Palliative Care

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Palliative care: WHO 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 of suffering by means of early identification and impeccable assessment and treatment of pain and other problems, physical, psychosocial and spiritual »

Palliative care: core principles (1)

- Provides relief from pain and other symptoms
- Affirms life, and regards dying as a normal process
- Intends neither to hasten nor to postpone death

Palliative care: core principles (2)

- Integrates psychosocial 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 their own bereavement

Palliative care: core principles (3)

- 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

Palliative care: core principles (4)

Is applicable early in the course of illness, in conjunction with a range of other therapies that are intended to prolong life, such as chemotherapy, radiation therapy, and includes those investigations needed to better understand and manage distressing complications

Palliative care

- Person oriented (not disease oriented)
- Not primarily concerned with life prolongation (or shortening)
- Holistic
- Multidisciplinary
- Definition does not mention the place of care

« There is always something that can be done to improve quality of life remaining to the patient »

Principles of palliative care

• Attitude to care:

caring, commitment, consideration of individuality, culture, consent, choice of site of care

Communication:

Amongst healthcare professionals, with patients and families

• The care:

Clinical context: appropriate, comprehensive and multidisciplinary, care excellence, consistent, coordinated, continuity, caregiver support, continued reassessment

Communication with patients

Basic rules

Interview in person, privacy, sit down, enough time, with family member or friend

Providing information

Medical situation, what treatment can be offered, possible benefits+ burden, avoid precise prognostication, as much/little information as wanted

Information conveyed

In a caring and sympathetic way, understandable, clear, truthful, in a positive manner, use independent interpreters

Palliative care: when?

Palliative care spans the period from the diagnosis of advanced disease until the end of bereavement; this may vary from years to weeks or (rarely) days. It is not synonymous with terminal care, but encompasses it.

Potentially from diagnosis until bereavement

COUNCIL OF EUROPE Recommendation Rec(2003)24 of the Committee of Ministers to member states on the organisation of palliative care and explanatory memorandum. www.coe.int

Traditional view of palliative care:

Symptomatic and supportive PC is withheld until all avenues of treatment for underlying disease are exhausted and the treatment of other medical problems considered inappropriate

Treatment of the underlying disease	Palliative				
Active treatment of medical problems	Care				

Diagnosis of symptomatic incurable illness

Death

Modern view of palliative care:

Symptomatic and supportive PC is complementary to, and seamlessly integrated with, active treatment of the underlying disease

Treatment of underlying disease Cancer: anticancer treatment AINDS: antiviral therapy

Active medical treatment Cancer: hypercalcemia, 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

Increasing palliative care needs

Global cancer rates:

May increase by 50%; from 10 to 15 Mo new cases worldwide between 2000 and 2020:

- 1/3 could be prevented,
- 1/3 cured
- 1/3 treated with quality inexpensive PC
- AIDS projections, 53 most affected countries: Excess mortality due to HIV might increase from 53 to 178 Mo between the current decade and 2000 mid-century

Increasing palliative care needs

Ageing population:

By 2025: estimated 135 Mo >79 yrs old

Of those, 80 Mo in the developing world

Increase in chronic degenerative disorders, disabilities, dementia, malignancies needing palliative care

Insufficient access to palliative care

- 50% of world's new cancer cases and deaths occur in developing nations, already 80% already incurable at the time of diagnosis
- Adequate palliative care is still unavailable to 80-90% patients in those countries

Access to palliative care

- Inequitable and insufficient in spite of existing knowledge
- The development of palliative care through effective and low cost approaches represents a priority in order to respond to the urgent needs of the sick and improve their quality of life

Symptom management



Symptom prevalence in advanced cancer patients

275 consecutive advanced cancer patients

Symptom	Prevalence 95% confidence interval						
Asthenia	90	81-100					
Anorexia	85	78-92					
Pain	76	62-85					
Nausea	68	61-75					
Constipation	65	40-80					
Sedation-confusion	60	40-75					
Dyspnea	12	8-16					

