

Pijn bij maligniteiten

Xander Zuidema



Casus

- Vrouw 52 jaar
- Gemetastaseerde mamma CA in plexus LS
- Continue pijn linker been: NRS7
- Exacerbaties 3 dd NRS 10!
- Opiaat behoefte: > 400 ug fentanyl/h
- Overige analgetica; amitriptyline 3 dd 25 mg, Lyrica 2 dd 225 mg, clonidine 2 dd 75 ug
- Oncologische prognose: jaren
- QoL: vraagt euthanasie vanwege bijwerkingen

Wat nu?



Epidemiologie van pijn bij maligniteiten

Wat is pijn ?

Behandelingen

IDDS

Epidemiologie

- **Prevalentie**

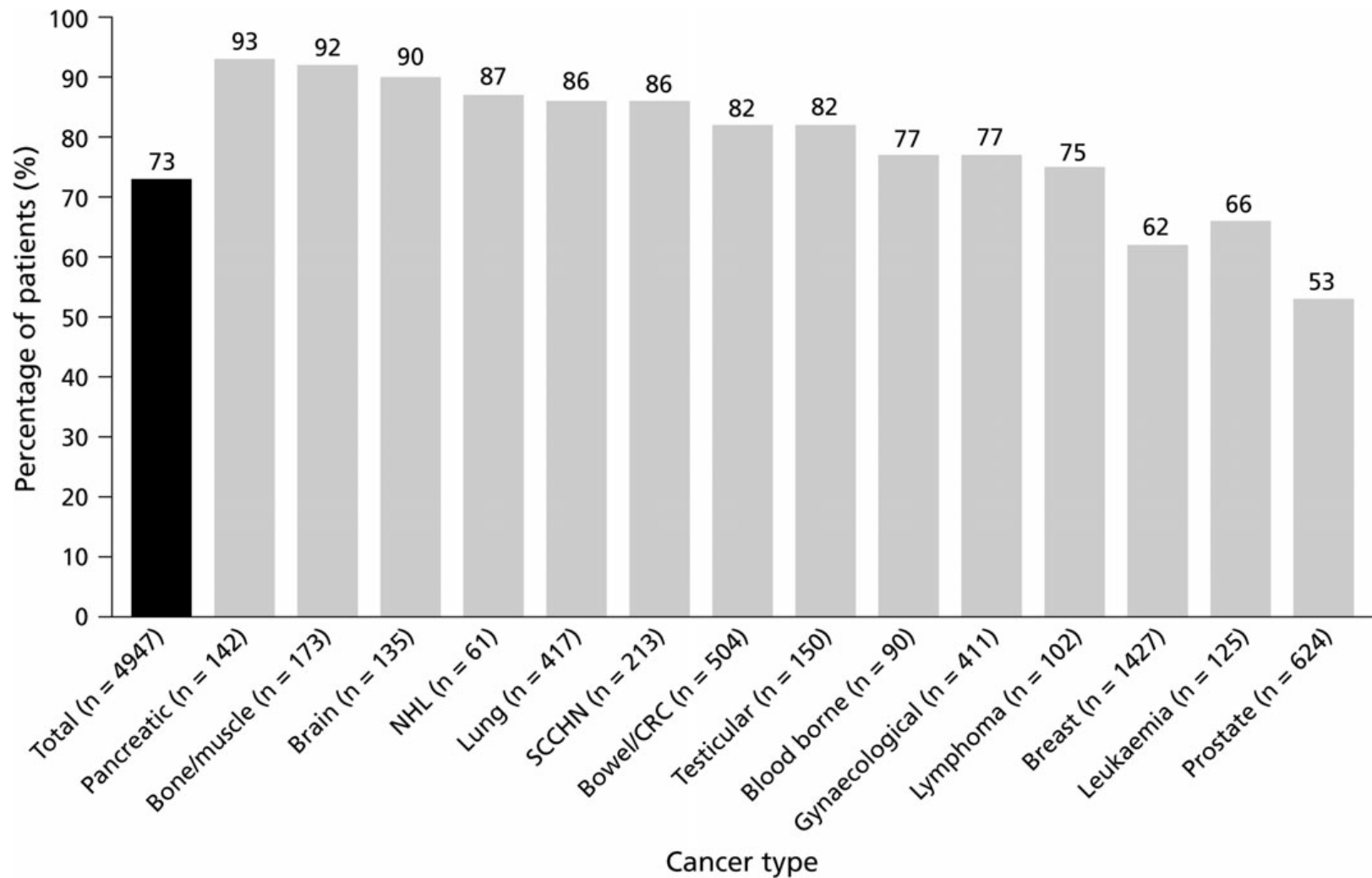
- Vroege fase : 30-45%
- Gevorderd stadium: > 75 %
- Toemenende aantallen

