



Incontri di aggiornamento del Dipartimento Oncologico

Responsabile Scientifico:
Dott.ssa Stefania Gori

26 ottobre - 9 novembre 23 novembre - 30 novembre 2022

SEDE:

"Centro Formazione e Solidarietà"
Sala Convegni "Fr. Francesco Perez"
IRCCS Sacro Cuore - Don Calabria
Via Don Angelo Sempreboni, 5 - 37024 Negrar di Valpolicella (VR)

Mercoledì 30 novembre

- Sala convegni "Fr. Francesco Perez" -

La gestione del dolore nel paziente oncologico: dalla fisiopatologia al trattamento

Breakthrough pain: quale terapia medica?

Alessandro Inno



Oncologia Medica IRCCS Ospedale Sacro Cuore Don Calabria Negrar di Valpolicella (VR)

Breakthrough cancer Pain (BTcP)

What is it?

A type of pain defined by its timing and its severity

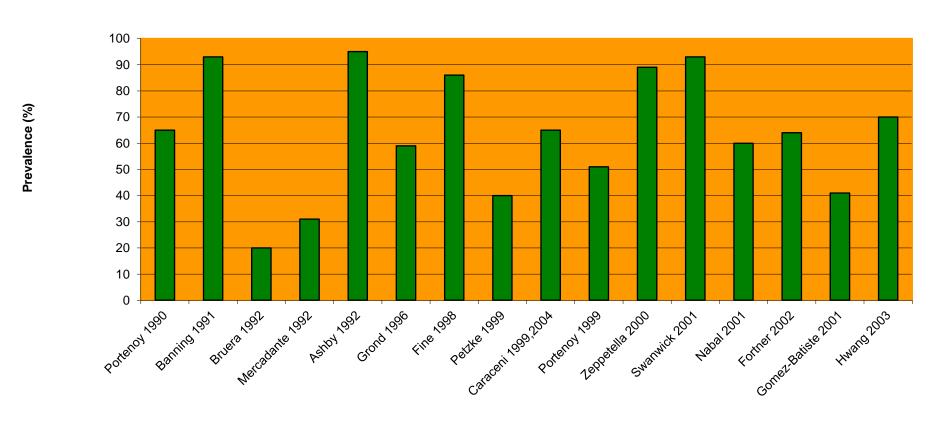
Most common definition:

A <u>transitory</u>, <u>severe</u> or <u>excruciating</u> pain, which <u>lasts seconds to hours</u> and is <u>superimposed on a background pain</u> that is controlled using an opioid medication

• Synonims:

- Episodic pain
- Incident pain
- Flare-up pain
- In Italian: dolore episodico intenso (DEI)

Prevalence of BTcP



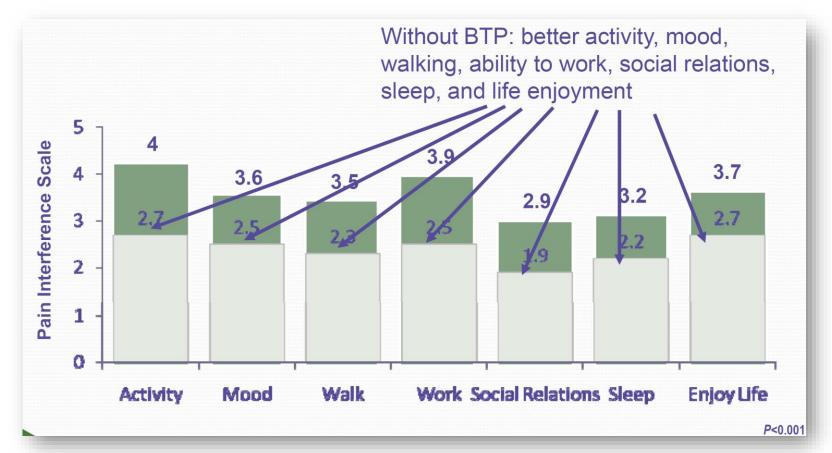
Median Prevalence: 65%

High variability: from 20% up to 95%

Impact of BTcP on QoL

Compared with patients without breakthrough pain, patients with breakthrough pain have:

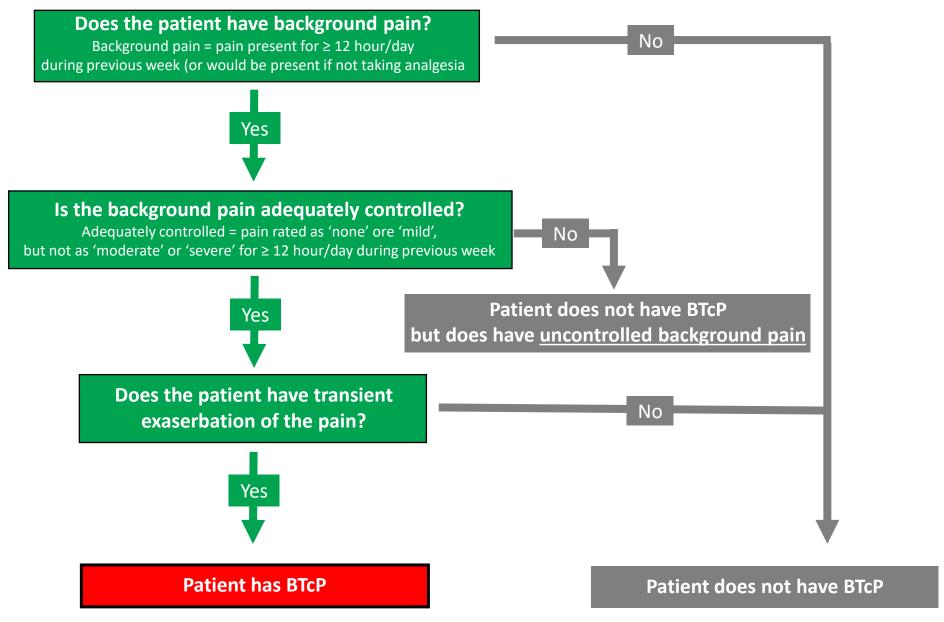
- More severe pain
- Reduced response to opioid therapy
- More problems functioning
- More psychological distress
- Higher cost of care