Bruera. Oxford Textbook of Pall Med 1998

Definition of pain

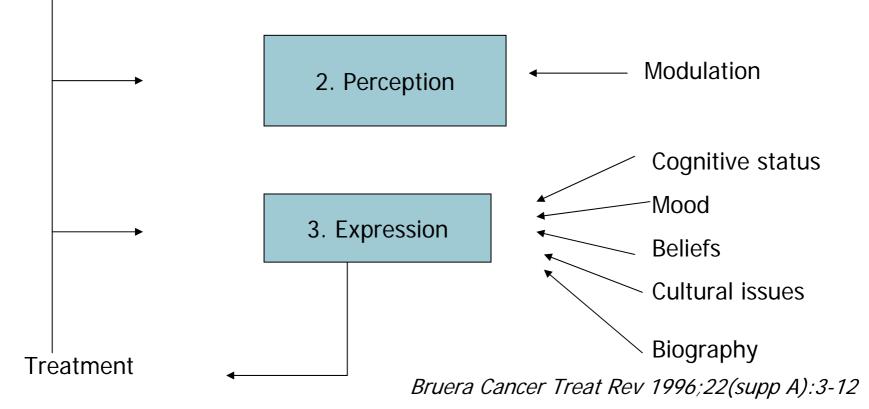
«Pain is an unpleasant <u>sensory and emotional</u> <u>experience</u> associated with actual and potential tissue damage or described in terms of such damage ».

Pain is always subjective.

IASP (International Association for the Study of Pain)

Schema of symptom construct

1. Production / construct



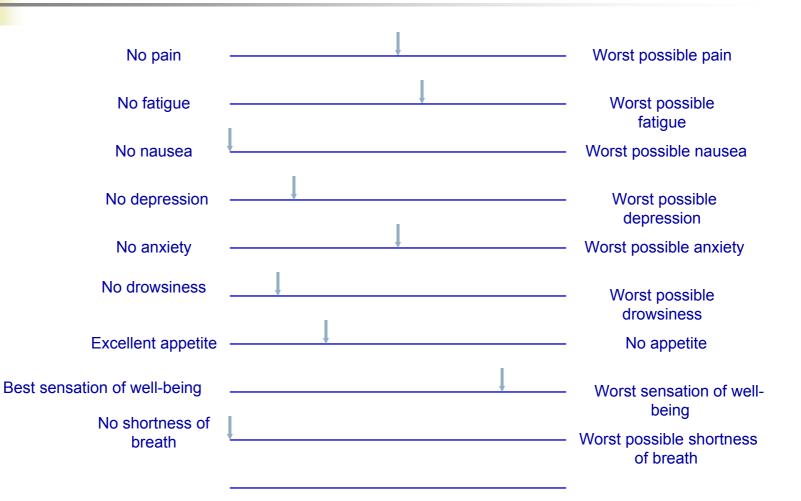
Principles of pain management (1)

• Adequate and constant evaluation:

- 1. Cause (cancer, cancer treatment, not related to cancer)
- 2. Intensity (visual analogue scale, numerical, verbal, etc)
- 3. Alcoholism/drugs (CAGE questionnaire, etc)
- 4. Psychosocial distress (somatization)
- 5. Cognitive function (MMSE, etc)
- 6. Mechanism (neuropathic, nociceptive, etc)
- 7. Nature (continuous, incidental)
- 8. Other related symptoms (ESAS, etc)

	Assessment of pain intensity											
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Edmonton symptom assessment



Edmonton Symptom Assessment System

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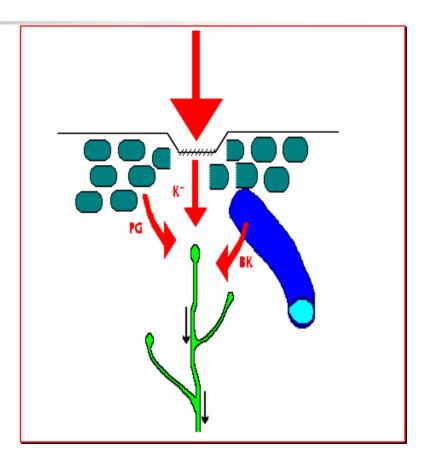
Types of pain

