

Cambridge University Hospitals

NHS Foundation Trust



Pain Management for Pancreatic Cancer Patients.

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Pain in pancreatic cancer - overview

- 5 year survival <5%
- 50-70% pancreatic cancer patients have severe pain
- Classically abdominal and back pain
- May have multiple pains
- Early recognition and referral for pain management
- Manage pain alongside surgical or oncological treatments, Enhanced Supportive Care
- Pain is a subjective somato-psychic experience
- Site of tumour plays a role



Causes of pancreatic cancer pain

- Stent insertion
- Inflammatory
- Infection
- Neuropathic
- Visceral
- Somatic
- Post surgical
- Psychological distress
- **Other conditions**
- Total pain



Total Pain

Physical

Cancer
Treatment
Insomnia & chronic fatigue
Debility
Concurrent problems

Psychological

- Anger at therapeutic failure
- Fear of pain +/- death
- Feelings of helplessness



Social

Worries about family & finances
Loss of job prestige & income
Loss of social position

Spiritual

Why does this happen to me?
Why does god allow me to suffer like this?
What is the point of it all?



Pain Management

- WHEN
- WHO
- HOW



• WHEN



Enhanced supportive care /early palliative care / symptom management

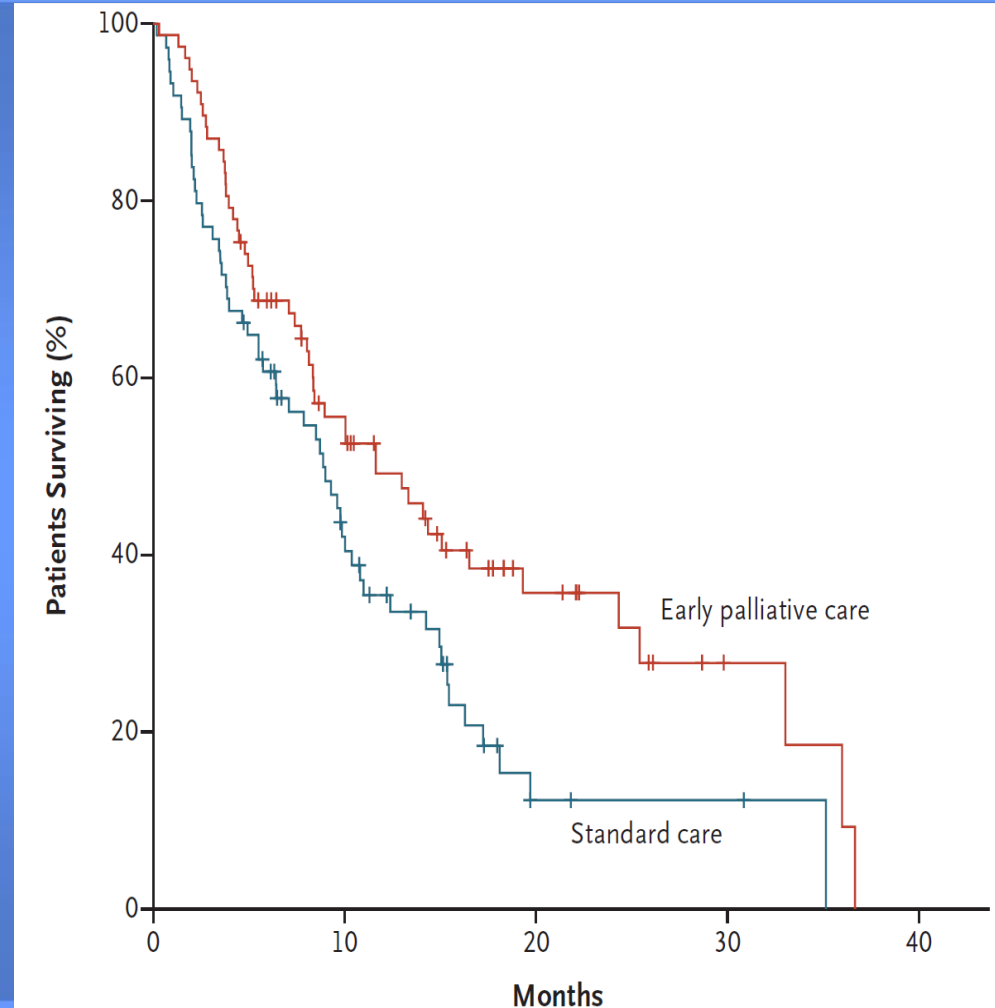
- Palliative care holistic assessment early
- Patient led agenda
- Allow patient to dip in and out
- Well being/living well
- Difficult conversations, future care planning
- Opportunity to weigh up benefits and burdens of treatments
- An alternative to chemotherapy or active oncological treatments or alongside oncological management
- Symptom management started early



