

International Association for Hospice & Palliative Care



Promoting Hospice & Palliative Care Worldwide

The IAHPC Manual of Palliative Care 2nd Edition

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The International Association for Hospice and Palliative Care (IAHPC) is a not for profit organization committed to the development of palliative care world-wide.

For this to happen there needs to be better professional education, and health care professionals willing to acquire the essential knowledge and skills necessary to practice palliative care.

The IAHPC is conscious of the fact that in many countries palliative care textbooks and practice manuals are expensive or difficult to obtain. Many medical libraries do not hold copies of palliative care journals or reference books, of which there are many. Readers are, however, reminded that the IAHPC runs a Clearing House Project that distributes donated books and journals to colleagues otherwise unable to purchase them, on application to the Executive Director Contact Here

The IAHPC Manual of Palliative Care is not intended to be a substitute for any textbook or reference book. Nor do its authors claim that it is exhaustive and comprehensive. It does however contain much of what is necessary for the day-to-day practice of palliative care.

The IAHPC offers this Manual in the hope that doctors and nurses world-wide will find the information in it helpful, will feel free to download

whatever parts of it they want, and will make its existence known to colleagues also seeking to improve their skills so as to offer better care to their terminally ill patients.

We ask two things of those who use it. First that they inform the Executive Director the IAHPC <u>Contact Here</u> what they think about it and what other material they would have liked included. Second, that if they have it translated into another language they again inform the Executive Director so that she may know where to refer any enquirers who also want it in that language.

The IAHPC hopes that this Manual, like its bookshop, its Traveling Fellowships, its bursaries and its newsletter will help to bring palliative care to the thousands of people who still suffer appallingly and quite unnecessarily at the end of life.

Before using the Manual, please read the Disclaimer.

Disclaimer

The information contained in this Manual is presented for the purpose of educating health care providers about certain aspects of palliative care. The Information should not be relied upon as complete or accurate, nor should it be relied on to suggest a course of treatment for a particular individual. Patients with health care related questions or concerns are advised to contact a physician or other qualified health care provider.

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recommended doses, warnings and contraindications. This is particularly important with new or infrequently used drugs.

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RESPIRATORY

- breathlessness
- cough
- terminal respiratory congestion

GASTROINTESTINAL

- nausea and vomiting
- bowel obstruction
- constipation

CONSTITUTIONAL

- anorexia
- weight loss
- weakness and fatigue

NEUROLOGICAL

- acute confusion and delirium
- terminal restlessness



PSYCHOLOGICAL DISTRESS

DEPRESSION

ANXIETY

SPIRITUAL AND EXISTENTIAL DISTRESS



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I. Principles and Practice of Palliative Care

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DEFINITIONS

Palliative care is the care of patients with active, progressive, far-advanced disease, for whom the focus of care is the relief and prevention of suffering and the quality of life.

The following should be noted

- active disease: this activity can be confirmed and measured objectively by clinical examination and investigations
- o progressive disease: this too can be assessed clinically
- o far-advanced disease: more difficult to define but examples are
 - extensive metastatic disease in cancer
 - refractory cardiac failure
 - total dependency in neurodegenerative conditions or A
- o focus on the quality of life is the key feature of the definition
- o it is **person-oriented**, not disease-oriented
- it is not primarily concerned with life prolongation (nor with life shortening)
- it is not primarily concerned with producing long term disease remission
- it is holistic in approach and aims to address all the patient's problems, both physical and psychosocial
- o it uses a **multidisciplinary or interprofessional approach** involving doctors, nurses and allied health personnel to cover all aspects of care
- it is dedicated to the quality of whatever life remains for the patient
- palliative care is appropriate for all patients with active, progressive, far-advanced disease and not just patients with cancer
- palliative care is appropriate for patients receiving continuing therapy for their underlying disease

palliative care should never be withheld until such time that all treatment alternatives for the underlying disease have been exhausted

The message of palliative care is that whatever the disease, however advanced it is, whatever treatments have already been given, there is always something which can be done to improve the quality of the life remaining to the patient.

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WORLD HEALTH ORGANIZATION DEFINITION

Palliative care is 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.

Palliative care

- Provides relief from pain and other distressing symptoms
- · Affirms life and regards dying as a normal process
- . Intends neither to hasten or postpone death
- . Integrates the psychological and spiritual aspects of patient care
- Offers a support system to help patients live as actively as possible until death
- Offers a support system to help the family cope during the patient's illness and in their own bereavement
- Uses a team approach to address the needs of patients and their families, including bereavement counselling, if indicated
- Will enhance quality of life, and may also positively influence the course of illness
- Is applicable early in the course of illness, in conjunction with other therapies that are intended to prolong life, such as chemotherapy or radiation therapy, and includes those investigations needed to better understand and manage distressing clinical complications

http://www.who.int/cancer/palliative/definition/en/

FAQs

Is Palliative Care the same as Hospice Care?

Yes, the principles are the same.

- hospice means different things in different countries it is variously used to refer to a philosophy of care, to the buildings where it is practised, to care offered by unpaid volunteers, or to care in the final days of life
- it is better to adopt and use the term palliative care

Should a Palliative Care service provide care for patients with chronic

diseases?

No, although their care is important.

- patients with chronic conditions such as rheumatoid arthritis, degenerative diseases, diabetes mellitus and similar conditions usually do not have active, progressive, far-advanced disease
- nevertheless, many of the principles of palliative care are appropriate to the management of patients with chronic diseases

Should a Palliative Care service provide care for patients with incurable diseases?

No, although their care is important.

- as with patients with chronic diseases, these patients usually do not have active, progressive, far-advanced disease
- nevertheless, many of the principles of palliative care are appropriate to the management of patients with incurable diseases

Should a Palliative Care service provide care for patients incapacitated by their disease?

No, although their care is important.

- patients incapacitated by psychiatric illness, cerebrovascular accidents, trauma, dementia and the like deserve special care but they usually do not have active, progressive, far-advanced disease
- nevertheless, many of the principles of palliative care are appropriate to the management of patients incapacitated by their disease

Should a Palliative Care service provide care for the elderly?

No, although their care is important.

- many patients needing palliative care are elderly but they need palliative care because of the underlying disease from which they are suffering, not because of their age
- nevertheless, many of the principles of palliative care are appropriate to the management of the elderly

Is Palliative Care just Terminal Care?

No.

- the provision of high quality care during the final days and hours of life is an important part of palliative care
- palliative care should be initiated when the patient becomes symptomatic of their active, progressive, far-advanced disease and should never be withheld until such time as all treatment alternatives for the underlying disease have been exhausted

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Should Palliative Care stay separate from mainstream medicine?

No.

- palliative care originated because of the belief that terminally ill patients were not receiving optimal care and there was for a long time mutual distrust between the practitioners of palliative care and orthodox medicine
- modern palliative care should be integrated into mainstream medicine
- it provides active and holistic care that is complementary to the active treatment of the underlying disease
- it will foster palliative care skills for other health care professionals, particularly better pain and symptom control and appreciation of the psychosocial aspects of care

.

Is Palliative Care not just 'old-fashioned' care?

No.

- palliative care was originally separate from mainstream medicine, and was frequently practised by very caring individuals who knew little about medicine
- modern palliative care is more integrated with other health care systems and calls for highly trained doctors and nurses, competent in a range of medical disciplines including internal medicine, pharmacology, communications skills, oncology and psychotherapy

Is Palliative Care what you do when "nothing more can be done"?

No.

- no patient should ever be told "there is nothing more that can be done"—it is never true and may be seen as abandonment of care
- it may be permissible to say there is no treatment available to stop the

progression of the underlying disease, but it is always possible to provide care and good symptom control

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Does Palliative Care include euthanasia and physician-assisted suicide?

No.

- a request for euthanasia or assisted suicide is usually a plea for better care
- depression and psychosocial problems are frequent in patients making requests
- unrelieved or intolerable physical or psychosocial suffering should be infrequent if patients have access to modern interprofessional palliative care
- terminally ill patients suffering intractable symptoms can be treated by sedation; this does not constitute euthanasia or physician-assisted suicide

THE NEED FOR PALLIATIVE CARE

- fifty-two million people die each year
- it is estimated that tens of millions of people die with unrelieved suffering
- about five million people die of cancer each year, to which can be added the numbers of patients dying with AIDS and other diseases who might benefit from palliative care
- that many people die with unnecessary or untreated suffering has been well documented in many studies and published in hundreds of scientific papers and reports
- in developed and developing countries alike, people are living and dying
 - o in unrelieved pain
 - with uncontrolled physical symptoms
 - o with unresolved psychosocial and spiritual problems
 - o in fear and loneliness
- this is the suffering that could be helped or prevented with palliative care
- the World Health Organisation (1990) and the Barcelona (1996) declarations both called for palliative care to be to be included in every country's health services
- the relief of suffering is an ethical imperative
 - every patient with an active, progressive, far-advanced illness has a right to palliative care
 - o every doctor and nurse has a responsibility to employ the

principles of palliative care in the care of these patients

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THE GOALS OF PALLIATIVE CARE

For patients with active, progressive, far-advanced disease, the goals of palliative care are

- to provide relief from pain and other physical symptoms
- · to maximise the quality of life
- · to provide psychosocial and spiritual care
- to provide support to help the family during the patient's illness and bereavement

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PALLIATIVE CARE AND SUFFERING: INTERPROFESSIONAL CARE

Suffering may be defined as the distress associated with events that threaten the intactness or wholeness of the person.

In clinical practice, it is helpful to have a simple classification of the causes of suffering, so that the complex problems presented by patients can be disentangled, in order to provide comprehensive palliation and relief of suffering:

- Pain
- Other physical symptoms
- Psychological
- Social
- Cultural
- Spiritual

The **components of palliative care**, or the aspects of care and treatment that need to be addressed, follow logically from the causes of suffering. Each has to be addressed in the provision of comprehensive palliative care, making a multidisciplinary approach to care a necessity.

Suffering	Care
Pain	Treatment of pain
+ other physical symptoms	& other physical symptoms
+ psychological problems	& psychological problems
+ social difficulties	& social difficulties
+ cultural issues	& cultural issues
+ spiritual concerns	& spiritual concerns
= Total suffering	= Multidisciplinary Palliative Care

Treatment of **pain and physical symptoms are addressed first** because it is not possible to deal with the psychosocial aspects of care if the patient has unrelieved pain or other distressing physical symptoms.

The various causes of suffering are interdependent and unrecognized or unresolved problems relating to one cause may cause or exacerbate other aspects of suffering

- unrelieved pain can cause or aggravate psychosocial problems
 - these psychosocial components of suffering will not be treated successfully until the pain is relieved
- pain may be aggravated by unrecognized or untreated psychosocial problems
 - no amount of well prescribed analgesia will relieve the patient's pain until the psychosocial problems are addressed

A multidisciplinary approach to assessment and treatment is mandatory

 failure to do this often results in unrelieved pain and unrelieved psychosocial suffering

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MULTIDISCIPLINARY and INTERPROFESSIONAL TEAMS

Successful palliative care requires attention to all aspects of a patient's suffering, which requires input or assistance from a range of **medical**, **nursing and allied health personnel**—a multidisciplinary approach.

Establish

Established palliative care services work as a **multidisciplinary** or **interprofessional team**

- multidisciplinary is the term that used to be applied to palliative care teams, but if the individuals work independently and there are no regular team meetings, patient care may become fragmented and conflicting information given to patients and families
- interprofessional is the term now used for teams that meet on a regular basis to discuss patient care and develop a unified plan of management for each patient, and provide support for other members of the team
- where palliative care services have not yet been established, it is important for the few professionals providing such care to work as a team, meeting regularly, planning and reviewing care, and supporting each other

The patient may be considered a 'member' of the team (although they do not participate in team meetings), as all treatment must be with their consent and in accordance with their wishes

.

The members of the patient's family can be considered 'members', as they have an important role in the patient's overall care and their opinions should be included when formulating a plan of management

.

Volunteers play an important role in many palliative care services

The ideal multidisciplinary team

Medical staff

Nursing staff

Social worker

Physiotherapist

Occupational therapist

Dietician

Psychologist (or liaison psychiatrist)

Chaplain (or pastoral care worker)

Volunteers

Other personnel, as required

Family members

Patient

PRINCIPLES OF PALLIATIVE CARE

- Palliative care incorporates the whole spectrum of care—medical, nursing, psychological, social, cultural and spiritual. A holistic approach, incorporating these wider aspects of care, is good medical practice and in palliative care it is essential.
- The principles of palliative care might simply be regarded as those of good medical practice

Principles of palliative care

Attitude to Care

Caring attitude

Commitment

Consideration of individuality

Cultural considerations

Consent

Choice of site of care

Communication

Communication amongst health care professionals

Communication with patients and families

The Care

Clinical context: appropriate treatment

Comprehensive and multidisciplinary

Care excellence

Consistent

Co-ordinated

Continuity

Crisis prevention

Caregiver support

Continued reassessment

Advance Care Planning

A caring attitude

- involves sensitivity, empathy and compassion, and demonstrates concern for the individual
- there is concern for all aspects of a patient's suffering, not just the medical problems
- there is a non-judgmental approach in which personality, intellect, ethnic

origin, religious belief or any other individual factors do not prejudice the delivery of optimal care

Consideration of individuality

- the practice of categorizing patients by their underlying disease, based on the similarity of the medical problems encountered, fails to recognize the psychosocial features and problems that make every patient a unique individual
- these unique characteristics can greatly influence suffering and need to be taken into account when planning the palliative care for individual patients

Cultural considerations

- ethnic, racial, religious and other cultural factors may have a profound effect on a patient's suffering
- cultural differences are to be respected and treatment planned in a culturally sensitive manner

Consent

- the consent of a patient, or those to whom the responsibility is delegated, is necessary before any treatment is given or withdrawn
- the majority of patients want shared decision making although physicians tend to underestimate this
- having assessed what treatment is appropriate or inappropriate, this is discussed with the patient
- in most instances, adequately informed patients will accept the recommendations made

Choice of site of care

- the patient and family need to be included in any discussion about the site of care
- · patients with a terminal illness should be managed at home whenever possible

Communication

- good communication between all the health care professionals involved in a patient's care is essential and is fundamental to many aspects of palliative care
- good communication with patients and families is also essential

see Communication

Clinical context: Appropriate treatment

- all palliative treatment should be appropriate to the stage of the patient's disease and the prognosis
- over-enthusiastic therapy that is inappropriate and patient neglect are equally deplorable
- palliative care has been accused of the medicalization of death, and care must be taken to balance technical interventions with a humanistic orientation to dying patients
- the prescription of appropriate treatment is particularly important in palliative care because of the unnecessary additional suffering that may be caused by inappropriately active therapy or by lack of treatment
- see Ethical issues
- when palliative care includes active therapy for the underlying disease, limits should be observed, appropriate to the patient's condition and prognosis
- treatment known to be futile, given because 'you have to do something', is unethical
- where only symptomatic and supportive palliative measures are employed, all
 efforts are directed at the relief of suffering and the quality of life, and not
 necessarily at the prolongation of life

Comprehensive interprofessional care

 the provision of total or comprehensive care for all aspects of a patient's suffering requires an interdisciplinary team

Care excellence

 palliative care should deliver the best possible medical, nursing and allied health care that is available and appropriate

Consistent medical care

- consistent medical management requires that an overall plan of care be established, and regularly reviewed, for each patient
- this will reduce the likelihood of sudden or unexpected alterations, which can be distressing for the patient and family

Coordinated care

 involves the effective organization of the work of the members of the interprofessional team, to provide maximal support and care to the patient and family

 care planning meetings, to which all members of the team can contribute, and at which the views of the patient and the family are presented, are used to develop a plan of care for each individual patient

Continuity of care

- the provision of continuous symptomatic and supportive care from the time the patient is first referred until death is basic to the aims of palliative care
- problems most frequently arise when patients are moved from one place of care to another and ensuring continuity of all aspects of care is most important

Crisis prevention

- good palliative care involves careful planning to prevent the physical and emotional crises that occur with progressive disease
- many of the clinical problems can be anticipated and some can be prevented by appropriate management
- patients and their families should be forewarned of likely problems, and contingency plans made to minimize physical and emotional distress

Caregiver support

- the relatives of patients with advanced disease are subject to considerable emotional and physical distress, especially if the patient is being managed at home
- particular attention must be paid to their needs as the success or failure of palliative care may depend on the caregivers' ability to cope

Continued reassessment

- is a necessity for all patients with advanced disease for whom increasing and new clinical problems are to be expected
- this applies as much to psychosocial issues as it does to pain and other physical symptoms

Advance Care Planning

see Advance Care Planning

COMMUNICATION WITH PATIENTS

Important and potentially difficult discussions are frequently necessary with palliative care patients who have active, progressive, far-advanced disease, regarding

- breaking bad news
- · further treatment directed at the underlying disease
- communicating prognoses
- admission to a palliative care program
- artificial nutrition
- artificial hydration
- medications such as antibiotics
- do-not-resuscitate orders

Decisions must be individualised for each patient and should be made in discussion with the patient and family. The following guide is to help you plan for and hold such discussions.

BEFORE THE DISCUSSION

Ask yourself these questions

Would you be surprised if this patient died of their disease within 6 months?

- This may provide a better guide for decision-making, as attempting to prognosticate may be difficult and inaccurate.
 - Alternatively, assess how much the patient's condition has deteriorated in the last month or six weeks, using observations by the team and objective measures such as x-rays and biochemistry.

What specific therapies are available to treat the underlying disease?

- What are the percentage chances of significant clinical improvement? ___%
- Does that take into account the patient's age and any other diseases/comorbidities?
- · How long would the improvement last? Days, weeks or months?
- What are the percentage chances of serious adverse effects? $_$ %
- Does that take into account the patient's age and any other diseases/comorbidities?
- On balance, do the potential benefits outweigh the potential burdens?

About the Patient and Family

- · What is their understanding of the state of the disease and the prognosis?
- Do they understand the goal of any treatments to be discussed (i.e. palliative, not curative)?

- Do they understand the potential benefits and burdens of the treatment options?
- What are their expectations? What are they hoping for?
- What do you think their preferences are?

THE DISCUSSION

Appropriate setting

- **Discussions should be held in person** and not by telephone, except when face-to-face meetings are not possible for geographic reasons
- Privacy, prevent interruptions (leave your pager/mobile with someone else)
- Sitting down (not standing over the patient's bed)
- · Allow enough time
- · The patient has at least one family member or friend for support

Introduce the discussion

e.g. We need to talk about your current problems and our goals for your care

Find out what they understand

• e.g. Tell me what you understand about your illness at the moment

Find out what they expect

- e.g. Tell me what you see happening with this illness in the future
- · e.g. Tell me what things are important for you

Provide medical information, if necessary

- in a caring and sympathetic way, not abruptly or bluntly
- in a way they can understand
- clearly (avoid euphemisms and medical jargon)
- the medical situation
- what treatments can be offered
- · the possible benefits and adverse effects of any treatments
- as much or as little information as they want (if unsure, ask them how much they want)
- use trained interpreters

Discuss realistic possibilities in the context of their view of the present and future

Discussing further active treatment for the underlying disease

- truthful discussion of what therapy is or is not available
- the benefits and burdens of any therapies
- do NOT say 'there is nothing more that can be done'
 - o patients interpret this to mean no treatment for anything
 - o it is never true
 - patients and families will feel abandoned
- patients may be told there is no further therapy for the underlying disease, but the provision of continuing care and symptom control should be stressed
- if further active therapy for the underlying disease is not appropriate, emphasise the positive aspects of symptomatic and supportive palliative care

Discussing prognoses

- Explain the uncertainty in estimating an individual patient's prognosis
- Avoid precise prognostication
- Give a realistic time range
- Provide realistic hope—helping them to achieve what is important for them
- Recommend that family relationships and worldly affairs be attended to
- Be prepared to answer questions about the process of dying
- Provide on-going support and counselling
- Reassure about continuity of care

Discussing admission to palliative care

- discuss palliative care in the context of how it can help them achieve their goals
 - e.g. You have told me you would like to......Palliative care may be able to help you achieve what you want
- emphasize the positive aspects of palliative care
 - o e.g. living as well as possible, for as long as possible; not 'giving up'

Discussing appropriate medical care

• Issues related to the appropriateness of artificial hydration and nutrition, antibiotics and other medications are dealt with in the section on Ethical Issues

- Explain the possible benefits and burdens (or futility) of any intervention
- If agreement is not reached, the intervention can be trialled for a specified time

Discussing 'Do-not-resuscitate' orders

- Introduce the discussion
 - e.g. We need to discuss something we discuss with all patients admitted to the hospital
- Find out what the patient understands
 - o e.g. What do you understand about your current medical problems?
- · Find out what the patient expects, what their goals are
 - o e.g. What do you see happening in the future?
- Discuss a DNR order in the context of the patient's view of their future
 - e.g. You have told me you would like.....so CPR would not seem appropriate if you died
- If necessary, discuss
 - o futility of CPR (chances of surviving to discharge)
 - indignity of CPR
 - o being on a respirator in ICU and unable to communicate
- · Respond sympathetically to emotional reactions
- · Reassure patient that all other medical care will continue
- If a patient clearly understands that they are dying and that the only care that they will receive is directed to their comfort, it may not be necessary to discuss DNR orders. If this is the case, it must be recorded in case-notes.

Respond sympathetically to emotional reactions

Agree on a plan, with provision that it can be modified if circumstances change

 Offer to document the plan, including appointing an agent and regarding resuscitation

Remember, death is the natural end to life and is not a failure of medicine

ADVANCE CARE PLANNING

Advance care planning is a means for patients to record their end-of-life values and preferences, including their wishes regarding future treatments (or avoidance of them)

Advance care planning involves a number of processes

- informing the patient
- eliciting preferences
- identifying a surrogate decision maker to act if the patient is no longer able to make decisions about their own care
- it involves discussions with family members, or at least with the person who is to be the surrogate decision maker

The **principle** of advance care planning is not new

- it is common for patients aware of approaching death to discuss with their carers how they wish to be treated
- · however, these wishes have not always been respected, especially
 - o if the patient is urgently taken to hospital
 - if there is disagreement amongst family members about what is appropriate treatment

The 'Respecting Choices' program developed in Wisconsin is an example of advance care planning

- employs trained personnel to facilitate the discussions and record the outcomes, which are in writing and signed, and kept in the front of the patient's file
- the surrogate decision maker is involved in the discussions so that they have explicit knowledge of the patient's wishes; otherwise they may feel burdened by the responsibility
- there is less conflict between patients and their families if advance care planning has been discussed

MODELS OF CARE

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- there is no one right or wrong model for the provision of palliative care
- the best model is determined by local needs and resources, in consultation with the local health care providers and authorities
- IAHPC believes that each developing country should be encouraged and enabled to develop its own model of palliative care, appropriate to the needs of the local patients and the available resources, taking advantage of the experience and expertise accumulated in developed countries, and not be expected to copy models more appropriate to affluent countries

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Types of Care: the meaning of "Palliative"

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It is important to differentiate

- palliative care principles which apply to all care, whatever the disease suffered by a patient
- palliative techniques or therapies include medical and surgical therapies (e. g. stenting, paracentesis, internal fixation of fractures and radiotherapy) that are employed to palliate symptoms and ease suffering but are only a small part of the spectrum of care known as palliative care
- specialist palliative care in some countries is practised in units operated
 exclusively for palliative care by doctors and nurses who are accredited
 specialists in palliative care. Whether such specialisation is important or
 essential is something that can only be debated in the context of national
 needs and resources.