Nociceptive pain

Activation of nociceptors in the different tissues/organs by tissue damage

Somatic pain Well localised

Visceral pain Poorly localised, deep, dull, cramping, referred



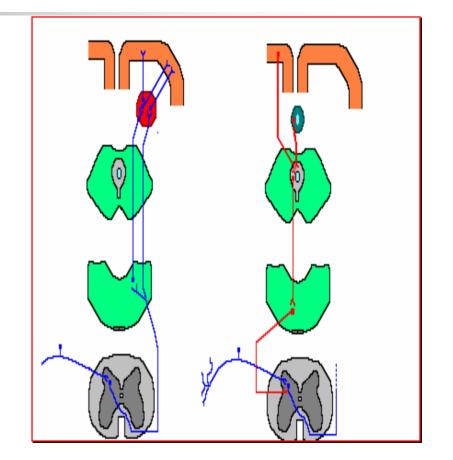
Types of pain

Neuropathic pain

Peripheral or central alteration of nerve conduction

Dysesthesias: burning sensation, numbness, tingling, as well as sharp and shooting, paroxystic exacerbations

> Associated with a sensory deficit, hyperesthesia, allodynia; in the region innervated by the affected nerve structure (dermatoma, radicular distribution, etc.)



Principles of pain management (2)

General measures:

- Communication, environment
- Treat the cause (when possible and reasonable)

Treat the symptoms:

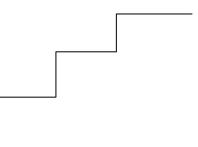
- pharmacologically systemic analgesics (WHO guidelines)
- local measures: eg; cold, heat, position, local application of anaesthetics or opioids in painful ulcerations
- invasive treatments: injection of trigger zones, blocks (eg coeliac plexus in painful pancreatic cancer if specialist available and simple analgesics fail)
- Holistic care, considering patient as family as the unit of care

Symptomatic pain medication

By the mouth

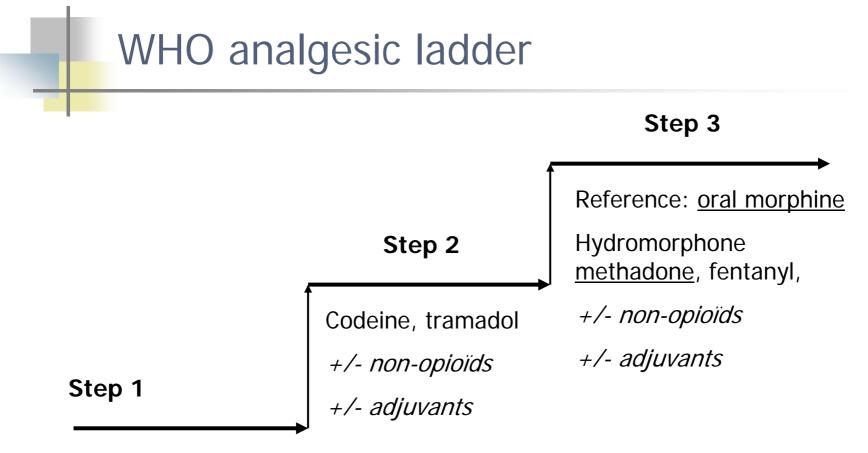


By the ladder



By the clock





Non-opioïd:

Paracetamol, AINS

+/- adjuvants

WHO, in collaboration with IASP 1999

Step 2: Codein

Biotransformation into morphine by Cyt. P450.