- **Pijn intensiteit**

- > 30% NRS 4-6
- 25% NRS 7- 8



Epidemiologie

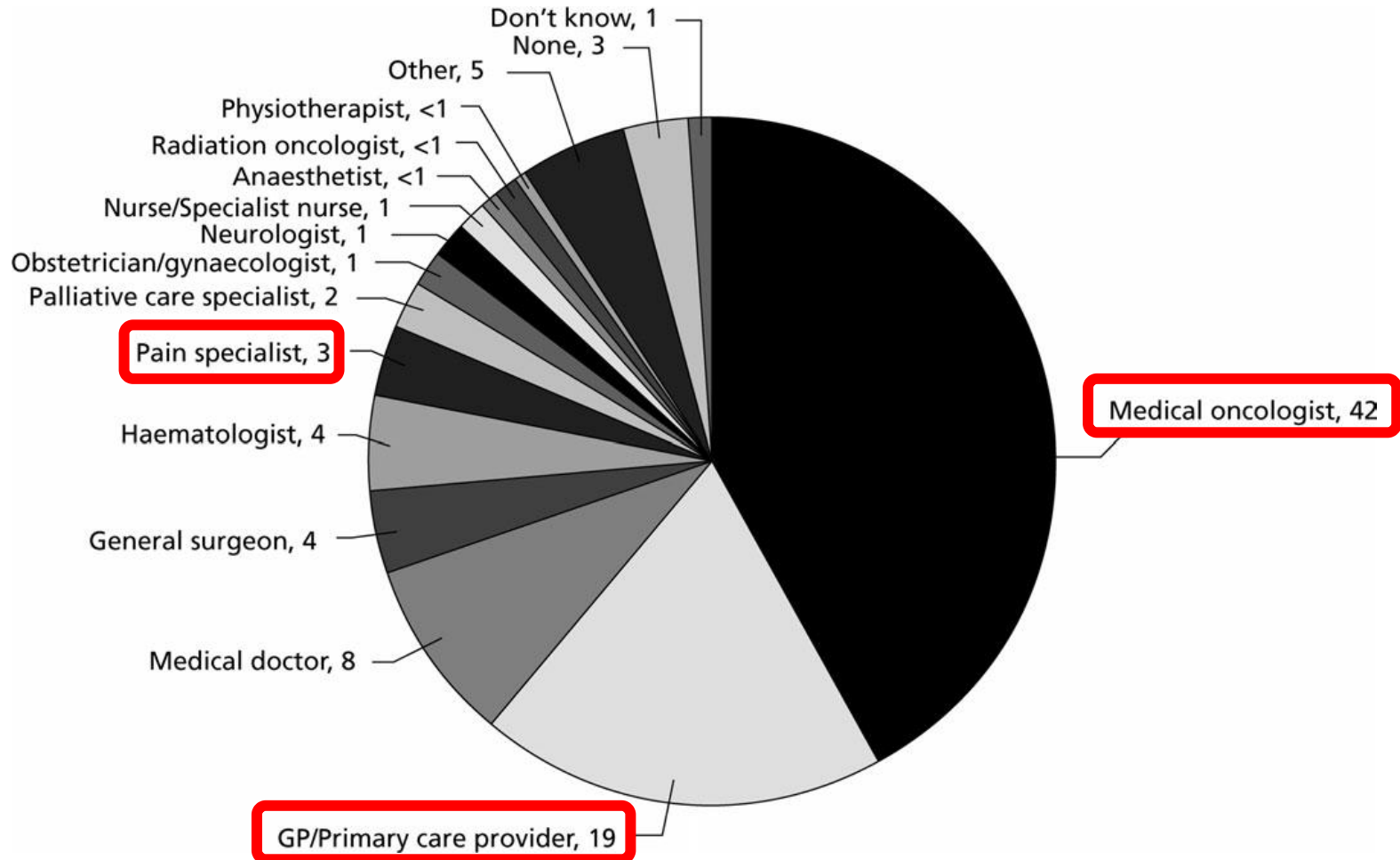


Epidemiologie

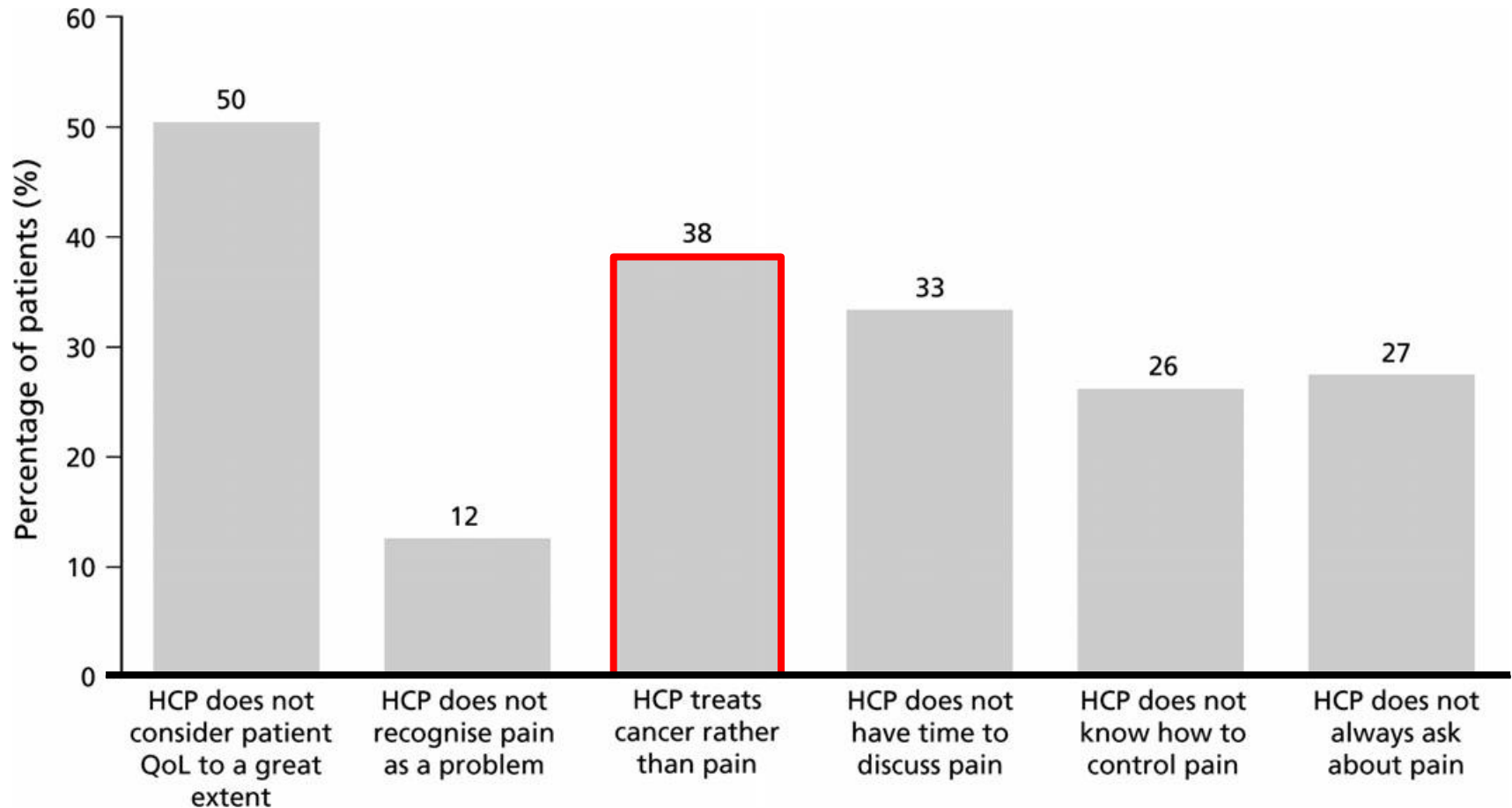
15 jaar geen verbetering!

Jaar	Auteur	Prevalentie	N
1995	Larue	57 %	605
2007	v/d Beuken	53 %	8008
2009	Breivik	56 %	5084
2010	INCA	53 %	1541

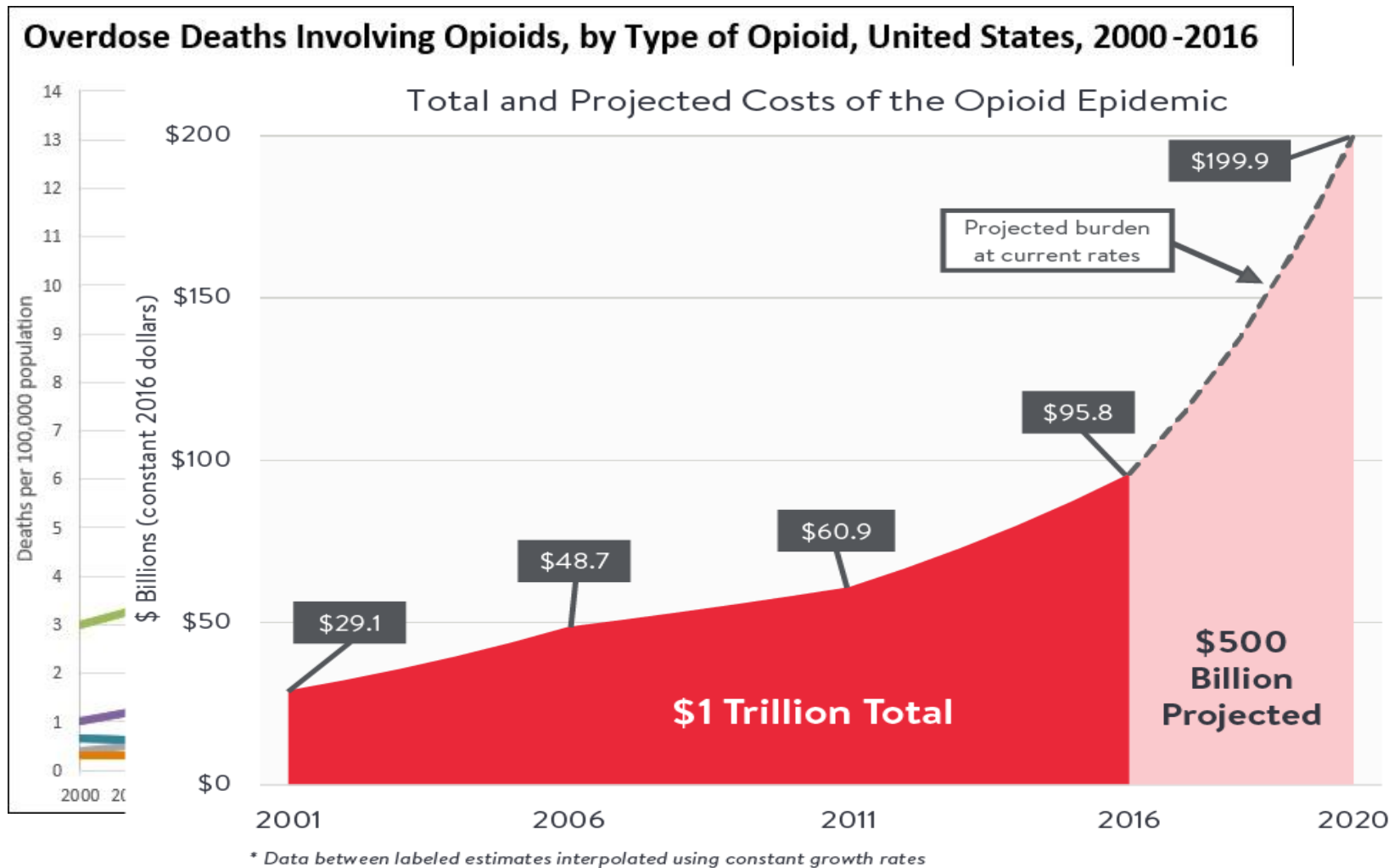
Wie behandelt pijn?



Attitude rondom pijn



Gevolgen



Michael Collins. USA TODAY. Sep 17, 2018

Economic Toll of Opioid Crisis in U.S. Exceeded \$1 Trillion Since 2001 Altarum. February 13, 2018

Doorbraakpijn

Figure 1: Intensity of BTP in cancer patients (N=152)

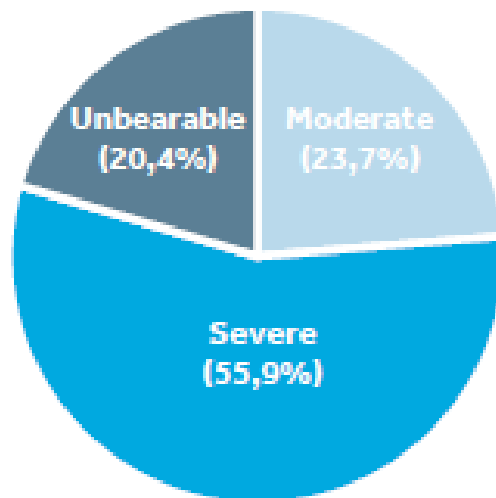


Table 1: Monthly cost per patient by type of resource consumed

Resource Category	Cost/patient/month (€)
Direct Costs	2,572.5
Healthcare visits*	834.1
Hospital admission	1,045.9
Treatments (pharmacy)	500.3
Imaging & laboratory tests	192.2
Nonmedical costs [§]	168.5
Indirect costs due to productivity loss [‡]	200.7
TOTAL MONTHLY COST	2,941.6



"She says she was trying acupuncture to relieve his chronic headaches."

