

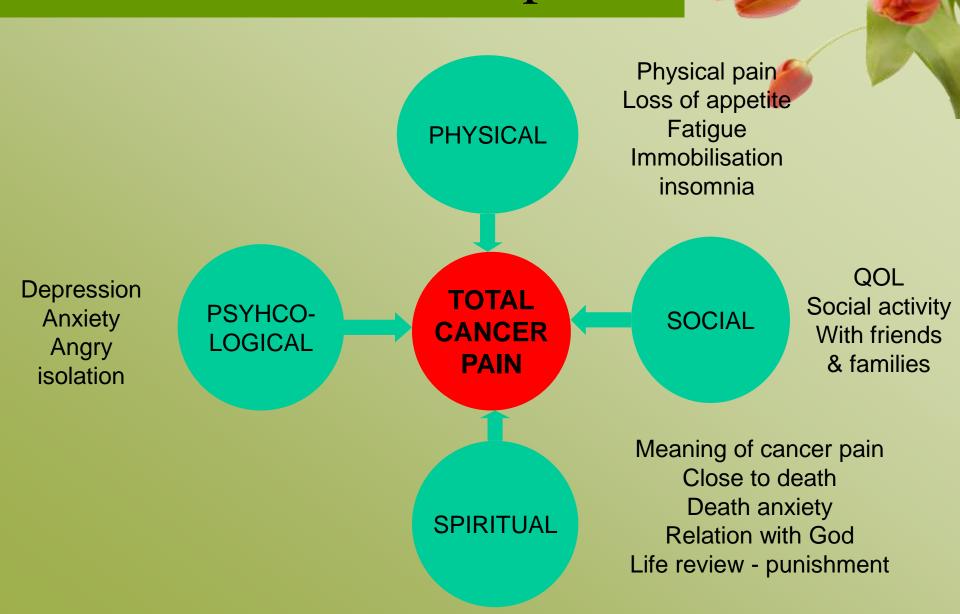
More than Pain Palliative Care as a whole I

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Content

- Total cancer pain concept in assessment & management
 - Case illustration
- Highlight important point on use of strong opioid in cancer pain
- Use of palliative sedation in EOL care

Total Pain Concept



Total Pain Concept



Somatic therapies

PHYSICAL

Multidisciplinary approach

Depression
Anxiety
Angry
isolation

PSYHCO-LOGICAL TOTAL CANCER PAIN

SOCIAL

QOL
Social activity
With friends
& families

Multidisciplinary approach

SPIRITUAL

Multidisciplinary approach

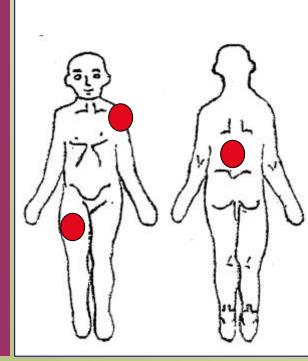


Pain Assessment

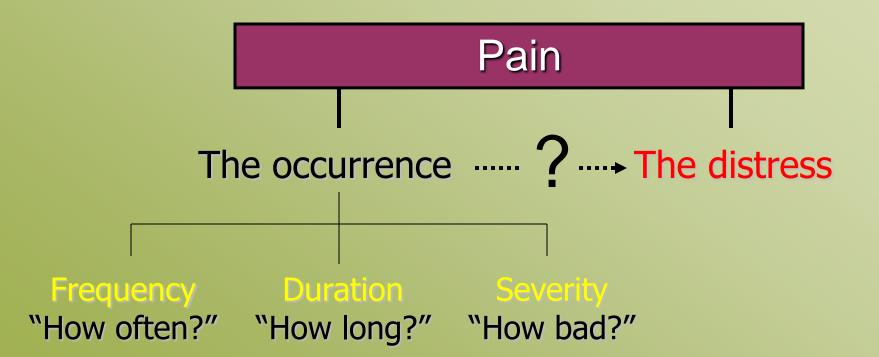
Assessment of Cancer PAIN



Site – multiple locations
Duration & frequency
Temporal pattern – episodic/ continuous intensity
Precipitating factor & relieving factors
Nature of pain
&









Pain

The occurrence ----- ? ----> The distress

Patient's own perception and interpretation as affected by physiological, psychological, Social, Spiritual factors

Case 1: A Man with liver cancer

- M/70
- Known history of incurable HCC
- Slip and fall at home while in the toilet
- With minor head injury
 with bruises and laceration
 over eye brows
- Seen A&E and suture done



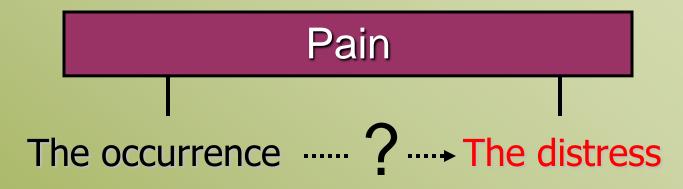
Case 1: A Man with liver cancer

Do you feel any pain over the head after the injury?