Iso-enzyme absent in 7-10% Caucasians. In those cases, codein will probably be poorly effective

Dose: 30-60 mg/4h

Step 2: Tramadol

- Weak Opioïd + noradrenergic effect (noradrenalin and serotonin)
- Kidney elimination
- Doses: initially: 50 mg/6-8h and 15-20 mg breakthrough (analgesic effect: 3-7h with chronic administration) maximal studied dose: 400 mg/d. In the elderly > 75 yrs: 300 mg
- Frequent side effects: nausea/vomiting, dizziness, sweating, dry mouth, constipation risk of convulsions

Step 2: Tramadol

Potentially dangerous drug interactions, particularly with antidepressants: SSRIs, tricyclics, IMAO:

serotoninergic syndrome

Schaad, Med et Hyg 2001;2346

Serotoninergic syndrome

Gastro-intestinal	Cramps
	Diarrhea
Neurological	Headaches
	Dysarthria
	Incoordination
	Myoclonia
Cardiovascular	Tachycardia
	Hypo/hypertension Cardiovascular collapsus
Psychiatric	Confusion
	Dysorientation
Other	Sweats
	Hyperthermia
	Hyperreflexia

Step 3: initiation of treatment

Morphine is the narcotic of first choice, since it is the most cost-effective

Give explanations to the patient, patient and family education

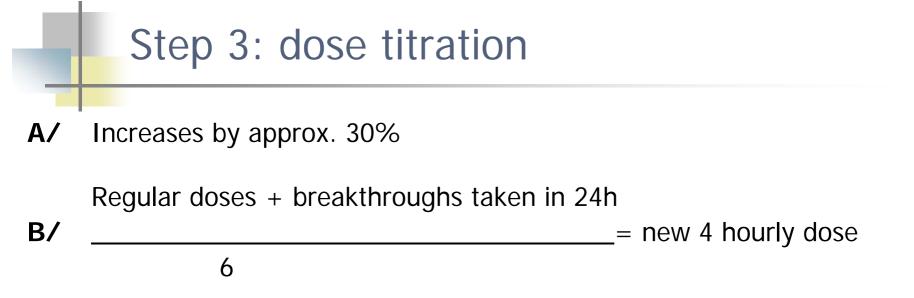
• Start with a short acting substance; oral morphine

A. Opioid naive patient:

5 mg/4h

Breakthrough, if pain in between regular dosis: 4-hourly dose, to be repeated if needed up to every hour. Monitor treatment response (analgesic as well as possible adverse effects)

<u>B. Patient previously treated with another opioid (ex.: step2):</u> Start at least by the equianalgesic dose!



- Adjust breakthrough doses (4 hourly dose)
- © Reassess if need for more than 3 breakthroughs/day

Step 3: when stable and well controlled pain

- Switch to a slow-release form if necessary: eg MSContin 24h dose slow-release form= 24h dose short acting form Slow release morphine tablets: q 12h
- Prescribe breakthrough doses (in short acting form): Equivalent to the 4 hourly dose, q 1h
- Reassess at regular intervals
 Adapt doses by approx. 30%

Another interesting opioid: methadone!

- Very cheep
- Probably more effective in neuropathic pain
- To be used by experienced professionals only: particular pharmacological characteristics (long half-life: 1 to > 60 hrs, important interindividual variability, pharmacological interactions)

Some other opioids

Fentanyl: Ex Transdermal Duragesic:

Pure µ agonist, 100x more potent than morphine Only for stable pain, previous titration with short acting opioid Mainly liver metabolism Very expensive!

Buprenorphine:

Partial agonist, ceiling effect Do not associate it with other opioids Liver metabolism, no accumulation in renal failure

Meperidine/pethidine:

Contraindicated for chronic use Neurotoxic: risk of myoclonus and seizures

Opioids: feared effects

Addiction:

Almost *never* in a well managed pain treatment

Physical dependence:

Means withdrawal when medication abruptly stopped of in the case of administration of an antagonist

Tolerance:

Need to increase doses in order to maintain the same effect *Very rarely a* problem in clinical practice