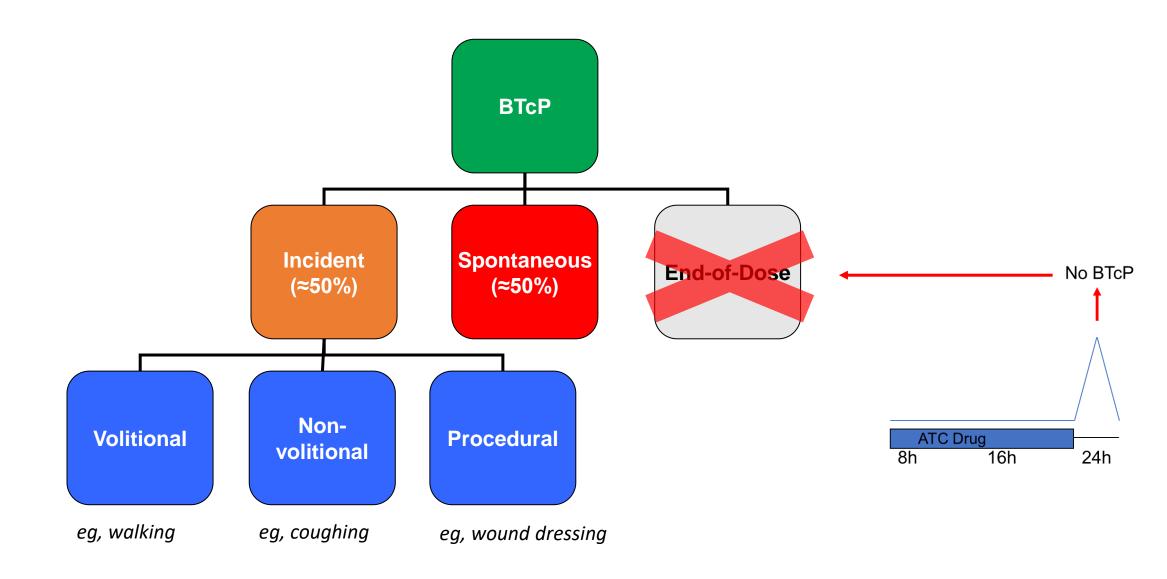
BTcP: Characteristics

- Moderate to severe intensity
- Rapid onset (3-5 minutes in 45% of patients)
- Relatively short duration: median 30' (15-240')
- Frequency: median 4 episodes per day (1-60/d)
- Often unpredictable

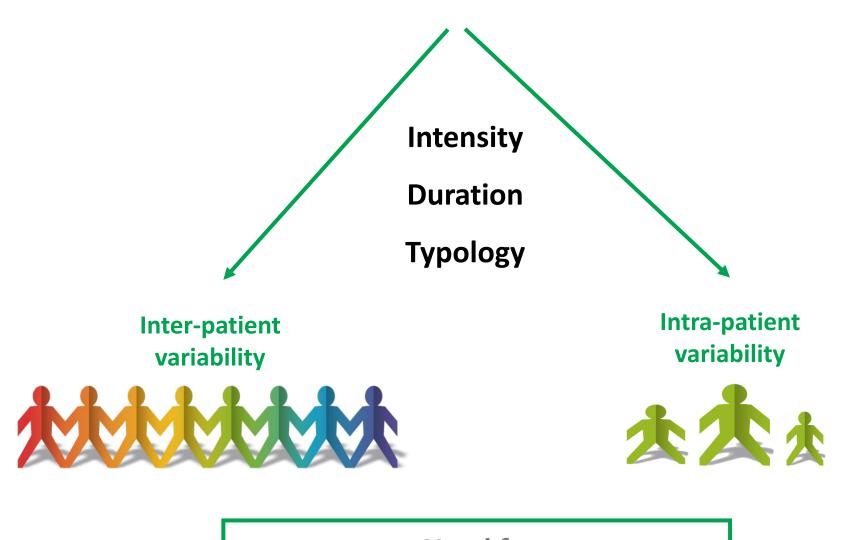
Diagnosis of BTcP: Davies Algorithm



Classification of BTcP



BTcP: Variability



Need for Personalized Treatment

Treatment of BTcP

Treat the underlying cause, if possible

- Cause of the pain
 - Example: radiotherapy for bone pain
- Cause of the specific episode
 - Examples:
 - Cough medicine for cough-related pain
 - Brace for a limb in case of movement-related pain

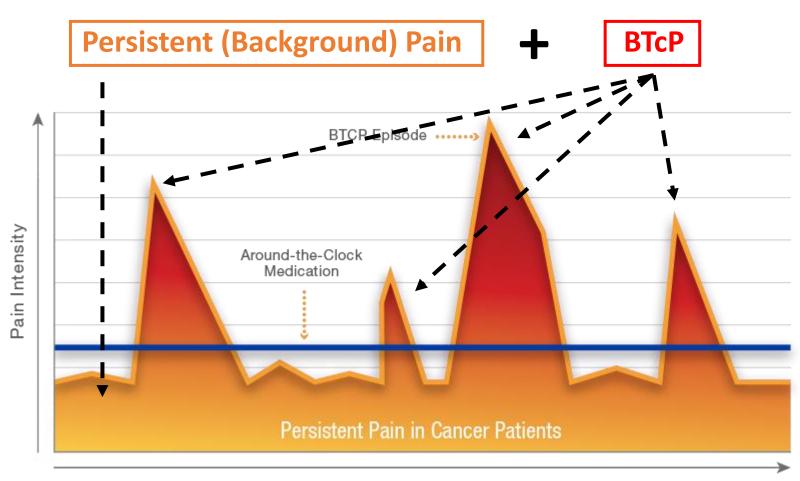
Treatment of BTcP

Non-drug therapies

- Application of heat or cold
- Massage or stretching
- Psychotherapy or deep relaxation techniques