	Control group	ESC group
Mortality (%)	28 (56%)	27 (54%)
Median survival (time from diagnosis to death)	293 days	431 days
CCC Admissions	34	22
Admissions to other Trusts	46	18
Total bed days	316	228
Average bed days	6.3	4.6
30 Day Chemo mortality (%)	8 (16%)	1 (2%)
Is PPC documented?	2	15
PPC achieved?	1	6
Missed Appointments	17	18
Deferred chemotherapy sessions	51	20



Early Palliative Care (NEJM, J. Temel 2010)



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•WHO

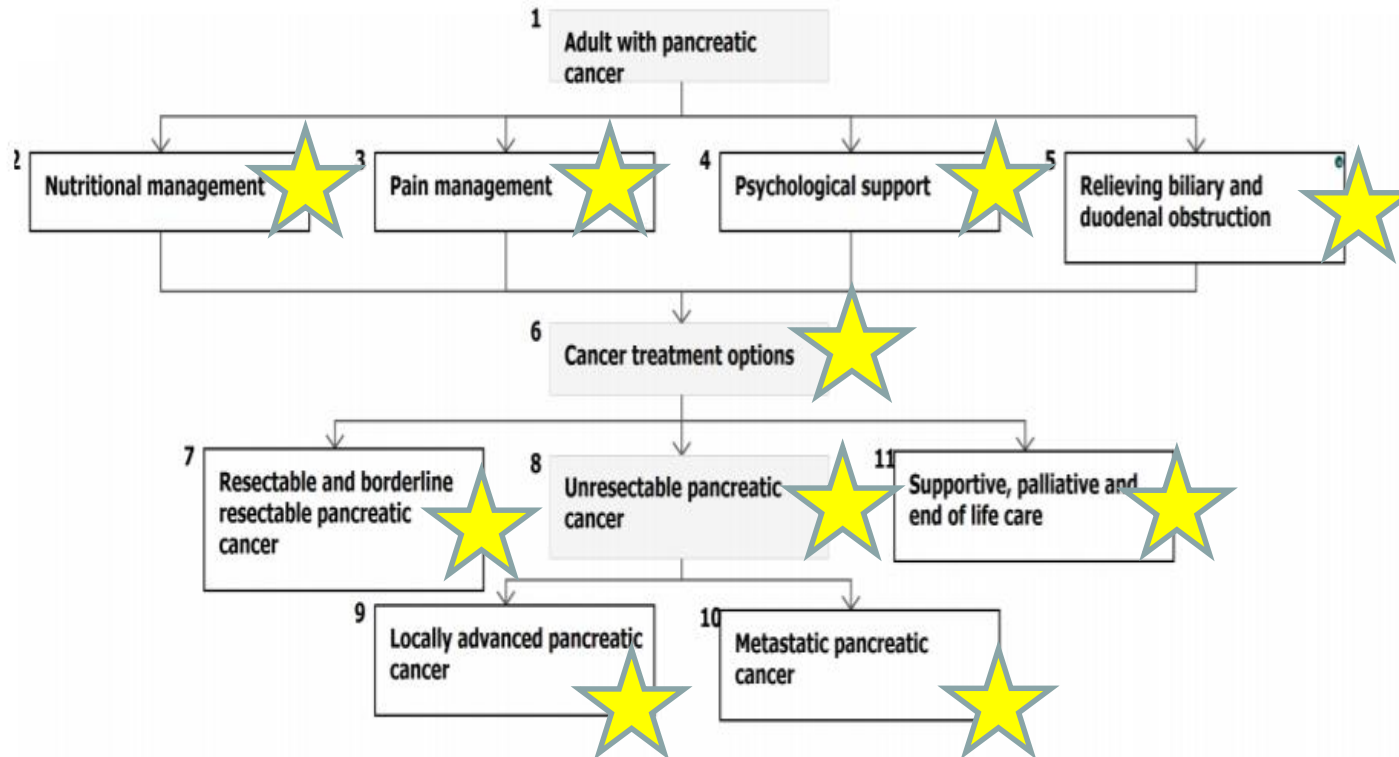
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NICE Guidance 2018 - Pancreatic Cancer

