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What are the therapeutic alternatives to dextropropoxyphene in France? A prescribers' survey

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ABSTRACT

About a year after dextropropoxyphene (DXP) withdrawal from the French market, we conducted a survey among members of the French Society of Anesthesia & Intensive Care Medicine (Sfar) and of the French Society of the Study and Treatment of Pain (SFETD) to identify the indications for which this WHO level II analgesic had been prescribed, the prescriber's feedback following withdrawal, and the substitutive analgesics prescribed. DXP had been prescribed by more than 75% of the 430 anaesthesiologists and 230 pain specialists interviewed, mainly for acute and chronic non-cancer pain of moderate intensity. While two thirds of pain specialists were not satisfied with DXP withdrawal, this decision did not affect the majority of anaesthesiologists. In both groups, the main substitutive analgesic was tramadol combined with acetaminophen, while only 24% of prescribers considered acetaminophen alone as a substitute.

Keywords : Pain; treatment, dextropropoxyphène.

INTRODUCTION

Dextropropoxyphene (DXP) has been one of the most widely prescribed and used analgesics in the world, specifically in France since the beginning of marketing in 1964 (more than 70 million packages sold per year) [1-3]. This drug was particularly prescribed in the elderly, as reported by a health and social welfare survey (ESPS) performed in 2000, showing that Di-Antalvic® represented the largest drug item consumed by patients over 65 years old [4-6]. This opiate was indicated for the treatment of low to moderate intensity pain [3,7]. In France, more than thirty specialties contained DXP, most often in association with paracetamol (DXP/PC) [1,7].

Added to French Health Authorities' or Scientific Societies' (French Agency for Health Products Safety and French Academy of Medicine) [1] questions regarding the positivity of DXP benefit/risk ratio (this issue had been raised since 1998 by the French Society of Anesthesia and Intensive Care Medicine (Sfar) [8]), the occurrence of hundreds of deaths caused by drug poisoning and/or misuse in Northern Europe, Britain, United States and

Australia, lead to the decision of progressively withdrawing DXP in North America and Australia, followed by Europe in June 2009, with a permanent cessation in France in March 2011 [1,9-11].

Recommendations regarding therapeutic alternatives for DXP were produced by the National Agency for drugs and health products safety (the Afssaps, later renamed the ANSM) in collaboration with its general practitioners reference group, the French Society for the Study and Treatment of Pain (SFETD) and the French Society of Rheumatology (SFR) [12]. However, prescriber's concerns regarding the safety of these alternative analgesics, mainly tramadol, and regarding patient compliance with recommendations, may have affected DXP/PC substitution mechanisms, and subsequently the management of pain in France with impacts on public health.

To identify the therapeutic alternatives prescribed by anaesthesiologists and pain specialists after DXP withdrawal, a survey was conducted among Sfar and SFETD members. The second objective of the survey was to obtain physician feedback regarding the withdrawal of a popular drug in France, particularly as concerns the elderly.

METHODOLOGY

Surveys of two Learned Societies involved in pain management

A survey regarding DXP withdrawal targeted anaesthesiologist members of the French Society of Anaesthesia and Intensive Care Medicine active in secondary care (public and private hospitals), albeit not consulting for chronic pain. This survey (11 questions) was accessible on the www.sfar.org website (Appendix 1).

For SFETD members, a slightly different survey was provided to pain specialists active either in secondary care, or in centres for pain evaluation and treatment (CETD). This survey (15 questions) was available on the www.sfetd-douleur.org website (Appendix 2).

Survey Monkey® software was used to create the survey. Overall, 3000 SFAR-anaesthesiologists and 911 SFETD-pain specialists received a link to the surveys by mail. In the absence of reply after 2 months, two reminders were sent by email. Answers were anonymised before processing the data.

Survey processing

The two surveys were confidential and anonymous, and their final version was validated by the regional anaesthesia and pain committee and the administrative councils of both the SFAR and the SFETD. They were conducted between December 2012 and March 2013. SFAR and SFETD physicians were informed by email that a link was available to access a survey focused on DXP.

The survey questions assessed physician gender and age, work place and status, DXP prescribing uses before withdrawal, feedback regarding withdrawal and prescribing patterns after withdrawal. In addition to these questions, algologists had to provide detailed information on DXP prescribing before withdrawal (target populations, prescribing frequency, targeted pain intensity and indications).