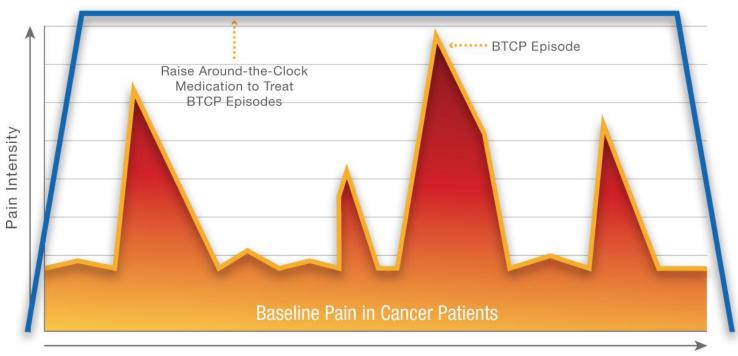
Drug therapies

Components of cancer pain



Raising ATC for BTcP

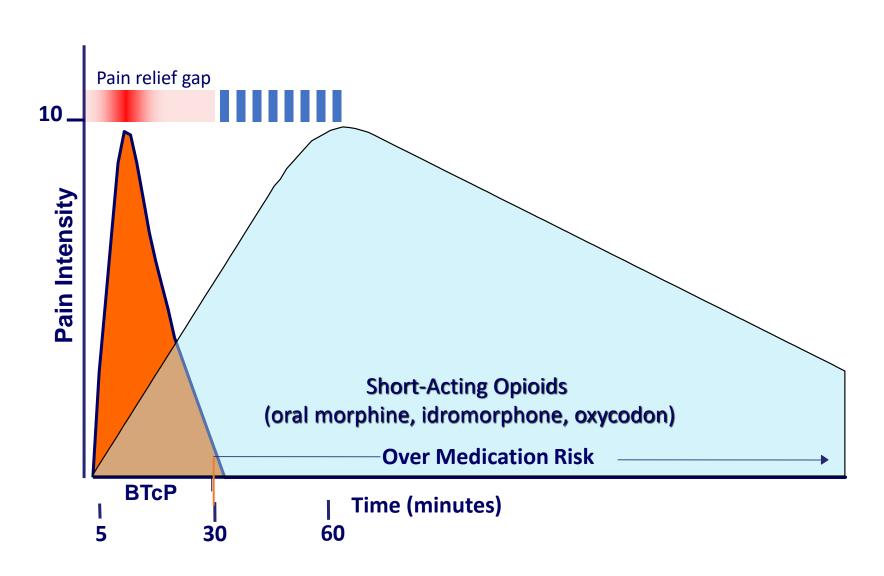
Overtreatment



Time

- Constipation
- Sleepiness
- Confusion

Oral SAO for BTcP: Pain relief Gap / Overtreatment



There is still a role for Oral SAO in the management of BTcP?

May be still a reasonable choice for:

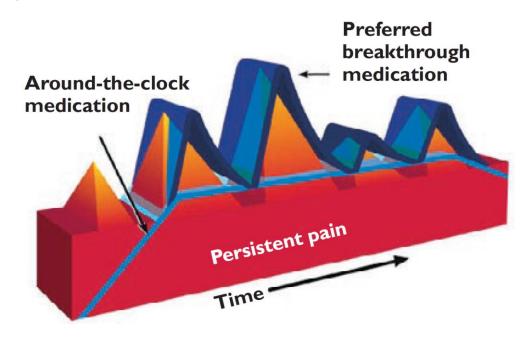
Predictable BTcP (Incident, volitional or procedural)

Anticipated before starting activity (30' before)

Slow on-set BTcP

Ideal BTcP medication

- Rapid onset
- Short duration of effect
- Minimal side effects
- Non-invasive, easy-to-use
- Cost-effective



Rapid Onset Opioids (ROOs)



Fentanyl citrate

- Strong analgesia
- Rapid transmucosal absoprtion (highly lipophylic)