Models of Care

Palliative Care Services operate in one or more of the following ways, reflecting local practice and needs, but there is no 'right' or 'wrong' type of service.

In-patient beds

- an in-patient palliative care unit may be part of a hospital or an independent free-standing unit
 - a hospital unit may be either a special ward within the hospital or a separate unit built in the hospital grounds
 - a free-standing unit is physically separate from the hospital, but should still be able to access its staff and services

- patients may be admitted for
 - symptom management (physical or psychosocial)
 - o terminal care
 - short duration rehabilitation/convalescence
 - o to provide a period of respite for family carers
- in the UK, most units have few beds (6-30), an average length of stay of 2 weeks or less, and a discharge rate of 40-60%
 - these figures vary greatly around the world and depend on local needs and resources, the relationship to other services

Community services

- · there are various models for community based palliative care services
 - services providing specialist advice and support for the family doctors and community nurses managing the patients
 - services providing 'hands-on' nursing and allied health services to patients at home, in co-operation with the patients own doctor
 - comprehensive services providing medical, nursing and allied health care to patients and their families at home

Day Units

- known as Day Care, Day Hospice, Day Palliative Care Unit
- usually form part of a hospital or in-patient palliative care unit
- provide care, rehabilitation, support and respite during the day for people under care at home, who are still well enough to be transported to and from the Day Care Unit, often by volunteer transport

Hospital Palliative Care Teams

- operate in general and specialist hospitals
- are staffed by doctors and palliative care nurses
 - o some also have a social worker or a pastoral care specialist
- provide consultative advice on patients referred to them in any department of the hospital
 - to advise on every aspect of palliation
 - o provide support for family member
 - o provide support and education for the staff
- facilitates the provision of high quality palliative care in all wards
 - o where the patient is familiar with the staff and surroundings
 - without the need to be transferred to another unit
 - educates the ward staff about matters pertaining to palliative care

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INTEGRATION of PALLIATIVE CARE into CLINICAL CARE

Many health care workers believe that palliative care is the 'soft option' adopted when 'active' therapy stops

 palliative care, addressing all the patient's physical and psychosocial problems, is active therapy

Palliative care has in the past been regarded as the care employed when all avenues of treatment for the underlying disease are exhausted and further active medical treatment considered inappropriate:

Treatment of the underlying disease

Palliative
Care

Active treatment of medical problems

Diagnosis of symptomatic incurable illness

Palliative care should be initiated when a patient becomes symptomatic of active, progressive, incurable disease

- it should *never* be withheld until such time as all modalities of treatment of the underlying disease have been exhausted
- it is active therapy that is **complementary** to active treatment of the underlying disease
- It should be integrated in a seamless manner with other aspects of care
- a holistic approach to care, encompassing all aspects of a patient's suffering and which is a prerequisite for successful palliative care, is often lacking in modern disease-orientated medicine

•

Treatment of underlying disease

Cancer: anticancer treatment AIDS: antiretroviral therapy

Active medical treatment

Cancer: hypercalcaemia, fractures, GI obstruction AIDS: opportunistic infections, malignancies

Symptomatic and supportive palliative care

 pain and physical symptoms, and psychological, social, cultural and spiritual/existential problems

Diagnosis of symptomatic incurable illness Death

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BARRIERS to PALLIATIVE CARE

Many patients with advanced disease do not receive palliative care

 some are referred too late in the course of their disease to benefit from treatment.

The reasons for this may relate to the physician, the patient, or to social factors.

Barriers to palliative care

Physician

Late referral

poor prognostication

lacks communication skills to address end-of-life issues

Reluctant to refer

doesn't understand or believe in palliative care

loss of control, loss of income

lack of institutional standards for end-of-life care

Patient

Believe prognosis better than what they are told

Unrealistic expectation of disease response

Patient-family disagreement about treatment options

Lack of advance care planning

Social factors

Ethnic minorities, language barriers

Rural communities

Poor or underprivileged

Access factors

High cost of care, treatments and medications in developing countries

No government subsidies for health care in developing countries

No physician reimbursement for palliative care in developing countries

Laws and regulations restricting or prohibiting the use of opioids

The IAHPC Manual of Palliative Care 2nd Edition

II. Ethical Issues

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PRINCIPLES OF MEDICAL ETHICS

Ethics are the principles that should guide doctors and other health care professionals in their work and decision making

- they are not laws but guiding principles
- they apply to all medical care but assume greater importance when caring for people at the end of life.
- unlike cultural issues which differ from country to country, the same ethical principles apply everywhere

There are four main principles of medical ethics

Beneficence

- is to produce benefit, to do good, to always act in the best interests of the patient
 - whatever is done or said must be for the patient's good
 - includes being honest with patients, which in nearly all circumstances will be of benefit to the patients
 - o patients should not be subjected to unnecessary investigations
 - o patients should not be subjected to unnecessary or futile therapies
 - applies not only to physical good but also to psychological, social and existential well-being
 - must be distinguished from paternalism ('doctor knows best')

Non-maleficence

- is to minimise or do no harm
 - whatever is done or said must not harm the patient, physically or psychologically
 - includes being honest with patients; lying to patients or telling only part of the truth will very probably cause harm
 - for every intervention, the potential benefits must be weighed against possible adverse effects
 - treatments should not be prescribed unless there is a strong chance they will help the patient and only a small chance of unpleasant
 - o adverse effects

Autonomy

- acknowledges patients' rights to self-determination, without prejudice
 - o treatments can only be given with patients' informed consent
 - it is the patients' right to decide what treatments they do or do not wish to have
 - o patients have a right to be fully informed in order to make decisions
 - heath care professionals have an obligation to provide honest and complete information when it is requested
 - applies not only to medical treatments but also to matters such as where they receive care, and who shall provide their care

Justice

- refers to the equitable allocation of health care resources according to need
 - o not according to wealth, class, creed or colour
 - o unfortunately, observation of health care around the world shows much

lack of justice

- o many treatments are only available to the rich, or those with influence and power, or those articulate enough to ask for something better
- o in some countries morphine is available only if the patient can afford it
- in some countries even palliative care has to be paid for and lack of money may mean dying in pain, possibly alone, without any dignity

In Clinical Practice

- situations arise where there is apparent conflict between different principles
- in assessing which principle is the more important
 - o give priority to what is in the best interests of the individual patient
 - weigh the possible benefits against the potential adverse effects for each proposed therapy

COMMUNICATION AND DISCLOSURE

Patients have a right to an honest and full explanation of their situation

- patients should be told as much or as little as they want to know
 - o patients have a right to decline information if they so wish
- without information about the disease and prognosis, patients
 - o cannot participate in their own treatment planning
 - o cannot give informed consent to treatment
 - o cannot make suitable plans for themselves and their families

Communication should be with the patient, unless

- the patient is not competent
- they have delegated the responsibility to a family member
- · religious or cultural custom requires that the male head of the family is told

Communication about sensitive matters should be

- carried out in an understanding, sensitive and unhurried manner
- given in a way that can be understood
- honest

see Communication with Patients

Telling patients nothing or lying to them is very likely to cause harm

- there is evidence from many different countries and cultures that terminally ill
 patients fear the unknown more than they fear the known and will suffer less,
 both physically and psychologically, when given the information they want
- even in countries where traditionally patients are not told the diagnosis and are thought not to know it, many patients have a good idea of the diagnosis and its prognosis even if they have not been explicitly informed about it
- will lead to loss of trust when the patient is informed of, or deduces the true situation

WITHHOLDING OR WITHDRAWING TREATMENTS

The goal of palliative care is to maintain the quality of life while neither hastening nor postponing death

- · death is the natural end of life
- there is no ethic, in any culture or religion, which say that a terminally ill
 patient must be kept alive by any means
- what matters is the quality of life left to the patient, not the time which is left to them
- · palliative care must never become an exercise in prolonging life

Whether it is appropriate to offer or to withhold or withdraw a particular therapy depends on the balance between the possible benefits and the potential risks of the treatment, i.e. what is in the patient's best interests

- it will depend on individual clinical circumstances
- it is often difficult and complex
- futile therapy, with no chance of benefit ("You have to do something!"), can never be justified

Example 1

Should terminally patients receive antibiotics for chest infection?

- depends on many factors, including
 - o the patients' nearness to death
 - o the wishes of the patients and their families
 - o the expected benefits from the patients' point of view
- if the antibiotics
 - o will merely prolong the dying process, they are probably best withheld
 - will control distressing symptoms unresponsive to other measures, such as pyrexia or delirium, they may be of benefit

Example 2

How should renal failure caused by ureteric obstruction due to advanced cancer be managed?

- if the patient was terminally ill because of cancer before renal failure supervened, active therapy is probably inappropriate
- if the patient was previously relatively well and has a reasonable life expectancy except for the effects of renal failure, consideration for stenting or nephrostomy insertion is appropriate

ARTIFICIAL NUTRITION

The question is whether or not a particular treatment or intervention will restore or enhance the quality of life for a particular patient

- if the answer is yes, and it can be justified on the best clinical grounds, then it is ethically right to do it
- if not, it should not be done
- in developing countries, cost may be a major additional consideration

Weight loss and wasting in advanced cancer

- is nearly always due to the cachexia syndrome
- is caused by changes to metabolism secondary to the cancer
- is never responsive to enteral or parenteral nutrition
 - o i.e. they are futile
 - o parenteral nutrition is associated with
 - central venous catheterisation
 - infections
 - expense
 - o enteral nutrition is associated with
 - abdominal cramps
 - diarrhoea
 - feeding tubes
- is occasionally due to malnutrition and starvation
 - patients with upper gastrointestinal obstruction, not terminally ill from their cancer warrant feeding by a nasogastric tube or gastrostomy
 - patients receiving therapy that will prevent them eating for 2 weeks or more warrant consideration for parenteral feeding
 - for patients with persistent or recurrent bowel obstruction, whether parenteral nutrition is warranted depends on individual clinical

circumstances

"you have to do something!" is never a justification for artificial nutrition

ARTIFICIAL HYDRATION

The question is whether or not a particular treatment or intervention will restore or enhance the quality of life for a particular patient

- if the answer is yes, and it can be justified on the best clinical grounds, then it is ethically right to do it
- if not, it should not be done

Effects of dehydration in terminally ill patients

- dry mouth
 - o but this can be well palliated topically
- thirst
 - o although dying patients do not complain of thirst
- · diminished conscious state
 - several reports and a single randomised controlled trial showed no correlation between hydration and cognition in these patients

Possible benefits of dehydration in terminally ill patients

- less urine output means less movement and less incontinence
- less pulmonary secretions reduce dyspnoea and terminal congestion
- · less gastrointestinal secretions will lessen nausea and diarrhoea
- less problems with oedema and effusions

Possible disadvantages of artificial hydration in terminally ill patients

- may have the opposite effects and worsen the patient's situation
- · may give an ambiguous signal or false hope to the patient or family
- · drips act as a physical barrier between patient and family

Dehydration in patients not terminally ill

causes thirst, dry mouth and postural hypotension

patients unable to take or retain adequate fluids warrant parenteral hydration

"you have to do something!" is never a justification for artificial hydration

EUTHANASIA AND PHYSICIAN ASSISTED SUICIDE

Euthanasia is a deliberate intervention undertaken with the express intention of ending a life so as to relieve intractable suffering

- if performed at the person's request or with their consent, it is voluntary
- · otherwise it is non-voluntary

Physician-assisted suicide: the physician provides the knowledge and means necessary, but the act is completed by the patient

 from the physician's standpoint, it is a deliberate act with the express intention of ending life and should not be distinguished from euthanasia

Palliative Care

- recognises human suffering and seeks to relieve it
 - o but it does not accept that euthanasia is ever the answer
- · recognises that a request for euthanasia is a plea for better care

Withholding or withdrawal of medical treatment

- terminally ill patients should not be subjected to futile therapies
- · there is no requirement or justification to sustain life at all costs
 - o a doctor has no right to prescribe a prolonged or lingering death
- withholding or withdrawal of futile treatment from the terminally ill does not shorten life or hasten death
 - it does not artificially prolong life
- withholding or withdrawal of futile therapy from the terminally ill is not euthanasia
 - the intention is to allow death to occur naturally, not to deliberately terminate life

'Double effects'

- medications given for the relief of distressing pain or symptoms may, on occasions, hasten the moment of death, the so-called 'double effect'
 - there is no evidence that good palliative medicine shortens life

- o effective symptom control is just as likely to extend as shorten life
- providing that appropriate drugs are given for appropriate medical reasons and in appropriate doses, this is not euthanasia
 - the hastening of death may or may not be foreseen, but it is never intended

Euthanasia may be requested or advocated for various reasons

- unrelieved pain and physical symptoms
 - which should occur infrequently given optimal interprofessional (or multiprofessional) palliative care
 - terminal sedation may be considered for patients with pain and physical symptoms that are refractory to optimal palliative care; this does not constitute euthanasia or physician-assisted suicide
- severe anxiety and depression
 - which should be controlled given optimal interprofessional (or multiprofessional) palliative care
- · intolerable suffering, existential distress
- which should be controlled given optimal interprofessional (or multiprofessional) palliative care
- carer fatigue
 - o is preventable
- autonomy and self determination
 - in modern society, the existence of a right to request and receive euthanasia is controversial—every 'right' is balanced by a responsibility
- iatrogenic the 'nothing more can be done' syndrome
 - o would not occur if patients were referred to a palliative care service
 - requires professional education

Uncontrolled suffering in the terminally ill should be considered a medical emergency and not an indication for euthanasia

Legalisation of euthanasia is associated with risks

- · voluntary euthanasia leads to non-voluntary euthanasia
 - in Holland, many patients received euthanasia without request, never mind consent
- euthanasia for the terminally ill leads to euthanasia for the non-terminally ill
 - as documented in the Dutch reports
- euthanasia for persons with potentially treatable conditions like depression
 - o as documented in the Dutch and Australian reports
- · the vulnerable will experience pressure to request euthanasia
 - o the aged, the sick, the disabled and those who feel a burden
 - o as reported from Holland
- · it is open to abuse, by patients, even by relatives, and certainly by doctors

There is no place for euthanasia in a caring society that provides palliative care services

Further articles concerning euthanasia are to be found on the <a>Ethics Page of the IAHPC website

ETHICS IN RESEARCH

Should terminally ill patients be recruited into clinical trials?

- · Yes, if the trial objective is to improve the quality of life and
 - o there is possible benefit
 - the potential for harm is low
- · No, if it is a phase 1 trial of an experimental anticancer agent and
 - o the chance of benefit is very small
 - the potential for harm is significant

Informed consent for a clinical trial must include understanding of

- the purpose of the research
- · any foreseeable risks
- any possible benefits
- any appropriate alternative procedures or treatments
- · confidentiality of records
- · participation being voluntary
- · ability to withdraw at any time
- that continuing care is not dependent on participation in the trial

Palliative care patients are particularly vulnerable and susceptible to proposals to enrol in clinical trials

- they may be desperate for treatment options
- they may be physically ill and exhausted
- they may be depressed
- they may be cognitively impaired
- they may feel obliged to participate, to show their appreciation to the doctors caring for them

There is an ethical responsibility to protect palliative care patients from

studies that are not in their best interests whilst preserving the informed patients' freedom of choice

 experience suggests that many terminally ill patients enjoy collaborating in ventures which might help others, feeling that they are still useful members of society

JUSTICE AND RESOURCE ALLOCATION

Justice

- refers to the equitable allocation of health care resources according to need
 not according to wealth, class, creed or colour
- all patients with active, progressive, far-advanced disease and a short life expectancy, for whom the focus of care is the relief and prevention of suffering and the quality of life, should have access to palliative care

Resource Allocation

- some would argue that cure medicine should have priority because it aims to maintain life which may be economically and socially useful and productive
- others would argue that palliative care is more important because a society which is not concerned about its incurably ill is not a good society
- in many developing countries, the majority of patients are diagnosed in advanced stages of the disease, or curative treatments are not available
- in some developing countries, expensive chemotherapy drugs and analgesic medications are available, but simple (and affordable) morphine mixture and injections are not

Palliative Care must be prepared

- to demonstrate the effectiveness of interventions on quality of life and symptom control and not just on patient satisfaction
- to show cost-effectiveness or at least cost parity with alternative forms of care
- to demonstrate not only the efficacy but also the efficiency of what it does

III. PAIN

Pain is a more terrible lord of mankind than even death itself.

Albert Schwieitzer (1875-1965)

Abbreviations

<u>References</u>

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INTRODUCTION

Pain is one of the most common symptoms in palliative care. The aim of palliative care is to allow patients to be pain-free or for their pain to be sufficiently controlled that it does not interfere with their ability to function or detract from their quality of life.

In palliative care, the treatment of pain needs to be part of a holistic and multidisciplinary approach to patient care.

- Pain can cause or aggravate problems related to other causes of suffering and the pain has to be controlled before the other problems can be addressed and treated. It is not possible to have meaningful discussions about psychosocial concerns if a patient has uncontrolled pain.
- Pain can be caused or aggravated by psychosocial concerns, which
 must be addressed before good pain control can be achieved. Where
 psychosocial or spiritual problems are causing or aggravating pain, no amount
 of well-prescribed analgesia will relieve the pain until the responsible
 psychosocial issues are identified and addressed.

Good pain control requires

- accurate and detailed assessment of each pain
- knowledge of the different types of pains
- a different therapeutic approach to chronic pain
- · knowledge of which treatment modalities to use
- knowledge of the actions, adverse effects and pharmacology of analgesics
- assessment and treatment of other aspects of suffering that may aggravate pain
 - o physical, psychological, social, cultural, spiritual
- assessment tools for different populations (paediatric, illiterate, etc)
- availability of opioid analgesics

TYPES OF PAIN

Definitions

- Pain is an unpleasant sensory and emotional experience associated with actual or potential tissue damage, or described in terms of such damage. Pain is always subjective. (International Association for the Study of Pain).
- Pain is what the patient says hurts. It is what the patient describes and not what others think it ought to be.

Acute and chronic pain (persistent pain)

- Acute pain
 - o is usually due to a definable acute injury or illness
 - o it has a definite onset and its duration is limited and predictable
 - it is accompanied by anxiety and clinical signs of sympathetic overactivity

 treatment is directed at the acute illness or injury causing pain, with or without the short term use of analgesics

Chronic pain (Persistent pain)

- o results from a chronic pathological process
- it has a gradual or ill-defined onset, continues unabated and may become progressively more severe
- is said to exist if the pain persists longer than the expected healing time for the injury or illness in question
- o the patient appears depressed and withdrawn
- there may be no sympathetic over- activity and patients are frequently labeled as "not looking like somebody in pain"
- requires treatment of the underlying disease where possible, regular use of analgesics to relieve pain and prevent recurrence, as well as psychosocial supportive care

Incident pain

- occurs only in certain circumstances, such as after a particular movement or on standing
- should be regarded as chronic pain but, as it is intermittent, it is better managed with local measures where possible

Breakthrough pain

 is a transitory exacerbation of pain that occurs on a background of otherwise stable and controlled pain

Nociceptive, neuropathic and psychogenic pain

Nociceptive pain

- nociceptive or physiological pain is produced by stimulation of specific sensory receptors or nociceptors in the tissues
- o the neural pathways involved are normal and intact
- somatic pain from the skin and superficial structures is usually well localised
- visceral pain is less well localised and there is often referred pain to cutaneous sites

Neuropathic pain

- is caused by peripheral or central nervous system injury
- pain occurs because the injured nerves react abnormally to stimuli or discharge spontaneously
- neuropathic pain is described as
 - o a burning stinging feeling (dysaesthesia)
 - a shooting pain like an electric shock (lancinating)

- an aching sensation often relieved by firmly squeezing or gripping the affected area
- is less responsive to non-opioid and opioid analgesics and may respond better to an adjuvant analgesics

Sympathetic pain

- is caused by damage to sympathetic nerves
- · is characterised by burning pain and increased sensitivity
- · there are signs of sympathetic dysfunction in the affected area
- vasomotor instability (erythema, pallor, oedema)
- · sudomotor (sweating) abnormalities
- trophic changes (thinning of the skin and atrophy of the subcutaneous tissue)
- is less sensitive to non-opioid and opioid analgesics
- often responds well to a regional sympathetic nerve block

Psychogenic pain

- is pain for which there is no physical basis in a patient who has other evidence of psychopathology
- in palliative care, patients are occasionally seen with psychosocial or existential distress in whom psychological factors and not the medical condition are judged to play the major role in the onset and maintenance of the pain, and for whom primarily psychological therapies may be appropriate
- however, all chronic physical pain is associated with some degree of psychological distress, for which the treatment should be primarily directed at the cause of the physical pain

Determination of the type of pain is an important part of assessment, as different types of pain respond to different treatments

<u>see Principles of Treatment</u>

CAUSES OF PAIN

In palliative care, there are many different possible causes of pain

Examples of the causes of pain in palliative care patients include pain

- · due to the primary disease e.g.
 - tumour infiltration
 - nerve compression
- associated with treatment e.g.
 - diagnostic and staging procedures

- o surgery
- due to general debilitating disease e.g.
 - o pressure sores
 - o constipation
- · unrelated to the primary disease or treatment e.g.
 - o arthritis
 - o ischaemic heart disease

Determination of the cause of pain is an important part of assessment, as therapy directed at the cause may greatly improve pain control see Assessment and Principles of Treatment

FACTORS THAT MODIFY THE PERCEPTION OF PAIN

Pain is always subjective and the perception of pain may be modified by problems or influences related to other physical or psychosocial causes of suffering

Pain caused by the disease or treatment is modified by these influences, making it either better or worse, resulting in the final clinical pain, which is what the patient says it is, and what has to be treated

Examples of factors that might aggravate pain

Pain severe or progressive pain

pain at multiple or an increasing number of sites

pain that causes significant limitation at activity

poor prior pain management

Other Symptoms insomnia or fatigue secondary to unrelieved pain

persistent cough or vomiting

other distressing symptoms

Psychological depression

anxiety

anger

Social Difficulties problems with interpersonal relationships

family problems

financial and legal problems

Cultural Issues culturally insensitive management

language barriers

Spiritual/Existential feelings of meaningless, guilt, regret

unresolved religious questions

Interaction of Pain and the Other Causes of Suffering

- pain has to be controlled before other problems can be addressed and treated
 - it is not possible to have meaningful discussions about psychosocial concerns if a patient has uncontrolled pain
- pain can be caused or aggravated by psychosocial concerns, which must be addressed before good pain control can be achieved
 - where psychosocial or spiritual problems are causing or aggravating pain, no amount of well-prescribed analgesia will relieve the pain until the responsible psychosocial issues are identified and addressed

PAIN ASSESSMENT

Clinical Assessment

Comprehensive clinical assessment is fundamental to successful treatment

- accept the patient's description
- pain is always subjective and patients' pain is what they say it is and not what others think it ought to be
- thorough assessment of the pain
- patients should be asked to describe their pain, in their own words
- this information is supplemented by specific questions to define the exact nature of the pain
- the site and radiation of the pain
- the type of pain
- the duration of the pain and whether it has changed
- whether there are precipitating, aggravating or relieving factors
- its impact on functional ability, mood and sleep
- the effect of previous medications
- what the pain means to the patient
- physical examination, including neurological assessment, should be recorded both in writing and pictorially

- further investigations should be limited to those likely to have a significant bearing on treatment decisions
- assess each pain
- · many patients have more than one pain and each pain requires assessment
- evaluate the extent of the patient's disease
- the underlying disease is the most frequent cause of pain, new or worsening pain requires the extent of the patient's disease be re-evaluated
- · assess other factors that may influence the pain
- physical, psychological, social, cultural, spiritual/existential
- reassess
- repeated reviews are necessary to both assess the effect of treatment and because the underlying disease is usually progressive

Pain measurement

- Pain is a subjective phenomenon and objective measurement does not always reflect the experience
- Pain rating scales may be useful
- to follow the course of a patient's pain
- · to assess the effect of treatment
- · may be seen by the patient as indicating concern about their pain

Simple techniques should be used. Complex questionnaires may be too demanding for palliative care patients and should be reserved for research.