Data analysis

Data were entered on EXCEL® sheets. Results were descriptive and presented as percentages. When applicable (comparison of results from different lines of activity), a χ^2 test was applied. The significance threshold was set to 5%. All analyses were performed using STATVIEW® software.

RESULTS

A total of 697 questionnaires were analysed, comprising 433 SFAR and 234 SFETD questionnaires. The Sfar and SFETD participation rates were 14.3% and 25.7 %, respectively. The general characteristics of surveyed physicians are presented in Table I.

DXP prescribing uses before withdrawal: population? Types of pain?

Before withdrawal, DXP was prescribed by 72.7% of anaesthesiologists and 80.6% of pain specialists. Both specialties prescribed this drug for pain of moderate intensity (Figure 1). However, 44.4% anaesthesiologists also prescribed DXP for postoperative pain of low intensity. Two thirds of anaesthesiologists (68.6%) prescribed this drug for outpatient surgery, 39.4% for patients suffering from painful medical conditions and 41.9% used this level II analgesic as a relay to level III analgesia.

Acute pain, chronic non-cancer pain and cancer pain represented 84.2%, 79.2% and 42.1% of DXP prescriptions by pains specialists, respectively. Among surveyed physicians, 31.7% prescribed DXP occasionally, 49.2% frequently and 19.1% very frequently. The pain types

leading to DXP prescribing are presented in Table 2, with a predominance of articular, lumbar and traumatic pain, rather than neuropathic and psychogenic pain.

Reasons for not prescribing DXP before its withdrawal and feedback regarding its withdrawal

Among 26.1% of anaesthesiologists who did not prescribe DXP before withdrawal, 55.7% used another drug and 27.4% considered DXP unsafe (Table 3). Among 18.9% of pain specialists who did not prescribe DXP before withdrawal, 42.9% considered DXP unsafe and 33.3% refused to prescribe it. DXP withdrawal affected prescriber's habits, with 33.3% of anaesthesiologists and 57% of pain specialists dissatisfied of withdrawal. However, withdrawal did not affect the habits of 31.4% of anaesthesiologists and 24.4% of pain specialists, and it was welcomed by 35.3% of anaesthesiologists and 18.6% of pain specialists.

DXP replacement procedures

Physicians were surveyed about their personal DXP alternative strategies, if applicable. In most instances, SFAR and SFETD physicians favoured tramadol associated with paracetamol (77.8% and 80.9%, respectively (Figure 2). Most physicians were aware of ANSM (Afssaps) recommendations (60.5% of anaesthesiologists and 84.5% of pain specialists). However, only 58.6% of anaesthesiologists used them to manage DXP withdrawal. The reasons for not following recommendations were either disagreement (108 AN, 19.6%) or perception of insufficient clarity (12.6%). Among pain specialists, 48.9% followed ANSM recommendations, while 20.4% disagreed and 16.7% perceived recommendations to be unclear.

DISCUSSION

DXP was withdrawn from the French market in 2011 after an initial EMA decision (European Medicines Agency), based on increased mortality mainly due to drug misuse [9,12-14]. This much prescribed and popular drug in France (in 2006, DXP was the second most reimbursed drug) was withdrawn from the French market despite remaining doubts on possible misuse in the country [15-16]. Nonetheless, a safety review has shown a high rate of serious Adverse Events associated with DXP/PC, more specifically liver impairments [17].

This survey was the first to evaluate the opinion of two pain specialist populations regarding DXP withdrawal and its consequences in terms of therapeutic alternatives.

More than 75% of the 430 physicians surveyed prescribed DXP before its withdrawal, mainly to treat acute and non-cancer chronic pain of moderate intensity. Few differences were observed between the two populations surveyed. Almost all prescribers declared to have used DXP according to the PDR's indications, mostly related to joint conditions or traumatology. According to prescribing data collected in 2006 by DOREMA surveys (Documentation and marketing research), the DXP-PC combination was then mainly prescribed to treat lumbago and arthrosis. The mean posology was 4.6 tablets per day for a mean treatment duration of 30.8 days [18].