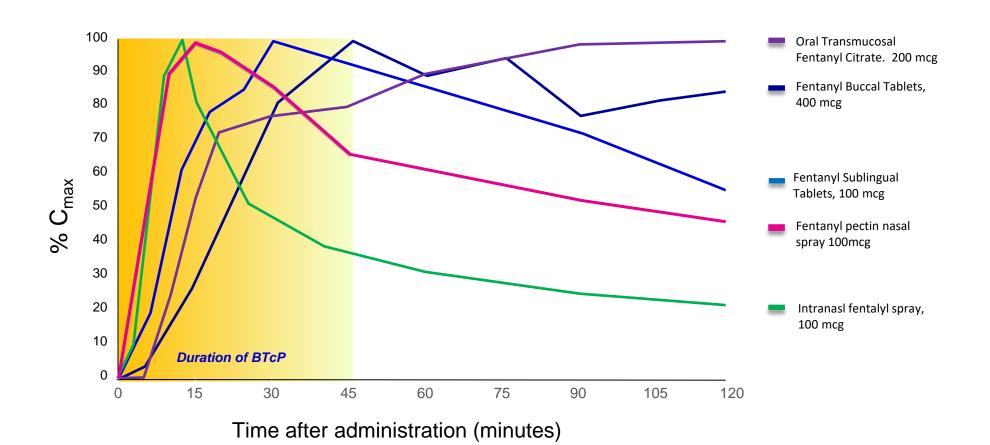


INFS INTRANASAL FENTANYL SPRAY

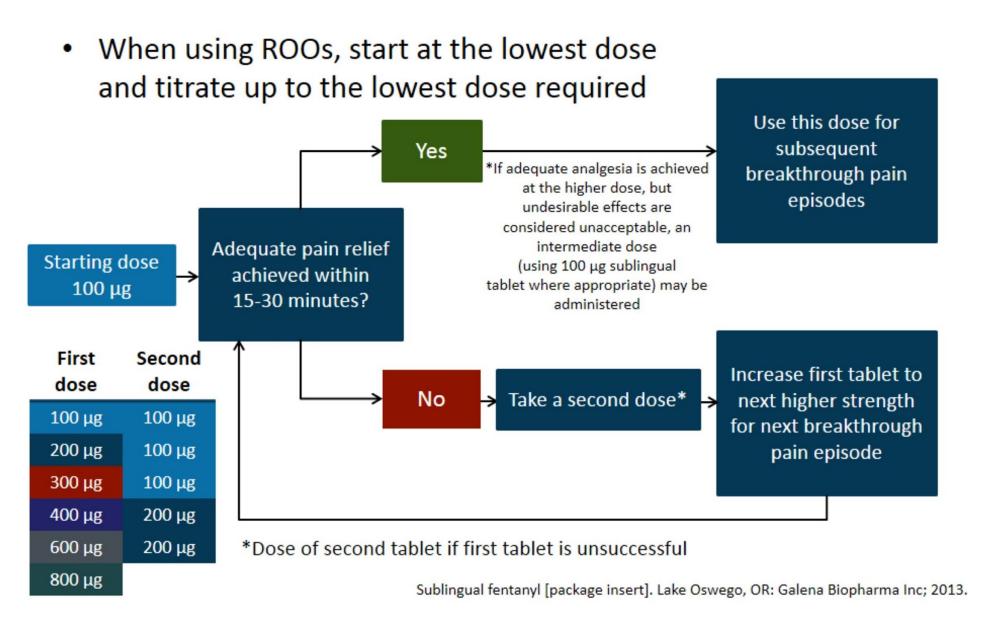




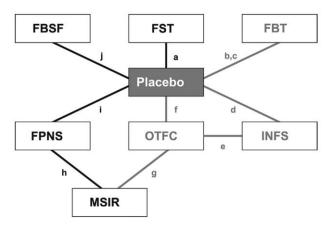
Pharmacokinetics of different fentanyl formulations