Visual Analogue Scale

Mark on the line below how s	strong your pain is
No pain <	> Worst possible pain

Numerical Rating Scale

On a scale of 0 to 10, how strong is your pain? No pain = 0 1 2 3 4 5 6 7 8 9 10 = Worst possible pain

Verbal Descriptor Scale

Which word best describes your pain? None Mild Moderate Severe Excruciating

III. PAIN CON'T

GENERAL PRINCIPLES OF TREATMENT

Acute pain

- treatment of acute pain in palliative care is the same as for patients not requiring palliative care
- palliative care patients may recover more slowly and require analgesics for longer periods if their general condition is poor

Incident pain

- · occurs only in certain circumstances, such as after a particular movement or on standing
- where possible, it should be treated with local measures
- analgesics may be used if the pain is mild and the side effects of constant administration tolerable
- if the pain is severe, modification of the patient's activity may be preferable to taking strong opioid analysesics on a regular basis for pain that occurs infrequently

Chronic pain (Persistent pain)

- the aim of treatment is the prompt relief of pain and prevention of its recurrence in order to prevent or minimise the subsequent development of centrally-maintained CNS pain
- · the principles involved in the treatment of chronic pain are
 - o thorough assessment
 - o good communication reassurance about pain relief
 - o discourage acceptance of pain
 - o encourage patient participation
- · the treatment of chronic pain in palliative care is
 - o an integrated part of the interdisciplinary plan of total care
 - including management of psychosocial issues
 - o should be appropriate to the stage of the patient's disease
 - treatment for an ambulant patient will differ from one confined to be
 - o employs the appropriate modality or modalities
 - o must be consistent, not variable
 - avoid repeated changes of analgesics; titrate each drug to its optimal level
 - o requires continuity of care
 - o involves repeated reassessment
- the modalities of treatment available for chronic pain are
 - o treatment of the underlying disease
 - analgesics
 - o adjuvant analgesics
 - o neurostimulatory treatment
 - o anaesthetic, neurolytic and neurosurgical procedures
 - physiotherapy
 - psychological therapy
 - lifestyle modification
 - o treatment of psychosocial issues that cause or aggravate pain

PRINCIPLES OF USING ANALGESICS FOR CHRONIC PAIN

The use of analgesics for the treatment of acute pain is the same as for non-palliative care patients

The treatment of chronic pain that is often poorly managed and requires a different approach

CHOICE OF DRUG

The selection of which drug or drugs to use involves

- selecting a drug appropriate for the type of pain
- selecting a drug appropriate for the severity of pain
- using combinations of drugs, not combined preparations
- · following the analgesic ladder
- · using adjuvant analgesics
- · never using placebo

Drug strength

 as it is important that pain be controlled as quickly as possible, it is preferable to start with a strong analgesic and subsequently wean the patient to a weaker drug

Types of pain

• different pains respond to different analgesics:

Nociceptive pain

bone, soft tissue	mild, moderate	non-opioid (opioid if required)

severe opioid + non-opioid

visceral mild non-opioid (opioid if required)

moderate, severe opioid ± non-opioid

Neuropathic pain

nerve compression $corticosteroid \pm opioid$

nerve infiltration, damage antidepressant or anticonvulsant

or oral local anaesthetic drug or NMDA receptor antagonist

sympathetic type pain sympathetic nerve block

Other Pain

raised intracranial pressure corticosteroid

muscle spasm muscle relaxant

Drug Combinations

- when prescribing more than one drug, the different drugs should be given independently and compound preparations avoided
- if it is necessary to escalate the dose of one of the drugs in a combined preparation, the dose of the second will also be increased and may cause unwanted toxicity

The analgesic ladder

- if the prescribed drugs do not produce adequate analgesia, treatment is escalated in an orderly manner
 - from non-opioid to weak opioid to strong opioid, as illustrated in the World Health Organization's "Analgesic Ladder"
- non-opioid analgesic should be continued when opioid drugs are commenced, as their action can be complementary and allow lesser doses of opioids to be used
- adjuvant analgesics should be used whenever indicated

WHO Analgesic Ladder

		Analgesics	Drug of choice	Alternatives
Step 1	Pain	non-opioid ± adjuvant	NSAID	paracetamol aspirin
Step 2	Pain persists or increases	weak opioid ± non-opioid ± adjuvant	codeine	oxycodone tramadol
Step 3	Pain persists or increases	strong opioid ± non-opioid ± adjuvant	morphine	hydromorphone oxycodone fentanyl

Placebo

- there is no place for the use of placebo medications in the treatment of chronic pain in palliative care
- it is unethical and will lead to distrust if discovered by the patient
- whether or not a response occurs provides no useful information

DRUG ADMINISTRATION

The principles of analgesic administration for chronic pain are

- give in adequate dosage
- titrate the dose for each individual patient
- schedule administration according to drug pharmacology
- administer on a strict schedule to prevent pain, not PRN
- give written instructions for patients on multiple drugs

- give instructions for treatment of breakthrough pain
- warn of, and give treatment to prevent, adverse effects
- keep the analgesic program as simple as possible
- use the oral route wherever possible
 - review and reassess

Dose

- · the selected drug or drugs are prescribed in a dose adequate to relieve the pain
- the dose needs to be titrated against the pain for each individual patient

Schedule

• drugs are given according to a strict schedule, determined by the duration of drug action, in order to prevent the recurrence of pain

Not PRN

• drugs given on an "as required" basis or pro re nata (PRN) usually results in poor pain control

Instructions for breakthrough pain

- it is essential to give instructions for the treatment of breakthrough pain
 - o it is reassuring
 - o avoids the despair that occurs if an analgesic program is ineffective
 - o helps the patient feel in control

Keep it simple

- avoid multiple analgesics
- it is usually possible to simplify the analgesic program, even for patients with severe pain

Oral

• Oral medication should only be abandoned if the patient is unable to take or retain them

Reassessment

 continued reassessment is necessary and a number of dose modifications are often needed before optimal pain control is achieved

A variety of interventions to improve pain control have been employed. (8)

NON-OPIOID ANALGESICS

(1, 2, 3, 4, 6, 7, 9, 10)

NSAIDs

Paracetamol (Acetaminophen)

NSAIDs

The **non-steroidal anti-inflammatory drugs (NSAIDs)** are a structurally diverse group of medications that share the ability to inhibit prostaglandin synthetase or cyclo-oxygenase (COX).

NSAIDs

```
Non-selective COX-1 and COX-2 inhibitors
salicylates
aspirin, diflunisal, choline magnesium trisalicylate
traditional NSAIDs
acetates: diclofenac, indomethacin, sulindac
propionates: flurbiprofen, ibuprofen, ketoprofen, ketorolac, naproxen
oxicams: piroxicam, tenoxicam, meloxicam
meloxicam is slightly COX-2 selective
Highly selective COX-2 inhibitors (COX-2 specific inhibitors; coxibs)
celecoxib, rofecoxib, valdecoxib

Centrally acting COX inhibitor
paracetamol
```

COX inhibition

There are two isoforms of the COX enzyme, COX-1 and COX-2

COX-1

- is constitutively expressed in most normal tissues
- produces the prostaglandins necessary for protective and regulatory functions
 - o maintenance of the gastric mucosa
 - normal renal function
 - platelet aggregation
- inhibition of COX-1 produces the clinically troublesome adverse effects including gastrointestinal toxicity

COX-2

- is induced by inflammation
- produces the prostaglandins involved in the generation of pain
- is also constitutively expressed in the kidney, brain and premenopausal uterus
- inhibition of COX-2 is responsible for the analgesic and anti-inflammatory properties of NSAIDs

Non-selective COX inhibitors

e.g. aspirin, traditional NSAIDs

- are effective analgesics in cancer pain
- have analgesic efficacy equivalent to 5-10mg of intramuscular morphine
- have a ceiling effect to their analgesic action, but not to their adverse effects
- show considerable variation in both efficacy and toxicity between individual patients
- the dose needs to be individually titrated and in all cases the lowest effective dose should be used
- treatment for several days is required to achieve stable plasma levels and maximal effect

General features of non-selective COX inhibitors

Actions anti-inflammatory, analgesic, antipyretic

Mechanism inhibition of COX-1 and COX-2

antipyretic action is central

Pharmacology well absorbed PO, some effective PR

considerable pharmacokinetic variation between different drugs

metabolized by a variety of pathways, mainly in the liver

Indications mild to moderate pain

disease-related fever

Contraindications history of hypersensitivity or allergy to NSAIDs or aspirin

Cautions patients with history of peptic ulcer, erosions

thrombocytopenia or other bleeding diathesis

patients with asthma, nasal polyps, allergic predisposition

Consider dose reduction hypoalbuminaemia

severe hepatic or renal dysfunction

elderly or frail patients

Adverse effects

gastrointestinal dyspepsia, erosion, ulceration, bleeding, perforation

constipation

haemostasis inhibition of platelet aggregation (not reversible with aspirin)

renal fluid retention, renal impairment

hepatic elevated enzyme levels

neurological headache, dizziness

skin rashes

salicylism (aspirin) nausea, vomiting, dizziness, headaches, tinnitus, deafness

hypersensitivity allergic reactions

Gastrointestinal toxicity

- occurs commonly with non-selective COX inhibitors, particularly in palliative care patients
- the risk is increased with
 - advanced age (linear increase in risk)
 - history of peptic ulcer
 - higher doses of NSAID, more than one NSAID
 - o serious systemic disorder
 - o co-prescription of
 - corticosteroids
 - anticoagulants
 - aspirin (including low dose aspirin)
- the risk is reduced by proton pump inhibitors (e.g. omeprazole, lansoprazole)
 - o antacids and sucralfate may reduce symptoms but do not protect against ulceration
 - H2-receptor antagonists protect the duodenal and oesophageal mucosa but not the stomach
 - o misoprostol is effective but causes diarrhoea
- palliative care patients requiring continued therapy with NSAIDs should receive a proton pump inhibitor such as omeprazole or lansoprazole, which are superior to H2-receptor antagonists and misoprostol in preventing and healing NSAID-induced lesions and are better tolerated

Selective COX-2 inhibitors (coxibs)

e.g. celecoxib, rofecoxib

- were developed to provide the analgesic and anti-inflammatory properties of non-selective NSAIDs, whilst minimizing adverse events mediated by COX-1
- have analgesic activity equivalent to traditional non-selective NSAIDs, both for acute pain and for the chronic pain associated with osteoarthritis and rheumatoid arthritis
- · are associated with significantly less gastrointestinal toxicity
- have no effect on platelet function
- have the same renal effects as non-selective NSAIDs
 - o patients with renal impairment, hypertension, or hypovolaemia are at increased risk
- can cause acute neuropsychiatric events including confusion, somnolence, hallucinations
- do not induce bronchospasm in patients with aspirin- or NSAID-induced asthma

Selective COX-2 inhibitors: celecoxib and rofecoxib

Actions anti-inflammatory, analgesic, antipyretic

Mechanism inhibition of COX-2

Pharmacology well absorbed PO

plasma half-life: celecoxib 11h, rofecoxib 17h

metabolized in the liver

Indications mild/moderate pain in patients unable to take non-selective NSAID

thrombocytopenia or other bleeding diathesis

Dose celecoxib 100-200mg q12h; rofecoxib 12.5-25mg daily

Duration of action celecoxib: 12-24h; rofecoxib > 24h

Contraindications celecoxib: urticaria or angioedema with NSAIDs or aspirin

celecoxib: allergy to sulfonamides

Cautions patients with history of peptic ulcer, erosions

renal impairment, hypertension, hypovolaemia

cardiac failure

severe hepatic or renal dysfunction

elderly or frail patients

Adverse effects

gastrointestinal nausea, dyspepsia

erosion, ulceration, bleeding, perforation

renal renal impairment, fluid retention, oedema

hepatic elevated enzyme levels

neurological headache, dizziness

skin rashes

hypersensitivity allergic reactions

Paracetamol (Acetaminophen)

- does not cause gastric irritation or bleeding
- does not affect platelet function or cause gastric irritation or bleeding
- can cause hepatic toxicity, possibly more likely with
 - o reduced glutathione stores e.g. poor nutritional status, the elderly
 - o regular use of alcohol

Paracetamol (Acetaminophen)

Actions analgesic, antipyretic

Mechanism of action inhibition of prostaglandin synthesis in the CNS

Pharmacology well absorbed from small intestine, rectum

plasma half-life 2-4h

conjugated in liver, excreted in urine

Indications mild to moderate skeletal and soft tissue pain

fever

hypersensitivity to aspirin, NSAIDs

peptic ulceration or gastric intolerance of aspirin, NSAIDs

significant thrombocytopenia or bleeding diathesis

Dose 500-1000 mg q4-6h (maximum 4g/d)

Duration of action 4-6h

Contraindications allergy to paracetamol (rare)

Cautions severe hepatic dysfunction

elderly or frail patients

alcoholic liver disease

Adverse effects allergic rash (rare)

hepatic dysfunction

constipation (mild)

Drug interactions potentiates warfarin

Preparations tablets, capsules, suspension, suppositories

III. PAIN CON'T

OPIOID ANALGESICS

(1, 2, 3, 4, 6, 7, 9, 10)

The opioid analgesics are defined as drugs having morphine-like effects and act by interaction with the opioid receptors.

Classification

- · Weak opioids—opioids for mild to moderate pain
 - o codeine
 - o tramadol
- . Strong opioids—opioids for moderate and severe pain
 - o buprenorphine
 - o fentanyl
 - o diamorphine
 - hydromorphone
 - o methadone
 - o morphine
 - oxycodone
 - o pethidine

Equianalgesic doses of opioids

- The equianalgesic doses of different opioid drugs
- · are only approximations
- do not take into account individual patient variation (differences in absorption, metabolism, excretion) some are derived from studies of single doses rather than continued therapy
- · Each drug must be titrated against pain and side effects for each individual patient

Approximate equianalgesic doses of opioid analgesics

	Parenteral	Oral
Morphine	10 mg	30 mg
Buprenorphine	0.3 mg	0.4 mg SL
Codeine	-	240 mg
Diamorphine	4-5mg	20-30mg
Hydromorphone	1.5 mg	7.5 mg
Methadone	10 mg	20 mg
Oxycodone	-	20 mg

Pethidine 75 mg 300 mg

Tramadol 80 mg 120 mg

Opioid substitution: switching from one drug to another

With the increasing availability of a range of opioid drugs, it has become common practice for patients with inadequate analgesia or troublesome adverse effects to be tried on a different drug. Substitution of one opioid drug for another has been termed **opioid switching** or **opioid rotation**. Opioid substitution results in improved analgesia and fewer adverse effects for many patients.

Guidelines for opioid substitution

Calculate the equianalgesic dose of the new drug

Decrease the dose by 25-50% to accommodate cross-tolerance

reduce by 75% if changing to methadone

do not reduce if changing to TD fentanyl

initial opioid needs to be continued for 12-48h if changing to TD fentanyl

Adjust according to prior pain control

reduce less if patient in severe pain

Adjust according to the patient's general condition

reduce more if elderly, frail, or significant organ dysfunction

Give 50-100% of the 4-hourly dose for breakthrough pain

Reassess and titrate new opioid against pain and side effects

Opioid overdosage

Severe sedation or narcosis, with loss of consciousness and respiratory depression, can occur

- if the dose prescribed is too large
- if the patient takes an intentional overdose (likely to be more severe)

The risk factors for narcosis are

- elderly or frail patients
- renal impairment
- other causes of CNS depression, including other medications
- opioid naive patients
- patients with only mild pain
- patients whose pain has been acutely relieved by a procedure such as a nerve block

Opioid overdosage is very uncommon in palliative care if appropriate care is taken with selecting and titrating the dose.

Assessment of narcosis

- respiration rate (RR)
- oxygen saturation: SaO2. Is the patient cyanosed?
- is the patient rousable?
- has time of peak plasma level of last dose of opioid been reached?

Treatment of narcosis

- General
 - stimulate the patient
 - o give oxygen
 - stop/withhold further opioid therapy
- RR < 5/min
 - o naloxone 0.4mg IV or SC stat
- RR 5-7/min ± barely rousable/unconscious ± SaO2 < 90%
 - o naloxone 0.4mg in 10ml saline: 1-2ml IV or SC, q2-3min
 - o the minimum effective dose of naloxone should be used
 - the aim is to improve respiratory function without causing recurrent pain or physical withdrawal
- RR = 8/min + rousable + SaO2 = 90%
 - Careful observation

Adverse effects of opioids

- Gastrointestinal
 - nausea and vomiting
 - usually settles after several days
 - give antiemetic, either regularly or PRN
 - if persistent, change to a different opioid
 - constipation
 - laxatives and dietary advice are required for the duration of opioid therapy
 - o gastric stasis
 - metoclopramide or cisapride
- . CNS
 - o narcosis see Overdosage
 - sedation
 - may resolve after a few days
 - reduce opioid dose
 - withhold less necessary drugs that are CNS depressants
 - consider an alternative opioid
 - psychotomimetic (agitated delirium)
 - reduce opioid dose
 - haloperidol
 - consider an alternative opioid
 - myoclonus
 - reduce opioid dose
 - benzodiazepine
- Respiratory
 - o severe respiratory depression see Overdosage

- o mild/moderate respiratory depression
 - reduce opioid dose
 - withhold less necessary drugs that are CNS depressants
 - consider an alternative opioid
- suppression of cough reflex
- Note: the respiratory effects may not be seen as adverse if opioids are being used to treat cough or breathlessness

Tolerance, physical dependence and psychological dependence

Tolerance

- is a normal physiological response to chronic opioid therapy in which increasing doses are required to produce the same effect
- is uncommon in cancer patients with chronic pain in whom the need for increasing doses usually relates to disease progression
- is not a reason for "saving up" the use of opioid drugs until the terminal phase
- patients concerned that there will be "nothing left" for more severe pain should be reassured
 that the therapeutic range of morphine is very broad and that there is adequate scope to treat
 more severe pain if it occurs

Physical Dependence

- is a normal physiological response to chronic opioid therapy which causes withdrawal symptoms if the drug is abruptly stopped or an antagonist administered
- patients whose pain has been relieved by surgical or other means should have their opioid reduced by about 25% per day
- patients should be reassured that physical dependence does not prevent withdrawal of the medication if their pain has been relieved by other means, providing it is weaned slowly

Psychological dependence and addiction

- is a pathological psychological condition characterised by abnormal behavioural and other responses that always include a compulsion to take the drug to experience its psychic effects
- is rare in patients with cancer and pain even if it is anticipated that pain will be relieved by other means, opioids should not be withheld because of any concerns related to psychological dependence, although patients with a history of drug abuse should be managed carefully

In palliative care, concerns about tolerance, physical dependence or psychological dependence are never a reason to withhold opioid therapy if it is clinically indicated

The Underutilisation of Opioids: Opiophobia

1. Professional opiophobia

Reasons why doctors underprescribe and nurses underadminister opioid drugs

belief that morphine hastens death

- morphine may be used for months or years and, correctly administered, is compatible with a normal lifestyle
- o used properly, it does not hasten death
- · fear of respiratory depression

o used properly, morphine should not cause respiratory depression, although care must be taken with patients who are at risk of respiratory depression for other reasons

"Morphine doesn't work"

- o morphine will be ineffective in controlling pain if
 - it is incorrectly administered
 - it is used for morphine-insensitive pain
 - matters of psychosocial concern have not been addressed

Morphine causes unacceptable side effects

- o side effects should not be severe
- respiratory depression is uncommon except in opioid naïve patients commenced on parenteral therapy
- constipation occurs inevitably and requires explanation and advice about diet and laxative therapy
- o somnolence and nausea usually improve after several days

· Fear of tolerance, physical dependence, psychological dependence

 concerns about these are never a reason to delay treatment with an opioid if it is clinically indicated

2. Patient opiophobia

Patients and their families may express concerns about opioid therapy, including

"That means I'm going to die soon"

 requires explanation that morphine can be used for months or years and is entirely compatible with a normal lifestyle

"Nothing left for when the pain gets worse"

 requires reassurance that the therapeutic range of morphine is sufficient to allow escalation of the dose if necessary

. "I'll become an addict"

requires explanation and reassurance about physical and psychological dependence

"The morphine didn't work"

- o morphine may not relieve pain if
 - the dose was too low
 - it was given too infrequently
 - there were no instructions for breakthrough pain
 - it was given for opioid-insensitive pain
 - matters of psychosocial concern have not been addressed

"I couldn't take the morphine"

- o unacceptable side effects should not occur
- patients should be warned about somnolence and nausea and reassured that they are likely to improve after several days
- constipation occurs inevitably and requires explanation and advice about diet and laxative therapy.