He said "It's very minor, as it is only superficial, it can be cured"

The most distress is not the head but the abdomen, as it grow bigger and bigger, it cannot be cure."





Patient's own perception and interpretation

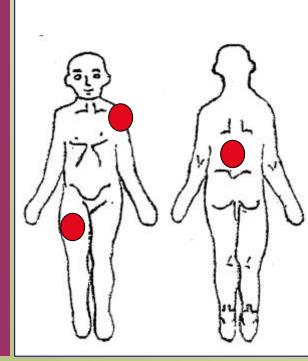
Pain due to minor head injury can be cure
Pain due to Cancer cannot be cure and it will be more severe
Increase pain over cancer area, means times run short

Assessment of Cancer PAIN



Site – multiple locations
Duration & frequency
Temporal pattern – episodic/ continuous intensity
Precipitating factor & relieving factors
Nature of pain
&

DISTRESS/IMPACT



Total Cancer Pain concept in Pain Assessment

Take Home message

- Pain (all symptoms) is an unique experience of the patients
- Even pain intensity, pain frequency, pain durations are same, the distress are different between different patients
- Because distress will affected by that particular patient own perceptions and interpretation.
- Good cancer pain assessment is not only assess physical part but associate psychological, social and spiritual impact



Cancer Pain Management

Total Pain Concept



Somatic therapies

PHYSICAL

Multidisciplinary approach

Depression
Anxiety
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PSYHCO-LOGICAL TOTAL CANCER PAIN

SOCIAL

QOL
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SPIRITUAL

Multidisciplinary approach

Palliative Care Team

Doctor





Nurse

Physiotherapist Occupational therapist

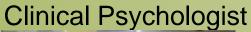






Pastoral care worker







Volunteer





Case 2 - A lady with bone pain

- F/76
- CA lung with mediastinal LN and bone metastasis (right humeral head)
- Reviewed by oncologist, decided not for chemotherapy or target therapy
- Suggest Palliative Radiotherapy to humeral head but refused by patients as pain control satisfactory with analgesic (NSAID and panadol)
- Regular follow up in our PC unit and home care visit

Family tree Live with husband In public housing flat Born in Macau, no education, nonsmoker Smoker, blind moved to HK after marriage >50 years Bad tempor, poor hygiene Previously work as school bus assistance Always had conflict with wife Despite cancer, ADL independent Responsible care husband Blame husband smoking → get Cancer of lung herself In USA Key carer Work as clerk Day time stay with patients Stay with patient at night House wife