Opioid side effects

Type of effect	Characteristics	Treatment
Constipation	No tolerance	Systematic prevention and treatment Stimulant and osmotic laxatives
Nausea-vomiting	Approx. 30% patients 1st week	Metoclopramide or haloperidol
Drowsiness	Often mild during 1st days of treatment	Assess. If major, decrease dose. Rule out aggravating factors
Neurotoxicity	Particularly if renal failure. Myoclonus, delirium, hyperalgesia/allodynia, hallucinations	Hydrate. If possible change opioid. Rule out aggravating factors. Treat symptoms (ex haloperidol)

Adjuvant analgesics

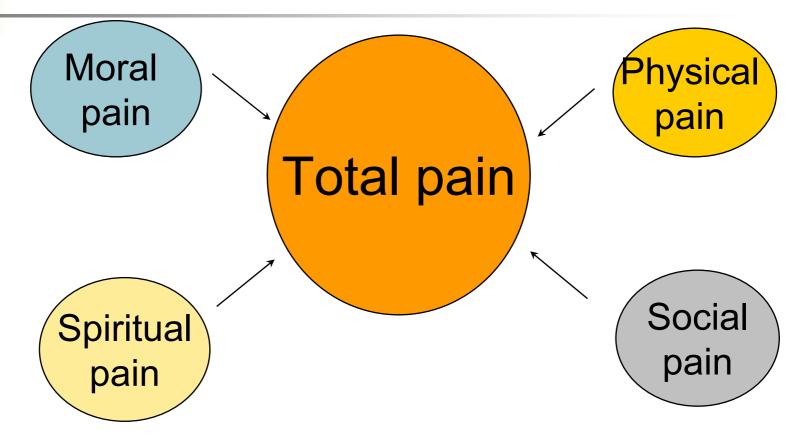
Type of drugs	Indications	Precautions
NSAIDS	Bone pain, inflammatory process	Beware side effects, eg renal failure and opioid toxicity
Corticosteroids: Ex: dexamethasone	Intracranial hypertension, epidural spinal cord compression, distension of liver capsule	Beware side effects, especially long term. Decrease to minimal effective dose
Spasmolytics (Buscopan)	Intestinal or urinary muscle spams	
Anticonvulsants Ex: Gabapentin	Neuropathic pain	Beware side effects
Antidepressants Ex: amitryptiline	Neuropathic pain	Beware side effects and interactions
Bisphosphonates Ex: Pamidronate, Zoledronate, Clodronate	Metastatic bone pain and decreased « bone events »	Flue-like symptoms, beware renal failure. Expensive

Efficacy of cancer pain management

- WHO step ladder is said to be able to successfully manage pain in approximately 80-90% of patients
- Despite available knowledge and drugs, studies show that 38-74% cancer patients suffer from unrelieved pain

Davis MP, Walsh D. Am J Hospice and Palliative Care 2004

Care of the whole person Need for competence and empathy



Cicely Saunders - WHO - 1990

Barriers to pain management

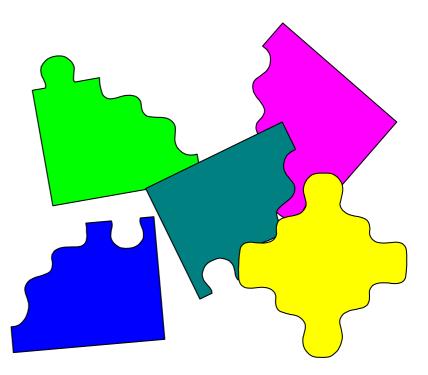
- Inadequate assessment of pain
- Inadequate knowledge about pain an its treatment
- Concerns about possible side effects of pain medications
- Patients' and physicians' attitudes, fears and misconceptions about pain and opioids
- Misinformation about opioid tolerance and dependence issues
- Poorly accessible or unavailable pain management services
- Improper and misguided regulation by governing agencies

Palliative care in the developing world. IAHPC 2004

Guiding principles for service planning

Care for incurable patients: levels of care needed

- 1. Palliative approach
- 2. Specialist palliative interventions
- 3. Specialist palliative care teams



1. Palliative approach

Possible by all healthcare professionals, provided appropriate training, drug availability and recognition