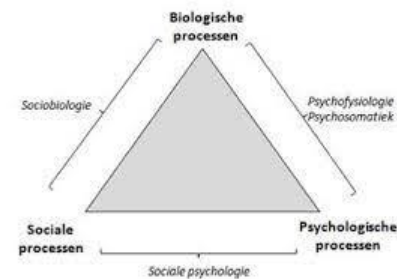
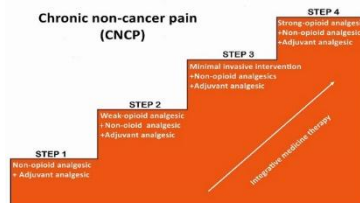
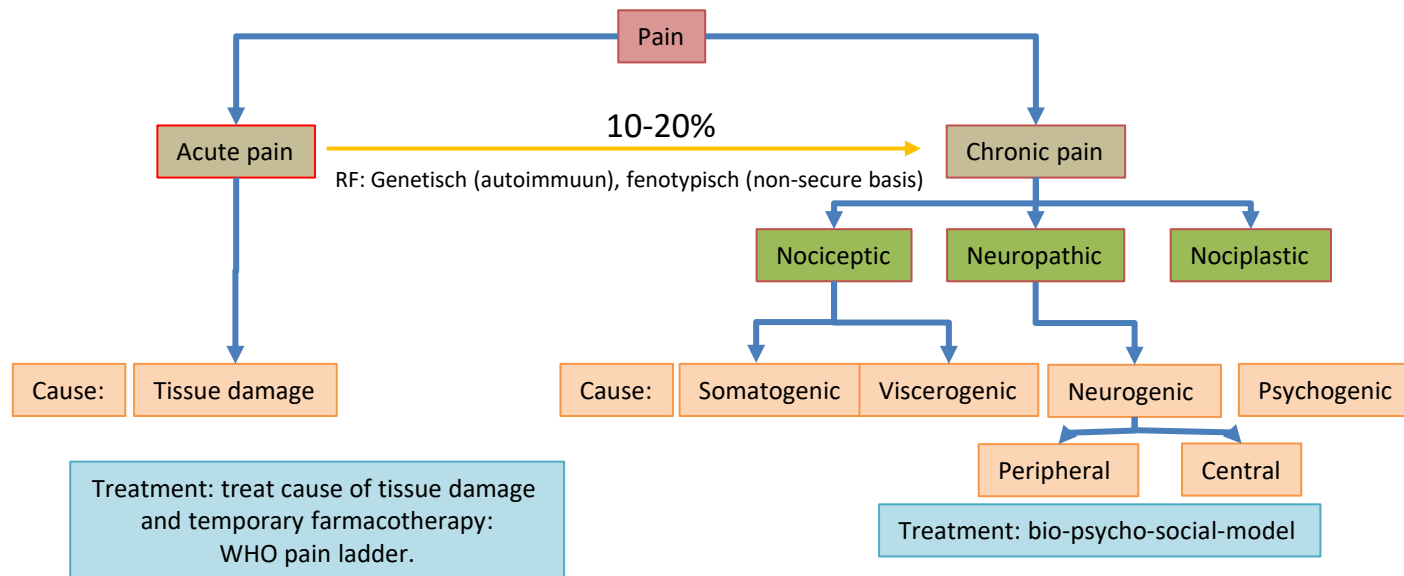
Paradigm shift



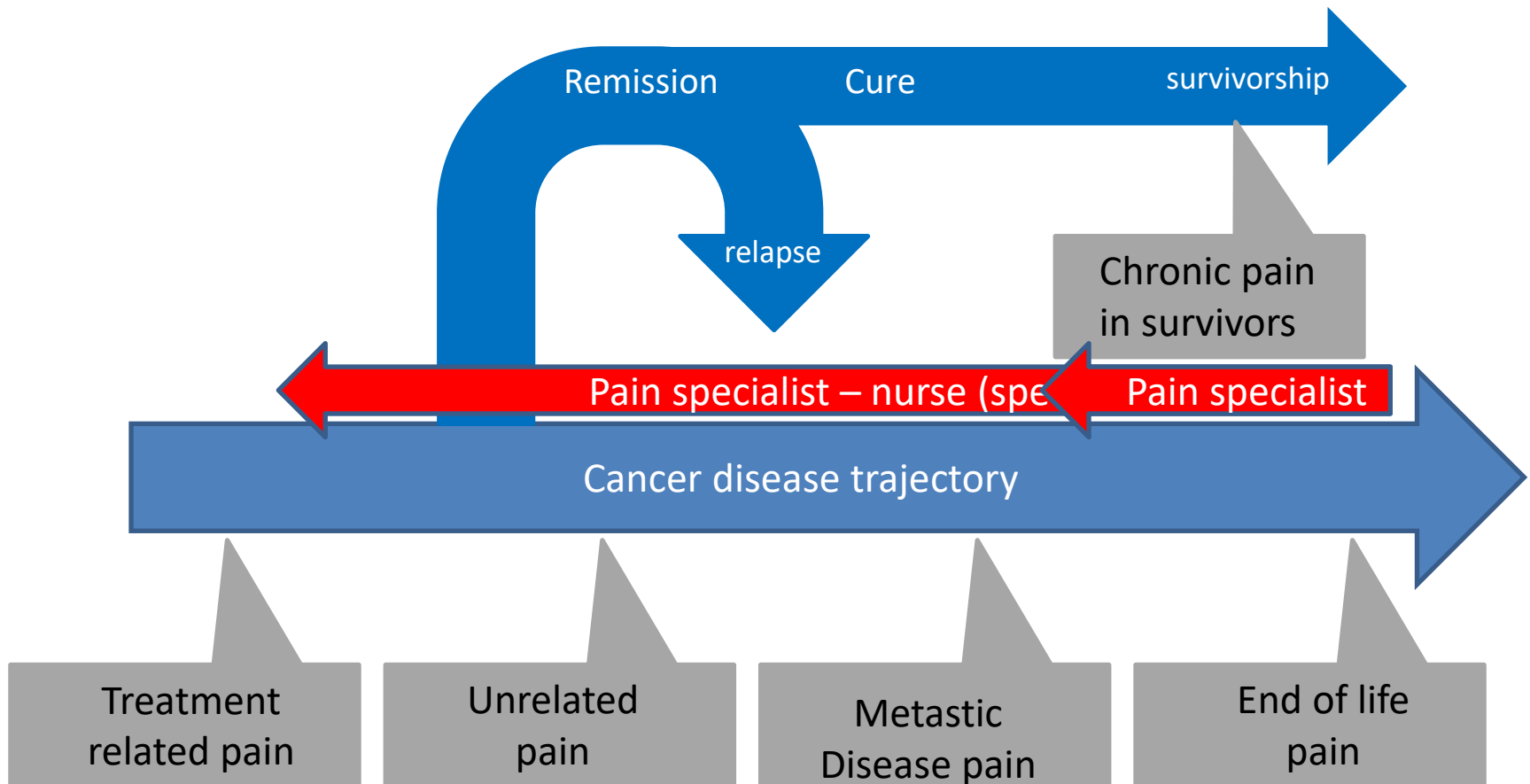
Wat is pijn?

- Definitie van de International Association for the Study of Pain (IASP)
- "een onplezierige, sensorische en emotionele ervaring die gepaard gaat met feitelijke of mogelijke weefselbeschadiging of die (door de patiënt) beschreven wordt in termen van een dergelijke beschadiging".

Wat is pijn?