While almost two thirds of pain specialists felt concerned by the DXP withdrawal, this event did not have a significant impact on anaesthesiologists' habits. In both groups, the main substitution analgesic was tramadol associated with paracetamol, while paracetamol alone was used in 24% of cases. Hawton et al. [19] analysed the consequences in terms of morbidity or mortality and substitution, 6 years following DXP-PC withdrawal in Britain. Prescriptions of tramadol and paracetamol increased by 19% and 16% respectively, mainly in favour of a codeine-paracetamol association (+23%). By contrast, in France, in an Academic Hospital, a study performed before the national DXP withdrawal showed that DXP withdrawal induced a 4.6% decrease in total analgesic consumption with a specific 28% reduction of level II drugs (increase of tramadol and decrease of the codeine-paracetamol association). During the same period, non-morphine analgesics showed an 11% increase, while consumption of morphine and related compounds decreased by 8% [15]. Due to the strong support from local teams involved in analgesia, the consequences of withdrawal were nonetheless different than those observed at the national or European scales [15,19]. Regarding the effects of DXP withdrawal on the effectiveness of pain management, Becquemont and al. analysed the consequences of withdrawal on elderly patients suffering from chronic pain. While tramadol (mainly), paracetamol, codeine and opium were the main therapeutic alternatives in this study, no consequence in terms of pain intensity, comfort or quality of life was found [20].

In our survey, most anaesthesiologists expressed satisfaction regarding the effects of DXP. They did not consider DXP to be dangerous nor ineffective. Nonetheless, the majority of health care professionals who did not prescribe DXP explained their attitude by pointing out the dangerousness and lack of efficacy of DXP. It is then paradoxical that the withdrawal was more accepted by anaesthesiologists than by pain specialists, the majority of whom did not follow the ANSM's recommendations. Nevertheless, the benefit/risk ratio was evaluated by DXP non-prescribers while withdrawal feedback was estimated by the whole group of physicians surveyed.

In terms of replacement therapy, the Afssaps (ANSM) recommended tramadol/paracetamol and codeine/paracetamol, and to a lesser extent, paracetamol alone. While this switch was observed for pain specialists, it was independent of AFSSAPS recommendations that both groups largely ignored. It would then be of interest to investigate the determinants of physician's choice of replacement therapy, as there was no major difference between the groups regarding the distribution of alternative choices. Only the opium-paracetamol combination (Lamaline®) was more prescribed by pain specialists than by anaesthesiologists, where the prescription rate was only 6%.

This study has certain limitations. A declarative survey was used, and the quality of the information reported by the interviewed prescribers was not validated. Therefore, the data collected cannot be controlled. Moreover, the participation rate was low and the results may not be representative of the opinion of all anaesthesiologists and pain specialists at the national level. Finally, this study did not collect information on the consequences of substitution therapy in terms of substitutive drugs; it did not detail prescribed doses and patterns of use, nor compliance with marketing authorization.

In summary, 18 months following the DXP-paracetamol withdrawal, a survey was conducted among two prescriber populations: anaesthesiologists (SFAR) and pain specialists (SFETD). The survey confirmed the important place occupied by this drug, mainly prescribed for moderate pain, particularly in outpatient surgery and for articular pain. Substitutive analgesics were represented by tramadol, mainly associated with paracetamol, but also by codeine-paracetamol, while paracetamol alone represented only 24% of all prescriptions. A specific analysis of national NHS claims data would be of major interest to confirm the substitutive strategies declared by surveyed physicians, and to follow a cohort of patients who used DXP-paracetamol for several years in order to identify substitutive analgesics and their effects. Indeed, France was the major DXP-paracetamol user in Europe with almost 8 million consumers. It would be highly relevant to track such patients and to evaluate the clinical and economic consequences of DXP withdrawal, notably in terms of morbidity linked to substitute analgesics consumption.

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Conflicts of interest: none.

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Table 1: Characteristics of physicians responding to the survey. CHU: University Hospital, CH : Public Hospital, CP : Private hospital. SFETD specialists (pain specialists) were allowed to validate several working places due to CETD (Centre for Evaluation and Treatment of Pain) geographic integration in different types of institutions. Age: number of responses: 432 for the Sfar and 234 for SFETD. Working place / status: number of responses: 432/432 for the Sfar and 231/228 for the SFETD. Certain SFETD physicians declared several functions.

Table 2: Pain subtypes leading to DXP prescription for Pain Specialists

Table 3: Question targeting physicians who were not prescribing DXP (q5: Before its withdrawal, did you prescribe DXP?). 113 (26%) SFAR physicians and 43 (18.9%) SFETD physicians were not prescribing DXP before its withdrawal.

