepines
  - Pain, constipation, dehydration, retention, urinary catheters, sleep deprivation
  - New/unfamiliar environments, psychosocial, psychiatric
- Most reversable: Drugs effects (OIN), Electrolytes disturbance, Physical discomfort



#### Delirium- Control Symptoms

Non pharmacologic measures for all (Preferred and more effective for Mild to Moderate delirium)

- Frequent reorientation, mentally engaging activities, mobilization, hearing aids and eyeglasses; adequate oral hydration, sleep hygiene, Promote One-to-One observation
- Avoid overstimulation, indwelling catheters, IV lines, immobility

#### Pharmacologic

- Review Med profile (taper steroids/benzodiazepines), consider opioid rotation
- When Moderate to Severe AND causing distress, unmanageable or risk of harm to pt/family:

Haloperidol Start dose of 0.5-2mg mg (0.25 mg for elderly) SC, IV or PO Q1H until calm, then Q4-6H for severe delirium (can use PRN only) Methotrimeprazine (more sedating) 12.5 to 25 mg SC, IV or PO Q1-2H until calmin, then Q6-8H.

Midazolam 2.5-5mg Subcut or IV for severe agitation (Consider consult with Palliative MD for severe Delirium)



## Delirium- Educate Patient, Family and Caregivers

- Normalize delirium and behaviours associated with it
- Provide guidance of how to interact with patient
- Teach non pharmacologic preventative measures
- Advise of signs to be aware and have plan of action/point of contact if distress or safety concerns



#### Nausea and Vomiting

- Unknown or Multifactorial
  - 1- Metoclopramide 2- Haldol 3- Methotrimeprazine
- Chemical (Drugs, toxins, Chemo, infections)
  - 1- Haldol 2- Methotrimeprazine 3- Ondansetron
- Cortical (Anxiety, Pain, Emotions)
  - 1- Lorazepam 2- Methotrimeprazine 3- Cannabinoids
- Cranial (raised ICP, Meningeal, Brain radiation)
  - 1- Dimenhydrinate +Steroids (if ICP) 2- Haldol 3- Methotrimeprazine
- Vestibular (motion, drugs, Some CNS lesions)
  - 1- Dimenhydrinate 2- Scopolamine transdermal 3- Methotrimeprazine
- Visceral or serosal (bowel obs, constipation, mesenteric mets, liver capsule, ureteric obstruction)
  - 1- Haldol 2- Methotrimeprazine 3- Ondansetron
- Gastric Stasis (opioids, ascites, hepatomegaly, autonomic dysfunction)
  - 1- Metoclopramide 2- Domperidone



### Nausea and Vomiting-Dosing

- Metoclopramide 10 mg PO TID or QID before meals
- Haldol 0.5 to 1.5 mg PO/SC Q8H
- Methotrimeprazine- 3.125 to 6.25 mg PO/SC Q8H
- Ondansetron- 4 to 8 mg PO/SC/IV Q8H
- Dimenhydrinate 50 mg PO/SC/PR Q4H to Q8H
- Steroids (if raised ICP) -Dexamethasone 8 mg daily to 8 mg bid PO/SC
- Domperidone- 10 mg PO TID
- Cannabinoids- Nabilone 0.25 to 2 mg PO BID or Medical Cannabis
- Scopolamine Transdermal- 1 to 2 patches applied to skin every 72 hours (Currently unavailable in Canada)



# What challenges do you anticipate for a patient/family preparing for life at home?

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#### Preparing for Potential End of Life at Home

#### Communication

- Explore patient and family wishes and preferred place of death
- Note that time/place of death is not always anticipated (pt desiring hospital care at end of life may pass at home prior) having documentation and preparations for this possibility is usually appropriate.
- Involve care team- Palliative Care Nurse Coordinator can guide, facilitate
- Address expectations for care at home and coordinate with available resources



#### Preparing for Potential End of Life at Home

- Documentation
  - Letter of Anticipated Death at Home (note ICD/Spinal chord stimulator if Present) – Copies to chart/EMR, Medical Examiner, patient Home, Patient chosen funeral home, (Palliaitve Care Coordinator can Assist)
    - In Manitoba Pronouncement of Death is not needed but Medical Certificate of Death will need to completed within 48 hrs (See college resource)
    - If not present Police/RCMP would need to be contacted at time of death.
    - Medical examiner still needs to be contacted if unexpected/reportable death/child
  - Advanced Care Plan- M or C AND/OR Health Care Directive indicating DNR
    - (needs to be present if EMS are called, LAD alone is insufficient)



#### Preparing for Potential End of Life at Home

- Care Plan
  - Symptom management- Anticipate symptoms
    - Pain and Dyspnea- see above, not always present but very often and should be planned for
      - Consider pain/dyspnea crisis plan if appropriate (often double BT dose repeated if necessary for relief, utilization of rapid agent such as fentanyl/sufentanil)
    - Delirium- agitated delirium is one of the most common reasons for acute care transfer
      - Anticipate and consider having Haldol/Methotrimeprazine available
    - Airway Secretions- educate, if severe/distressing glycopyrrolate 0.4mg subcut q 2 hr prn, Scopolamine 0.4mg subcut q 4 hr prn, Atropine 1% drops 1-4 Drops Subling q 2-4 hr prn
    - Bowel Regime, Nausea and Emesis
  - Prepare for possible emergencies according to disease (Severe bleeding, airway obstruction, bowel obstruction, Seizures) care plan based on patient and family goals and resources
  - Patient and Family should know how to access Medical care after hours if needed
  - Family should contact Funeral Home when patient passes NOT EMS.



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#### Resources

- Serious Illness Conversation Guide: <a href="https://bc-cpc.ca/wp-content/uploads/2018/08/SIC-Conversation-Guide-V3-April2017.pdf?pdf=SICConversationGuide%E2%80%8B">https://bc-cpc.ca/wp-content/uploads/2018/08/SIC-Conversation-Guide-V3-April2017.pdf?pdf=SICConversationGuide%E2%80%8B</a>
- BC Centre For Palliative Care: <a href="https://www.bc-cpc.ca/b-c-inter-professional-palliative-symptom-management-guidelines/">https://www.bc-cpc.ca/b-c-inter-professional-palliative-symptom-management-guidelines/</a>
- Pallium App/Pocketbook: <a href="https://www.pallium.ca/mobile-app-pocketbook/">https://www.pallium.ca/mobile-app-pocketbook/</a>
- https://www.virtualhospice.ca/
- https://wrha.mb.ca/files/palliative-care-spict-tool.pdf
- SPA-LTC <a href="https://spaltc.ca/">https://spaltc.ca/</a> (Toolkit and Free e-modules available)
- College Expected Death at Home Resource: <u>https://cpsm.mb.ca/assets/Standards%20of%20Practice/Information%20and</u> <u>%20Resources%20-%20Expected%20Death%20at%20Home.pdf</u>



# Summarizing Palliative Approach to Care- my lessons from patients/families

**HONESTY-** Give patients and families accurate information to make informed decisions

**RESPECT-** Recognize individuals/families know best what is important for them

**COURAGE-** Take ownership and walk through tough times together- be present whenever able

WISDOM- Seek wise people when decisions are hard or unclear

**HUMILITY-** Recognize when you have something to offer and when you don't

**TRUTH-** Be genuine all the time

LOVE- To care well you need to care first