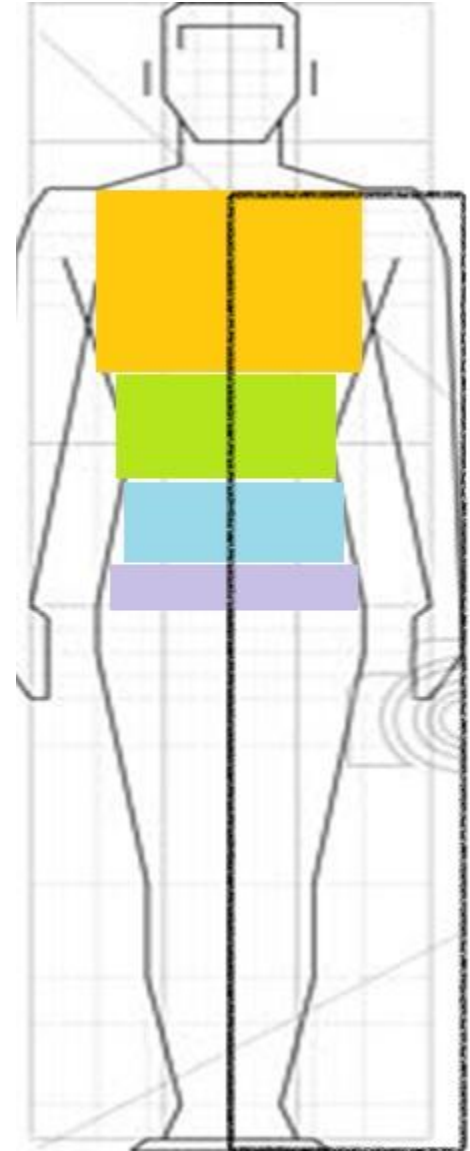


Aanpassing



Invasieve behandelingen

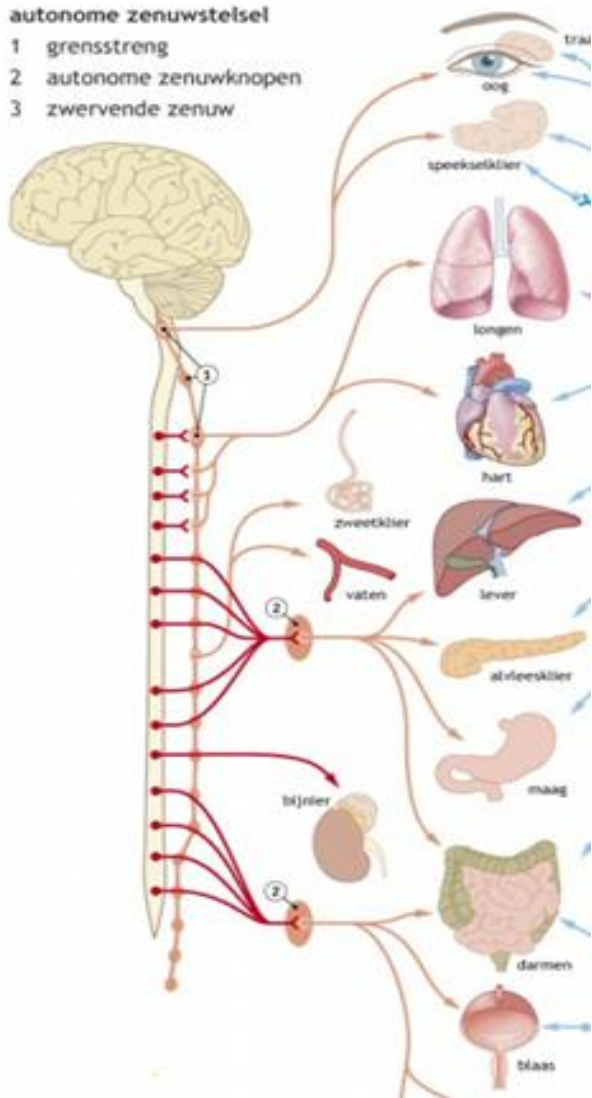
- Intercostaal blokkade
- Plexus Coeliacus blokkade
- Plexus Hypogastricus blokkade
- Lower end block
- Chordotomie
- IDDS



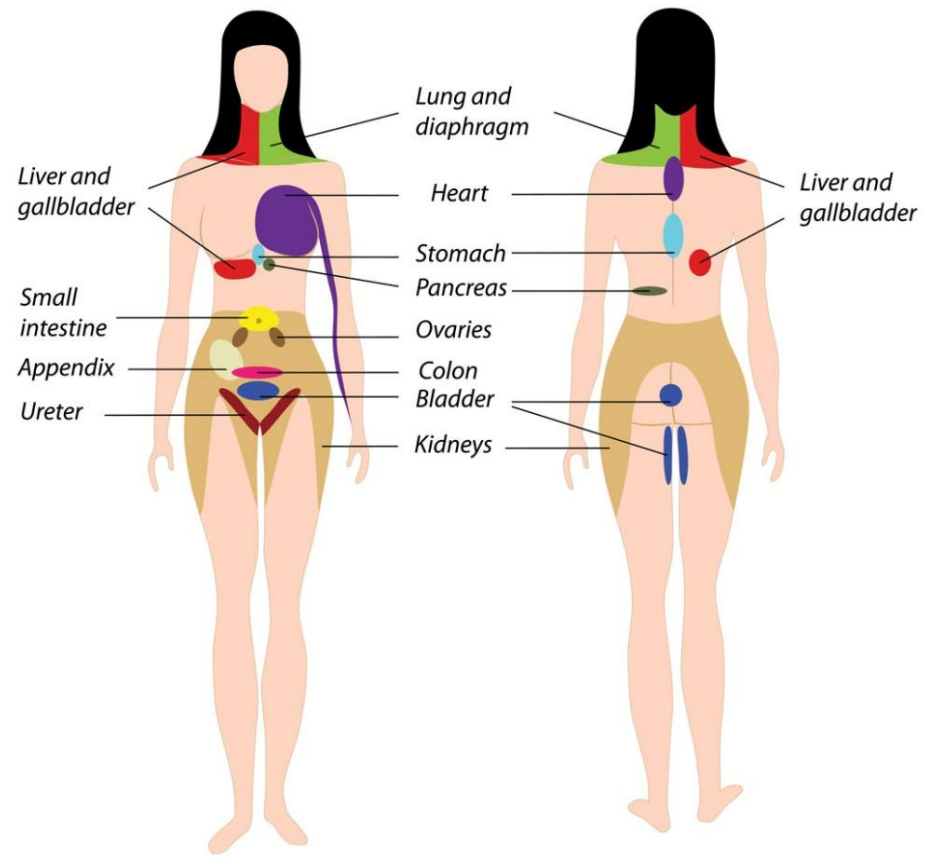
Plexus Coeliacus Blokkade

autonome zenuwstelsel

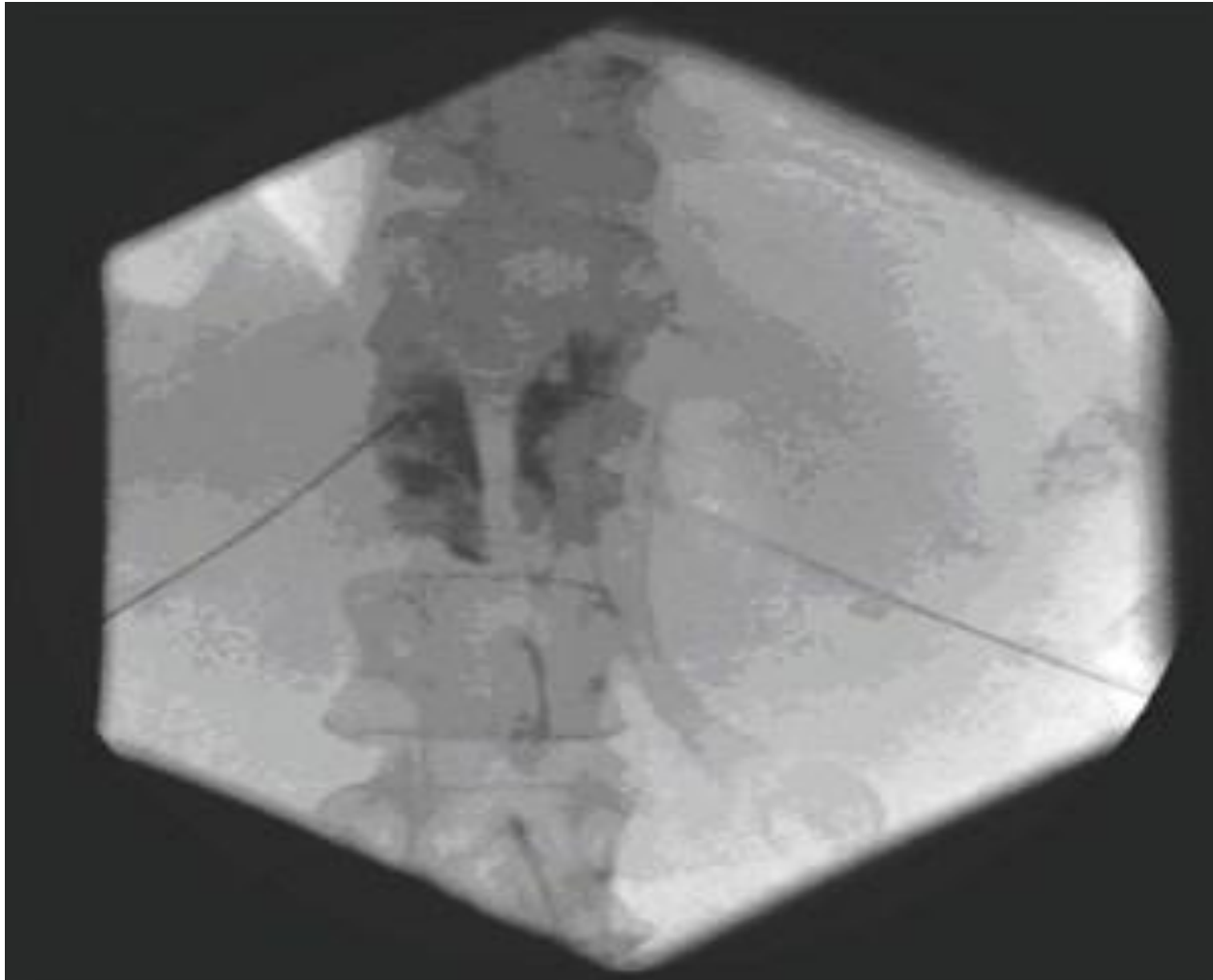
- 1 grensstreng
- 2 autonome zenuwknopen
- 3 zwervende zenuw