All married with children and live apart

Home care nurse visit

Patient sitting in the dinning room with commode chair next to her



Accompany by 3rd daughter

Husband – not in the home

Patient frowning, crying complained of severe left hip pain

In order to avoid transferral, prefer sitting day and nights in the dinning room

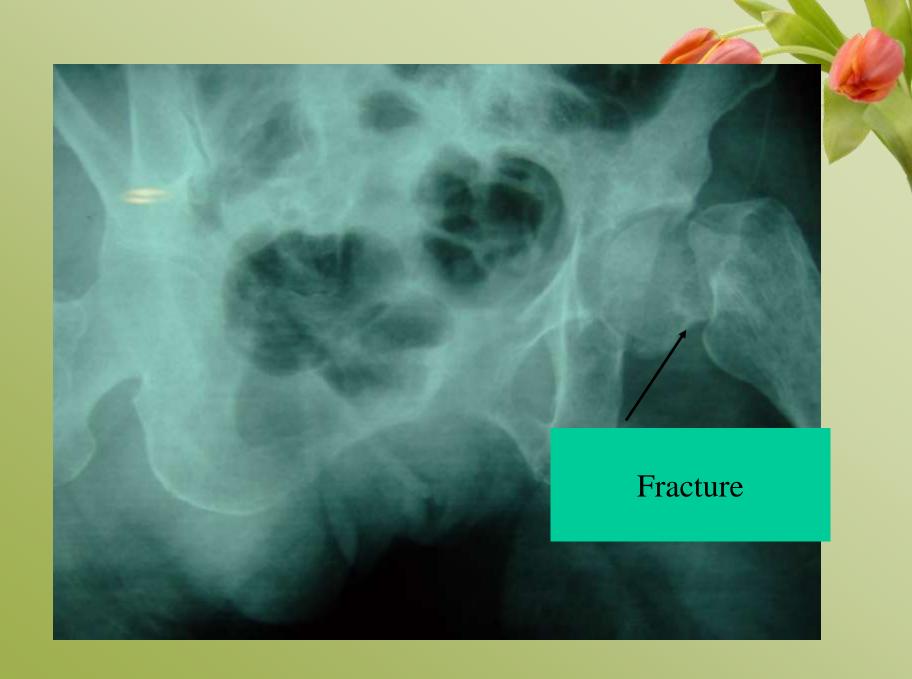






- Physical severe left hip pain
- Psychological "felt worthlessness", felt herself as a burden to children", express want to suicide by jump from height
- Social isolated, can only sit in the dinning room
- Spiritual life is meaningless, punishment from god....





Sudden death of husband just before patient have severe hip pain

- "...I never thought that my husband will die earlier than me.... I still quarrel with him on that morning of making all the area dirty.."
- ".. Not until my daughter come home and bring him to hospital .. But on the same night.. She told me, he was dead... because of...perforation of bowel.."
- "...he told me he had some abdominal pain...I still quarrel with him...
 Why I cannot notice earlier... if he can admit to hospital earlier, he may still survive...."
- "...afterwards I got severe hip pain.. Is it a punishment?.. I must have doing something very wrong..?
- "I have nothing left behind... husband no longer need me to take care?



 Refuse treatment – refuse radiotherapy, refuse operation

 Want to die, want to suicide, felt guilty to husband death, felt great burden to family

Total Pain Concept



Felt worthlessness
Felt burden to family
Want to suicide
(jump from height)
? depression

PSYHCO-LOGICAL **PHYSICAL**

Severe left hip pain Immobilisation
Bedsore
Insomnia
Difficult bowel opening

TOTAL CANCER PAIN

SOCIAL

Isolated
Chairbound
Only sitting
Day and night
In dinning room

SPIRITUAL

Punishment from God
Should be responsible for
Husband death
Life is meaningless
(husband no longer need
her care, children grown up)

Total Pain Concept

CANCER

PAIN

SPIRITUAL

MSW, Nurse, Clinical Psychologist

Psychological support Encourage children & Grandchildren visit Openly acknowledge patient past achievement

> PSYHCO-**LOGICAL**

Clinical Psychologist

Psychiatrist assessment

Dx: Major depression Start antidepressant

Analgesic Morphine 5mg q4h + laxatives Foley to BSB **PHYSICAL** Exclude hyperCa Refer Orthopedic for fixation Refer Palliative RT MSW & Home care nurse **TOTAL**

Pastoral care worker

SOCIAL

Home visit patient

Encourage admission

Life review Face death of husband Acknowledge past care of husband Reading bible - "forgiveness"



Managing PAIN in advanced cancer

General Approach to Cancer Pain management Important point on use of strong opioids

Symptom management approach

Specific treatment

PAIN

General management

Cancer – RT / CT / Surgery

Bone secondaries/ malignant bowel obstruction

Other underlying causes

Post herpetic neuralgia/ Osteoarthritis/ gouty arthritis

Pharmacological

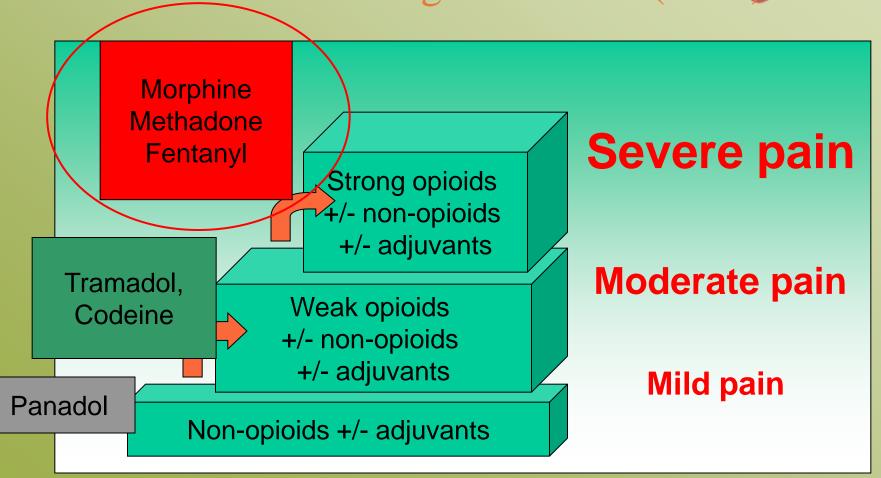
Opioids & non-opioids
Co-analgesics
Anaesthetic procedures
e.g. nerve blocks, epidural catheter