Figure 1: Pain intensity (percentages) requiring DXP prescription before its withdrawal (VAS between 0: « no pain » and 10: « worst possible pain ») Weak pain (VAS < 3), moderate pain (3 < VAS < 6), severe pain (VAS > 6). Several possible answers.

Figure 2: Alternative drugs prescribed by Anaesthesiologists (A) and Pain specialists (B).

Tramadol PC: tramadol + Paracetamol; Codeine PC: codeine + Paracetamol; PC alone: Paracetamol alone.

Appendix 1:

Dextropropoxyphene (DXP) survey

Intended for SFAR Anaesthesiologists

Partners: SFAR/SFETD

Forty years after the dextropropoxyphene-paracetamol association (DXP-PC, mainly represented by Di-Antalvic®) was made available on the hexagonal market, this association was withdrawn from part of the European market – **and the French market in March 2011** – because of deaths due to intentional or accidental intoxications leading notably to respiratory depression, heart conduction disorders and renal failure in the elderly. Prescribers have been encouraged to reconsider medical care for their patients treated with this association by suggesting analgesic alternatives. This change was obviously difficult as France was the top European consumer with **8 million DXP users and more than 70 million units sold per year**.

In 1997 and more recently in 2008, the SFAR expressed doubts regarding DXP's clinical efficacy in postoperative analgesia. However, this drug was not only used in a perioperative context, as evidenced by considering the very high number of DXP-PC users in our country. As a reminder: in 2006, DXP was the second-highest prescribed drug reimbursed by the general health insurance regime.

The main goal of this survey was to determine and identify the therapeutic alternatives prescribed, particularly by anaesthesiologists. Indeed, it is of high relevance to know whether prescribers have chosen to substitute DXP by an analgesic of similar level, increased or decreased their prescribing levels, or suppressed the treatment without replacement. Never before has such a highly prescribed drug been suppressed from the French pharmacopeia.

The secondary objective was to evaluate physician feedback regarding this withdrawal. It should also imply knowledge of the drug prescription pattern before withdrawal.

Investigation on Dextropropoxyphene (DXP) withdrawal Hospital centres and clinics

To anaesthesiologists who do not practice chronic pain consultations

11 questions (< 5 minutes)

v6 November 2012

Stratification was performed on institution's type (university, public non university, private) and size (number of interventions with surgical stays). We thus obtained five strata: university hospital centres (CHU), large (> 2700 interventions per year) public hospital centres (CH), small CH; large (> 3200 interventions per year) private centres (CP) and small CP.

Q1: who are you?

- 1- a man
- 2- a woman

Q2: how old are you?

Q3: where do you work? (only one answer is possible)

- 1- Teaching hospital
- 2- Large Public hospital
- 3- Small Public Hospital
- 4- Large private centre
- 5- Small private centre

Q4: what is your status? (only one answer is possible)

- 1- Hospital Practitioner
- 2- Academic Assistant
- 3- Hospital assistant
- 4- Private physician
- 5- University professor
- 6- Residents

Q5: Before its withdrawal, were you prescribing DXP? (only one answer is possible)

- 1- Yes
- 2- No
- 3- Do not know

Q5a: If yes, for which indications? (several possible answers)

- 1- Prescriptions for surgical postoperative pain of low intensity (VAS \leq 3/10)
- 2- Prescriptions for surgical postoperative pain of moderate intensity (VAS between 3 and 6/10)
- 3- Prescriptions for surgical postoperative pain of severe intensity (VAS > 6/10)
- 3- Postoperative prescriptions in outpatient surgery
- 4- Medical indications (for example headaches)
- 5- Switch to a level III analgesic (opioid and non-opioid)

6- Others _____

Q5b: If no, for what reasons? (several possible answers)

- 1- You never wanted to prescribe this drug in the past

Why? _____

- 2- You anticipated the withdrawal of this dangerous drug

- 3- You anticipated the withdrawal of this ineffective drug
- 4- Your hospital pharmacy was not dispensing this drug anymore
- 5- You never had access to this medication
- 6- You used to prescribe another drug
- 7- You used it in the past but one of your patients displayed adverse events justifying its discontinuation

Which adverse event(s) _____

- 8- No opinion

Q6: How did you react after DXP withdrawal? (only one answer is possible)

- 1- The withdrawal disturbed your habits and you were not satisfied
- 2- The withdrawal did not change your habits
- 3- You had to modify your habits and it was a positive event

Q7: Upon withdrawal, what has been your choice for replacing this drug? (several answers possible)