Managing pancreatic cancer

NICE Pathways



• HOW

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Pain history

- Acknowledge and validate the symptom
- How many pains
- Post op pain or persistent pain
- Site, Character, Frequency
- Precipitating and relieving factors
- Holistic assessment, impact of psychological state
- Pain management in the context of future care planning
- What do I expect this patient to be doing in 2 weeks time or 2 months time?
- Relationship to other symptoms
- Incident pain



Non pharmacological management

- Information

“Without honesty and planning patients may feel isolated, distressed, frightened, this impacts on pain and symptoms”

- TENS machine
- Heat pads
- Complementary therapies, acupuncture
- Psychological support



NICE Guidance Pain Management in Pancreatic cancer

- Consider EUS-guided or image-guided percutaneous neurolytic coeliac plexus block to manage pain for people with pancreatic cancer who:
- have uncontrolled pancreatic pain
- **or** opioid adverse effects
- **or** escalating doses of analgesics.



Interventional pain management

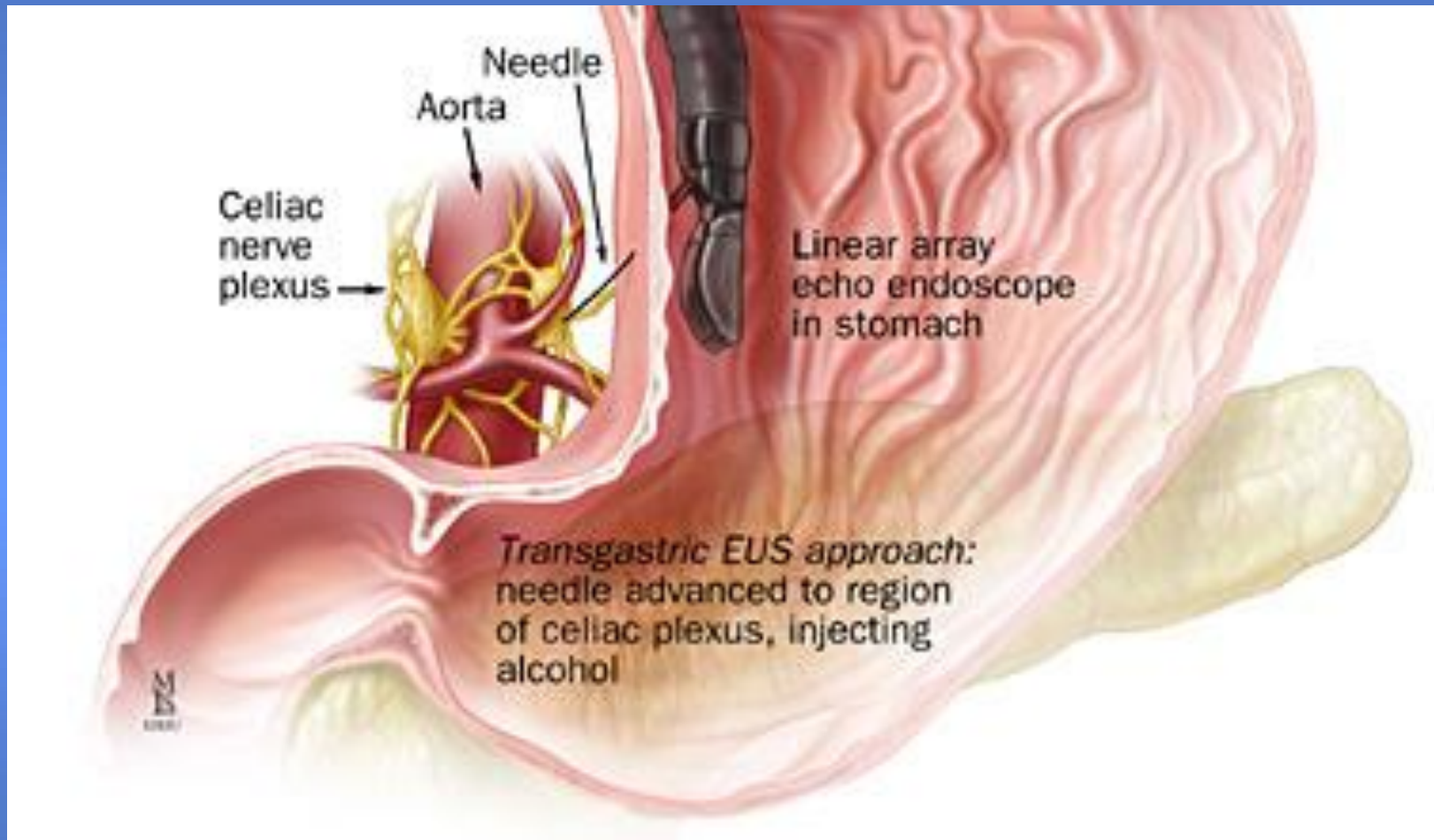
- Coeliac plexus block/neurolysis
- Sympathectomy
- Epidural
- Pancreatic duct stent