"I'm allergic to morphine"

- usually relates to nausea or vomiting that occurred when parenteral morphine was given to an opioid naïve patient for acute pain
- o immunological allergy to morphine is rare

Given explanation, reassurance and the cover of antiemetics, most patients can be started on morphine without ill effect.

WEAK OPIOID DRUGS

(1, 2, 3, 4, 6, 7, 9, 10)

Weak opioid drugs-drugs for mild to moderate pain

codeine

tramadol

Codeine

Pharmacology active PO

metabolised in liver, excreted in urine

duration of action 4-6h

7% Caucasians lack the enzyme (CYP2D6)

necessary to convert to active form

Indications mild to moderate pain

diarrhoea

cough

Cautions severe hepatic or renal impairment

other causes of CNS depression

Adverse effects qualitatively similar to morphine - generally mild,

more constipating

see **Adverse Effects** for management

Dose analgesic 30-60mg PO q4-6h

antitussive 8-20mg PO q4-6h

Dose equivalence see **Equianalgesic Dose** table

Preparations tablets, syrup

combined preparations with aspirin or paracetamol

N.B. Some combined preparations contain

subtherapeutic amounts of codeine

Tramadol

Pharmacology active PO, PR, SC, IM, IV

actions: opioid agonist, monoamine re-uptake inhibitor

metabolised in liver, excreted in the urine

duration of action 4-6h

7% Caucasians lack the enzyme (CYP2D6) necessary to convert to active

form

Indications mild and moderate pain

Contraindication patients taking MAOIs

Cautions severe hepatic or renal impairment

epilepsy, drugs that reduce seizure threshold e.g. TCAs, SSRIs

SSRIs, TCAs: risk of serotonin syndrome

Adverse effects qualitatively similar to morphine - generally mild, less constipating

see **Adverse Effects** for management

neuropsychiatric syndromes

serotonin syndrome

Dose 50-100mg PO q4-6h or 100-200mg SR PO q12h, and titrate against

effect and toxicity

60-120mg/24h CSCI and titrate against effect and toxicity

Dose equivalence see **Equianalgesic Dose** table

Preparations capsules, SR tablets, injection

STRONG OPIOID DRUGS

(<u>1</u>, <u>2</u>, <u>3</u>, <u>4</u>, <u>6</u>, <u>7</u>, <u>9</u>,

<u>10</u>)

Strong opioids—opioids for severe pain

- buprenorphine
- diamorphine
- fentanyl
- hydromorphone
- methadone
- morphine
- oxycodone
- pethidine (meperidine)

Buprenorphine

Pharmacology active SL, IM, TD

metabolised in the liver, excreted in bile and urine

duration of action 6-9h

require larger doses of naloxone to treat respiratory depression

Indications moderate and severe pain

Cautions patients on opioid agonists

- buprenorphine can act as an antagonist and may produce withdrawal

patients on other opioids

- another opioid agonist will have no or delayed effect

Adverse effects qualitatively similar to morphine

see Adverse Effects for management

Dose 0.3-0.6mg IM or 0.4-0.8mg SL, q6-8h

Dose equivalence see **Equianalgesic Dose** table

Preparations injections, sublingual tablets, transdermal patch

Diamorphine (heroin)

Pharmacology active PO, PR, SC, IM, IV, IN, spinal and topical

metabolized to 6-acetylmorphine and morphine

plasma half-life: several minutes

duration of action: 3-4h

Indications moderate and severe pain

Cautions severe hepatic or renal dysfunction

other causes of severe respiratory impairment

other causes of CNS depression

Adverse effects similar to morphine

see Adverse Effects for management

Dose equivalence see **Equianalgesic Dose** table

Preparations tablet, liquid, injection

Fentanyl

Parenteral Fentanyl

Pharmacology active IV, IM, SC and spinal

metabolised in liver, excreted in the urine

duration of action 0.5-1h (IV), 1-3h (SC)

Indications moderate and severe pain

single dose painful procedures, prevention of incident pain

- CSCI inadequate pain relief with other opioid

unacceptable toxicity with other opioid

renal failure

Adverse effects qualitatively similar to morphine

see **Adverse Effects** for management

Dose no standard dose for chronic pain

titrated against pain and adverse effects for each individual patient

Dose equivalence see **Equianalgesic Dose** table

Transdermal Fentanyl

Pharmacology well absorbed: bioavailability 92%

onset of action 12-24h

continued action after patch removal 12-24h

duration of action 72h (<72h in 24% of patients)

Indications intolerable adverse effects of other opioid

unable to take or retain oral analgesia

renal failure

Contraindications severe pain requiring rapid analgesic titration

pain unresponsive to morphine or other μ -agonist

Caution patients with disease-related fever

significant pulmonary disease

other causes of CNS depression

old age, debility

Warnings do not heat the patch area

dispose of used patches with care

Adverse effects qualitatively similar to morphine—less constipation, sedation

skin reactions

Dose patient on strong opioids

- calculate previous 24h dose as mg/d of PO morphine

- divide by 3 and choose nearest patch strength in μg/h

patient on weak opioid or opioid naïve

- start with 25µg/h patch

Titration each 72h, according to response

pain at 48-72h, not relieved by higher dose: change patch q48h

Preparation 25, 50, 75 and 100µg/h fentanyl patches

(containing 2.5, 5, 7.5 and 10mg fentanyl)

Oral transmucosal fentanyl citrate (OTFC)

• is a 'lozenge on a stick' containing fentanyl in a hard sweet matrix

- used by placing it against the mucosa of one cheek and constantly moving it up and down, and changed at intervals from one cheek to the other
- provided safe and effective treatment for breakthrough pain in 75% of patients studied in trials
- 25% of patients either do not achieve analgesia with the highest dose (1600μg) or suffer unacceptable adverse effects
- there is no relationship between the effective dose of OTFC for breakthrough pain and the dose of opioid being used for background analgesia
 - o each patient has to be individually titrated to find the appropriate OTFC dose
- OTFC lozenges are expensive.

Oral transmucosal fentanyl citrate (OTFC)

Pharmacology bioavailability 50%: half by transmucosal, half by slower GI

absorption

onset of action 5-10 min

plasma half-life 6h

duration of action 1-3.5h, longer with higher doses

Indication breakthrough pain

Adverse effects somnolence, dizziness, nausea

Dose Titration OTFC dose not predicted by opioid dose for background pain

1. Patient uses one 200µg lozenge over 15 min

± second 200µg lozenge after 15 min if analgesia inadequate

no more than two lozenges per episode of pain

2. Repeat this dose for 2-3 episodes of pain

effective dose is pain relief with a single lozenge

3. If ineffective, increase to next strength lozenge

repeat steps 1 to 3

Preparations 200, 400, 600, 800, 1200, and 1600µg lozenges

Hydromorphone (11,12)

Pharmacology active PO, PR, SC, IM, IV and spinal

metabolised in the liver, excreted in urine

duration of action 4h

Indications moderate and severe pain

morphine intolerance

Cautions renal impairment

severe hepatic dysfunction

significant pulmonary disease

other causes of CNS depression

old age, debility

Adverse effects similar to morphine

see Adverse Effects for management

Dose no standard dose for chronic pain

titrated against pain and adverse effects for each individual patient

Dose equivalence see **Equianalgesic Dose** table

Preparations tablets, liquid, suppositories, injection

Methadone

Pharmacology active PO, PR, IM, IV, SC

actions: μ opioid agonist, NMDA receptor antagonist

metabolized in liver, mainly excreted by faecal route

duration of action: 4-6h initially, 8-12h with continued use

Indications moderate and severe pain

pain poorly responsive to morphine, especially neuropathic pain

intolerance to morphine or other opioid

renal failure

Cautions frail, elderly, confused

significant hepatic or renal impairment

significant pulmonary disease

other causes of CNS depression

Adverse effects similar to morphine

cumulative toxicity heralded by sedation

see **Adverse Effects** for management

Dose calculated from previous therapy, adjusted for effect and toxicity

frequency: q4-6h for first 1-3d, then q6-12h

Dose equivalence see **Equianalgesic Dose** table

Preparations tablet, mixture, injection

N.B.

Methadone has cumulative toxicity due to the progressive prolongation of the half-life with continued therapy.

It is necessary to reduce both the dose and the frequency after the first few days. Failure to do this will result in narcosis.

Morphine

Pharmacology active PO, PR, SC, IM, IV, spinal and topical

metabolised in the liver, excreted in urine

duration of action 3-4h; longer with renal impairment

Indications moderate and severe pain

dyspnoea

cough

diarrhoea

Contraindications genuine morphine intolerance

Cautions renal impairment

severe hepatic dysfunction

significant pulmonary disease

other causes of CNS depression

old age, debility

Adverse effects

Neuropsychological sedation, drowsiness, confusion, narcosis, coma

dysphoria and psychotomimetic effects

myoclonus

miosis

Gastrointestinal dry mouthnausea, vomiting, delayed gastric emptying, constipation

biliary colic

respiratory depression

Respiratory suppression of cough reflex

postural hypotension

Cardiovascular postural hypotension

Urological urgency, retention

Dermatological flushing, sweating, pruritus

see **Adverse Effects** for management

Dose no standard dose for chronic pain

titrated against pain and adverse effects for each individual patient

Dose equivalence see **Equianalgesic Dose** table

Preparations IR and SR mixture, SR tablets and capsules, injection

Oxycodone

Pharmacology active PO, PR, SC, IM, IV

metabolized in liver, excreted in urine

7% Caucasians lack the enzyme (CYP2D6) necessary to convert to active

form

duration of action 4-6h (IR), 12h (SR)

Indications mild to moderate and severe pain

Cautions renal impairment

severe hepatic dysfunction

significant pulmonary disease

other causes of CNS depression

old age, debility

Adverse effects qualitatively similar to morphine

see Adverse Effects for management

Dose calculated from previous therapy, adjusted for effect and toxicity

Dose equivalence see **Equianalgesic Dose** table

Preparations IR and SR tablets, injection

Pethidine (Meperidine)

Pharmacology active IV, IM, PO, PR

metabolised in the liver, excreted in the urine

duration of action 2-3h

Indications moderate and severe pain

NOT RECOMMENDED for chronic usage in palliative care

Contraindications patients taking MAOIs

renal impairment

Adverse effects qualitatively similar to morphine but less constipating, not antitussive

see Adverse Effects for management

CNS toxicity due to norpethidine accumulation

- agitation, tremor, sedation, narcosis

- myoclonus, seizures (unresponsive to naloxone)

Dose NOT RECOMMENDED for chronic usage in palliative care

Dose equivalence see **Equianalgesic Dose** table

Preparations IR tablet, injection

N.B.

Pethidine is NOT RECOMMENDED for chronic pain because of its neurotoxicity and shorter duration of action

III. PAIN CON'T

The adjuvant analgesics

- are not analgesics in the true pharmacological sense, but may contribute significantly to pain relief when used either alone or in combination with other analgesics
- they are of particular use for opioid-insensitive pain, particularly neuropathic pain
- include
 - o corticosteroids
 - o drugs for neuropathic pain
 - antidepressants
 - anticonvulsants
 - oral local anaesthetic agents
 - NMDA receptor antagonists
 - o drugs for bone pain
 - bisphosphonates
 - anxiolytic
 - psychotropic drugs
 - neuroleptics
 - anxiolytics
 - psychostimulants
 - cannabinoids
 - o muscle relaxants
 - benzodiazepines
 - baclofen
 - dantrolene

Corticosteroids

Corticosteroids

Actions peripheral: anti-inflammatory

central, as evidenced by the effect on mood and appetite

Mechanism of action peripheral: nonselective COX inhibition

central: mechanism not defined

Indications neurological

- raised intracranial pressure

- spinal cord compression

- nerve compression or infiltration

bone metastases

capsular stretching

- liver metastases, other visceral metastases

soft tissue infiltration

- head and neck tumors, abdominal and pelvic tumors

Contraindications no absolute contraindications

side effects are often dose limiting

Cautions peptic ulceration

diabetes mellitus

cardiac failure and oedematous states

Adverse effects

General Cushingoid facies: moon face, hirsuitism

body habitus: truncal obesity, interscapular hump

Gastrointestinal gastric erosion, ulceration, bleeding

increased appetite, weight gain

Metabolic hyperglycemia, aggravation of diabetes

sodium and fluid retention

hypokalaemia and muscle weakness

Cardiovascular oedema, hypertension

thrombosis

Musculoskeletal improved muscle strength (subjective)

proximal myopathy

Infection predisposition to infection

Psychological euphoria, improved sense of well-being

emotional lability, agitation, dysphoria

depression, steroid psychosis

Dermatological impaired wound healing

easy bruising, purpura

Neurological insomnia

Preparations	hydrocortisone	prednisolone	dexamethasone
Dose equivalence (Glucocorticoid effect)	100mg	25mg	4mg
Mineralocorticoid effect	++	+	-

Drugs for Neuropathic Pain

1. Antidepressants

(13, 14, 15)

- antidepressants are indicated for the treatment of neuropathic pain
- they act by blocking the presynaptic re-uptake of serotonin and noradrenaline in the central nervous system, enhancing the action of the descending inhibitory pathways
- the character of the neuropathic pain does not determine whether a response will occur
 - there is no evidence that antidepressants are more effective than other agents for the burning dysaesthetic type of pain
- compared to the antidepressant action, the analgesic effect of tricyclic antidepressants (TCAs)
 - o is usually seen with lower doses (e.g. 50-100 mg/d amitriptyline)
 - o occurs more quickly (response should be evident within 5-7 days)
 - o has been documented in patients with no features of depression
- a TCA (amitriptyline, imipramine or doxepin) is started at a dose of 10-25 mg at night, increasing to 50-100 mg
- if there is no benefit in one week the drug is stopped
- there is considerable individual variation in patients' responses to different drugs, and a trial
 of a second antidepressant is sometimes successful
- TCAs are probably more effective at relieving neuropathic pain than the newer antidepressants, but have double the rate of adverse effects
 - drugs that affect both serotonin and noradrenaline re-uptake [serotonin noradrenaline re-uptake inhibitors (SNRIs, e.g. venlafaxine) and noradrenergic and specific serotoninergic antidepressants (NSSAs, e.g. mirtazepine)] are likely to have greater analgesic effect than selective serotonin re-uptake inhibitors (SSRIs)
- The adverse effects of TCAs (sedation, anticholinergic effects and postural hypotension) are usually mild when used in low dose for neuropathic pain, but may nevertheless be troublesome in palliative care patients.

2. Anticonvulsants

(15, 16, 17)

- anticonvulsants are indicated for the treatment of neuropathic pain
- they act by suppressing the spontaneous neuronal discharges and neuronal hyperexcitability that occur after nerve injury and may also have a central effect
 - o the character of the neuropathic pain does not determine whether a response will occur
- there is no evidence that anticonvulsants are more effective than other agents for the shooting lancinating type of pain
- drugs used frequently are gabapentin, carbamazepine, sodium valproate and clonazepam.
 - gabapentin may be no more effective than carbamazepine, but causes less troublesome adverse effects (17)
- the dose and the initial titration are the same as for anticonvulsant therapy
 - o there is no data relating blood levels and analgesic activity
- the dose is increased step-wise until a response occurs or toxicity ensues
 - serum levels can be checked and the drug should be stopped if there is no response when the levels are in the therapeutic range for anticonvulsant therapy
- there is considerable lack of cross-resistance between the drugs and treatment with a second anticonvulsant is sometimes successful
- the adverse effects of the different anticonvulsants are similar, with gastric intolerance (nausea and vomiting), sedation, ataxia, dizziness and confusion being the most common

 carbamazepine can cause leucopenia and the white blood cell count should be checked periodically.

3. Local anaesthetic agents (18)

- are indicated for neuropathic pain refractory to other therapy
- act by neuronal membrane stabilization by sodium channel blockade, probably at both peripheral and central sites
- **lignocaine** infusions (2-5mg/kg IV over 30 minutes) can be used to predict whether there will be a response to mexiletine
 - lignocaine infusions (IV or SC) may be useful for rapidly controlling severe neuropathic pain
- mexiletine is the preferred oral local anaesthetic-type drug
 - it is commenced at a dose of 150 mg/d and increased by 150mg each few days up to a maximum of 750 mg/d
 - o the dose and blood levels of mexiletine do not correlate with pain relief
 - it must be given with particular caution to patients with ischaemic heart disease or cardiac arrhythmias
 - o the **adverse effects** of mexiletine include dizziness, sedation, tremor, and unsteady gait; nausea and indigestion can be lessened by taking the medication with food.

4. NMDA receptor antagonists

(19)

- are indicated for the treatment of refractory neuropathic pain and other severe pain when opioid tolerance is a concern
 - the NMDA (N-methyl D-aspartate) receptors in the spinal cord are activated by continuing stimuli in nociceptive afferents, leading to sensitization of the dorsal horn cells and causing perpetuation of the sensation of pain and reduced opioid sensitivity
 - this mechanism is believed to underlie opioid tolerance and the relative opioidinsensitivity of neuropathic pain
 - the NMDA receptor antagonists ketamine, dextromethorphan and methadone inhibit this process
- **ketamine** is a dissociative anaesthetic used for short surgical procedures
 - subanaesthetic doses has been shown to improve the effect of opioids in relieving refractory neuropathic pain or other opioid-insensitive pain
 - o it can be given PO, IV or by CSCI
 - o is usually started at 100mg/d and titrated up by 100mg/d, up to 500mg/d
 - 2 RCTs of ketamine therapy in patients with advanced cancer have been assessed in a Cochrane review (19)
 - adverse effects: psychotomimetic effects, may be treated or prevented by the coadministration of a benzodiazepine or haloperidol
 - more likely if titration too rapid, liver metabolism is slowed or the oral route is used

Adjuvant drugs for bone pain

1. Bisphosphonates

- are chemical analogues of pyrophosphate that inhibit bone resorption
- are effective in the treatment of hypercalcaemia associated with cancer
- · have been shown to reduce pain and skeletal events in patients with bone metastases
- act by inhibiting osteoclast activity, blocking mineral dissolution
- the more recently introduced nitrogen-containing bisphosphonates (pamidronate, ibandronate, olpadronate and zoledronic acid) are more potent than the non-nitrogencontaining compounds etidronate and clodronate
- systematic and Cochrane reviews of the RCTs of bisphosphonate therapy indicate that there is improvement in the pain related to bone disease that occurs over time (9, 10, 20, 21, 22)
- there is insufficient evidence to recommend bisphosphonates for immediate analgesia, but they should be considered if analgesics and radiotherapy provide inadequate control

2. Radioisotope

- the systemic administration of the bone-seeking radioisotope, **89-Strontium**, is effective in controlling pain related to bone metastases
- it is preferentially taken up in osteoblastic metastases, which show increased uptake on bone scan
- improved pain control is reported in up to 80% of patients
- responses are usually evident 2 to 3 weeks after treatment and last for 3 to 6 months
- compared to local radiotherapy, strontium reduces the number of new pain sites for about four months following treatment
- the main adverse effect is myelosuppression, which is usually mild and not clinically significant
 - o there must be adequate haematological reserve before treatment is given
- about 10% of patients suffer a transient flare reaction with increased pain following treatment, which settles spontaneously

Psychotropic drugs

1. Neuroleptics

- standard neuroleptic drugs (e.g. chlorpromazine, haloperidol) have no analgesic action
 - o aid treatment of pain by reducing anxiety and improving night-time sedation
 - same benefits can be obtained with a benzodiazepine, without the potentially troublesome anticholinergic and extrapyramidal side effects, unless the neuroleptic drugs are specifically indicated for the treatment of delirium or nausea
- levomepromazine (methotrimeprazine) has been shown to have analgesic action
 - the analgesic activity of 20mg levomepromazine is approximately equivalent to 10mg morphine
 - o may be useful if further increase in opioid dose is undesirable
 - o adverse effects: sedation and postural hypotension

2. Anxiolytics

benzodiazepines

- o e.g. diazepam, oxazepam and lorazepam
- o aid treatment of pain by virtue of their anxiolytic effect
- o also useful for muscle spasm or acute musculoskeletal pain
- o adverse effects: sedation, weakness and postural hypotension

3. Psychostimulants

- methylphenidate
 - o does not have an analgesic action
 - o can be used to counteract severe sedation caused by opioids
 - o adverse effects: dysphoria, tolerance and dependence

4. Cannabinoids

(23)

- cannabinoids are no more effective than codeine in treating pain
- adverse effects of cognitive impairment and sedation limit their use

Muscle relaxants

- benzodiazepines
 - o effective for muscle spasm
 - o main adverse effects are weakness and sedation
- baclofen
 - o acts at a spinal level
 - o started at 5mg/d and cautiously titrated against effect up to a maximum of 100mg/d
 - o main adverse effects are weakness and sedation
 - o must be withdrawn slowly to avoid withdrawal syndrome and seizures
- dantrolene
 - acts directly on muscle
 - o started at 25mg/d and titrated against effect to a maximum of 400mg/d
 - o main adverse effects are weakness, sedation and hepatotoxicity

III. PAIN CON'T

LOCAL ANAESTHETIC AND NERVE BLOCKS

1. Local Infiltration

painful bone metastases

- o infiltration with local anaesthetic for palpable bone metastases
- o addition of corticosteroid will prolong the effect

neuromas

- o injection with local anaesthetic
- o addition of a long-acting corticosteroid preparation will prolong the effect

myofascial pain

- is characterised by local pain and tenderness in muscles, associated with pain radiating in a non-dermatomal distribution
- o there are local trigger points, palpation of which produce or aggravate the symptoms
- injection of the trigger point with local anaesthetic, with or without corticosteroid, usually produces complete relief