- 1- You are prescribing tramadol alone
- 2- You are prescribing tramadol associated with paracetamol
- 3- You are prescribing codeine associated with paracetamol
- 4- You are prescribing lamaline (Opium)
- 5- You are prescribing morphine alone
- 6- You are prescribing another opioid drug, **which one?** _____
- 7- You are prescribing paracetamol alone
- 8- You are prescribing another non-opioid drug, **which one?** _____
- 9- Do not know

Q8: Are you aware of AFSSAPS (ANSM) recommendations regarding this drug withdrawal? (only one answer is possible)

- 1- Yes
- 2- No

Q8a: If yes, did you take them in account when managing DXP replacement for your patients?

- 1- Yes
- 2- No, they are not clear
- 3- No, you disagree with these recommendations
- 4- **Other reason** _____

THANK YOU

Enquête Dextropropoxyphène (DXP)

Intended for SFETD Physicians

Partners: SFAR/SFETD

Forty years after the dextropropoxyphene-paracetamol association (DXP-PC, mainly represented by Di-Antalvic®) was made available on the hexagonal market, this association was withdrawn from part of the European market – **the French market in March 2011** – because of deaths due to intentional or accidental intoxications leading notably to respiratory depression, heart conduction disorders and renal failure in the elderly. While the European Medicines Agency (EMA) identified 200 to 300 deaths per year in Sweden and in England, there were about 65 deaths per year in France attributable to DXP; for the AFSSAPS and the Medicine academy, this relatively low number was due to less misuse, different packaging and different delivery processes in France.

Prescribers have been encouraged to reconsider medical care for their patients treated with this association by suggesting analgesic alternatives. To do so, an algorithm has been proposed since 2010 collectively by the AFSSAPS, the general practitioners reference group of this agency, the French society of pain study and treatment (SFETD) and the French society of rheumatology (SFR). Depending on pain subtype (acute or chronic) and intensity (low to severe), this decision tree helps indicate therapeutic alternatives, with the administration of paracetamol or AINS alone, prescription of a level II analgesic, or introduction of a level III analgesic.

This change was nonetheless obviously difficult, as France was the top European consumer with **8 million DXP users** and **more than 70 million units sold per year**. In 1997 and more recently in 2008, the SFAR expressed doubts regarding DXP's clinical efficacy in postoperative analgesia. However, this drug was not restricted to a perioperative context in view of the very high number of DXP-PC users in our country. As a reminder, in 2006, DXP was the second-most prescribed drug reimbursed by the general health insurance regime.

Besides the risk of overdose, it is necessary to highlight the fact that a sudden discontinuation of a chronic treatment DXP could lead, as for any morphinic-like drug, to **a withdrawal syndrome** with very serious consequences. The procedure for DXP substitution by another drug, or for drug discontinuation, had therefore to be applied very carefully, according to December 2010 recommendations, even if these recommendations were very theoretical.

The main goal of this survey is to determine and identify the therapeutic alternatives prescribed by the three specialties most involved in acute and chronic pain management, particularly by **dedicated pain physicians**. Indeed, it is of high relevance to know whether prescribers have chosen to substitute DXP by an analgesic of similar level, increased or decreased their prescription level, or suppressed the treatment without replacement. Never before has such a highly prescribed drug been suppressed from the French pharmacopeia.

The secondary objective was to evaluate physician feedback regarding this withdrawal. It should also imply knowledge of the drug prescription pattern before its withdrawal.

**Investigation on the
2011 Dextropropoxyphene (DXP) withdrawal
Hospital centres, clinics, CETD, private doctors**

To dedicated pain physicians:

The practitioners will be surveyed through the SFETD network

15 questions (< 5 minutes)

6 November 2012

2- Q1: Who are you?

1- a man

2- a woman

Q2: how old are you?

Q3: where do you work? (only one answer is possible)

1- Teaching hospital

2- Large Public hospital

3- Small Public Hospital

4- Large private centre

5- Small private centre

6- CETD (centre for pain evaluation and treatment)

7- Private practice in an office

Q4: what is your status? (only one answer is possible)

1- Hospital Practitioner

2- Academic Assistant

3- Hospital assistant

4- Private doctor

5- University professor

6- Resident

Q5: Before its withdrawal, were you prescribing DXP? (only one answer is possible)

1- Yes

2- No

3- Do not know

Q5a: If yes, for which population?