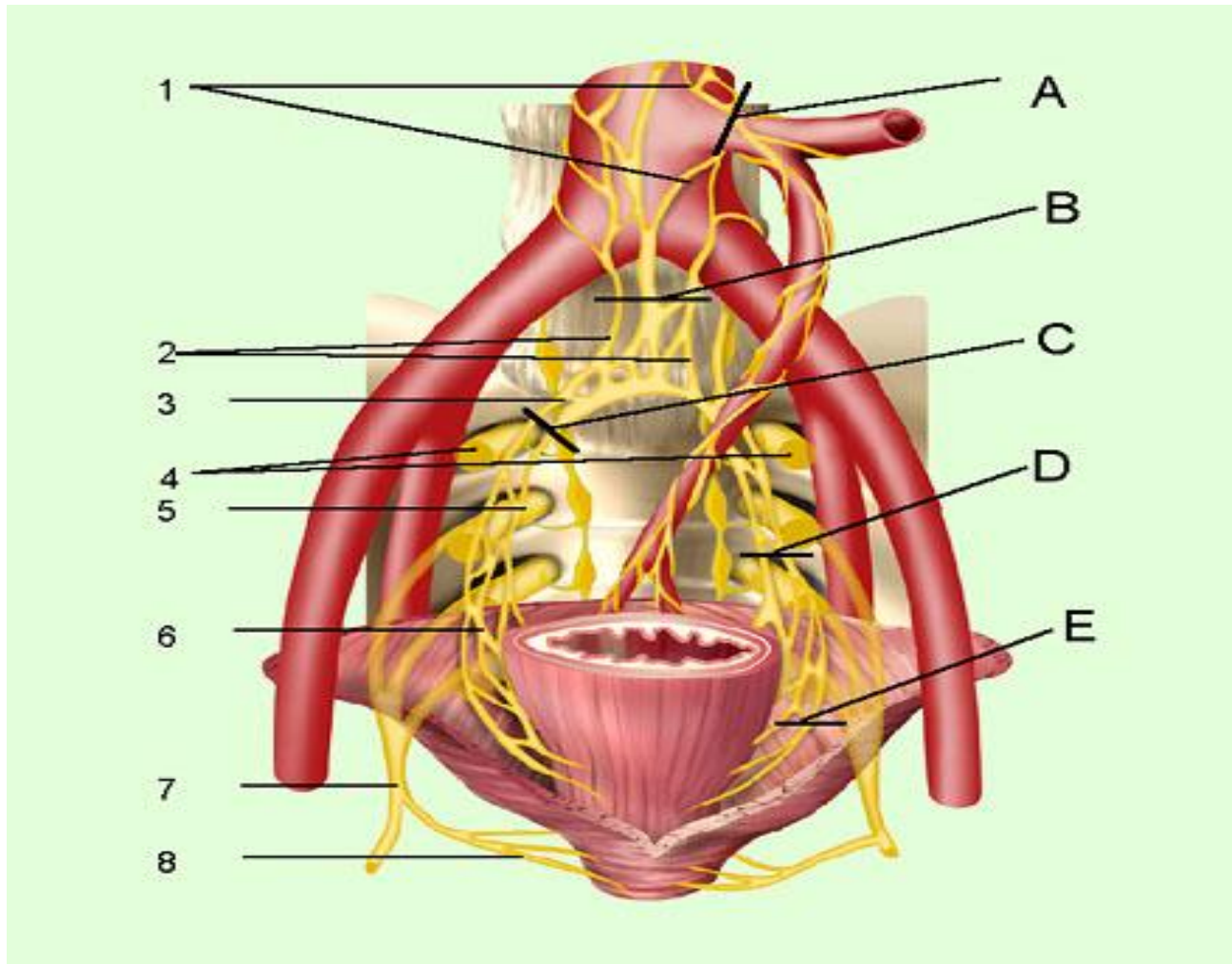
Referred pain chart



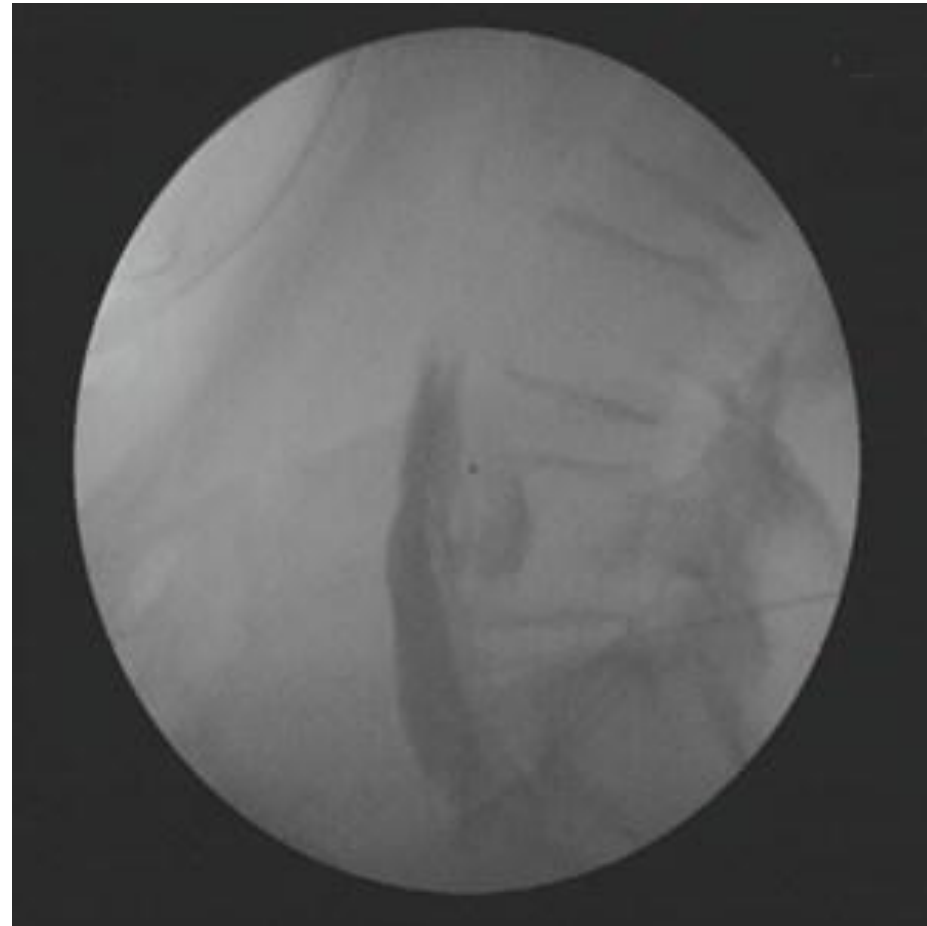
Plexus Coeliacus Blokkade



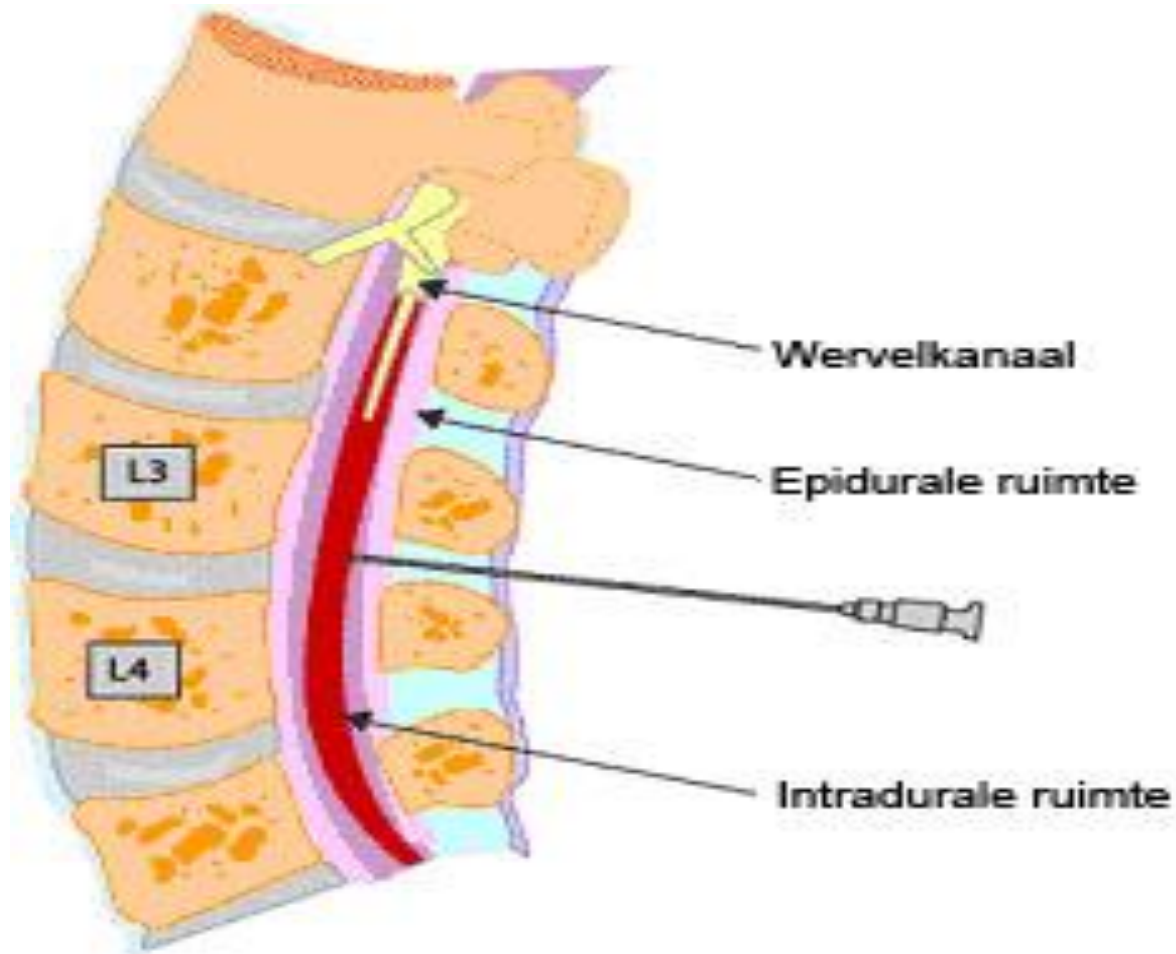
Plexus Hypogastricus Blokkade



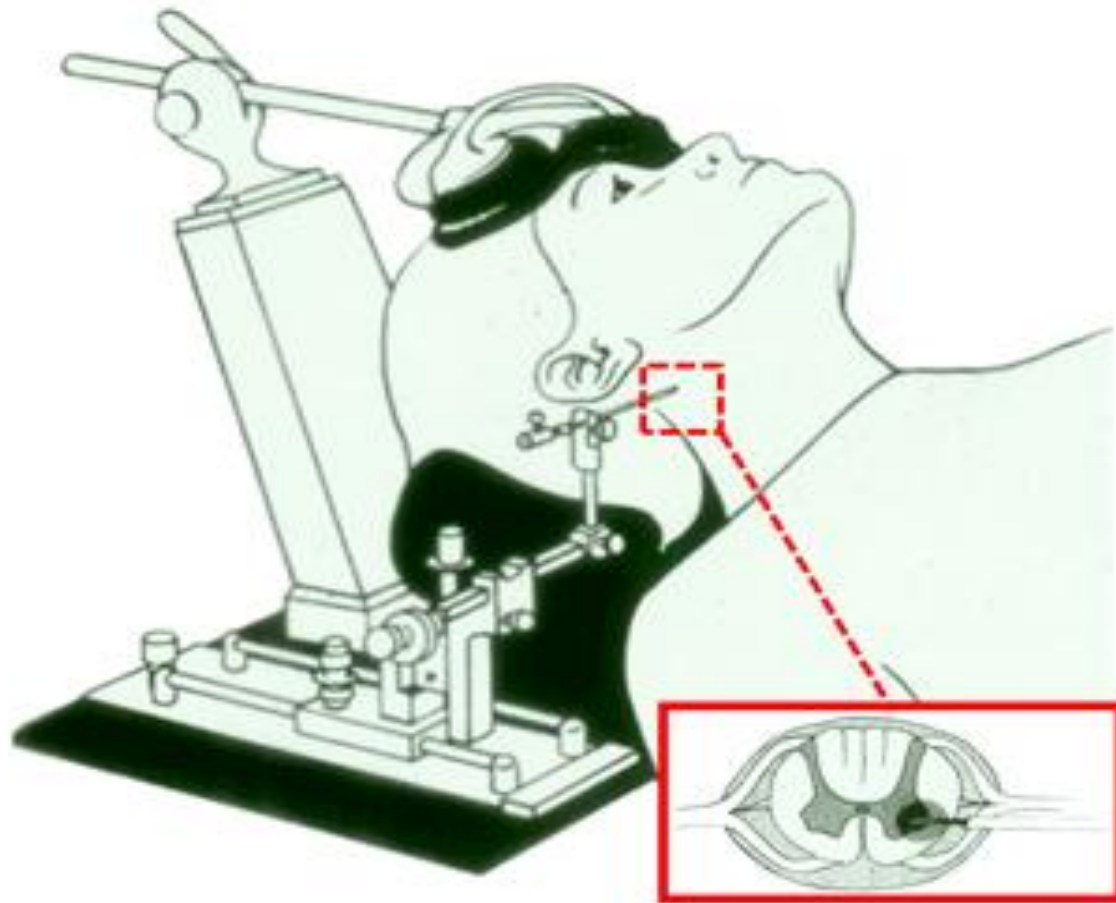
Plexus Hypogastricus Blokkade



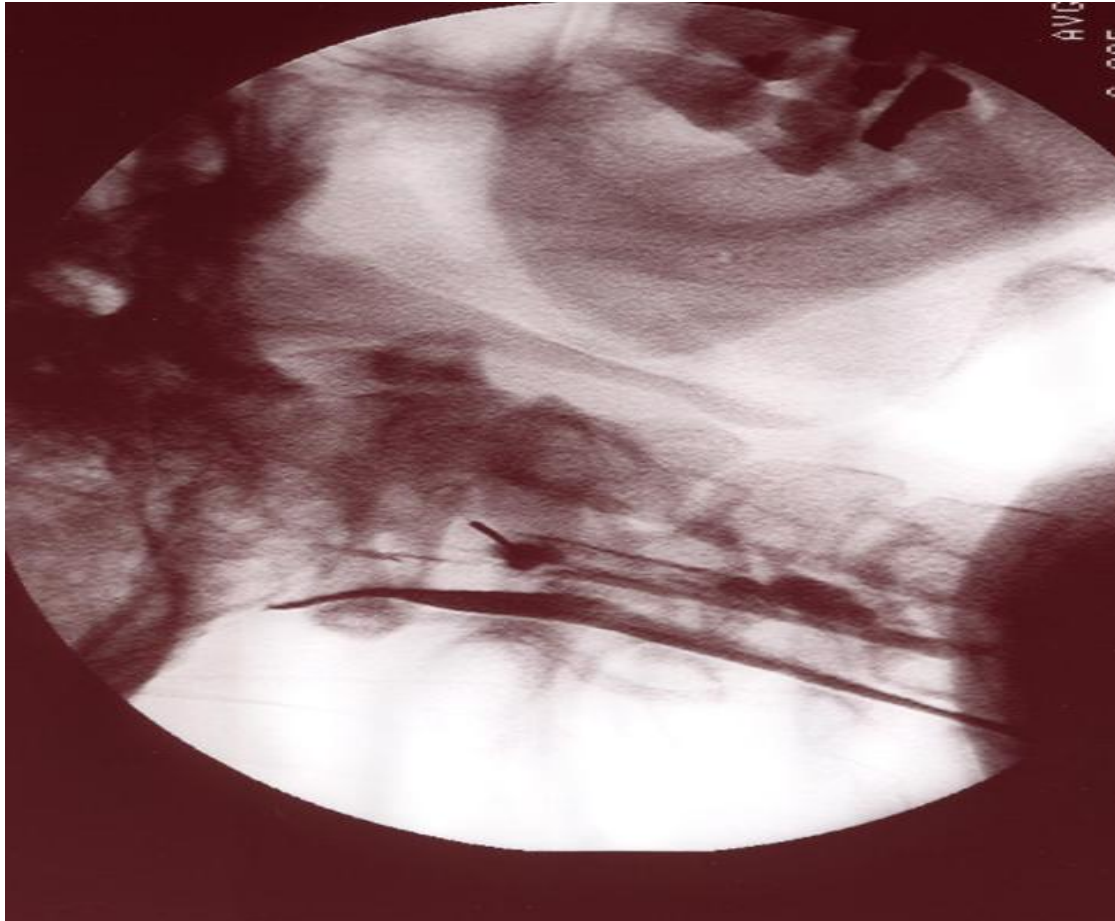
Lower End Block