Titration

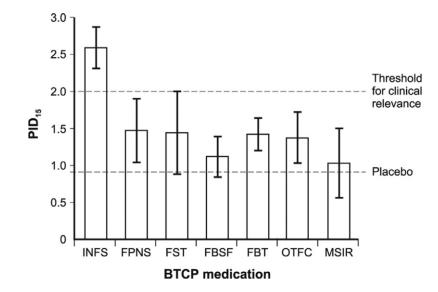


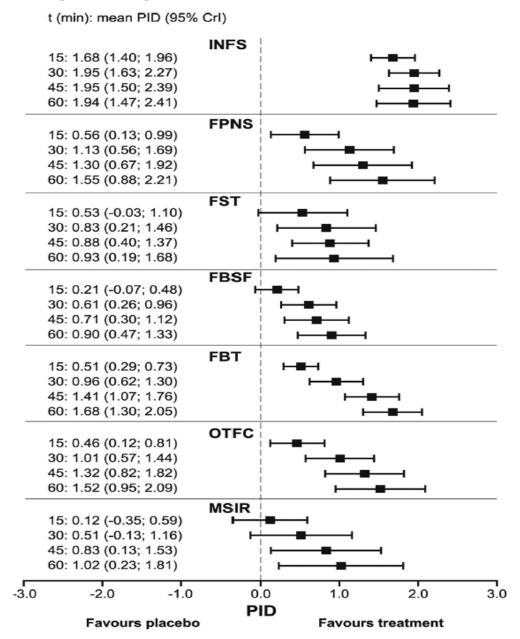
Network Meta-Analysis on the efficacy of opioids for BTcP



FBSF = fentanyl buccal soluble film; FST = fentanyl sublingual tablets; FBT = fentanyl buccal tablets; FPNS = fentanyl pectin nasal spray; OTFC = oral transmucosal fentanyl citrate; INFS = intranasal fentanyl spray; MSIR = morphine sulfate immediate release.

PID₁₅ = Pain intensity difference at 15'





Zeppetella G et al. J Pain Symptom Manage 2014; 47:772-785.