Age : (several possible answers)

1- Prescriptions for children

2- Prescriptions for young patients

3- Prescriptions for the elderly (> 65 years old)

4- Any age

Q5b: If yes, at what frequency?

Frequency: (only one answer is possible)

- 1- Occasional prescriptions
- 2- Frequent prescriptions
- 3- Very frequent

Q5c: If yes, for what type of pain intensity? (several possible answers)

- 1- Pain of low intensity
- 2- Pain of moderate intensity
- 3- Pain of severe intensity

Q5d: If yes, for what indications? (several possible answers)

- 1- Acute pain
- 2- Chronic non-cancer pain
- 3- Chronic cancer pain

Q5e: If yes, mainly for some pain subtypes (provide the 3 most frequent)

- 1- Dental pain
- 2- Headache and trigeminal cephalalgia
- 3- ENT pain
- 4- Lumbar pain
- 5- Articular pain
- 6- Traumatic pain
- 7- Central neuropathic pain (for example post-stroke)
- 8- Peripheral neuropathic pain (for example diabetes)
- 9- Abdominal pain
- 10- Pelvic or perineal pain
- 11- Cancer pain
- 12- AIDS pain
- 13- Pain related to medical care or proceedings
- 14- Psychogenic pain
- 15- Others _____

Q5f: If No, for what reasons? (several possible answers)

- 1- You never wanted to prescribe this drug in the past
Why? _____
- 2- You anticipated the withdrawal of this dangerous drug
- 3- You anticipated the withdrawal of this ineffective drug
- 4- Your hospital pharmacy was not dispensing this drug anymore
- 5- You never had access to this medication
- 6- You used to prescribe another drug
- 7- You used it in the past but one of your patients displayed adverse events justifying its discontinuation

Which adverse event(s) _____

- 8- No opinion

Q6: How did react after DXP withdrawal? (only one answer is possible)

- 1- The withdrawal disturbed your habits and you are not satisfied
- 2- The withdrawal did not change your habits
- 3- You had to modify your habits and it was a positive event

Q7: Upon withdrawal, what has been your choice to replace this drug? (several answers possible)

- 1- You are prescribing tramadol alone
- 2- You are prescribing tramadol associated with paracetamol

- 3- You are prescribing codeine associated with paracetamol
- 4- You are prescribing lamaline (opium)
- 5- You are prescribing morphine alone
- 6- You are prescribing another opioid drug, **which one?** _____
- 7- You are prescribing paracetamol alone
- 8- You are prescribing another non-opioid drug, **which one?** _____
- 9- Do not know

**Q8: Are you aware of AFSSAPS (ANSM) recommendations regarding this drug withdrawal?
(only one answer is possible)**

- 1- Yes
- 2- No

Q8a: If yes, did you take them in account when managing DXP replacement for your patients?

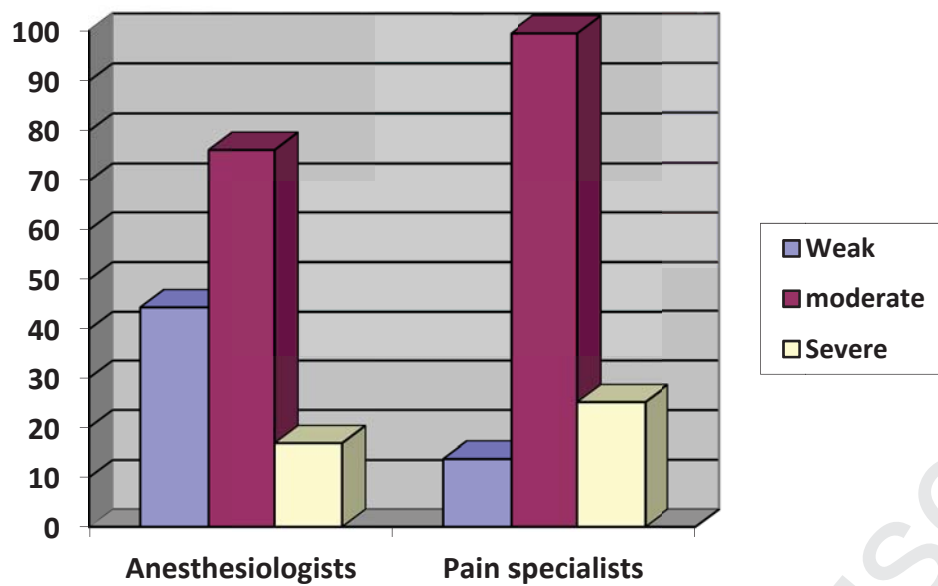
- 1- Yes
- 2- No, they are not clear
- 3- No, you disagree with these recommendations
- 4- **Other reason** _____