Non-pharmacological

TENS, relaxation, massage

Right drug for different intensity of pain

WHO Analgesic Ladder (1986)



Effect of all strong opioid

Beneficial effect	Adverse effect
Analgesic	Constipation (occurred almost in all patients, won't developed tolerance)
Antitussive	Dizziness (usually will subsided after 1 week)
Relief of dyspnoea	Nausea, vomiting (occurred in ½ patients put usually will subsided after 1 week)
Anti-diarrhoea	Hallucination (auditory or visual e.g insect crawling)
	sedation
	sweating
	pruritis
	Dry mouth
	Myoclonus
	Urinary retention
	Respiratory depression

WHO Ladder 3 Strong opioid preparation available in Hong Kong Methadone **Fentanyl** Morphine injection injection transdermal injection oral oral iv, imi, sc, Syrup MST morphine epidural, intrathecal

Morphine	Methadone	Fentanyl
1st line treatment in moderate to severe cancer pain		Selective mu 1 R agonist
	Act on opioid receptor & NMDA receptor	Cause less S/E esp constipation, confusion
No special advantage of iv over oral morphine	May have additional Benefit on neuropathic pain	converting from morphine to fentanyl
Potency ratio	Starting dose:	can cause
Oral: sc 1:2 Oral to iv: 1:3	Methadone 2.5mg bd/tid	withdrawal symptoms
Starting dose: morphine 2.5mg q4h po Slowly titrate up	NEED VERY SLOW TITRATION due to variable pharmacokinetics	Fentanyl Patch is ONLY used in opioid tolerant patient with analgesic dosage stabilised
AVOID morphine in ESRF Morphine active metabolites Will accumulate in renal failure	SAFE IN ESRF	SAFE In ESRF
	Not recommended for use by nonspecialist	iv/ sc fentanyl is used In titration phase

Fentanyl Patch (Durogesic)



 Overdose of fentanyl leading to death or life-threathening condition in patients using transdermal fentanyl patches for pain control was repeatedly reported by FDA

蘋果日報 2010-12-03 教育家陳麗玲裁定死於不幸

【本報訊】已故教育家陳樹渠的妻子陳麗玲 使用過量芬太尼止痛貼猝死 死因聆訊審結,陪審團昨裁定她死於不幸。

對於死者使用過量的芬太尼止痛貼致死, 死因陪審團昨建議醫生不可處方過量芬太尼,須由需要時使用, 改爲至少72小時處方一次。由於本案斷斷續續拖延逾一年才審結, 裁判官吳承威頒令陪審團在未來10年獲豁免出任陪審員。

長子決追究責任

陳麗玲長子陳燿璋聞判後表示,他與三名弟妹早前已入稟法院, 向醫生兼契女游逸燕、 腦神經專科醫生祁理治、

香港港安醫院及其經營者基督復臨安息日會(香港)有限公司 追究疏忽責任及索償,

陳燿璋稱只爲懲戒犯錯的人,所得賠償會全數用作慈善。

陳燿璋又稱,雖然陪審團以3比2裁決亡母死於不幸, 未能反映游醫生涉及刑事罪行。

但她只是放射診斷專科醫生,並非內科或腦科醫生, 卻透過醫院處方大量危險藥物予自己,

加上病人紀錄「唔清唔楚」

他促請醫務委員會及立法機關跟進,以決定她是否違法。

使用過量芬太尼

死者陳麗玲(69歲)97年在美國治乳癌時跌傷背, 多年來須以針灸及止痛貼減輕背痛。

至07年10月6日因服用過量安眠藥入住港安醫院, 獲契女游逸燕醫生開出一塊可使用3天的止痛貼。 陳於同月10日出院時,

腦神經專科醫生祁理治替她處方安眠藥,

游另開出6塊含芬太尼的止痛貼

同月15日次女燭蓮發現陳在渣甸山莒園家中全身發抖及腹瀉。 17日中午,菲傭發現陳在床上不省人事,送院後證實死亡。 警方在睡房只起回三塊止痛貼。

法醫剖屍發現死者血液內芬太尼含量遠高於可致命水平。

Dose conversion to fentanyl patch

Oral 24-hour morphine (mg/day)	Fentanyl patch dosage (mcg/hr)
<60	12
60 - 135	25
135 - 224	50
225 - 314	75
315 - 404	100
405 - 494	125
495 - 584	150
585 - 674	175
675 - 764	200