2. Peripheral Nerve Blocks

peripheral nerve blocks

- the only peripheral nerve block performed frequently is that of intercostal nerves for chest and abdominal wall pain
- severe limb pain, which in the past might have been treated with plexus blocks, can now be treated with measures that are more selective for sensory nerves (epidural local anaesthetic) and pain (spinal opioids)

autonomic nerve blocks

- a coeliac plexus block is indicated for severe pain from disease in upper abdominal viscera
 - provides immediate relief of pain for about 80% of patients
 - relief lasts a number of months for most
- a lumbar sympathetic plexus block is of benefit for some patients with pelvic visceral pain or sympathetic type pain in the lower limb

3. Spinal nerve blocks

Epidural anaesthetic blocks

- injection of local anaesthetic into the epidural space will provide excellent analgesia over several spinal segments
- either by a single injection or by the temporary or permanent placement of a catheter in the epidural space at the desired level

Neurolytic blocks

- o injection of alcohol or phenol into the epidural or subarachnoid space
- motor and autonomic nerves may also be damaged, causing limb weakness or paralysis and bladder or bowel dysfunction
- o neurolytic blocks have been largely replaced by epidural anaesthetic blocks and

intraspinal opioid drugs, which produce the same benefits without the attendant risks

PHYSICAL THERAPIES FOR PAIN

Surgery

- surgical internal fixation for metastases to long bones is indicated for
 - o pathological fracture
 - medullary lesion > 50% diameter of bone
 - o cortical lesion > 50% cortical width eroded
 - lesions causing persisting pain after radiotherapy
- pain related to visceral obstruction
 - o oesophageal: laser resection, endo-oesophageal tube
 - o intestinal: bypass surgery
 - o colonic: bypass surgery, defunctioning colostomy
 - o biliary: bypass surgery, stenting
 - o urinary: ureteric stenting, percutaneous nephrostomy

Heat Therapy

- relieves pain as a counter-irritant and by direct effect on the tissues treated
 - the sensation of heat acts to reduce the transmission of pain signals in the dorsal horn of the spinal cord and may also induce inhibitory stimuli from the brain stem
 - the local effects of heat include muscle relaxation, increased blood flow and tissue compliance
- heat therapy is of particular benefit in the treatment of muscle spasm, myofascial pain and the general musculoskeletal discomfort associated with immobility and debility
- heat therapy to superficial tissues is achieved with hot packs, hot water bottles, electric heating pads or radiant heat lamps
- heating of deeper tissues may be achieved with ultrasound, short wave diathermy and microwave treatment
- heat therapy can cause tissue damage and should not be used
 - o near metal or plastic prostheses or areas where bone cement has been used
 - in areas where there is diminished sensation or paralysis or where tissues are ischaemic
 - o where there is infection
 - o directly over tumour tissue

Electrical Therapy: Transcutaneous Electrical Nerve Stimulation (TENS)

- involves electrical stimulation of nerves, using electrodes applied to the skin
- causes electrical activity in the large afferent fibres that override pain signals in the dorsal horn or the spinal cord

- electrode placement and choice of frequency and intensity of stimulation should be performed by an experienced operator
 - o optimal settings are different for each patient
 - o when operating, TENS produces paraesthesiae in the painful area
- is useful in treating mild to moderate musculoskeletal pain but is ineffective against visceral pain
- is contraindicated in patients with a cardiac pacemaker
- results in a high initial response rate, although only 15-20% of patients will obtain long-term benefit
- if successful, it will reduce the requirement for systemic analgesics and has the advantages of being cheap, easy to use and relatively free of complications

Topical counter-irritants

- act by stimulating neuronal activity that inhibits the passage of pain signals in the dorsal horn of the spinal cord
- heat and cold therapy and massage relieve pain by counter-irritation
- · commercially available analgesic ointments work in the same way
- capsaicin cream causes transient burning or stinging and may act partly by counterirritation

Acupuncture

- is used to relieve pain by mechanisms that are incompletely understood
- involves needle insertion at classical acupuncture points or in painful areas
- its role in the treatment of pain in the palliative care setting is not defined
- it is relatively cheap and safe and, if successful, will reduce the requirement for systemic analgesics

Mechanical Therapies

- massage: can relieve pain due to muscle spasm, myofascial syndromes or the general musculoskeletal discomfort associated with immobility and debility
- exercise: passive and active exercises may improve pain control and lessen the general musculoskeletal discomfort associated with inactivity or debility
- hydrotherapy is particularly useful for patients with pain related to weight bearing
- manipulation: physical manipulation by chiropractors, osteopaths and physiotherapists is the most commonly practised treatment for non-malignant back pain
 - patients with cancer often seek such treatment but manipulation should be performed with great care in the presence of vertebral metastases
- orthotic devices: braces and supporting devices will relieve and prevent pain by stabilising or immobilising painful tissues are of particular benefit for pain related to movement and weight bearing
- mobility aids: walking sticks, crutches and walking frames are of value in preventing pain associated with movement and walking
- immobilisation: patients suffering severe pain despite the use of optimal analgesia and the physical supports described above may be forced to accept the use of a wheelchair or bed rest

PSYCHOSOCIAL ASPECTS OF PAIN CONTROL

(5, 24)

- psychosocial factors can play an important role in the aggravation (or amelioration) of pain
- psychosocial factors must be assessed in the evaluation of any patient with chronic pain, necessitating a multidisciplinary approach
- · unrecognised or untreated psychosocial problems may lead to unrelieved pain
- pain unrelieved by apparently appropriate therapy should prompt a search for unrecognised psychosocial problems

Psychological distress

- is often described in terms of just anxiety or depression but may manifest in a number of other ways including anger and frustration, hopelessness and helplessness, denial, grief, sadness or withdrawal
- management is primarily directed at facilitating the patient's adaptive and coping mechanisms
- if successful, may have a profound effect on both pain control and quality of life
- in palliative care, supportive counselling in a caring, considerate and unhurried manner is the mainstay of treatment

Psychological therapy for pain

- psychological approaches to the treatment of pain in palliative care include
 - o general psychological supportive care
 - providing information
 - o support groups
 - relaxation therapy
 - o meditation
 - distraction therapy
 - coping skills, training
 - cognitive therapy
 - o anxiolytics, antidepressants
 - brief psychotherapy
 - hypnosis
- more complex techniques used for chronic non-malignant pain are of limited value in the palliative care
 - operant techniques
 - cognitive-behavioural therapy

Social Problems

- treatment or resolution of social problems may greatly facilitate pain control
 - o supportive counselling to facilitate coping is the mainstay of treatment
 - practical assistance such as the provision of aids for daily living and accessing community resources and services
 - o assistance with financial and legal matters

Cultural Issues

- · patients of differing cultural backgrounds vary greatly in their response to pain
- management of cultural issues that might cause or aggravate pain is primarily preventive
 - o palliative care should be conducted in a culturally appropriate and sensitive manner
 - language barriers can complicate the treatment of pain and professional interpreters should be used

Spiritual and Religious Concerns

 resolution of religious and spiritual/existential concerns may greatly help pain control -see Spiritual and Religious Issues

ANTICANCER THERAPY FOR PAIN

For palliative care patients with cancer, the appropriate and judicious use of anticancer therapy is sometimes the most effective means of controlling pain, even for patients with very advanced disease

Radiotherapy

- is a most effective means of controlling pain due to local tumour infiltration
- for each individual patient, the potential benefits must be weighed against the possible adverse effects as well as the inconvenience of transporting the patient to and from a radiotherapy facility
- the concept of "radioresistant tumours" relates to radiocurability of the cancer and not to palliative radiotherapy
 - o local pain due to tumour infiltration usually responds to local radiotherapy, irrespective of the histological type or tissue of origin of the tumour
- palliative radiotherapy should employ the minimum dose of radiotherapy required to achieve the desired result, given in the minimum number of treatment fractions

Chemotherapy

- can be considered for palliation of pain in patients with chemosensitive tumours and widespread disease
- chemotherapy given for the palliation of pain should be geared to produce manageable and acceptable side effects

o single agents or combination chemotherapy in reduced doses may be appropriate

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University of Utah Hypermedia Assistant for Cancer Pain Management (includes AHCPR Cancer Pain Guidelines). www.painresearch.utah.edu/cancerpain/



IV. Symptom Control

CONTENTS

- respiratory
 - o breathlessness
 - o <u>cough</u>
 - o terminal respiratory congestion

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- gastrointestinal
 - o nausea and vomiting
 - antiemetics
 - bowel obstruction
 - o constipation
 - laxatives
- constitutional
 - o anorexia
 - o weight loss
 - o weakness and fatigue
 - neurological
 - acute confusion and delirium
 - terminal restlessness

BREATHLESSNESS OR DYSPNOEA

Breathlessness or dyspnoea is the unpleasant awareness of difficulty in breathing

- dyspnoea, like pain, is subjective and involves both the perception of breathlessness and the reaction of the patient to it
- dyspnoea is always associated with some degree of anxiety, which in turn will make the breathlessness worse

Causes

- airway obstruction
 - o tracheal
 - tumour
 - tracheo-oesophageal fistula
 - o bronchial
 - tumour
 - chronic bronchitis
 - acute infection, bronchitis
 - bronchospasm: bronchitis, asthma

- reduction in functional lung tissue
 - surgical resection
 - tumour
 - fibrosis: pre-existing, radiation
 - pleural effusion
 - infection
 - haemorrhage
 - pulmonary embolism
 - chronic obstructive pulmonary disease
- impaired ventilatory movement
 - o chest wall weakness, motor impairment, general debility
 - o chest wall pain
 - o elevated diaphragm: ascites, hepatomegaly, phrenic nerve lesion
- cardiovascular
 - o congestive cardiac failure, cardiomyopathy
 - o pericardial effusion, constrictive pericarditis
 - o shock, haemorrhage, septicaemia
 - o anaemia
- anxiety

Assessment

- clinical history and examination, together with knowledge about pre-existing lung disease, are usually sufficient to determine the cause of dyspnoea
- whether investigations should be performed, looking for a reversible cause, depends on
 - o what stage the patient is at on the terminal illness trajectory
 - o their identified goals of care

Treatment

- treatment directed at the specific cause, where possible and appropriate
- general measures
 - o calm, reassuring attitude
 - o nurse patient in position of least discomfort
 - physiotherapy
 - o improve air circulation
 - distraction therapy
 - o relaxation exercises
 - breathing control techniques
 - o counselling

oxygen

- if hypoxic
- if it improves symptoms (terminal care situation)
 - o bronchodilators if there is a reversible element to the bronchial obstruction
 - o corticosteroids
 - effective bronchodilators
 - for dyspnoea due to multiple metastases, lymphangitis carcinomatosis and pneumonitis
 - opioids—the most useful agents in the treatment of dyspnoea

nebulised morphine

- effective for some patients, although controlled studies do not support its
- risk of bronchospasm

aid expectoration

- o steam, nebulised saline
- mucolytic agents
- o expectorants
- o physiotherapy
 - reduce excess secretions
- anticholinergics
 - antitussives if dyspnoea exacerbated by coughing
 - anxiolytics

Examples of drug therapy

bronchodilators

- o salbutamol by metered aerosol or 2.5-5 mg by nebuliser, q4-6h
- o ipratropium by metered aerosol or 250-500 μg by nebuliser, g6h
- o aminophylline, theophylline PO

corticosteroids

- prednisolone 40-60 mg/d PO or dexamethasone 8-12 mg/d PO
- · wean to the minimum effective dose after a few days

opioids

- morphine 5-10 mg PO, q4h or 4-hourly PRN and titrate
- 50% increase in dose for patients on morphine for pain
- nebulised morphine not recommended

anxiolytics

- diazepam 2 mg PO q8h ± 5-10 mg nocte
- alprazolam 0.25-0.5 mg SL, q1-2h

lorazepam 0.5-1 mg SL, q4-6h

mucolytics (for sputum retention)

- humidified air (steam, nebulised saline)
- acetylcysteine 10%, 6-10 ml by nebuliser, q6-8h

anticholinergics (for excessive secretions)

- glycopyrrolate 0.2-0.4mg SC q2-4h or 0.6-1.2mg/24h CSCI
- hyoscine hydrobromide 0.2-0.4mg SC q2-4h or 0.6-1.2mg/24h CSCI

Terminal Care

- · treatment should be purely symptomatic in the last week or days of life
- · investigations should be avoided
- · antibiotic therapy is usually not warranted
- if of benefit, bronchodilator therapy can be continued by mask.
- · unconscious patients who still appear dyspnoeic should be treated with morphine SC

COUGH

Cough is the physiological reflex employed to clear irritant, foreign or particulate material from the respiratory tract

Cause

- airway irritation
 - o atmosphere: smoke, fumes, dry atmosphere
 - o tumour: endobronchial tumour, extrinsic bronchial compression
 - aspiration
 - vocal cord paralysis
 - reduced gag reflex
 - tracheo-oesophageal fistula
 - gastro-oesophageal reflux
 - o infection: post-nasal drip, laryngitis, tracheitis, bronchitis
 - o increased bronchial reactivity: ACE inhibitors, asthma
 - o sputum retention
 - o excess sputum (bronchorrhoea)

lung pathology

- infection
- o infiltration: primary or secondary cancer, lymphangitis carcinomatosis
- o pneumonitis: radiation, chemotherapy
- pulmonary fibrosis
- o chronic obstructive pulmonary disease
- o pulmonary oedema: congestive heart failure, pericardial effusion
- irritation of other structures associated with the cough reflex: pleura, pericardium, diaphragm

Assessment

- the clinical history, physical examination and chest x-ray will usually define the cause
- whether investigations should be performed, looking for a reversible cause, depends on
 - at what stage the patient is on the terminal illness trajectory
 - their identified goals of care

Treatment

- treat the specific causes where possible and appropriate
- general symptomatic measures
 - o avoid smoke, fumes
 - o atmospheric humidification
 - o nurse patient in position of least discomfort
 - aid expectoration if cough productive
 - may be contraindicated for patients who are weak or debilitated
 - steam or nebulised saline are as effective as
 - inhalations containing menthol or eucalyptus
 - the chemical mucolytic agent acetylcysteine
 - atmospheric humidification
 - physiotherapy
 - bronchodilators if bronchospasm present
 - antibiotics if infection present
 - cough suppressants for persistent dry cough
 - opioids
 - opioid analogues
 - nebulised local anaesthetics
 - corticosteroids for lymphangitis carcinomatosis
- · sedation may be useful, especially at night

Examples of medications used

Protussive therapy

mucolytics

topical nebulized saline 2.5ml q4-6h & before physiotherapy

steam

inhalations e.g. menthol and eucalyptus

irritant ammonium chloride, potassium iodide

chemical acetylcysteine 10%, 6-10ml by nebulizer, q6-8h

bronchodilators if bronchospasm present

antibiotics if infection present

Antitussive therapy

opioid analogues dextromethorphan 10-20mg PO q4-6h

pholcodine 10-15mg PO q4-6h

opioids codeine 8-20mg PO q4-6h

dihydrocodeine 10-15mg PO q4-6h

hydrocodone 5-10mg PO q4-6h

morphine 2.5-5mg PO q4-6h

local anaesthetics lignocaine 2%, 5ml by nebulizer q6-8h

bupivacaine 0.25%, 5ml by nebulizer q6-8h

other antitussives benzonatate 100-200mg PO q8h

bronchodilators if bronchospasm present

antibiotics if infection present

corticosteroids pulmonary metastases, lymphangitis carcinomatosis

anticholinergics to reduce secretions

Terminal Care

- · treatment should be purely symptomatic in the last week or days of life
- treatment of persistent cough is with an opioid drug, which will also reduce respiratory secretions
- investigations should be avoided
- antibiotics and vigorous physical therapy are inappropriate
- · sedatives may be of benefit, especially at night
- haloperidol or levomepromazine, which will dry respiratory secretions by their anticholinergic effect, are preferable to a benzodiazepine
- if of benefit, bronchodilator therapy can be continued by mask.
- unconscious patients who are still coughing should be treated with morphine SC

TERMINAL RESPIRATORY CONGESTION

('DEATH RATTLE')

Terminal respiratory congestion is the rattling, noisy or gurgling respiration of some patients who are dying

Cause

 accumulation of pharyngeal and pulmonary secretions in patients who are unconscious or semiconscious and too weak to expectorate

Treatment

therapy is often more for the comfort of the relatives and other patients, as most of the patients are no longer aware of their surroundings

- position the patient on their side
- oropharyngeal suction should be reserved for unconscious patients
- anticholinergic drugs to suppress the production of secretions
 - hyoscine hydrobromide
 - 0.4mg SC, ± repeat at 30min, then q2-4h or 0.6-1.2mg/24h CSCI
 - antiemetic; sedative; occasional agitated delirium
 - o glycopyrollate
- 0.2-0.4mg SC, ± repeat at 30min, then q4-6h or 0.6-1.2mg/24h CSCI
- less central and cardiac effects
 - atropine

- 0.4-0.8mg SC q2-4h
- may cause tachycardia after repeated injections
 - transdermal scopolamine patches
 - hyoscine hydrobromide 1.5mg patch q72h
 - onset of action is delayed for several hours during which other anticholinergic treatment needs to be given
- reassure relatives that the noisy breathing is not causing any added suffering for the patient

NAUSEA AND VOMITING

Cause - frequently due to multiple causes

- · irritation, obstruction of the gastrointestinal tract
 - o cancer
 - o chronic cough
 - o oesophagitis
 - o gastritis
 - o peptic ulceration
 - o gastric distension
 - o gastric compression
 - o delayed gastric emptying
 - o bowel obstruction
 - o constipation
 - hepatitis
 - biliary obstruction
 - o chemotherapy
 - radiotherapy
 - via chemoreceptor trigger zone
 - biochemical abnormality
 - hypercalcaemia
 - liver failure
 - renal failure
 - sepsis
 - drugs e.g. opioids, antibiotics
 - via vestibular system
 - o drugs e.g. aspirin
 - via cortical centres
 - psychological factors, anxiety
 - sites, smells, tastes
 - conditioned vomiting
 - raised intracranial pressure

Treatment

- assess for and treat underlying cause(s)
- dietary measures
 - o liquid and soft foods, selected by the patient
 - o small meals, eaten slowly
 - general measures
 - avoidance of noxious or suggestive smells and odours
 - relaxation techniques
 - use of antiemetics (see below)
 - drug selected on basis of presumed causative mechanism
 - commence before vomiting starts if possible
 - in adequate doses
 - in combination if necessary by parenteral route if necessary
 - if unresponsive
 - assess for psychological factors
 - reassess for missed physical causes
 - try different antiemetics and/or combinations
 - nasogastric intubation and intravenous hydration should be avoided
 - in patients whose symptoms can be controlled by other means
 - in the terminally ill

ANTIEMETICS

phenothiazines	examples	prochlorperazine, chlorpromazine, levomepromazine
	action	antidopaminergic effect at the CTZ*
	adverse effects	EP (prochlorperazine)
		sedation and hypotension (chlorpromazine, levomepromazine)
butyrophenone	example	haloperidol
	action	antidopaminergic effect at the CTZ
	adverse effects	sedation, EP
orthopromides	examples	metoclopramide, domperidone
	actions	antidopaminergic effect at the CTZ
		direct gastrokinetic effect

	adverse effects	sedation and EP (metoclopramide)
		domperidone doesn't have central effects
		precaution: may aggravate high small bowel obstruction
anticholinergic	examples	hyoscine hydrobromide
	actions	anticholinergic effect at or near the VC
		reduces GI secretions and motility
	adverse effects	whole spectrum of anticholinergic effects
antihistamines	examples	cyclizine, diphenhydramine
	action	at VC by an uncertain mechanism
		will potentiate dopamine antagonists and prevent EP
	adverse effects	sedation and dry mouth
cannabinoids	examples	nabilone, dronabinol
	action	at a cortical level - antiemetic effect parallels the euphoric period
	adverse effects	drowsiness, dysphoria and delusions
corticosteroids	examples	prednisolone, dexamethasone, hydrocortisone
	action	undefined mechanism
		particularly useful for raised intracranial pressure
	adverse effects	see corticosteroids
benzodiazepines	examples	diazepam, alprazolam, lorazepam
	action	at a cortical level
	adverse effects	sedation
5HT ₃ antagonists	examples	ondansetron, granisetron, tropisetron
	action	prevents vagal stimulation in GI tract
		may also have central action

	adverse effects	constipation, headache
prokinetic agent	example	cisapride
	action	increases gastrointestinal peristalsis
	adverse effects	colic, diarrhoea
		cardiac arrhythmias with azole antifungals, macrolide antibiotics
neurokinin-1	example	aprepitant
antagonist		
	action	substance-P neurokinin-1 (NK ₁) receptor antagonist
	adverse effects	anorexia, dyspepsia, fatigue

^{*}Abbreviations: CTZ - chemoreceptor trigger zone, EP - extrapyramidal side effects, GI - gastrointestinal, VC - vomiting centre.

Use of antiemetics

Which antiemetic(s) is prescribed depends on

- whether the cause can be determined
- what drugs are available
- · the effects of antiemetics already given

Metoclopramide

- is a good first-line antiemetic
- has central antidopaminergic activity and is effective for many of the chemical causes of nausea
- has a gastrokinetic effect useful in delayed gastric emptying and functional bowel obstruction
- is contraindicated in high small bowel obstruction

If there is no improvement after 12-24 hours

- other drugs can be substituted, e.g.
 - o levomepromazine has a broad spectrum of antiemetic activity
 - o haloperidol has strong antidopaminergic effects
 - cyclizine is both antihistaminic and anticholinergic and is useful in mechanical bowel obstruction
- other drugs can be added, e.g.
 - o dexamethasone if there is raised intracranial pressure
 - o benzodiazepine if there is excessive anxiety

a 5HT3 receptor antagonist if vomiting is related to surgery, chemotherapy or radiotherapy

BOWEL OBSTRUCTION

Cause

- mechanical obstruction
 - o luminal obstruction: cancer, constipation, faecal impaction
 - o wall infiltration, stricture formation: cancer, radiation, surgery, benign (peptic ulcer)
 - o extrinsic compression: cancer, adhesions (surgical, malignant)
- paralytic (functional) obstruction
 - o autonomic neuropathy
 - o retroperitoneal infiltration
 - o spinal cord disease
 - o drugs: opioids, anticholinergics
 - o postoperative
 - o peritonitis
 - o metabolic: hypokalaemia, hypercalcaemia, hyperglycaemia
 - o radiation fibrosis

Treatment

The management of bowel obstruction is traditionally based on surgical intervention but for patients in palliative care, particularly those with advanced cancer, conservative therapy for subacute and incomplete bowel obstruction will produce equivalent results.