THANK YOU

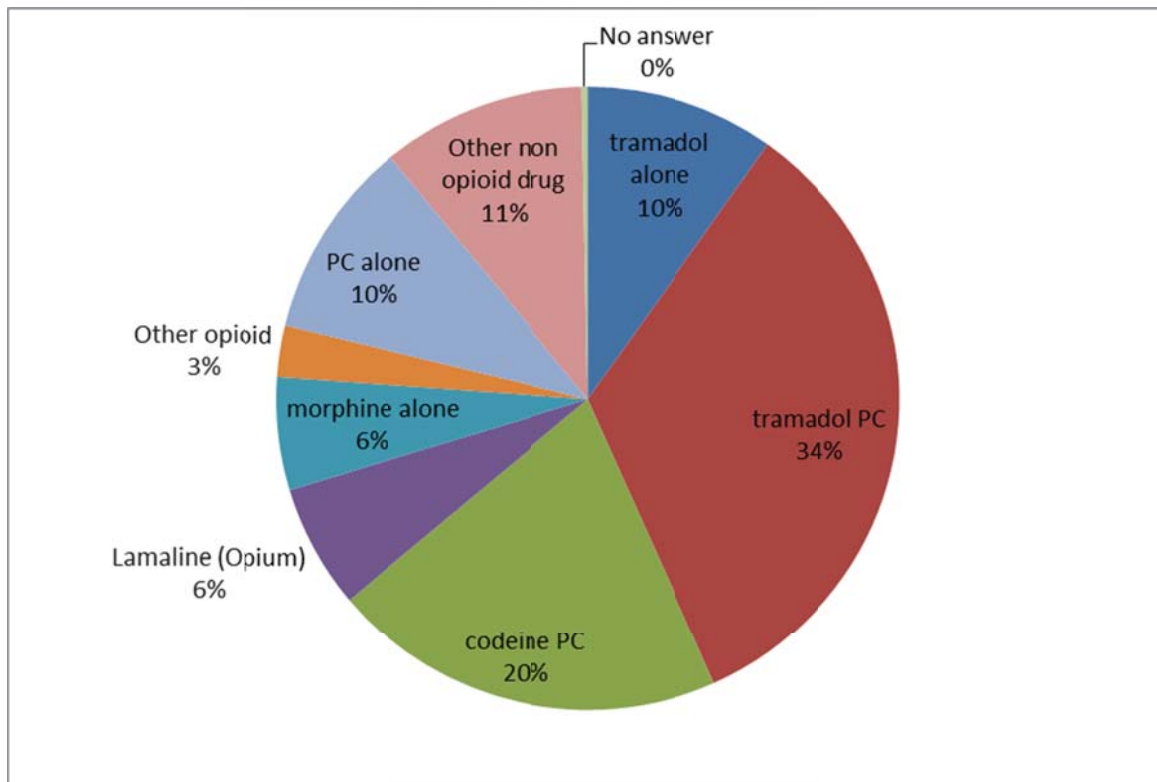
		SFAR (n= 433)	SFETD (n=234)
Gender	Men/Women : n (%)	288/145 (66,5/33,5)	127/107 (54,3/45,7)
Age	Mean (\pm SD)	48,1 (\pm 11,4)	51,5 (\pm 9,6)
Working place	CHU: n (%)	177 (40,9)	75 (32,1)
	Large CH: n (%)	75 (17,3)	55 (23,5)
	Small CH: n (%)	23 (5,3)	32 (13,7)
	Large CP: n (%)	91 (21,0)	30 (12,8)
	Small CP: n (%)	66 (15,2)	20 (8,5)
	CETD: n (%)	0 (0)	54 (23,1)
	Liberal practice: n (%)	0 (0)	30 (12,8)
	No answer	1 (0,2)	3 (1,3)
Status	Senior physician	207 (47,8)	136 (58,1)
	Private doctors	128 (29,6)	61 (26,1)
	Assistant	39 (9,0)	20 (8,5)
	Resident	33 (7,6)	10 (4,3)
	Academic physician	25 (5,8)	18 (7,7)
	No answer	1 (0,2)	6 (2,6)