Janssen Pharmaceuticals (2008, February)

Contraindications for using fentanyl patch

- Life threatening hypoventilation could occur, fentanyl patch is **contraindicated** in:
 - Patient who are opioid naive
 - Management of:
 - > acute pain
 - post op pain
 - > mild pain
 - > intermittent pain

Risk Alert published by H

(issue 4 May 08)

Problems associated with Fentanyl Patches		Recommendations	
Mis-prescribed	 Initial dose too high To patients with pre-existing respiratory compromise or opioid naïve patients Incorrect indications 	 Prescribe the lowest dose needed Prescribe only as indicated for opioid tolerant patients with persistent, moderate to severe chronic pain 	
Mis-used	 Multiple patches applied Patch replaced too frequently Patch used in addition to other opiates 	 Document the location as well as the time of application and removal of patches Be aware of sign of overdose Make patient education mandatory 	
Improper storage/ disposal	Unintentional access and accidental application by children	Store and dispose in a secure manner	
Heat exposure	Increased absorption through the skin due to heat exposure	 Avoid exposing patches to excessive heat, e.g heating pads, electric blankets, hot bath 	

Education and Information to patient/caregiver

 Deliver information sheet on using the fentanyl patch to patient is helpful for patient education

 Deliver a record sheet for patient to record the fentanyl patch administration at home



ARCHEROPHORNERS OF SATURE

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超35人以下整体的第三条2015年的由于22基本的整个100年1月

Oxycodone

injection

sc, iv infusion/

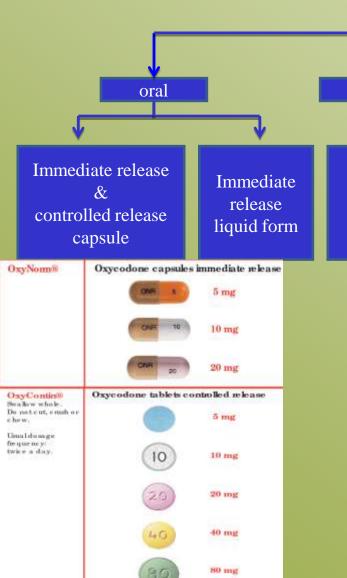
injection

OXYCOD0

20 mg/ 2mil for inflate Fight Width CR 8000

OXYNOR

Net content



clinically in USA for > 80 yrs

Oxycodone has been used

- Available in market of USA, Europe, UK, Australia, etc
- Registered in Hong Kong2012

Characteristics of oxycodone

Opioid agonist, act on kappa, mu & delta receptor

Analgesic potency twice of morphine 1mg oral oxycodone =2mg oral morphine 2mg oral oxycodone = 1mg iv oxycodone

No ceiling dose

More predictable PK profile

Effective in moderate to severe chronic pain

High oral bioavailability 60-80%

S/E profile ≈ morphine Some studies shown less N/V, hallucination, pruritis

Metabolised to noroxycodone & oxymorphone by cytochrome P450 (CYP3A4 and CYP2D6) in liver Both metabolites had insignificant analgesic effect & excreted by kidney

In renal impairment (CrCl< 60ml) or liver impairment, suggest \$\pm\$ 1/3 to \frac{1}{2} of usual dose Drug interaction occurs with co-administration of cytochrome P450 inducer or inhibitor

Use of opioid analgesics in the treatment of cancer pain: evidence-based recommendations from the EAPC

Augusto Caraceni*, Geoffrey Hanks*, Stein Kaasa*, Michael I Bennett, Cinzia Brunelli, Nathan Cherny, Ola Dale, Franco De Conno, Marie Fallon, Magdi Hanna, Dagny Faksvåg Haugen, Gitte Juhl, Samuel King, Pål Klepstad, Eivor A Laugsand, Marco Maltoni, Sebastiano Mercadante, Maria Nabal, Alessandra Pigni, Lukas Radbruch, Colette Reid, Per Sjogren, Patrick C Stone, Davide Tassinari, Giovambattista Zeppetella, for the European Palliative Care Research Collaborative (EPCRC), on behalf of the European Association for Palliative Care (EAPC)

Lancet Oncol 2012; 13: e58-68

Systematic reviews include 9 randomised trials involved 654 patients, compared <u>oral morphine</u>, oxycodone and <u>hydromorphone</u>, there are no significant differences in efficacy and the tolerability profiles was similar.