The treatment options include

- nasogastric intubation and intravenous fluids as a temporary measure only
 - preoperative
 - o pending a decision regarding surgery
 - o whilst systemic therapy is initiated
 - o acute phase of recurrent obstruction
- surgery
 - resection or bypass of obstruction
 - o creation of colostomy, ileostomy
 - o percutaneous gastrostomy as venting procedure
 - endoscopic laser resection (colorectal)
- symptomatic
 - medications (see below)
 - o relieve and prevent constipation
 - o small meals with reduced roughage, served when the patient requests

Examples of medications used for symptomatic management of bowel obstruction

antiemetics

- metoclopramide 10mg PO q4-6h or 30-60mg/24h CSCI
- cyclizine 50mg PO, PR q8h or 150mg/24h CSCI
- haloperidol 0.5-1mg PO q6h or 3-5mg/24h CSCI
- levomepromazine 6.25-12.5mg SC or 12.5-50mg/24h CSCI

analgesics

morphine PO, PR or SC infusion

anticholinergics

- hyoscine butylbromide 20mg PO q6h or 60-120mg/24h CSCI
- hyoscine hydrobromide 0.4mg SC q6h or 0.6-1.2mg/24h CSCI

prokinetic agent

■ cisapride 10mg PO q6-8h

· somatostatin analogue

octreotide 0.1mg SC q8h or 0.2-0.3mg/24h CSCI

corticosteroid

dexamethasone 8-16mg/d PO or 8-16mg/24h CSCI

CONSTIPATION

Constipation means infrequent or difficult defecation and implies a significant variation from the normal bowel habit of an individual patient

Cause - frequently due to multiple causes

general

- o immobility, inactivity
- o muscular weakness, debility
- o confusion, sedation
- o inability to access or use toilet facility

nutritional

o decreased intake

- o low residue diet
- o poor fluid intake

metabolic

- dehydration
- o hypercalcaemia
- o hypokalaemia

neurological

- o cerebral tumour
- o spinal cord disease
- o sacral nerve route infiltration

psychological

- o depression
- o fear of diarrhoea, incontinence

colorectal

- o obstruction
- o pelvic tumour mass
- o radiation fibrosis, stricture
- o painful anorectal condition

drugs

- o opioid analgesic
- o antidiarrhoeals
- o non-opioid analgesics
- o anticholinergic drugs or anticholinergic adverse effects
 - anticholinergics
 - antispasmodics
 - antidepressants
 - phenothiazines
 - haloperidol
- o antiemetics e.g. 5HT3 antagonists

Treatment

Established constipation requires the use of suppositories and enemas to clear the lower bowel before a normal bowel pattern can be established with oral medication

- absent rectal tone, reflex or sensation: neurogenic bowel (see below)
- · no neurological abnormality
 - o faeces in rectum
 - hard faeces: glycerine PR, microenema, enema, disimpaction
 - soft faeces: bisacodyl or docusate PR, microenema, enema, disimpaction
 - empty rectum: do plain x-ray
 - no bowel obstruction: bisacodyl or docusate PR, oral medications
 - bowel obstruction: appropriate therapy

Laxatives

see below

Prevention of constipation

- factors and situations that predispose to constipation are well known
- preventive treatment should be introduced before clinical problems develop
- general measures (where feasible)
 - increased food intake
 - increased dietary fibre or bulk forming laxative
 - increased fluid intake
 - encourage activity
- laxatives
 - docusate 240-480mg nocte or bisacodyl 10-20mg nocte
 - ± senna 15mg nocte
 - ± lactulose 30ml nocte
 - and titrate the dose against the clinic effect
- explanation to patient, family
- · treatment of painful rectal conditions
- · ensure access and ability to use toilet facilities
- · avoid constipating drugs if possible
- keep a record of bowel actions

Management of neurogenic bowel

- Spinal cord lesion spastic bowel, hypertonic anal sphincter, sacral reflexes intact
 - o adequate fluid and fibre intake
 - o oral laxatives (avoid laxatives that cause excessive softening)
 - o rectal suppositories or stimulation leads to increased peristalsis and sphincter relaxation
 - Sacral nerve root lesion reduced peristalsis, flaccid sphincter, sacral reflexes absent
 - adequate fluid and fibre intake
 - oral laxatives
 - rectal suppositories or stimulation may lead to evacuation
 - straining and abdominal massage
 - Patients with a short life expectancy, for whom bowel training is not feasible
 - dietary fibre is reduced and bulk laxatives avoided
 - constipation is induced with codeine or loperamide
 - regular bowel evacuations are planned once or twice weekly using suppositories or enemas

Terminal care

- significant symptoms due to constipation are rare during the last days or week of life
- · oral intake is frequently limited and laxatives can usually be discontinued
- · a suppository or microenema can be used
 - if the patient has pain, feels the urge to defaecate but is unable to do so
 - if there is faecal incontinence due to impaction

LAXATIVES

bulk forming laxatives

includes psyllium, ispaghula, sterculia, methylcellulose, dietary fibre supplements

action retention of intraluminal fluid - softens faeces and stimulates peristalsis

precautions patients must drink extra fluids

unsuitable for elderly, debilitated and those with partial bowel obstruction

adverse effects unpalatable, colic, flatulence (considerable individual variation)

faecal softener and stimulant

includes docusate, poloxamer

action faecal softener and stimulant

also promotes secretion of fluid into bowel

contact (stimulant) laxatives

includes polyphenolics: phenolphthalein, bisacodyl, senna, cascara, danthron

action promotes secretion of fluid - softens faeces and stimulates peristalsis

adverse effects dehydration and electrolyte imbalance

osmotic laxatives

includes magnesium salts: sulfate (epsom salts), hydroxide (milk of magnesia)

non-absorbable sugars: lactulose, sorbitol, mannitol, polyethylene glycol

action draws fluid into bowel by osmosis - softens faeces and stimulates peristalsis

precautions patients must drink extra fluids

unsuitable for elderly, debilitated

adverse effects colic, flatulence (considerable individual variation)

dehydration and electrolyte imbalance in debilitated patients

rectal suppositories

includes glycerine, bisacodyl

action faecal softener (glycerine)

contact stimulant (bisacodyl)

use glycerine inserted into faecal matter, bisacodyl against mucosa

ANOREXIA

Anorexia is a reduced desire to eat

Cause - often due to multiple causes

- cancer
- pain
- disordered taste, smell
 - o cancer
 - o stomatitis
 - o malodorous ulcer or fungating tumour

gastrointestinal

- o stomatitis, xerostomia mucositis, infection
- o oesophagitis, dysphagia
- o small stomach: gastrectomy, linitis plastica
- o gastric compression: hepatomegaly, ascites
- o gastric distension: delayed gastric emptying
- o bowel obstruction, constipation
- o hepatic metastases, liver disease
- o chemotherapy, abdominal radiotherapy

· intracranial disease

o metastases, radiotherapy, infection

- metabolic
 - o abnormalities of sodium, calcium, glucose
 - o organ failure: liver, kidney, adrenal
- infections
- medications
- psychological
- · anxiety, depression, confusion, dementia
- organisational
- poor food preparation or presentation
- religious or cultural customs

Treatment

Treatment of anorexia is important as it

- · will improve patient morale
- reduce family anxiety
- the preservation of optimal nutrition may delay the onset of cachexia
- · assistance of a dietician may be invaluable

Treatments

- treat or palliate the underlying cause
- activity, exercise
- dietary
 - dietary advice (dietician)
 - visually appealing food
 - o tasty small frequent meals
 - o what they want, when they want it
 - o sitting up, at a table, in a room free of odours
- appetite stimulants
 - alcohol
 - o corticosteroids, e.g. prednisolone 15-30mg/d, dexamethasone 2-4mg/d
 - o progestogens, e.g. megestrol 160mg/d
- explanation, counselling.

Counselling

- anorexia and poor food intake frequently cause much distress for patients and families, requiring careful discussion and explanation
- when advanced and progressing cancer is the prime cause, it needs to be explained that enteral

WEIGHT LOSS & CACHEXIA

Cause

- in patients with advanced cancer, this is primarily due to alterations in protein, carbohydrate and lipid metabolism caused by inflammatory cytokines released by the tumour
- in patients with AIDS, it usually relates to systemic infections and chronic gastrointestinal dysfunction

The causes of weight loss include

- malnutrition
 - o poor intake due to anorexia
 - o functional blockage: mouth, oesophagus, stomach
 - malabsorption
 - o vomiting, diarrhoea, fistulas
 - o protein loss: ulceration, haemorrhage, repeated paracenteses
- metabolic abnormalities secondary to cancer (cancer cachexia)
- increased energy expenditure
 - systemic infections
 - o chronic fevers
 - tumour metabolism

Treatment

The treatment options for weight loss include

- correct or palliate cause of malnutrition, anorexia
- · treat tumour where feasible
- drug treatment
 - o there is no satisfactory drug therapy for cachexia
 - corticosteroids and alcohol may reduce anorexia but have no effect on the metabolic abnormalities of cancer cachexia
 - progestogens may exert an anabolic effect and reduce or prevent weight loss
 - o dronabinol is effective in maintaining weight for some patients with AIDS
 - dietary measures
 - small frequent meals
 - what the patient wants and when they want it
 - dietary supplements
 - enteral nutrition
 - will not reverse or prevent cancer cachexia
 - may be appropriate for patients with upper gastrointestinal obstruction who may otherwise suffer starvation
 - may cause fluid overload, abdominal cramps and diarrhoea
 - parenteral nutrition
 - will not reverse or prevent cancer cachexia
 - is appropriate for patients who are temporarily unable to eat

for two weeks or more because of anticancer treatment

- is associated with significant complications and cost
 - management of the psychosocial consequences

Counselling

- for both the patient and the family, progressive weight loss and cachexia represents progression
 of the disease
- counselling and discussions may facilitate acceptance and understanding
- the family needs to be dissuaded from trying to force the patient to eat, as this will only cause physical distress and guilt
- the family needs to be helped to show love to the patient by means other than feeding them or pressuring them to eat

WEAKNESS AND FATIGUE

Asthenia is generalised weakness associated with fatigue and lassitude

Cause

In palliative care, asthenia is most frequently associated with progression of the cancer or other underlying disease, but other causes need to be considered, as some are amenable to treatment or palliation. Most relatives attribute weakness to poor eating or to medications.

neuromuscular

- o cachexia-related loss of muscle mass
- o cachexia-related muscular dysfunction
- polymyositis
- o overactivity, prolonged immobility
- polyneuropathy
- o intracranial tumour, paraneoplastic encephalopathies
- o acute confusion or delirium

metabolic

- o electrolyte imbalance, dehydration
- o renal, hepatic failure

endocrine

- adrenal insufficiency
- ectopic ACTH secretion
- diabetes

malnutrition

- o inanition, malabsorption
- anaemia
- infection

psychological

o anxiety, depression, dependency, boredom, insomnia

anticancer therapy

o radiotherapy, chemotherapy, interferon

drugs

 opioids, tranquillisers, sedatives, antidepressants diuretics, antihypertensives, hypoglycaemics and others

Treatment

- · treatment of underlying cause, where possible
- drug therapy
 - o corticosteroids
 - o symptomatic improvement, improved feeling of well-being
 - o proximal myopathy with continued therapy
 - o amphetamines and methylphenidate

physical therapy

- encourage exertion and activity, physiotherapy
- o within the patient's physical limitations
- o may help maintain dwindling muscle strength
- encourage activities providing diversion from a patient's feeling of weakness
- o assistance with the activities of daily living
- o physical aids
- o reorganisation of the immediate environment to accommodate reduced mobility

counselling

- supportive therapy: physical and psychological
- o redefinition of goals and expectations

ACUTE CONFUSION OR DELIRIUM

Acute confusion or delirium is an organic brain syndrome characterised by the acute onset of disturbance of the conscious state associated with disordered

attention, cognition, perception and psychomotor behaviour

Clinical features of delirium

onset acute or subacute

conscious state usually impaired

cognitive impairment global

attention deficit always

mood (affect) released

impaired perception common

hallucinations common

incoherent speech common

course fluctuating, worse at night

reversibility often reversible

Cause - in many cases due to more than one cause

· intracranial pathology

- o tumour
- o haemorrhage
- o encephalopathy radiation, chemotherapy
- o infection abscess, meningitis, encephalitis
- o post seizure
- o cerebrovascular disease, stroke

metabolic

- o respiratory failure hypoxia, hypercapnia
- o liver failure, hepatic encephalopathy
- o renal failure
- o acidosis, alkalosis
- o electrolyte disturbance sodium, calcium
- o hyperglycaemia, hypoglycaemia
- o adrenal, thyroid and pituitary dysfunction

· infection, fever

circulatory

- o dehydration
- o hypovolaemia
- o heart failure
- o shock

anaemia

nutritional

- o general malnutrition
- o vitamin B1, B6, B12 deficiency

drug withdrawal

o alcohol, benzodiazepine, barbiturate, opioids, nicotine

drugs

 alcohol, anticholinergics, anticonvulsants, antidepressants, antiemetics (phenothiazines, metoclopramide, nabilone), antihistamines, antiparkinsonian, antipsychotics, anxiolytics and hypnotics (benzodiazepines, barbiturates), corticosteroids, NSAIDs, opioid analgesics, stimulants (amphetamine, methylphenidate, cocaine) and, less frequently, many other drugs

Other potentially reversible contributing factors that may precipitate or aggravate delirium

- anxiety, depression
- · pre-existing cerebral disease, dementia general debility
- pain, discomfort
- sleep deprivation
- altered environment

Treatment

treatment of the cause

- o identify and treat the underlying cause
- o withhold all non-essential medications
- o consider alternatives for essential drugs
- o alcohol or drug withdrawal
 - consider allowing continued use
 - nicotine skin patches

general measures

- o appropriate physical environment
 - quiet and well lit room, night light
 - minimise number of different staff having contact
 - avoid disturbances
 - presence of a family member or trusted friend
- o develop a regular daily routine
- o repeated calm reassurance and explanation
- o do not move from familiar surroundings
- avoid physical restraints
 - restless patients can be allowed to ambulate if accompanied
 - habitual smokers should be allowed to smoke with supervision
 - reassure family and patient that the confusional state is due to organic disease

drug therapy

haloperidol

- is the most frequently used drug for delirium in medically ill patients
- improves cognitive function and provides sedation
- mild delirium: 1-5 mg/d PO, in divided doses
- severe delirium: 2-5 mg IV or SC, q30-60 min, if required

alternatives

- chlorpromazine
- levomepromazine
 - benzodiazepine

- can be given in addition to haloperidol
- given alone cause sedation without any effect on cognitive function and may aggravate confusion

TERMINAL RESTLESSNESS

Terminal restlessness is an agitated delirium that occurs in some patients during the last few days of life

Clinical features

- agitation, restlessness
- · impaired conscious state
- muscle twitching
- · multifocal myoclonus
- seizures
- distressed vocalizing

Treatment

- · exclude restlessness due to
 - o anxiety, fear
 - o unrelieved pain
 - o urinary retention, faecal impaction
 - o drug, alcohol or nicotine withdrawal
- review opioid use
- benzodiazepines
 - o clonazepam 0.5 mg SL or SC q12h or 1-2 mg/24h CSCI and titrate
 - o midazolam 2.5-10 mg SC, q2h or 20-60 mg/24h CSCI and titrate
 - o diazepam 5-10 mg IV or 10-20 mg PR, g6-8h and titrate
 - o lorazepam 1-2.5 mg SL, q2-4h and titrate
 - for benzodiazepine failure
 - haloperidol 5mg SC, followed by 20-3-mg/24h CSCI and titrate
 - levomepromazine 12.5-50mg SC q4-8h and titrate; continue as CSCI
 - phenobarbitone 100-200mg SC q4-8h and titrate; continue as CSCI

Treatment

Established constipation requires the use of suppositories and enemas to clear the lower bowel before a normal bowel pattern can be established with oral medication

- absent rectal tone, reflex or sensation: neurogenic bowel (see below)
- no neurological abnormality
 - o faeces in rectum

- hard faeces: glycerine PR, microenema, enema, disimpaction
- soft faeces: bisacodyl or docusate PR, microenema, enema, disimpaction
 - empty rectum: do plain x-ray
 - no bowel obstruction: bisacodyl or docusate PR, oral medications
 - bowel obstruction: appropriate therapy

IV. Symptom Control Con't

Laxatives

see below

Prevention of constipation

- factors and situations that predispose to constipation are well known
- preventive treatment should be introduced before clinical problems develop
- general measures (where feasible)
 - increased food intake
 - increased dietary fibre or bulk forming laxative
 - increased fluid intake
 - encourage activity
- laxatives
 - docusate 240-480mg nocte or bisacodyl 10-20mg nocte
 - ± senna 15mg nocte
 - ± lactulose 30ml nocte
 - and titrate the dose against the clinic effect
- explanation to patient, family
- · treatment of painful rectal conditions
- ensure access and ability to use toilet facilities
- avoid constipating drugs if possible
- keep a record of bowel actions

Management of neurogenic bowel

- Spinal cord lesion spastic bowel, hypertonic anal sphincter, sacral reflexes intact
 - o adequate fluid and fibre intake
 - o oral laxatives (avoid laxatives that cause excessive softening)
 - o rectal suppositories or stimulation leads to increased peristalsis and sphincter relaxation
 - Sacral nerve root lesion reduced peristalsis, flaccid sphincter, sacral reflexes absent
 - adequate fluid and fibre intake
 - oral laxatives
 - rectal suppositories or stimulation may lead to evacuation
 - straining and abdominal massage
 - Patients with a short life expectancy, for whom bowel training is not feasible
 - dietary fibre is reduced and bulk laxatives avoided
 - constipation is induced with codeine or loperamide
 - regular bowel evacuations are planned once or twice weekly

using suppositories or enemas

Terminal care

- · significant symptoms due to constipation are rare during the last days or week of life
- · oral intake is frequently limited and laxatives can usually be discontinued
- · a suppository or microenema can be used
 - if the patient has pain, feels the urge to defaecate but is unable to do so
 - if there is faecal incontinence due to impaction

LAXATIVES

bulk forming laxatives

includes psyllium, ispaghula, sterculia, methylcellulose, dietary fibre supplements

action retention of intraluminal fluid - softens faeces and stimulates peristalsis

precautions patients must drink extra fluids

unsuitable for elderly, debilitated and those with partial bowel obstruction

adverse effects unpalatable, colic, flatulence (considerable individual variation)

faecal softener and stimulant

includes docusate, poloxamer

action faecal softener and stimulant

also promotes secretion of fluid into bowel

contact (stimulant) laxatives

includes polyphenolics: phenolphthalein, bisacodyl, senna, cascara, danthron

action promotes secretion of fluid - softens faeces and stimulates peristalsis

adverse effects dehydration and electrolyte imbalance

osmotic laxatives

includes magnesium salts: sulfate (epsom salts), hydroxide (milk of magnesia)

non-absorbable sugars: lactulose, sorbitol, mannitol, polyethylene glycol

action draws fluid into bowel by osmosis - softens faeces and stimulates peristalsis

precautions patients must drink extra fluids

unsuitable for elderly, debilitated

adverse effects colic, flatulence (considerable individual variation)

dehydration and electrolyte imbalance in debilitated patients

rectal suppositories

includes glycerine, bisacodyl

action faecal softener (glycerine)

contact stimulant (bisacodyl)

use glycerine inserted into faecal matter, bisacodyl against mucosa

ANOREXIA

Anorexia is a reduced desire to eat

Cause - often due to multiple causes

- cancer
- pain
- · disordered taste, smell
 - o cancer
 - o stomatitis
 - o malodorous ulcer or fungating tumour
- gastrointestinal
 - o stomatitis, xerostomia mucositis, infection
 - o oesophagitis, dysphagia
 - o small stomach: gastrectomy, linitis plastica
 - o gastric compression: hepatomegaly, ascites
 - o gastric distension: delayed gastric emptying
 - o bowel obstruction, constipation
 - o hepatic metastases, liver disease
 - o chemotherapy, abdominal radiotherapy

- intracranial disease
 - o metastases, radiotherapy, infection
- metabolic
 - o abnormalities of sodium, calcium, glucose
 - o organ failure: liver, kidney, adrenal
- infections
- medications
- psychological
- anxiety, depression, confusion, dementia
- organisational
- poor food preparation or presentation
- · religious or cultural customs

Treatment

Treatment of anorexia is important as it

- · will improve patient morale
- reduce family anxiety
- · the preservation of optimal nutrition may delay the onset of cachexia
- · assistance of a dietician may be invaluable

Treatments

- treat or palliate the underlying cause
- · activity, exercise
- dietary
 - dietary advice (dietician)
 - visually appealing food
 - o tasty small frequent meals
 - o what they want, when they want it
 - o sitting up, at a table, in a room free of odours
- · appetite stimulants
 - alcohol
 - o corticosteroids, e.g. prednisolone 15-30mg/d, dexamethasone 2-4mg/d
 - o progestogens, e.g. megestrol 160mg/d
- explanation, counselling.