Coeliac plexus block

- Opioid sparing
 - When? (Amr et al 2013)
 - How? Cochrane review 2011
 - Benefit for 4 weeks, not sustained at 8 weeks
 - Contraindications – infection, anti-coagulation, haemorrhagic conditions
- Amr et al



Coeliac Plexus nerve block



Drugs

- WHO Pain Ladder
- Route of administration
- Side effect profile
- Anti inflammatory
- Opioids, methadone
- Anti-neuropathic agents
- Anti-spasmodic
- Ketamine
- Benzodiazepines
- Steroids



Opioids

- Morphine
- Oxycodone
- Fentanyl
- Alfentanil
- Buprenorphine
- Methadone
- Side effects
- Renal and liver failure choices
- Morphine myths



Morphine Myths

- Addiction
- Confusion
- Unable to drive/function
- 'It must be really bad'
- Nothing left for later



Anti-neuropathic agents

- Gabapentin
- Pregabalin
- Amitriptyline
- Duloxetine
- Opioid sparing?



Pancreatic
Cancer
UK

Pain and pancreatic cancer



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Summary

- Pancreatic cancer pain(s) management is complex and **needs a multi modal holistic approach**, involve palliative care early
- Use interventional nerve blocks
- Opioids are the mainstay of drug management
- Use anti inflammatory and anti- neuropathic drugs
- Remember morphine myths



References

- Cochrane Review - Coeliac Plexus Block for pancreatic cancer pain in adults. 2011
- Amr YM et al. Journal of Pain Sep 2013 v29 Comparative study between two protocols for management of severe pain in patients with unresectable pancreatic cancer :one year follow up
- Koulouris A et al Digestive diseases and science. April 2017 v 62 Pain in patients with pancreatic cancer: prevalence Mechanism Management and Future Developments
- Lahoud M et al Road map for pain management in pancreatic cancer. World Journal of gastrointestinal oncology Aug 2016 v8
- Velayudhan et al opioid-induced hyperalgesia. Continuing education in anesthesia, critical care and pain. V 14, June 2014
- Vayne-Bossrat P. et al. Interventional options for the management of refractory cancer pain – what is the evidence Support Care Cancer Sept 2015 v24
- Dobosz I et al Invasive treatment of pain associated with pancreatic cancer on different levels of WHO analgesic ladder. 2016 BMC Surgery
- NICE Guidance 2018
- Palliative Care Formulary



Any Questions?



Methadone

- mu and delta opioid receptors agonist
- NMDA receptor antagonist
- Metabolised in liver, excreted by intestines and kidney
- Beware QT prolongation
- Large volume of distribution
- 4-7 days to reach steady state
- Widely variable plasma half life
- Oral, s.c. or s.l. mixture
- Alternatively use low o.d. dose in addition to other opioids



Ketamine

- General anaesthetic
- NMDA antagonist, blocks excitatory channels
- Significant side effects - psychotomimetic effects, urinary and hepatobiliary toxicity
- Short burst therapy sc
- Continuous therapy orally
- With benzodiazepines