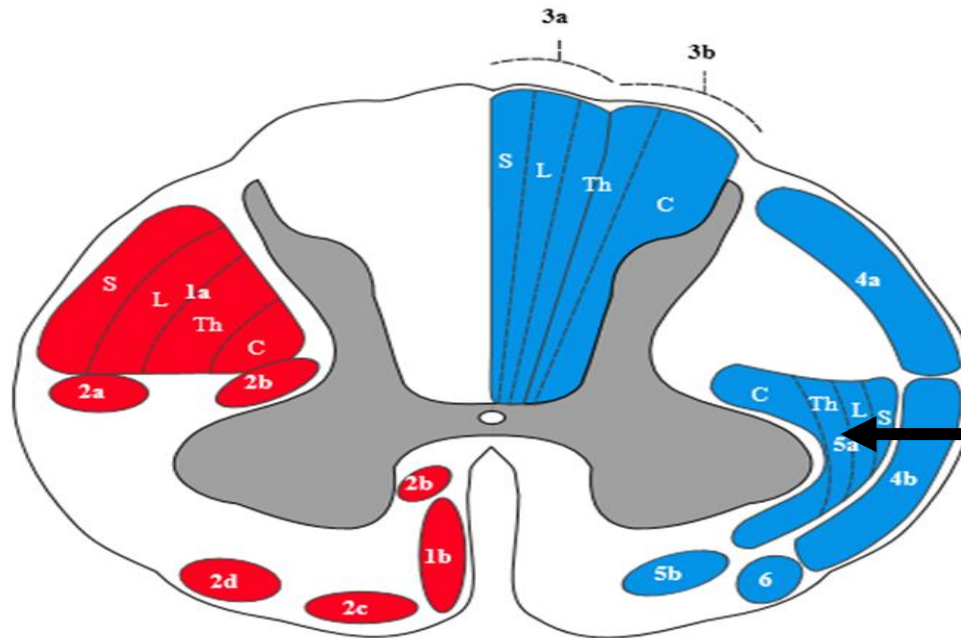
Chordotomie



Chordotomie



Chordotomie



**Motor and descending (efferent) pathways
(left, red)**

1. Pyramidal Tracts

- 1a. Lateral corticospinal tract
- 1b. Anterior corticospinal tract

2. Extrapyrarnidal Tracts

- 2a. Rubrospinal tract
- 2b. Reticulospinal tract
- 2c. Vestibulospinal tract
- 2d. Olivospinal tract