EAPC Recommendation 2012:

Weak recommendation that any one of these drugs can be used as first choice for moderate to severe cancer pain

Tips for Good Cancer Pain Control

Choose analgesic according to pain severity

Choose analgesic according to type of pain

Anticipate, prevent, and treat opioid S/E

Active clarification of myths and concern

Set realistic goals

Attention to details

Reassess and reassess

Tips for Good Cancer Pain Control Set realistic goals

Optimal pain relief

Minimal side effects

(more realistic)

Optimal dose of analgesic

The optimal dose is that gives maximal pain relief with minimal S/E

Pain free

(more realistic)

Acceptable pain

Not bothersome pain

No pain when at rest

Not waken up by pain during sleep

No side effects???
Acceptable side effects
Controllable side effects

Important points on use of strong opioid in cancer pain

Take Home message

- Morphine is the first line treatment of moderate to severe cancer pain
- Potency of morphine oral: sc: iv = 1:2:3
- Avoid morphine in renal failure patients
- Methadone had variable pharmacokinetics and reserve for use by specialist
- Fentanyl patch is ONLY used in opioid tolerant, persistent severe pain and in stable phase (use iv/sc fentanyl during titration phase)
- Education to patient is MANDATORY when use fentanyl patch



Use of Palliative Sedation in EOL care

Definition



Graeff AD, Dean M. Journal of Palliative Medicine, 2007

Palliative Sedation

Use of sedative medications to relieve intolerable and refractory symptoms by a reduction in patient consciousness.

The degree of sedation necessary to reduce suffering may vary from superficial to deep

Refractory symptoms

Symptoms for which all possible treatment failed, or it is estimated that no methods are available for palliation within the time frame and the risk-benefit ratio that the patient can tolerate

Assessing refractory symptoms

Refractory or Difficult?

- Difficult symptoms
 \(\neq \) Refractory symptoms
- One symptom may have multiple likely underlying causes; Some reversible
- Even if underlying cause is irreversible,
 palliation is often possible

Team discussion with involvement of specialist for search for any reversible underlying cause before initiation of palliative sedation is the MOST IMPORTANT

Common reason of use of palliative sedation

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lartin		Torta	Chiu	Fainsinger	Caraceni	Maltoni	Mean
997	1998	1999	2001	2000	2012	2012	
48	76	486	251	387	129	327	
7%	91%	21%	57%	34%	60%	53%	50%
4%	9%	23%	23%	33%	58%	31%	36%
%	-	23%	10%	81%	2%	19%	24%
%	-	9%		-	4%	4%	6%
	-	36%		-	7%	42%	28%
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Discussion with patient & family

- 1. Involve patient if mentally capable
- Explain aim of sedation is to relieve symptom & NOT hasten death
- Inform communication may be impaired
- 4. Inform death due to underlying illness may occur during sedation
- CPR will not be carried out as this is futile especially with sedation
- 6. Worries should be addressed and final decision should be respected

STEP 2

- Documentation in patient record
- 1. Reason of use palliative sedation
- 2. Life expectancy of the patient
- 3. Date and time of discussion on palliative sedation
- 4. Members of family involved in discussion
- Reason of refusal

STEP 3

Drug prescription

Midazolam:

Starting 15mg Midazolam CSCI over 24 hrs OR 10mg Midazolam iv infusion over 24 hrs if iv access available

Extra bolus Midazolam 2.5mg sc OR Midazolam 1mg iv (if iv access available) prn if symptoms poorly control

Haloperidol, opioid and other drugs adjusted accordingly

STEP 4 Reassessment

Twice daily and PRN

Assess sedation status/ symptoms control/ resp rate/ emotion of family and staff Step up or decrease midazolam according to sedation status and symptom control

KWC Palliative medicine guidelines, 2011

Use of Palliative Sedation in EOL

Take Home message

Palliative sedation is one of the important therapy in selected palliative care patients with refractory symptoms

Before starting palliative sedation, discussion with palliative medicine specialist is recommended

Procedural guidelines are helpful to set standards of best practice for palliative sedation



Ends &

Discussions