Pain subtypes	%
Articular	76,1
Lumbar	73,3
Traumatic	55,6
Dental	24,4
Cancer	22,2
Headache and acute trigeminal cephalalgia	10
Related to medical care or proceedings	8,9
ENT	7,8
Abdominal	6,1
Pelvic or perineal	6,1
Other	4,4
Peripheral neuropathic (ex : diabetes)	3,9
Psychogenic	0,6
AIDS	0,6
Central neuropathic (post stroke)	0

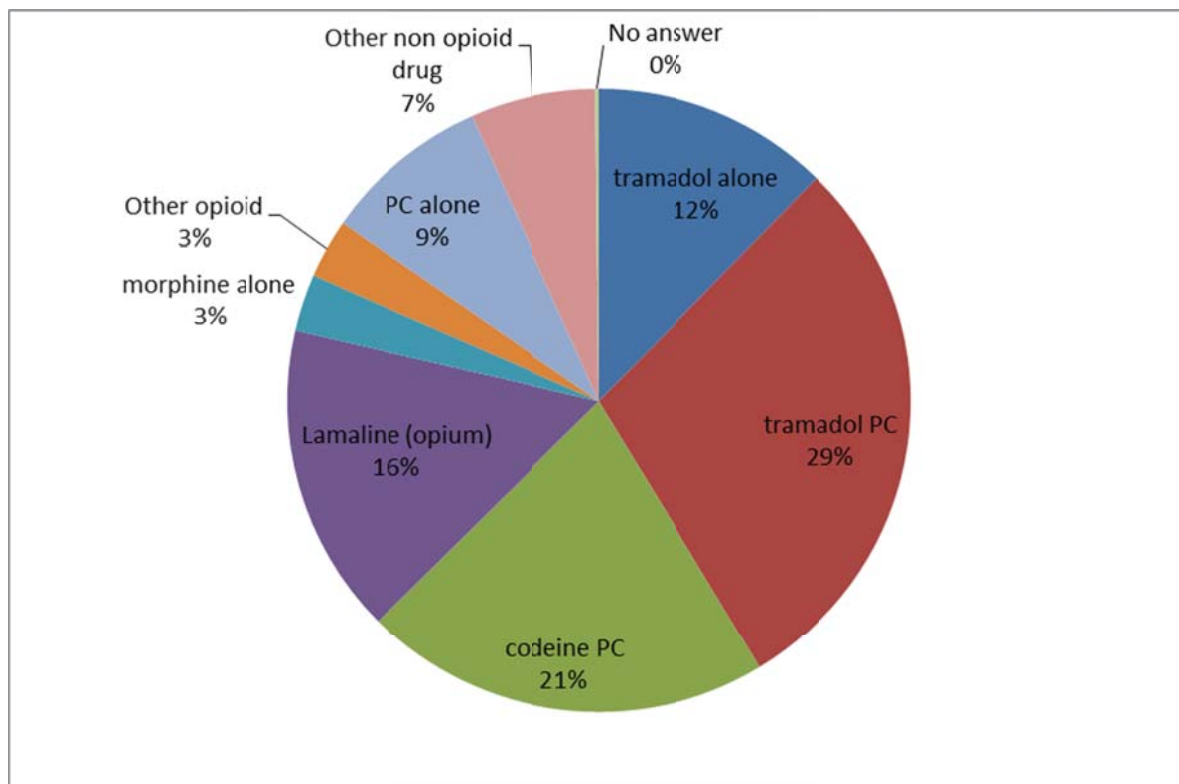
N (%)	Anesthesiologists (n =113/433)	Pain specialists (n=42/234)
You never wanted to prescribe DXP in the past	19 (16.8)	14 (33.3)
You anticipated the withdrawal of this dangerous drug	31 (27.4)	18 (42.9)
You anticipated the withdrawal of this ineffective drug	21 (18.6)	13 (31)
Your hospital pharmacy was not dispensing this drug anymore	5 (4.4)	2 (4.8)
Your healthcare facility never provided this drug	8 (7.1)	2 (4.8)
You never prescribed DXP because you used to prescribe another drug	63 (55.7)	9 (21.4)
You used DXP in the past but one of your patient had an adverse event justifying its discontinuation	4 (3.5)	0 (0)
No opinion	3 (2.6)	1 (2.4)



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