Somatotopy Abbreviations:

S: Sacral, L: Lumbar

Th: Thoracic, C: Cervical

**Sensory and ascending (afferent) pathways
(right, blue)**

3. Dorsal Column Medial Lemniscus System

- 3a. Gracile fasciculus
- 3b. Cuneate fasciculus

4. Spinocerebellar Tracts

- 4a. Posterior spinocerebellar tract
- 4b. Anterior spinocerebellar tract

5. Anterolateral System

- 5a. Lateral spinothalamic tract
- 5b. Anterior spinothalamic tract

- 6. Spino-olivary fibers

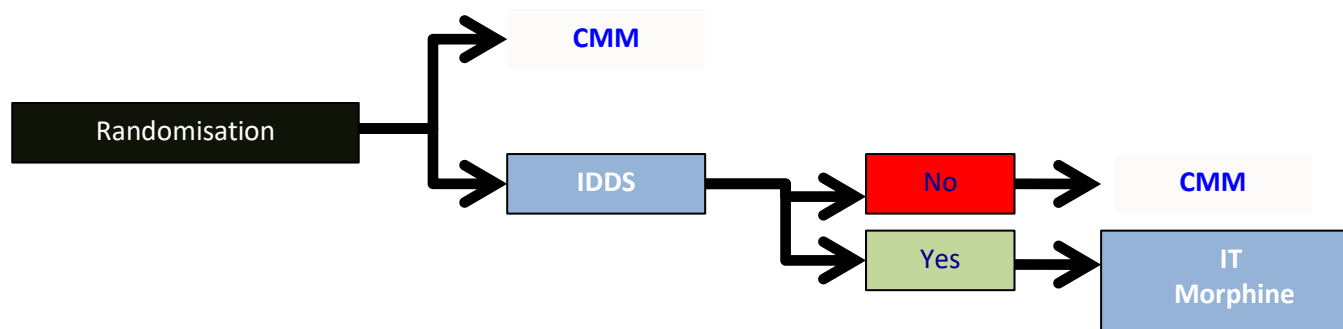
IDDS



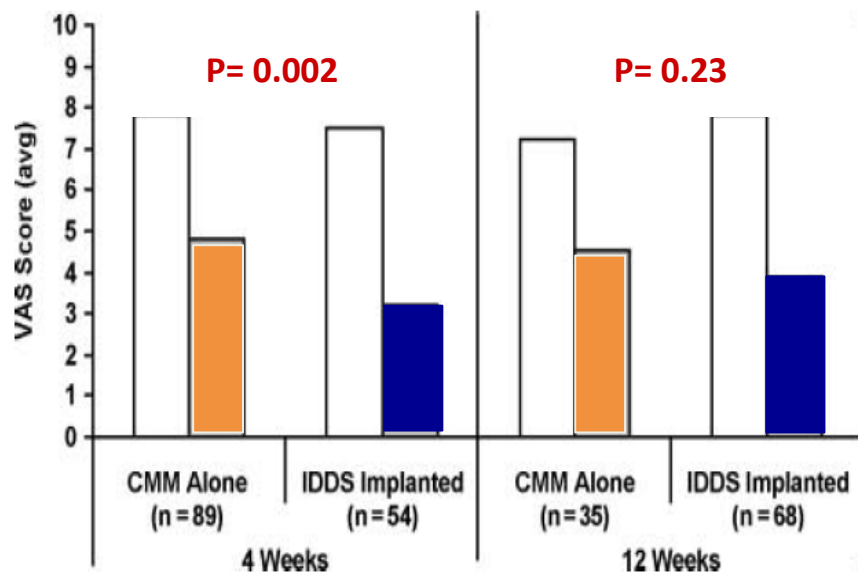
IDDS

Reference	N	Indication	Excellent pain relief
Krames 1985	17	Cancer	88 %
Shetter 1986	14	Cancer	79 %
Penn 1987	43	81 % cancer	84 %
Onofrio 1990	53	Cancer	64 %
Devulder 1996	33	Cancer	76 %
Paice 1996	429	33% cancer	95 %
Total (pooled)	293	Cancer	81%

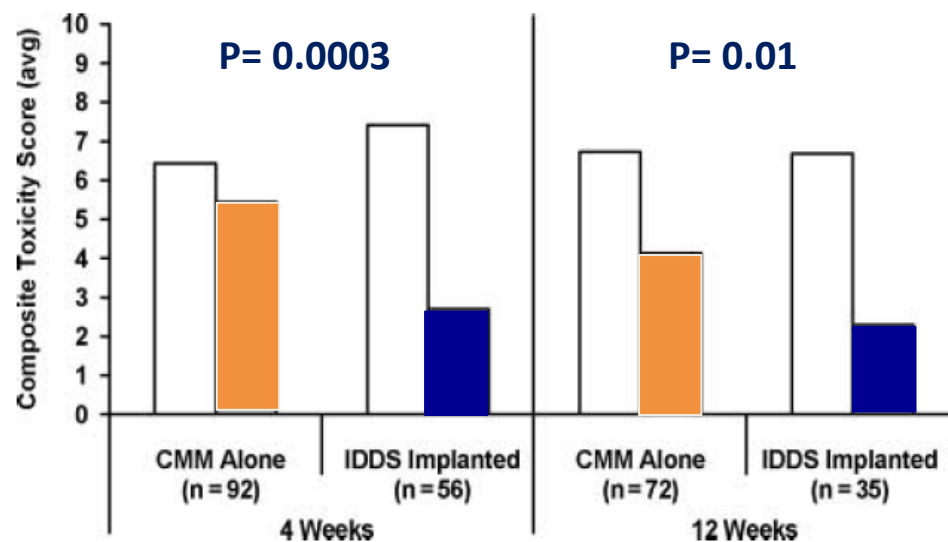
IDDS



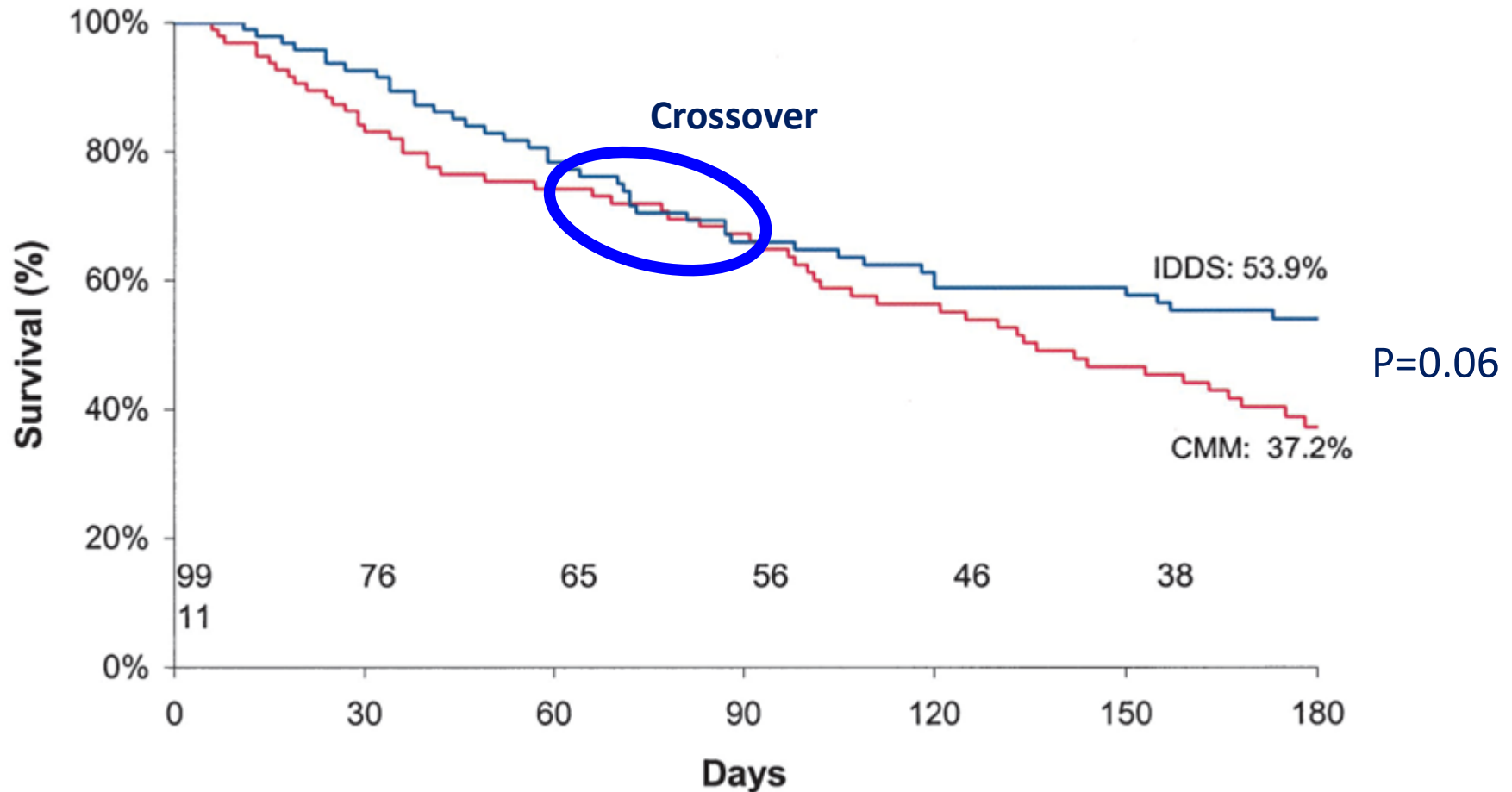
Effectivity



Safety (toxicity)