Counselling

- anorexia and poor food intake frequently cause much distress for patients and families, requiring careful discussion and explanation
- when advanced and progressing cancer is the prime cause, it needs to be explained that enteral or parenteral nutrition will not be of benefit

WEIGHT LOSS & CACHEXIA

Cause

- in patients with advanced cancer, this is primarily due to alterations in protein, carbohydrate and lipid metabolism caused by inflammatory cytokines released by the tumour
- in patients with AIDS, it usually relates to systemic infections and chronic gastrointestinal dysfunction

The causes of weight loss include

- malnutrition
 - o poor intake due to anorexia
 - o functional blockage: mouth, oesophagus, stomach
 - malabsorption
 - o vomiting, diarrhoea, fistulas
 - o protein loss: ulceration, haemorrhage, repeated paracenteses
- · metabolic abnormalities secondary to cancer (cancer cachexia)
- increased energy expenditure
 - systemic infections
 - o chronic fevers
 - o tumour metabolism

Treatment

The treatment options for weight loss include

- correct or palliate cause of malnutrition, anorexia
- · treat tumour where feasible
- drug treatment
 - there is no satisfactory drug therapy for cachexia
 - corticosteroids and alcohol may reduce anorexia but have no effect on the metabolic abnormalities of cancer cachexia
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 - o dronabinol is effective in maintaining weight for some patients with AIDS
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 - what the patient wants and when they want it
 - dietary supplements
 - enteral nutrition
 - will not reverse or prevent cancer cachexia
 - may be appropriate for patients with upper gastrointestinal obstruction

who may otherwise suffer starvation

- may cause fluid overload, abdominal cramps and diarrhoea
 - parenteral nutrition
 - will not reverse or prevent cancer cachexia
 - is appropriate for patients who are temporarily unable to eat for two weeks or more because of anticancer treatment
 - is associated with significant complications and cost
 - management of the psychosocial consequences

Counselling

- for both the patient and the family, progressive weight loss and cachexia represents progression
 of the disease
- · counselling and discussions may facilitate acceptance and understanding
- the family needs to be dissuaded from trying to force the patient to eat, as this will only cause physical distress and guilt
- the family needs to be helped to show love to the patient by means other than feeding them or pressuring them to eat

WEAKNESS AND FATIGUE

Asthenia is generalised weakness associated with fatigue and lassitude

Cause

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- o cachexia-related muscular dysfunction
- o polymyositis
- o overactivity, prolonged immobility
- o polyneuropathy
- o intracranial tumour, paraneoplastic encephalopathies
- acute confusion or delirium

metabolic

- o electrolyte imbalance, dehydration
- o renal, hepatic failure

endocrine

- adrenal insufficiency
- ectopic ACTH secretion
- diabetes

- malnutrition
 - o inanition, malabsorption
- anaemia
- infection
- psychological
 - o anxiety, depression, dependency, boredom, insomnia
- anticancer therapy
 - o radiotherapy, chemotherapy, interferon
- drugs
 - opioids, tranquillisers, sedatives, antidepressants diuretics, antihypertensives, hypoglycaemics and others

Treatment

- · treatment of underlying cause, where possible
- drug therapy
 - o corticosteroids
 - o symptomatic improvement, improved feeling of well-being
 - o proximal myopathy with continued therapy
 - o amphetamines and methylphenidate
- physical therapy
 - encourage exertion and activity, physiotherapy
 - o within the patient's physical limitations
 - o may help maintain dwindling muscle strength
 - o encourage activities providing diversion from a patient's feeling of weakness
 - o assistance with the activities of daily living
 - o physical aids
 - o reorganisation of the immediate environment to accommodate reduced mobility
- counselling
 - supportive therapy: physical and psychological
 - redefinition of goals and expectations

ACUTE CONFUSION OR DELIRIUM

Acute confusion or delirium is an organic brain syndrome characterised by the acute onset of disturbance of the conscious state associated with disordered

attention, cognition, perception and psychomotor behaviour

Clinical features of delirium

onset acute or subacute

conscious state usually impaired

cognitive impairment global

attention deficit always

mood (affect) released

impaired perception common

hallucinations common

incoherent speech common

course fluctuating, worse at night

reversibility often reversible

Cause - in many cases due to more than one cause

intracranial pathology

- o tumour
- haemorrhage
- o encephalopathy radiation, chemotherapy
- o infection abscess, meningitis, encephalitis
- o post seizure
- o cerebrovascular disease, stroke

metabolic

- o respiratory failure hypoxia, hypercapnia
- o liver failure, hepatic encephalopathy
- o renal failure
- o acidosis, alkalosis
- o electrolyte disturbance sodium, calcium
- o hyperglycaemia, hypoglycaemia
- o adrenal, thyroid and pituitary dysfunction

· infection, fever

circulatory

- dehydration
- o hypovolaemia
- o heart failure
- shock

- anaemia
- nutritional
 - general malnutrition
 - vitamin B1, B6, B12 deficiency
- drug withdrawal
 - o alcohol, benzodiazepine, barbiturate, opioids, nicotine
- drugs
 - alcohol, anticholinergics, anticonvulsants, antidepressants, antiemetics (phenothiazines, metoclopramide, nabilone), antihistamines, antiparkinsonian, antipsychotics, anxiolytics and hypnotics (benzodiazepines, barbiturates), corticosteroids, NSAIDs, opioid analgesics, stimulants (amphetamine, methylphenidate, cocaine) and, less frequently, many other drugs

Other potentially reversible contributing factors that may precipitate or aggravate delirium

- anxiety, depression
- pre-existing cerebral disease, dementia general debility
- pain, discomfort
- sleep deprivation
- altered environment

Treatment

- . treatment of the cause
 - identify and treat the underlying cause
 - o withhold all non-essential medications
 - consider alternatives for essential drugs
 - alcohol or drug withdrawal
 - consider allowing continued use
 - nicotine skin patches
- general measures
 - appropriate physical environment
 - quiet and well lit room, night light
 - minimise number of different staff having contact
 - avoid disturbances
 - presence of a family member or trusted friend
 - o develop a regular daily routine
 - o repeated calm reassurance and explanation
 - o do not move from familiar surroundings
 - avoid physical restraints
 - restless patients can be allowed to ambulate if accompanied
 - habitual smokers should be allowed to smoke with supervision
 - reassure family and patient that the confusional state is due to organic disease
- drug therapy

haloperidol

- is the most frequently used drug for delirium in medically ill patients
- improves cognitive function and provides sedation
- mild delirium: 1-5 mg/d PO, in divided doses
- severe delirium: 2-5 mg IV or SC, g30-60 min, if required
 - alternatives
 - chlorpromazine
 - levomepromazine
 - benzodiazepine
 - can be given in addition to haloperidol
 - given alone cause sedation without any effect on cognitive function and may aggravate confusion

TERMINAL RESTLESSNESS

Terminal restlessness is an agitated delirium that occurs in some patients during the last few days of life

Clinical features

- agitation, restlessness
- impaired conscious state
- muscle twitching
- · multifocal myoclonus
- seizures
- distressed vocalizing

Treatment

- · exclude restlessness due to
 - o anxiety, fear
 - o unrelieved pain
 - o urinary retention, faecal impaction
 - o drug, alcohol or nicotine withdrawal
- · review opioid use
- benzodiazepines
 - clonazepam 0.5 mg SL or SC q12h or 1-2 mg/24h CSCI and titrate
 - o midazolam 2.5-10 mg SC, q2h or 20-60 mg/24h CSCI and titrate
 - o diazepam 5-10 mg IV or 10-20 mg PR, q6-8h and titrate
 - o lorazepam 1-2.5 mg SL, q2-4h and titrate
 - for benzodiazepine failure
 - haloperidol 5mg SC, followed by 20-3-mg/24h CSCI and titrate
 - levomepromazine 12.5-50mg SC q4-8h and titrate; continue as CSCI

phenobarbitone 100-200mg SC q4-8h and titrate; continue as CSCI

V. Psychosocial

CONTENTS

PSYCHOLOGICAL DISTRESS

DEPRESSION

ANXIETY

SPIRITUAL AND EXISTENTIAL DISTRESS

CARING FOR FAMILIES AND FRIENDS

PSYCHOLOGICAL DISTRESS

Some psychological distress will occur with any terminal illness

Factors predisposing to psychological distress

- disease
 - rapidly progressive
 - o present, anticipated disabilities, disfigurement
 - physical dependence
 - o long illness: psychological exhaustion
- patient
- not fully understanding the disease, treatment or what lies ahead
- · fear of pain, dying, disfigurement
 - o loss (or fear of loss) of control, independence, dignity
 - o helplessness, hopelessness
 - insight regarding (or fear of) poor prognosis
 - o anxious personality, pre-existing personality traits
- pain
 - unrelieved pain
- symptoms
 - uncontrolled symptoms
- social
 - o loss (or fear of loss) of job, social position, family role
 - o feels isolated (actual or perceived)
 - o feels a burden on family and carers
 - o unfinished business: personal, interpersonal, financial
 - o financial hardship

- o fears for family
- cultural
 - o cultural differences in attitude to sickness, suffering, loss, and death
 - language barriers
- spiritual
 - o religious issues
 - o spiritual issues, e.g. remorse, guilt, unfulfilled expectations, meaninglessness
- treatment
 - o diagnostic delays, multiple failed treatments
 - side effects of therapy
- team
 - poor communication
 - o lack of continuity of care
 - o exclusion of family, carers

Clinical features

- psychological distress is often described in terms of anxiety or depression but patients suffer a range of other emotional problems
- these do not necessarily or commonly reflect psychopathology and some, like denial, are best regarded as the clinical manifestations of coping mechanisms

Examples of psychological distress

anxiety	denial	sadness, misery, remorse
depression	guilt	withdrawal, apathy
anger, frustration, irritability	fear	inappropriate compensation (joyful)
hopelessness, despair	grief	lack of co-operation with carers
helplessness	passivity	unresponsive pain
regression	avoidance	

Denial

- is the most frequently seen coping mechanism
- is not necessarily abnormal or pathological
- allows patients time to come to terms with their situation
- an alternative description is 'suppression of information' which emphasizes its protective function
- should not prompt team members to force information on the patient, but alert them to a defence mechanism

The level of psychological distress depends on patients' ability to cope

Factors predictive of poor coping include

personal

- o anxious or pessimistic personality
- o poor coping with previous illnesses, stresses, losses
- o adverse experiences with cancer in relatives or friends
- history of recent personal losses
- low personal esteem
- o multiple family problems, obligations
- marital problems
- history of psychiatric illness
- personality disorder
- o history of alcohol or substance abuse

social

- o few social supports, resources; isolated
- lower socioeconomic class
- sense of not being valued or understood

cultural

certain cultural traditions

spiritual

o not religious; no alternate value system

Treatment

- treat underlying causative factors, where possible
- general measures
 - o caring, considerate, unhurried, non-judgemental approach
 - good listening, good communication
 - o reassurance about continuing care
 - respect for the person and individuality
 - o allow discussion of fears regarding future suffering, life expectancy

control pain and physical symptoms

- social
 - address social issues, encourage social supports
 - provide support for family and carers

cultural

respect cultural differences

spiritual

address religious or spiritual concerns

other measures

general supportive counselling

- support groups
- relaxation therapy
- meditation
- o distraction
- socialization
- psychological therapies
 - o stress management techniques
 - o coping skills training
 - cognitive therapy
 - o anxiolytics, antidepressants
 - supportive psychotherapy

Effective treatment of psychological distress in patients with advanced cancer may greatly improve the quality of life

A truism of palliative care is that 'nothing is trivial'. Everything the patient says, everything they experience is worthy of our attention, trivial as it may at first appear. Time spent listening is never wasted.

DEPRESSION

Significant symptoms of depression are reported to occur

- in about 25% of patients with advanced cancer
- the incidence is probably higher in patients with advancing disease, increasing physical disability, or troublesome pain

In palliative care

- many patients with depression are not diagnosed or treated appropriately
- some are started on antidepressants during the last few weeks of life when there is insufficient time for the medication to have any therapeutic effect

Diagnostic criteria

The American Psychiatric Association's DSM-IV criteria for **diagnosis of depression in physically healthy individuals** requires

- at least one of two core symptoms—depressed mood and anhedonia (decreased interest or pleasure)
- at least four other symptoms from the list
- each symptom needs to be
 - severe (most of the day, nearly every day)
 - durable (more than two weeks)
 - o be judged to cause clinically significant distress or impairment
 - o not be attributable to the patient's medical condition or therapy.

DSM-IV criteria for major depressive episode

Depressed mood

Anhedonia markedly diminished interest or pleasure in activities

Weight change unintentional weight gain or loss (>5% body weight in a month)

Sleep disturbance insomnia or hypersomnia

Psychomotor problems agitation or retardation

Lack of energy fatigue or loss of energy

Excessive guilt feelings of worthlessness or inappropriate guilt

Poor concentration diminished ability to think or concentrate, indecisiveness

Suicidal ideation recurrent thoughts of death or suicide, or suicide attempt

In palliative care

- the significance of somatic symptoms is questionable as all may be attributable to the disease or treatment
- they might be considered significant if clearly out of proportion to the physical illness
- other criteria that have been advocated as indicators of depression in the terminally ill

Indicators of depression in terminally ill patients

Psychological symptoms Other indicators

Dysphoria Intractable pain or other symptoms

Depressed mood Excessive somatic preoccupation

Sadness Disproportionate disability

Tearfulness Poor cooperation or refusal of treatment

Lack of pleasure History related indicators

Hopelessness History of depression

Helplessness History of alcoholism or substance abuse

Suicidal ideation

Worthlessness Pancreatic cancer
Social withdrawal
Guilt

Reproduced with permission from Block SD for the ACP-ASIM End-of-Life Care Consensus panel: Assessing and Managing Depression in the Terminally III Patient. Annals of Internal Medicine 2000; 132: 209-218.

Clinical spectrum

- normal depressive symptoms
- symptoms of depression and anxiety that occur as part of a normal psychological stress response at times of crisis
- last one to two weeks
- resolve spontaneously with time and appropriate supportive care
 - o adjustment disorder with depressed mood (reactive depression)
 - differs from the normal stress response in either degree or duration
 - the response
 - is maladaptive
 - is greater than would be expected as a normal reaction
 - lasts longer than expected (more than two weeks)
 - may be more severe or intense, causing more disruption and interference with daily functioning, social activities, and relationships with others
 - major depressive disorder
 - symptoms are usually more severe
 - the mood is incongruent with the disease outlook
 - does not respond to support, understanding, caring or distraction
 - correlates with a desire for death in the palliative care population
- organic brain syndromes
 - patients with acute confusion (delirium) or early dementia may exhibit features of depression
 - o mental state examination will reveal evidence of organic brain dysfunction
 - o delusional thoughts and hallucinations, features of psychotic depression, may occur

Assessment

- the structured clinical interview is the gold standard for the diagnosis of depression
- the use of a single question "Are you depressed?" correctly identified the eventual diagnostic outcome in 197 palliative care patients

Treatment

- diagnose and treat organic brain syndrome, if present
- · exclude adverse effects of drugs and drug interactions
- treat any causative or aggravating factors
 - o pain, other physical symptoms, social, cultural, spiritual
- general support
 - o caring and empathy
 - o reassurance of continued care and interest
 - o provision of any information about the illness requested by the patient
 - o explore patients' understanding and fears about illness, prognosis
 - o encourage, strengthen family and social supports
- brief, supportive psychotherapy
 - o resolution of issues regarding disease, treatment, future, coping, etc.
 - o family, group therapy
 - o behavioural techniques
- antidepressants
- other drugs: hypnotics, anxiolytics, neuroleptics

Antidepressants classified by principal actions

SNRIs - serotonin and noradrenaline re-uptake inhibitors

TCAs: amitriptyline, imipramine, dothiepin

venlafaxine

SSRIs - selective serotonin re-uptake inhibitors

fluoxetine, paroxetine, sertraline, citalopram

NRIs - noradrenaline re-uptake inhibitors

TCAs: desipramine, nortriptyline

reboxetine

NaSSA - noradrenergic and specific serotoninergic antidepressant

mirtazapine

Serotonin 5HT₂ receptor antagonists

nefazodone

mianserin

Mono-amine oxidase inhibitors

Non-selective MAOIs: isocarboxazide, phenelzine

RIMAs - reversible inhibitor of mono-amine oxidase-A: moclobemide

Psychostimulant

methylphenidate

Tricyclic antidepressants (TCAs)

- antidepressant medication is considered for any patient with significant depression
- adverse effects are common and can be clinically troublesome in elderly or frail patients
- different TCAs are more suited to certain situations
 - patients with agitation or insomnia are treated with a sedating drug such as amitriptyline or doxepin
 - o patients with psychomotor slowing require a less sedating drug such as desipramine
 - patients with problems related to intestinal motility or urinary retention need a drug with less anticholinergic effect such as desipramine or nortriptyline
 - TCAs are usually started at a dose of 25-50 mg at night and increased gradually over several weeks
 - 2 to 4 weeks is required for clinical response
 - adults without physical illness require doses of 150-300 mg/d
 - elderly or debilitated patients may only be able to tolerate much lower doses
 - a systematic review of RCTs of TCAs given at low dose (<100mg/d) showed
 - these drugs are effective at lower doses when compared to placebo
 - that increasing to standard doses did not improve the response rate but did produce more adverse effects

Selective serotonin re-uptake inhibitors (SSRIs)

- have little sedative, anticholinergic or cardiac side effects
- can cause transient anxiety, insomnia, nausea and diarrhoea for the first few weeks
- sertraline is possibly the best drug for patients with physical illness
 - paroxetine is more likely to cause drug interactions
 - fluoxetine has a slow onset of action
 - a Cochrane review of antidepressants in patients with medical illness showed that TCAs might be more effective than SSRIs but were associated with more adverse effects

Mono-amine oxidase inhibitors (MAOIs)

- non-selective MAOIs should not be used in palliative care because of the need for dietary restrictions and the frequency of interactions with other drugs
- less drug interactions occur with the reversible inhibitor of mono-amine oxidase-A, moclobemide, but there is little to recommend its use in palliative care.

Noradrenergic and specific serotoninergic antidepressant (NaSSA)

- mirtazapine was effective in a small trial of patients with advanced cancer
- · acts more quickly than traditional TCAs
- adverse effects are sedation, dry mouth and weight gain.

Serotonin and noradrenaline re-uptake inhibitors (SNRIs)

- venlafaxine does not have the sedative, anticholinergic or cardiac effects of amitriptyline and acts more quickly
- adverse effects are dizziness, dry mouth, nausea and insomnia

Psychostimulants

- methylphenidate has been used for patients with advanced disease and a life expectancy
 of weeks to a few months
- it is effective in the majority of patients
- serious adverse effects are uncommon
- should be given earlier in the day (5mg PO at 0800 and 1200h) to avoid insomnia
- effect is often seen within two to three days
- . it has the beneficial side effects
- counteracting opioid-related sedation
- · improving appetite
- improving cognitive function
- · counteracting the feelings of weakness and fatigue
- promoting a sense of general well being

St John's wort

- o is extract of Hypericum perforatum
- o is a popular over-the-counter antidepressant
- some studies report activity equivalent to other antidepressants with fewer adverse effects
- o there are three RCTs that report it to be no better than placebo

ANXIETY

- anxiety is a normal and universal emotion
- occurs frequently in patients with physical disease
- includes a continuous clinical spectrum ranging from normal to psychiatric

Abnormal (maladaptive) anxiety is distinguished from normal anxiety by

- anxiety out of proportion to the stress
- persistence of symptoms for more than two weeks
- severe physical symptoms or recurrent panic attacks
- · disruption to normal functioning

Clinical spectrum

normal anxiety

- o in response to the stress and crises associated with disease
- o more frequent in the terminal phases of the disease

adjustment disorder with anxious mood (reactive anxiety)

- lasts longer than expected (more than 2 weeks)
- o exceeds the level that is regarded as normal and adaptive
- o follows a defined incident or stress
- o depressive symptoms frequently coexist

generalized anxiety disorder

- characterized by chronic unrealistic worries with autonomic hyperactivity, apprehension and hypervigilance
- o the anxiety is more pervasive and persistent, occurring in many different situations
- patients have more severe and disabling symptoms, which appear inappropriate or out of proportion to the medical situation

panic disorder

- o repeated sudden, unpredictable attacks of intense fear and physical discomfort
- o attacks follow a crescendo pattern, reaching a maximum in a few minutes
- o may occur in many different situations.

phobic anxiety

- o anxiety provoked by exposure to a specific feared object or situation
- o usually results in an avoidance response.

· organic anxiety syndromes

- uncontrolled pain
- hypoxia, respiratory distress
- hypoglycaemia
- o any uncontrolled or severe physical symptoms
- o acute confusional state or delirium
- o drug adverse effects: corticosteroids, metoclopramide, bronchodilators

o drug withdrawal: opioids, barbiturates, benzodiazepines, alcohol, nicotine

Treatment

- treat the cause of organic anxiety syndrome, if present
- exclude adverse effects of drugs and drug interactions
- treat other factors that may cause or aggravate anxiety
 - o pain, other physical symptoms, social, cultural, spiritual
- treat depression, if present
- general support (see Depression)
- brief, supportive psychotherapy (see Depression)
- psychological behavioural therapies
 - o relaxation training, hypnosis, cognitive-behavioural therapy, biofeedback
- distraction therapies
 - o music therapy, art therapy, socialization
- drug therapy: anxiolytics, hypnotics, antidepressants, neuroleptics

SPIRITUAL AND EXISTENTIAL DISTRESS

What is Spirituality?

- every human being, religious or not, possesses spirituality
- spirituality encompasses the purpose and meaning of an individual's existence
- it involves relationships with, and perceptions of, people and all other things and events
- it is unique to each person
- it is founded in cultural, religious and family traditions, and is modified by life experiences
- it is the basis for an individual's attitudes, values, beliefs, and actions
 - o for people with religious faith, spirituality is usually encompassed within their religion

What is spiritual or existential distress?

- questions pertaining to spiritual and existential issues may arise as the result of any life event, but occur most frequently (probably invariably) in response to terminal illness
- · spiritual and existential problems are an important source of clinical suffering
 - o they may cause or aggravate pain and psychosocial problems
 - o they can cause an anguish all their own

 recognition and successful management of spiritual and existential problems is an important part of palliative care

Spiritual and existential problems encountered by the terminally ill can be broadly grouped

- relating to the past
 - o value and meaning of a person's life
 - worth of relationships
 - o value of previous achievements
 - o painful memories or shame
 - o guilt about failures, unfulfilled aspirations
- relating to the present
 - disruption of personal integrity
 - o physical, psychological and social changes
 - increased dependency
 - o meaning of a person's life
 - meaning of suffering
- · relating to the future
 - impending separation
 - hopelessness
 - meaninglessness
 - o concerns about death
- · relating to religion
 - strength of their faith
 - o whether they have live according to, and not disgraced, their faith
 - o existence of after-life

How is spiritual or existential distress manifest?

- it is most often manifest as physical or psychological problems
- pain or other symptoms unresponsive to appropriate therapy should alert the clinician to the possibility of unrecognised spiritual or existential problems
- the patient may remain sad, withdrawn or 'depressed' when all physical and psychosocial suffering have been relieved

How do you deal with spiritual or existential distress?

- patients vary greatly in their desire to pursue issues related to either existential concerns or their spirituality
 - o some will not discuss it
 - others just need the presence of a sympathetic person to listen (not necessarily a religious person or a pastoral care worker)
- spiritual care is person-centred and begins at the level of the patients' own insight

 most people are helped by knowing that the questions and doubts that are troubling them are shared by many others

What is Religious Faith?

- religion is the relationship between an individual and God, characterised by belief in, reverence for, and desire to please that God
- for patients who profess a religious faith, their spirituality is usually closely allied with their religion
- patients with religious faith are less likely to have unmet spiritual concerns if their religious needs are met
- in the **palliative care** setting, a person's faith, no matter how strong or weak, will influence, and be influenced by, everything they experience as death approaches

Can religious faith help the dying?