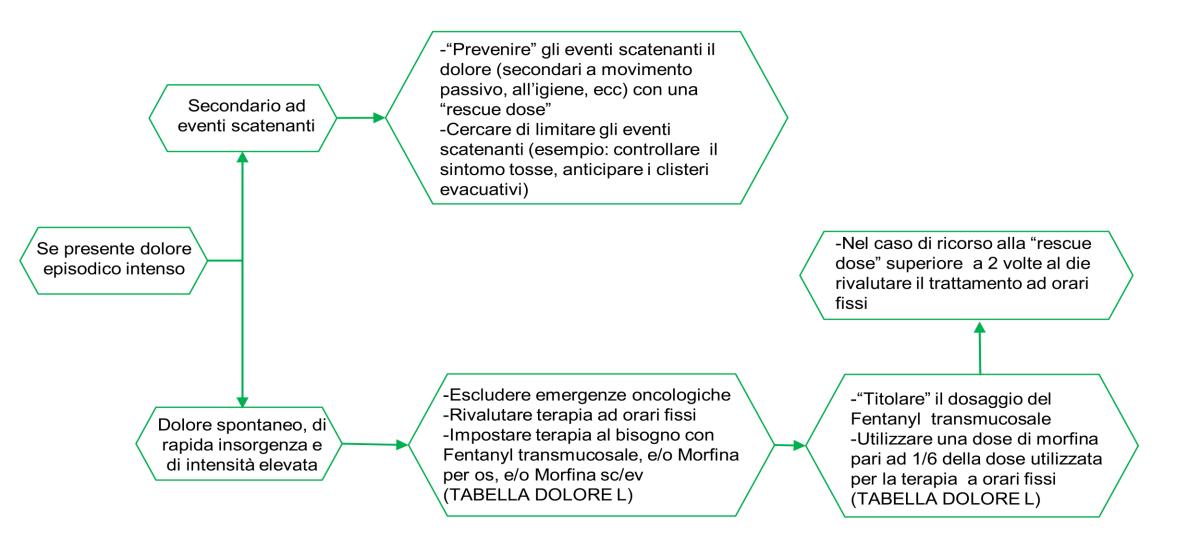
PROs and CONs of different formulations

Formulation	Advantages	Disadvantages
Oral transmucosal fentanyl citrate	 Rapid onset of action Mucosally absorbed dose (25%) bypasses hepatic first-pass metabolism Can be stopped if toxicity develops Can be used by patients who cannot swallow or have difficulty swallowing 	 Takes time to dissolve Relatively low surface area for absorption Absorption may be variable May be difficult for patients with dry mouth/mucositis Potential dental decay with prolonged use Patients may require training on correct use
Fentanyl buccal tablet Fentanyl buccal soluble film	 Rapid onset of action Mucosally absorbed dose (48-51%) bypasses hepatic first-pass metabolism Greater bioavailability than oral transmucosal products Can be used by patients who cannot swallow or have difficulty swallowing 	 Smaller surface area for absorption Lower permeability via buccal membrane vs sublingual membrane May be difficult for patients with dry mouth/mucositis
Sublingual fentanyl tablet Sublingual fentanyl spray	 Rapid onset of action Mucosally absorbed dose bypasses hepatic first-pass metabolism Can be used by patients who cannot swallow or have difficulty swallowing 	 May be limited to lower doses Drug and delivery system maybe ingested in the saliva May be difficult for patients with dry mouth/mucositis
Intranasal fentanyl spray Fentanyl pectin nasal spray	 Rapid onset of action Systematically absorbed dose bypasses hepatic first-pass metabolism Can be given by caregivers Convenient Can be used by patients who cannot swallow or have difficulty swallowing 	 Patients may need training on correct administration technique Potential for application site AEs May be unsuitable for patients with illnesses that affect the nasal mucosa Quantity of drug may be variable Nasal drip or swallowing can affect absorption May be difficult for patients lacking manual dexterity Dose limited to <0.2 mL





Figura 4: Dolore episodico intenso



TERAPIA DEL DOLORE IN ONCOLOGIA

LINEE GUIDA 2021



GRADE QUESITO 19: Nei pazienti affetti da tumore è raccomandabile l'utilizzo del fentanyl vs morfina nel controllo del dolore episodico intenso o Breakthrough cancer pain (BtcP)?

RACCOMANDAZIONE: L'utilizzo del fentanyl transmucosale nel controllo del dolore episodico intenso rispetto alla morfina può essere preso in considerazione.

Forza della raccomandazione: CONDIZIONATA A FAVORE

Motivazioni/Commenti al bilancio Beneficio/Danno:

Sono stati identificat i 4 RCT (5-8) ed è stata eseguita una metanalisi. I 4 studi in questione hanno confrontato il fentanyl rispetto alla somministrazione di morfina (con diverse modalità di somministrazione). I risultati orientano verso una riduzione moderata del dolore episodico intenso con il fentanyl rispetto alla morfina (SMD -0.47 95% IC -1.16-0-22) anche se non raggiungono una significatività statistica. Questo a fronte di effetti collaterali sovrapponibili tra i due farmaci (RR 0.83, 95% IC 0.63-1.13)

Non vi sono al momento evidenze in letteratura sufficienti a orientare la scelta della formulazione di Fentanyl.

Implicazioni per le ricerche future: Sono auspicabili trial di fase III vs morfina ad IR con analisi per ITT, formale calcolo del sample size e allocazione adeguata nel paziente con dolore episodico intenso da cancro

Qualità delle Evidenze

La qualità globale delle evidenze è stata giudicata **MODERATA** in quanto tali evidenze derivano da studi affetti da limitazioni metodologiche prevalentemente dovute a rischio di bias: studi crossover, sostanziali perdite al follow-up.

Qualità globale delle evidenze: MODERATA

COI: Nessun conflitto dichiarato

Conclusions

- BTcP is a significant problem
- It should be adequately recognized and diagnosed
- Personalized treatment is needed
- ROOs represent drugs of choice
- Choose the right formulation for the right patient





Cancer Care Center
Numero per la Cura del Tumore
Numero Verde
800 143 143





Più forti nella cura