DEVELOPMENT OF A PRACTICAL GUIDE TO DRUG THERAPY OF REFRACTORY PAIN

IN ADVANCED PALLIATIVE SITUATION.

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BACKGROUND & OBJECTIVE

Complex situations of medical management of refractory pain in patients in advanced or terminal phase of a serious and incurable disease and development of home care have led the French Agency for Sanitary Safety of Health Products to develop recommendations on how to use eight classes of drugs outside their Marketing Authorization.

Our work is to provide a guide to regulate off-label use of these drugs often reserved for hospital use or restricted prescription as unknown by the –hospital health professionals or non-specialist who often called for assistance.

MATERIAL & METHOD

A multidisciplinary working group (specialists in palliative care, pharmacists and paramedics) was established to develop practical guide for using these drugs. This booklet is a tool for the prescribing, dispensing and administration of these products. After validation by the Committee against Pain and the Committee of Drug, this guide will be disseminated to doctors and nurses at the Hospital of Pau, but also to non-hospital doctors, paramedics and pharmacists through the local network of palliative care and various continuing education sessions.

	RESULTS						Cido	
	Context	Administration	Brand Name	Availability	Prescriber	Dosage	Side effects	Surveillance
Local anesthetics	Pain refractory to morphine used alone by epidural and/or in case of intolerance to opioids	Epidural	Bupivacaïne® 2,5mg/ml - flacons of 20ml 5mg/ml - flacons of 20ml		Initiation by hospital	12,5 to 18,5 mg/h (400mg max a day)		
			Lévobupivacaïne (Chirocaïne®) 0,625 - 1,25mg/ml - solution 100-200ml 2,5 - 5mg/ml - amp 10ml Ropivacaïne (Naropéine®)	Hospital	staff trained in pain. Continued at home after 72 hours if stable via the doctor.	12,5 to 18,75mg/h continuous flow	Hypotension, nausea, headache, paresthesias.	Regularly to prevent an engine block, sympathetic blockade
		Intrathecal	2mg/ml - amp 10-20ml - solution 100- 200ml 7,5 - 10mg/ml - amp 10-20ml		via trie doctor.	12 to 25 mg/24h continuous flow	par oo moorae.	DIGGRAGO
	n the final intention in refractory pain after reatment failure and adjuvants suitable opioids (antidepressants, anticonvulsants, ketamine)	Parenteral (IV)	Lidocaïne injectable (Xylocaine®) 5-10-20mg/ml - amp 10-20ml	City	Agreement cardiologist	5 mg/kg/d in continuous intravenous infusion max dose = 8 mg/kg/d	nystagmus	Mouth numb, headache
	wounds ulcers - skin pain (nodules or necrotic metastases cut)	Tonical	Lidocaïne-prilocaïne cream (Emla®)	City		1 to 2 g/10 cm2 (<10g)	Erythema, pallo at the applicatio	•
	Neuropathic pain focused	Topical	Lidocaïne plaster (Versatis®)	City		Maximum 3 by 12h/24h on healthy skin	point	important if lesion
Fentanyl, sufentanil	Intractable pain, in case of failure or intolerance to morphine and oxycodone parenteral	Parenteral (IV or SC)	Fentanyl® 50μg/ml - amp 2-10ml Sufentanil (Sufenta®) 5μg/ml - amp 2-10ml 50μg/ml - amp 5ml	Hospital	continued home via the doctor with PCA.	PCA: hourly dose in one time + reRespiratory rateactory period of 10min in SC	apnea,	Vigilance, Respiratory rate (risk: respiratory depression)
	Refractory pain in combination with a mixed opioid therapy when it is inadequate or poorly tolerated (the addition of ketamine to reduce opioid doses). The use of ketamine for pain treatment may be considered after failure of standard therapy (opioids, nitrous oxide), and if general anesthesia in an operating room can be organized		Ketamine®			<u>IV</u> : 0,5 mg/kg/d in		
Katamina		(IV or SC)	10mg/ml - amp 5ml	Hospital staff trained in p continued home	Initiation by hospital staff trained in pain and		doses dependents : Mind-altering	For 2 hours at each dose change and then every 4 hours Effectiveness, intolerance,
		Per os	50mg/ml - amp 5ml Magistral preparation: oral solution		doctor with PCA.	SC: same doses (if no IV access) PO: dilute IV ampoules in a glass of water (same doses)	respiratory depression, HTA	Drowsiness,
MEOPA	Analgesia care painful when administered repeatedly, may be beyond the 15 days, depending on the efficacy observed and the condition of the patient	Inhalation	Shell white + blue stripes horizontal and vertical	City	Professional use	Do not exceed 15 days if prolonged administration (beyond possible depending on the effectiveness and the patient's condition)	Mangaa	Dependence, regular airing of local and mobile bottle. Only during a treatment.
	Last resort after opioid rotation and adjuvant therapy well conducted	Per os	Methadone®	City	or 14 days.	Protocol conversion of opioids to methadone.	Drowsiness and Respiratory rate	Caution, releasing between 4th and 6th day
Methadone L			Syrup : 5 mg/3,75 ml - 10 mg/7,5 ml - 20 mg/15 ml - 40 mg/15 ml - 60 mg/15 ml			Dosage based on side effects		
			capsules : 1-5-10-20-40mg			Child: 1mg/kg potential lethality if not dependent on opioids		
	Terminal sedation for distress in first-line, given its rapid onset of action and its short duration of action. Analgesic treatment should be maintained and adapted, midazolam with no analgesic	Parenteral (IV or SC)	Midazolam (Hypnovel®)	Hospital	Initiation by hospital staff trained in pain. Continued from home via the doctor.	SC: 0,01 to 0,05 mg/kg according to weight and effect wanted		respiratory depression: deep of apnea (Antidote: flumazenil possible
		Per os	1mg/ml - amp 5ml 5mg/ml - amp 1-10ml			IV: same dose VO: ampoule IV (same doses)		in IV, IM, SC). For a care: Surveillance every 15' for 1st hour then 2 times/day
	Pain rebels to high doses of opioids		Morphine®			<u>IV</u> : 10 mg		then 2 times/day
	administered by other routes of administration (oral, parenteral, transdermal) or therapeutic		1mg/ml - amp 1ml		Initiation by hospital staff trained in pain.	Epidural: 1 mg	Drowsiness, nausea,	Puncture point, skir
Morphine	rapid escalation	Perimedullar Intracerebro-ventricular	10mg/ml - amp 1-5ml	City	Continued from home via the doctor.	Intathecal: 0,1 to 0,5 mg Intracerebroventricular:	constipation,	(risk of infection), vigilance,
	Uncontrolled side effects of opioids administered by other routes of administration (oral, parenteral, transdermal)		20mg/ml - amp 1-5ml 40mg/ml - amp 10ml 50mg/ml - amp 5-10-20ml		Prescription limited to 7 or 28 days.	0,01 to 0,05 mg	sedation, dependence	Respiratory rate
Propofol	Last resort in the terminal sedation, on failure of midazolam	Parenteral (IV)	Propofol (Diprivan®) 10mg/ml - amp 20-50ml 20mg/ml - amp 50ml	Hospital	Reserved for hospital use on the advice of an anesthetist. No use at home. Drug of last	+ 10. $+$ 2 maykaya aasaae		Regular clinic

CONCLUSION

We hope this tool will provide assistance to every professional affected y palliative situations in hospital and at the patient's home. We will conduct a satisfaction survey of the different users in order to make improvements if necessary.