- · most faiths are reassuring that biological death is not the end of life
- believers are comforted
 - o that there is something after death
 - o that their wrong doings can be forgiven and their good deeds be credited
 - families sharing the same faith
 - may help them cope better looking after a terminally ill relative
 - may be a source of comfort to the dying patient, confident that faith will help those left behind
 - people with a deep religious faith often find it grows as death approaches
 - for those with a less well-developed/less tested faith, impending death can be a major challenge to their faith

Can religious faith cause problems for the dying?

- religion does not make living or dying easier, though it may make both meaningful
- religion does not provide all the answers people seek
- people with unrealistic expectations of their religion are usually disappointed
 - o some people expect miracles
 - o some expect answers to unanswerable questions
 - o some expect immediate and sympathetic answers to their prayers
- when these are not forthcoming they may
 - o blame their religion or even their God
 - o direct their anger or disappointment against their professional carers

How should religious issues be handled in palliative care?

- there should be unreserved respect for an individual's religious beliefs and practices
 - the patient or family should be asked about religious matters including prayer, diet, and routines of personal hygiene
 - sacred practices including prayer, sacraments, anointing with oils, the burning of incense, periods of fasting or self-denial, special diets, baptism and many others are both respected and facilitated
- the manner in which individuals practise their religion must be respected
 - o a patient's religious needs are assessed on an individual basis
 - o no two people of the same faith are likely to have exactly the same religious needs
 - o facilitate arrangements for their priests and teachers to visit them
 - o support them when their faith feels inadequate for what they are experiencing
 - reassure them that the rites of their religion and culture will be fully respected after their death

CARING FOR FAMILIES AND FRIENDS

Care of the relatives and close friends is a central feature of good palliative care

Good care of the patient helps the relatives cope, but they also have their own needs and anxieties that must be addressed, including:

- to do with the patient's illness and care relatives may be anxious to know about
 - what exactly is wrong with the patient
 - o why the patient is receiving certain treatment
 - o whether his illness is infectious or contagious
 - o whether they will be able to care for the patient at home
 - o how long they will be able to care for the patient at home
 - o whether their health will be adequate for them to do this caring
 - whether they will know how to speak to the patient if he asks about dying and death, particularly if the relatives have tried to keep the truth from him
 - o whether they will cope with any emergencies that might arise
 - o when to call the doctor and what help or advice to ask for
 - how to give medications
 - whether they are giving he patient the right food and drinks
 - visiting in hospital
 - o talking to children and friends about the patient's illness
- to do with their own personal feelings and needs relatives are often anxious about
 - o their own health but feel they cannot mention it
 - o family tensions and how to deal with them
 - o unresolved interpersonal problems from the past
 - o unresolved grief from a recent bereavement
 - o how they will manage when the patient dies where will they live, who will care for

them, where will the money come from

- to do with the society where they live relatives may be anxious about
 - whether it is right to keep the patient at home
 - o what other people think about their caring
 - o whether they are demonstrating their religious faith
 - whether they should be accepting the unsolicited advice being offered by friends or neighbours
 - who to invite to the funeral
 - how to behave after the death
 - o whether they are "doing the right thing "

How should these anxieties be addressed?

short meetings with the doctor and/or nurse

- o to explain everything they want to know about the patient's illness and care
- o to ask questions about the illness, treatment and details of what lies ahead
- o to ask for information about whatever agencies there are to assist their caring
- o to express their fears about the present and both the immediate and distant future
- o to talk about their own health and other needs
- o to express any anger, resentment, and sadness about the family and other carers
- o the relatives must feel these meetings are solely for them and their problems
- o most relatives and close friends will appreciate and benefit from these short meetings

family conferences

- o when family tensions are high, or there is feuding within the family
- o should be chaired by the doctor with the nurse and social worker in attendance
- the whole family are given details about the patient's illness, investigations, treatment and prognosis
- o each family member is then invited to express their feelings, including their anger
- the doctor can then explain how their anger or feuding is not only not helping each of them at this painful time but also affecting the final days of their loved one
- finally they are asked to put interpersonal differences behind them, to try to love or at least tolerate each other, and to appoint one person to be the communications link between them and the doctors and nurses

At every stage, the palliative care team must ensure that the relatives are being given the care, the attention and the time they need

VI. Organizational Aspects of Palliative Care

HOW TO START A PALLIATIVE CARE SERVICE

REGULATION AND ACCREDITATION IN PALLIATIVE CARE

EDUCATION AND TRAINING FOR SERVICE STAFF

EXTERNAL EDUCATION AND TRAINING

INFORMING PEOPLE ABOUT PALLIATIVE CARE

STRESS IN PALLIATIVE CARE

HOW TO START A PALLIATIVE CARE SERVICE

The eventual success and effectiveness of a palliative care service depends very largely on how well it is planned

- the need for a palliative care service is often so great that those eager to establish it do not always give
 it the thoughtful planning that is needed
- the planning stage may take much longer than expected, sometimes years

Local factors are most important in planning a palliative care service

- · the situation will vary greatly from one country to another and even within a single country
- IAHPC believes that each developing country should be encouraged and enabled to develop its own model(s) of palliative care, taking advantage of the experience and expertise accumulated in developed countries, and not be expected to copy models more appropriate to affluent countries

The planning of any palliative care service requires

- a well-conducted needs assessment (subjective assessment of need is never adequate)
- discussion with local, regional and even national health care planners (who may not know what palliative care is)
- discussion with all other local groups (statutory and voluntary) providing palliative care in any form (duplication of services is wasteful and counterproductive)
- consideration of the model(s) of care which might best meet local needs
- consideration of staffing implications and recruitment issues
- consideration of the educational role of any planned service
- · consideration of relations with local hospitals, clinics and diagnostic facilities
- consideration of the availability of equipment and pharmaceuticals
- · consideration of capital investment needs, funding requirements, reimbursement issues

Needs Assessment

Examples of questions to be asked include

Patients

- o which diseases in a particular community are likely to benefit from palliative care?
- o how many potential patients are there?
- o what is their age distribution?
- o what is the prevalence of symptoms?
- o what are thought to be the unmet needs of these patients?
- o what proportions are dying at home or in hospital?

Priorities

- o is the service to provide care or to train family members to care better?
- o is the service to provide care or to educate and train local health care professionals to provide better care?
- o is the service to provide care or simply assist the doctors and nurses already managing the patients in the community or hospital?
- o is the goal to enable more people to remain at home for longer periods?
- o is the ultimate goal to enable more people to die at home?

Models of care

- o what are the obstacles to good palliation as perceived by health care workers in the area?
- o should it provide home care or inpatient care?
- should there be a palliative care ward in the local hospital or a free-standing hospice?
- should a hospital service manage the patients or provide advice and support?
- o will education be provided and if so which model of care provision will best facilitate it?

Relationships with other agencies

- o what will be the relationship with
- o any existing palliative care services?
- o the local hospital?
- o the local medical community?
- o are medications available?
- o is there access to basic diagnostic facilities?

Discussion with Strategic Planners

- those planning a new palliative care service often complain that strategic planners and health care managers do not want to listen to them and seem to be ignorant about palliative care
 - o co-operation with them may not be easy but it is never wasted time
 - the planners may need to visit established palliative care services or be presented with data from other services serving similar population groups
 - o the closer the collaboration, the better the eventual service
- the aims of these discussions are
 - o to inform each other of needs and possible responses
 - o to prevent duplication of activities and waste of precious resources
 - o to foster co-operation rather than competition and conflict
- a well planned service, fitting neatly into a local or regional plan, will enable patients, whether at home or in a hospital, to receive seamless palliative care

Discussion with Other Providers

Discussions should be held with all other local health care providers who may be affected by the planned palliative care service

- the local medical community
 - o the palliative care service needs the co-operation of local doctors, in order to be able to work with

them in providing better care for patients

- doctors who feel threatened by the service or feel their patients are being taken over will not be supportive and will not refer patients who might benefit from palliative care
- o it is best to assume that even though some doctors may not know much about palliative care, they have their patients' best interests at heart and want to learn how to better care for them
- the local hospital
 - the relationship with the local hospital must be clearly defined to foster co-operation and to avoid any antagonism
 - will palliative care doctors be permitted to see patients in the hospital?
 - o will the hospital's diagnostic facilities be available for palliative care patients?
 - o will drugs be available from the hospital pharmacy?
 - o if hospital patients are transferred to palliative care, will their records come with them?
- other palliative care services
 - o to avoid unhealthy competition between palliative care providers
 - competition usually wastes precious resources and may deprive some patients of the care they need and deserve
 - competing services can produce confusion in the minds of the public and the local health care professionals
 - each provider to define what service they can offer and then, in discussion with other providers, decide who does what
 - catchment areas can be defined
 - agreement can be reached on the types of patients accepted by each service (e.g. non-malignant disease, AIDS, etc)
 - o to foster co-operation in
 - the use of specialised services e.g. lymphoedema treatment
 - education and training
- the community
 - appointment of a local fund-raiser will raise the image of the new palliative care service and hopefully bring in essential income for its
 - development
 - ideally, this should be someone with no clinical responsibilities

There is no one way to handle all these potential conflicts and problems. They call for patience, tact, diplomacy and courtesy.

Considerations of Staffing and Recruitment

- palliative care must be multiprofessional or interprofessional
 - optimal palliative care requires the co-ordinated input from doctors, nurses and various allied health professionals
 - o no one profession can provide palliative care on its own, no matter how committed they are
 - palliative care promoted as nursing care, without any need for medical involvement, will not be recognised by doctors
- there is often much healthy overlap of roles in an interprofessional team
 - o for example nurses can be as effective at counselling as most doctors, but neither may be as good as a social workers or pastoral care specialists
 - o this requires staff to be flexible to avoid conflicts between the different professions
 - $_{\circ}\,$ there is no place for territorialism in palliative care
 - o relatives taught to do some nursing care should be seen as complementing the trained nurses rather than replacing them
- planning the nursing establishment
 - o depends primarily on the level of dependency of the patients
 - patients with different diseases have different nursing needs
 - e.g., patients with motor neurone disease (ALS) often need more nursing care than most cancer patients

- o for community-based services, other factors relate to
 - the case load
 - the distances to be traveled
 - whether other community nurses are available
 - the availability of doctors with a knowledge of palliative care
 - whether the palliative care nurses will do nursing tasks or are primarily support/resource/ advisory nurses

· consider the possibility of sharing staff with other medical services

- sharing social workers, occupational therapists, pastoral care workers and other allied health personnel, which
 - can be an educational experience for each group
 - may reduce expenses
- the possibility should always be considered for nurses to rotate between the hospital and the community palliative care service once they have been adequately trained

· do not underestimate the need for both pre-service and in-service training

- many health care professionals (doctors, nurses, and allied health personnel) think that palliative care is simple
 - something that can be done without training, something that we all do naturally
 - others think of it as care of the chronic sick or of the elderly
 - some think of it as merely offering psychological support
- the result is that many who apply to work in palliative care services are totally unsuited for the work
- o all personnel working in palliative care for the first time will need training

what personal and professional qualities should be looked for when recruiting staff?

- o personality is far more important than anything else
 - the undoubted stresses of palliative care are more related to the personalities of the staff than to the work itself
- o they are able to work harmoniously with others
- they are flexible and able to compromise
- o previous experience of palliative care, geriatric care and psychotherapy are not essential
 - everyone will need training
- a sense of humour is essential

Educational Responsibilities

- every palliative care service must be prepared to offer an educational service
 - o varies from an occasional meeting to a full scale course, according to local needs and resources
- to share palliative care skills, expertise and enthusiasm with other (non-palliative care) health care professionals
 - o it is to be hoped that they are the ones who will provide most of the palliative care in the future

Clinical Collaboration

- the ultimate goal in planning a palliative care service is for patients to receive optimal palliative care
 wherever they are (in hospital, hospice or at home), and care which continues in a seamless manner
 when they are moved between places of care
- all local health care providers who may be affected by the palliative care service should be involved in the planning stage, or at least kept well informed
- · details must be discussed from the early planning stages of
 - which patients should be referred
 - o when and how they should be referred
 - o how the new service will integrate with hospital services
 - o how the new service will integrate with general practitioners

availability of diagnostic services

REGULATION AND ACCREDITATION IN PALLIATIVE CARE

The aim should be to have palliative care recognised as a part of routine health care provision and funded in a similar manner

 This requires that palliative care services be audited and the professional staff accredited as for any other health care service

Organisational accreditation

- in some countries, national palliative care associations have developed criteria or standards of care by which palliative care services are judged or accredited
 - o these standards are designed to assess
 - whether a service is operating efficiently (to satisfy government agencies or whoever is funding the service)
 - whether a service is meeting the needs of its patients (to maintain the good name of palliative care and satisfy members of the community)
- · accreditation audits are usually performed every 3 to 5 years

Professional accreditation

- in some countries, professional medical and nursing organisations have established postgraduate qualifications for specialists in palliative care
 - o the criteria to obtain these qualifications varies, but might include
 - a specified number of years working in palliative care
 - attendance at regular courses of continuing education
 - studying for a specialist diploma or degree in palliative care
- in any particular country, the accreditation of doctors and nurses in palliative care should be the same as for any other specialty

EDUCATION AND TRAINING FOR SERVICE STAFF

All doctors, nurses and allied health professionals working in palliative care for the first time will need training

 routine professional education and training does not adequately equip them to offer the best standard of palliative care

Minimum requirements for a doctor include

- knowledge of modern methods of pain and symptom management
- understanding of the complex psychosocial needs of the terminally ill and their relatives
- · understanding of spirituality in relation to palliative care
- · understanding of cultural and ethnic issues in relation to palliative care
- · communication skills in relation to palliative care
- understanding of the ethical issues in palliative care
- · bereavement care
- · working as a member of an interprofessional team

Minimum requirements for a nurse include

- · same requirements as above
- · less emphasis on pharmacological methods in pain and symptom management
- greater focus on observing and recording patients' suffering

In service and continuing education

- are needed to
 - o to maintain skills
 - o keep up-to-date with new developments
- include
 - o clinical meetings and case discussions
 - o journal clubs
 - invited speakers
 - o conferences, including reporting-back sessions after the meeting
 - o visits to other units, particularly if they are of similar size and scope of work
- should be co-ordinated by one member of staff
 - o program development
 - ensuring that each staff member is given the opportunity to attend appropriate courses or conferences
 - encouraging all personnel to keep a record book of professional development
- there should be budgetary provision for continuing education
- each member of staff should keep a record of their specialist training, courses and conferences attended, etc

Library facilities

access to a library is essential in palliative care

- textbooks are useful but are expensive and go out of date
- journals of particular use include
 - o Palliative Medicine
 - o European Journal of Palliative Care
 - o Journal of Pain and Symptom Management
 - o Journal of Palliative Medicine
 - o Progress in Palliative Care
 - Journal of Palliative Care
 - International Journal of Palliative Nursing

Internet access

many internet sites now provide access to a lot of palliative care information

IAHPC http://www.hospicecare.com/

Shaare Zedek Pain and Palliative Care Library http://www.chernydatabase.org/

Palliative Care Formulary http://www.palliativedrugs.net/

Education for Physicians in End of Life Care http://www.eperc.mcw.edu/

Innovations in End of Life Care http://www2.edc.org/lastacts/

Palliative Care Toolkit http://www.chcr.brown.edu/pcoc/toolkit.htm

Growth House http://growthhouse.org/

Palliative Care Discussion Group http://www.mailbase.org.uk/lists/palliative-medicine/

National Pain Education Council http://www.npecweb.org/

Excellence in End-of-Life Care http://www.promotingexcellence.org/

MD Anderson Cancer Center http://www.mdanderson.org/departments/palliative/

EXTERNAL EDUCATION AND TRAINING

Every palliative care service must provide education and training in the principles and practice of palliative care to other health care professionals

- this should be planned from inception
- · it is too often left until after the clinical work and budget are established

In planning an outreach education program

- set up a committee to oversee the educational work of the unit (e.g. palliative care doctor, nurse tutor, local GP, hospital specialist, all with an established interest in palliative care and some experience of teaching)
- be clear what the palliative care unit can offer in terms of time and available expertise
- · cater for all groups, not just doctors
- discuss perceived needs with the groups
- · always obtain feedback after all teaching sessions
- involve local colleges and teachers, especially for topics about which the palliative care unit does not have expertise
- provide coverage of all aspects of palliative care, not just pain control
- don't expect it to generate income

Models

• each palliative care service must design its own model for education, appropriate to local needs and local resources, in co-operation with other providers, be they universities, colleges, other palliative care

units, governments or charitable agencies

- use modern technology if it is available but do not assume that it replaces a gifted teacher
- keep the teaching simple
- palliative care need not be made to sound sophisticated to be worthwhile
- principles are more important than the minutiae

Priorities

- if resources are limited, which professional groups should be given priority for education and training?
 priorities can only be decided locally, but
 - for palliative care to succeed, the doctors must be won over and give it their enthusiastic support
 - the younger the doctors and nurses being offered training, the quicker change occurs in local palliative care practice

INFORMING PEOPLE ABOUT PALLIATIVE CARE

Palliative care workers often report that politicians, the press, fellow professionals and even the public do not know much about palliative care. What do they

need to know and how can we ensure that they are well informed?

Informing politicians

They should know about palliative care because

- it affects the people they represent
- . it requires money over which they have some control
- · it is an integral part of modern health care
- issues raised by it quality of life, value of life, euthanasia are important issues in modern society
- issues related to the availability of opioids and other medications are important issues in developing countries

They can be helped to know more about palliative care by

- establishing an All Party Parliamentary Palliative Care Group. Such groups meet quarterly to hear a
 very brief talk, are given regular briefings on all topics central to palliative care provision in that country
 (funding, staffing, resources, opioid availability etc.) and sent an information pack several times a year
 to keep them up-to-date.
- inviting every local politician to visit the palliative care units in their constituency and attend all public functions.
- inviting the parliamentarians to open new buildings, launch new projects, present prizes so as to keep their names and the work of the palliative care unit before the public

Informing the press

If kept well-informed the press can be the friends and allies of palliative care not its critics or detractors

- they influence public opinion
- they influence politicians
- they can help to raise funds and public awareness
- they offer a platform to deal with key issues such as euthanasia, resource allocation, and opioid availability

They can be helped to know about palliative care by

- being sent regular press briefings by a professional Press / PR Officer employed by the National Palliative Care Association. This ensures high quality briefings and saves individual units trying to prepare press statements
- by inviting local and national press to all palliative care events, big or small
- by having a national panel of palliative care experts willing and able to speak on radio or appear on TV when matters related to palliative care are being discussed
- by inviting photographers to all public-interest events in a palliative care unit
- by having press briefings, preferably chaired by someone with PR experience, when new palliative care projects / services / courses are being launched
- by keeping them informed of what is happening in the rest of the world of palliative care. (There are few better incentives to improve services than learning how much better other countries seem to be doing it)

Informing the Professionals

Fellow professionals need to know what palliative care is, how they can access it, how it might or might not help their patients and how they might practice it themselves

• there are often misunderstandings about what palliative care is. It is seen as terminal care or geriatric care or care of the incurable or care of the chronic sick or as being appropriate only to oncology patients or a dignified and well-intentioned form of euthanasia.

They can be helped to know about palliative care

- by seeing the nature and effectiveness of palliative care when we are called to see their patients. Beyond doubt this is the best demonstration that can be offered
- by the quality of our correspondence about patients, our clinical presentations, our professional papers in peer-reviewed journals and our talks at conferences and meetings
- by being invited to visit palliative care units either as visitors or to advise on patients or to attend 'grand rounds' or clinical meetings
- by the quality of our clinical and organisational audits and standard setting
- by the quality of published papers emanating from palliative care services

Informing the General Public and Patients

To many people hospice / palliative care is care of the dying. Being sent to such a place is proof that death is imminent. Word gets round that the care is good and the staff deeply caring but few people know what a high proportion of patients are discharged home, how palliative care teams operate in many general and specialist hospitals, and that doctors and nurses are increasingly being taught it before qualifying. Even fewer will have heard of Day Hospices and fewer still know what it costs to operate a palliative

care service

They can be helped to know about palliative care

- by hearing about it on the media, reading about it in the press
- by meeting people who have received it or whose relatives have received it
- by reading explanatory leaflets about it in the offices of their family doctors and in hospital waiting rooms
- by reading how they can help it financially in leaflets prepared for their legal adviser's offices
- by reading the special leaflets prepared for every patient, every visitor to each palliative care service in the country

STRESS IN PALLIATIVE CARE

What causes stress in palliative care?

- infrequently: matters pertaining to patients and families
 - o difficult dysfunctional families
 - o emotional attachment to patients
- · frequently: matters related to personal problems, unrealistic goals and the organisation itself
 - organisational
 - poor administration and management
 - poor team leadership
 - unreasonable clinical workloads
 - reimbursement issues
 - inadequate funding for infrastructure, personnel or medications
 - unrealistic goals
 - attempting to solve all problems
 - attempting to deal with long-standing family problems
 - o personal stresses are the main cause of stress at work
 - personal
 - family

How do you deal with stress in palliative care?

- address and remedy organisational problems
- ensure that the goals of the team as a whole and its individual members are realistic
- workers have to take some responsibility for their own psychological health
- whatever the cause, a service has to have adequate support systems in place
- a new service should have a formal staff support system
 - o a monthly multiprofessional meeting led by an experienced facilitator
 - may no longer be required after about two years when the staff are comfortable with each other and their goals realistic
- importance in staff selection: can the person recognize stress, do they have other interests, have they worked in a team, are they flexible?

While no-one will deny that working in palliative care can be stressful, there is no evidence that it is more stressful than most other medical and nursing specialties, and it is probably equally enjoyable and rewarding.



Abbreviations

The following abbreviations are used in this Manual

routes of administration

CSCI continuous subcutaneous infusion

EP epidural

IM intramuscular

IT intrathecal

IV intravenous

PO oral

PR rectal

SC subcutaneous

SL sublingual

TD transdermal

TM transmucosal

time

sec second

min minute

h hour

d day

w week

m month

measures

μg microgram

mg milligram

g gram

kg kilogram

fl fentilitre

μl microlitre

ml millilitre

dl decilitre

I litre

preparations

cap capsule

inj injection

mixt mixture

supp suppository

tab tablet

IR immediate release

SR sustained release

frequency of administration

PRN (pro re nata) as required

q (quantum) frequency, e.g. q4h is every 4

hours

IAHPC Website

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