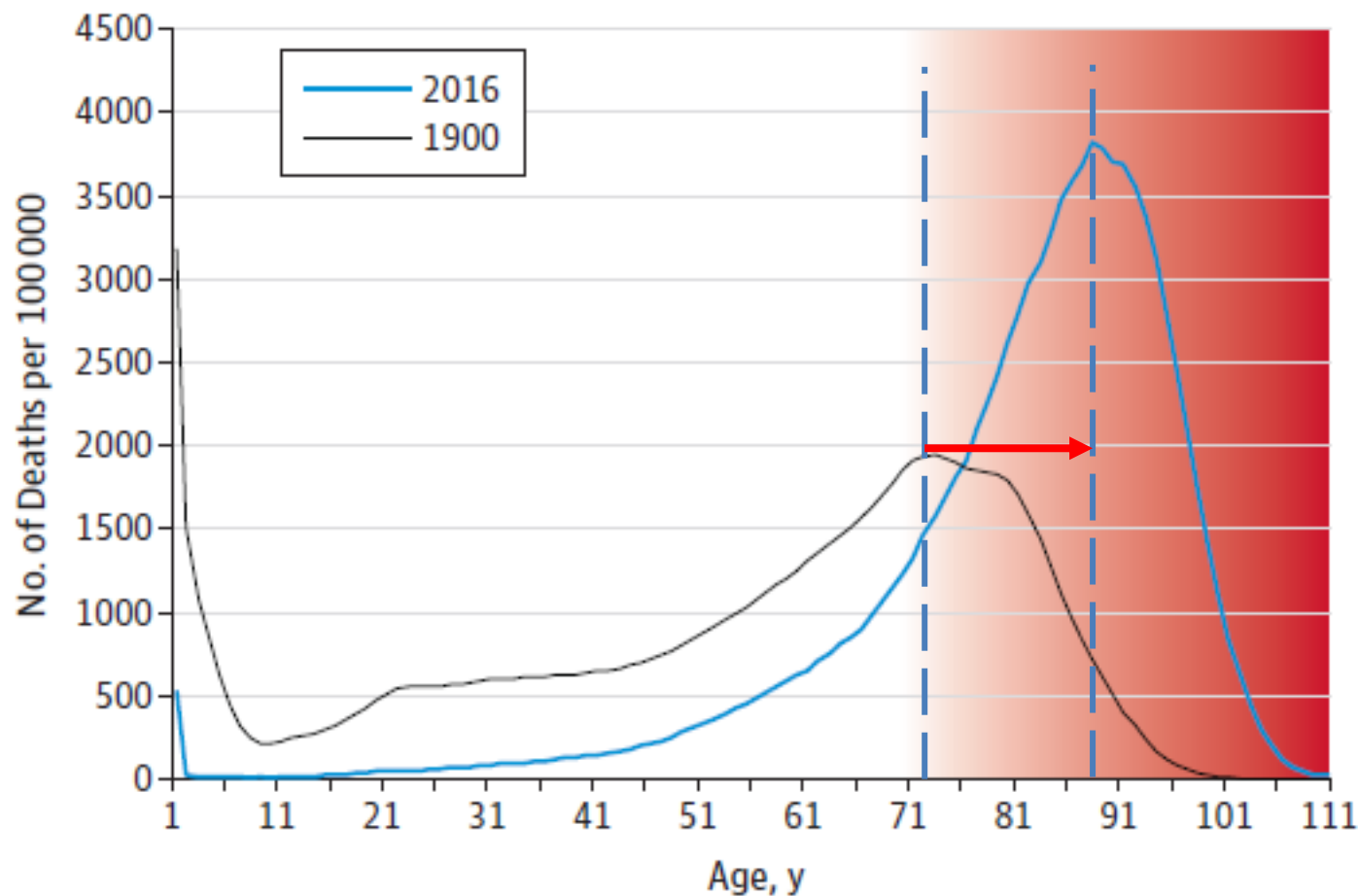
IDDS



T.J. Smith et al. RCT of an IDDS compared with CMM for refractory cancer pain. J of Clin Onc, v10 20 (19), 2002 p 4040-4049

T.J. Smith et al. An IDDS for refractory cancer pain provides sustained pain control, less drug-related toxicity, and possibly better survival compared with CMM. Ann of Clin Onc, 2005 p 825-833

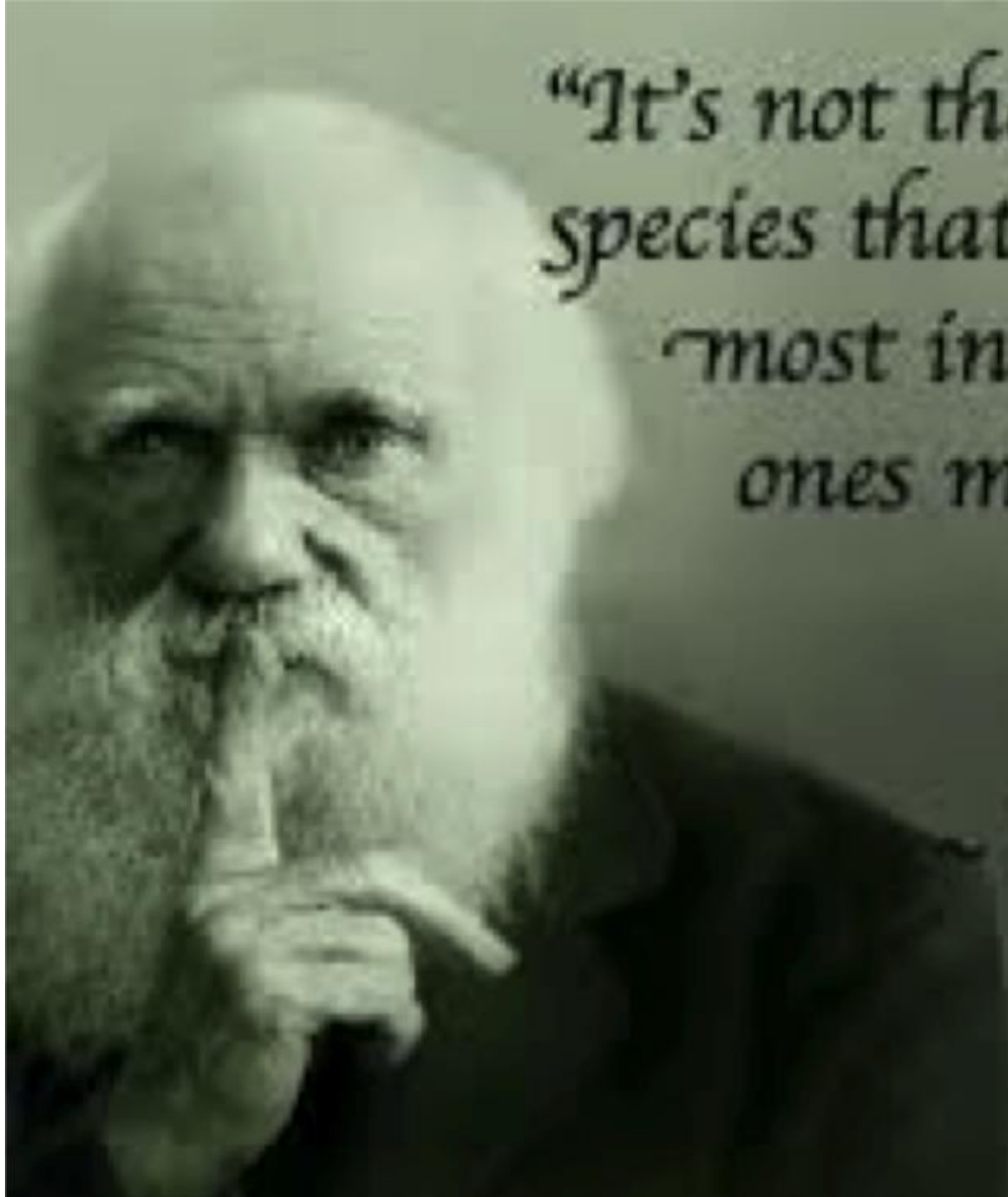
van lifespan → healthspan



Casus

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- Oncologische prognose: jaren
- QoL: suicide vanwege bijwerkingen

Oplossing



*"It's not the strongest of the
species that survive, nor the
most intelligent, but the
ones most responsive to
change."*

~ Charles Darwin

Stepped care + matched care

“Juiste zorg op de juiste plek”