- * Central role of GP and nurse providing home visits
- * Importance of care provided by family and friends, who need to be empowered as effective caregivers

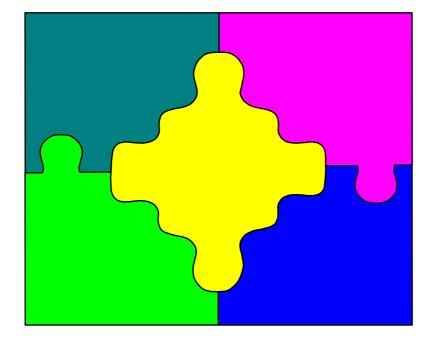
2. Specialist palliative interventions

Provided by different specialists:

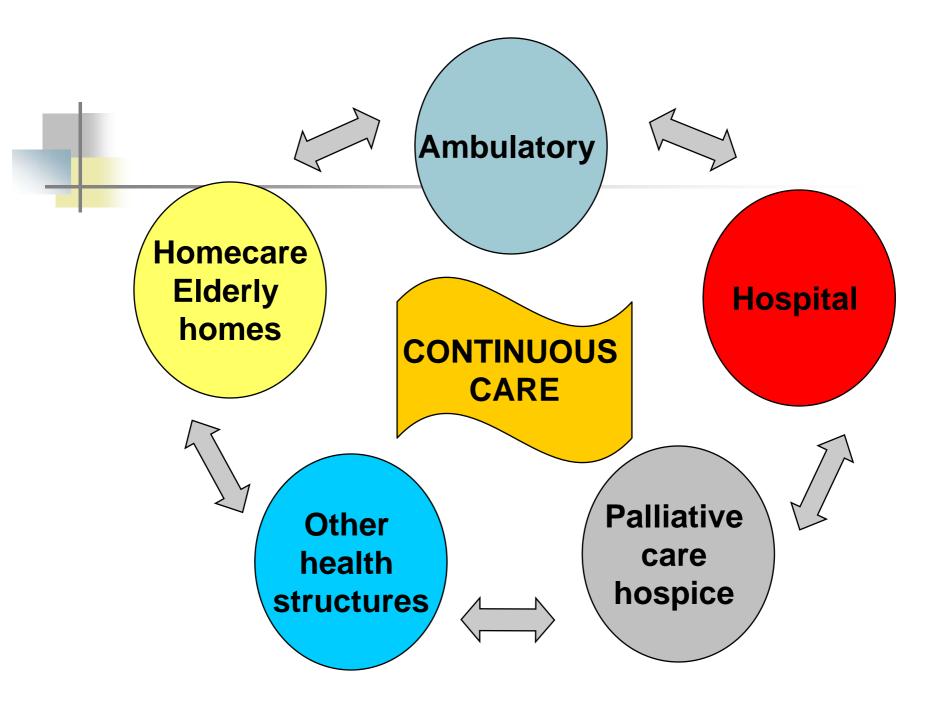
- * Oncologists. Ex: chemo-hormone therapy for sensitive tumors
- * Radio-oncologists. Ex: irradiation of bone mets, epidural spinal cord compression
- * Surgeons. Ex stabilisation of an impending fracture
- * Anesthesiologists. Ex: nerve blocks, coeliac plexus block

- 3. Specialist palliative care teams
- Specially trained teams in:
 - * Inpatient hospices
 - * Consult hospice or palliative care home care teams
 - * Hospital palliative care consult teams

Complex patient and family situations, support for the healthcare professionals, teaching and research



Each of those levels must learn to work in close <u>communication</u> and <u>coordination</u> with eachother



Foundation measures:

little cost, big effect (Stjernswärd J. JPSM 2002;24(2)259)

Education

-Public, professionals
- Undergraduate education for doctors and nurses
- Postgraduate training
- Advocacy (policy makers, administrators, drug regulators)

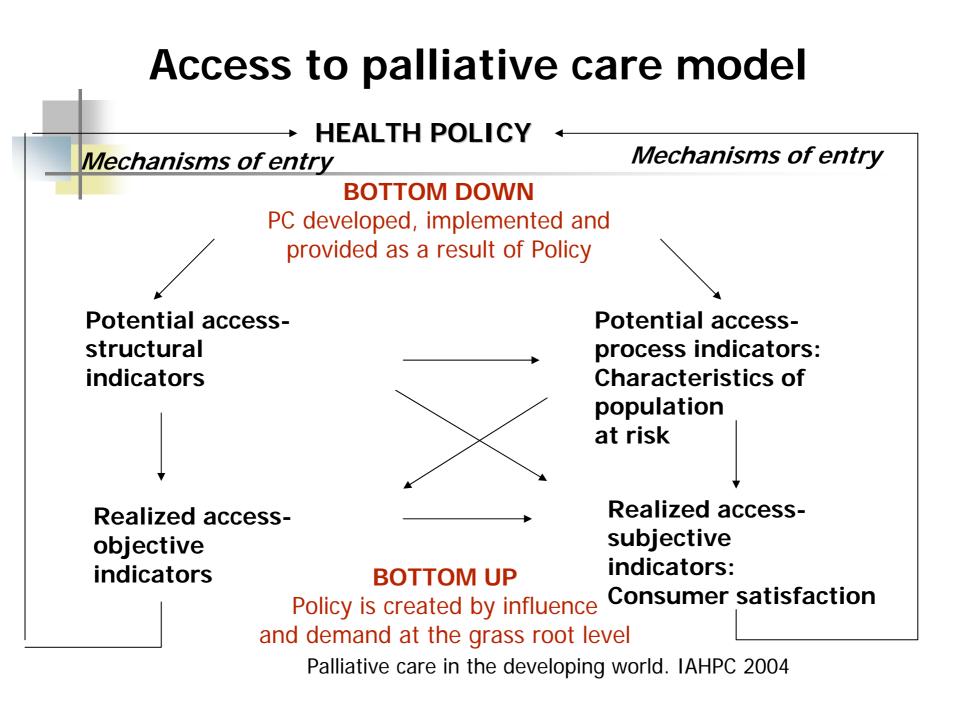
Drug availability

 Changes in legislation to improve availability especially of cost effective opioids
 such as morphine sulfate tablets

 Prescribing made easier
 and distribution, dispensing
 and administration improved

Governmental policy

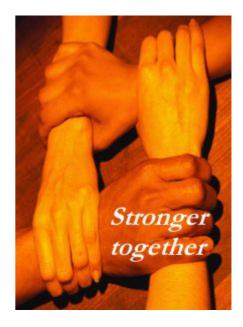
- National policy emphasizing the need to alleviate unnecessary pain and suffering of the chronically and terminally ill
 - Governmental policy integrating PC into the healthcare system
 - Separate systems of care are neither necessary nor desirable



Palliative care: importance of research and audit

Importance of networks and partnerships

- Share knowledge, ideas and practices
- Through creative and systematic efforts, collect informations and evaluate the most promising approaches
- Add visibility to palliative care



Palliative care: useful international organisations

- International Association for Hospice and Palliative Care <u>www.hospicecare.com</u>
- WHO Programme on Cancer Control
- EAPC (European Association for Palliative Care) <u>www.eapcnet.org</u> and <u>www.eapcare.org</u>
- Hospice Information Service St Christopher's Hospice London <u>www.hospiceinformation.co.uk</u>

Palliative care: some references

- Oxford Textbook of Palliative Medicine 2005
- Palliative Care in the developing world: principles and practice. IAHPC Press 2004
- WHO guidelines on Cancer pain, opioid availability, symptom control and palliative care
- Ripamonti et al. Clinical-practice recommendations for the management of bowel obstruction in patients with end-stage cancer. Support Care Cancer 2001;9:223-233
- Edmonton Regional Pallative Care Program: <u>www.palliative.org</u> (useful contents about: clinical work, educational opportunities, informations for general public, links, research and literature)