

Working towards a consensus on the oncological approach of breakthrough pain: a Delphi survey of Spanish experts

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Purpose: There is a lack of standards for the diagnosis, assessment and management of breakthrough cancer pain (BTcP). La Fundación ECO (the Foundation for Excellence and Quality in Oncology) commissioned a study to establish a consensus and lay the foundations for the appropriate management of BTcP in oncology patients.

Patients and methods: A modified Delphi survey comprising two rounds was used to gather and analyze data, which was conducted over the Internet. Each statement that reached a consensus with the respondents was defined as a median consensus score (MED) of ≥ 7 , and agreement among panelists as an interquartile range (IQR) of ≤ 3 .

Results: In total, 69 medical oncologists responded, with a broad consensus that BTcP implied exacerbations of high-intensity pain, as opposed to moderate pain. Furthermore, they concurred that appropriate diagnostic equipment is needed, and that rapid-onset fentanyl formulations should be the preferred treatment for BTcP management. The panelists agreed that a lack of appropriate information and training to attend to patients, as well as limited patient visitation rights, were barriers to effective BTcP management. Regarding gaps in detected knowledge, the panelists were unsure of the measures necessary to assess the burden of the disease on the patient's quality of life and associated medication costs. Alongside this, there was a lack of awareness of the technical specifics of the different formulations of rapid-onset fentanyl.

Conclusion: These results represent the current status of BTcP management. They may inform recommendations and provide a framework for future research.

Keywords: breakthrough pain, rapid-onset opioids, fentanyl, medical oncology, pain management

Introduction

Breakthrough cancer pain (BTcP) management is one of the most challenging problems associated with cancer pain, and has been linked to a negative impact on the patient's quality of life (QoL) and ability to function. It can lead to higher levels of depression and anxiety, poorer prognostic on future pain relief, and an increased burden for families and health services.¹⁻⁶

The prevalence of BTcP has been reported to range from 19% to 95%, depending on the BTP definition and the clinical setting.^{1,3,5,7} The International Association for the Study of Pain (IASP) estimates that between one half and two thirds of patients with chronic cancer-related pain experience BTcP episodes.

Despite its prevalence, BTcP remains an underdiagnosed and undertreated condition. The reasons for this are probably multifactorial, resulting from a lack

of official definition, and unjustified attitudes and misconceptions held by healthcare professionals and patients regarding opioids.^{5,9–12}

Despite international efforts, there is still no one universally accepted BTcP definition.^{13,14} Overall, BTcP can be considered as a relevant transitory increase in pain. However, there is controversy regarding the intensity of this pain and the patient's basal pain (absence of BTcP, BTcP effectively treated with opioids or uncontrolled BTcP).^{15–17}

Notwithstanding the proliferation of guidelines addressing pain in cancer patients,^{6–8,18,19} there is no consensus on BTcP management, and recommendations are heterogeneous, which is preventing the establishment of an adequately analgesic approach.

Classically, treatment options involve the optimization of the scheduled background analgesia and supplementing it with “rescue” medication when BTcP occurs.¹⁸ Short-acting opioids (SAOs) — immediate-release formulations of morphine—were previously considered the standard of care. However, recent evidence shows that rapid-onset opioids (ROOs) provide safe and effective BTcP management. ROO formulations are characterized by a rapid onset and short duration of action, consistent with the nature of BTcP episodes (acute)^{7,14,17,20} and the rapid resolution of pain required by these patients.¹⁵

The pharmacokinetics and tolerability profile of rapid-acting fentanyl products render them suitable for managing the acute, severe pain intensity that generally characterizes BTcP episodes.^{19,21,22}

Additionally, individualized therapy is made further possible due to the wide range of different rapid-onset fentanyl formulations and preparations available. However, the absence of comprehensive comparative trials means physicians must rely on their understanding and experience when prescribing the medication. This is important to determine the most effective and best-tolerated formulations for each patient.^{16,17,20}

In light of the above, physicians should be aware that rapid-onset fentanyl formulations are not bioequivalent (as they have substantial practical differences); nor are they interchangeable. Each formulation will have a different type of titration, depending on the needs of the patient.¹⁷

In clinical practice, the successful management of BTcP requires careful assessment, ongoing reassessment, and a treatment that is tailored to the individual patient. The treatment should also consider the type and cause of the BTcP, as well as patient preferences.^{6,23}

Within this context, the Foundation for Excellence and Quality in Oncology (ECO) commissioned a study to establish a consensus. This could subsequently be used to lay the foundations for the appropriate management of BTP (severely intense pain) in cancer patients. The goal of the study was to achieve a consensus among medical oncologists on a clinical approach towards the diagnostic evaluation and appropriate pharmacological management of patients with BTcP, specifically with rapid-onset fentanyl formulations.

Materials and methods

This study was carried out gathering and analyzing the opinion of expert using the Delphi method. In Spain this type of study is not included among those requiring Research Ethics Committees (RECs) approval or written consent.

A Scientific Committee (SC) was appointed, comprising three members from the Foundation for Excellence and Quality in Oncology and two support methodologists. The SC developed the questions for the first round, structured the questionnaire, set up the online questionnaire into the website created to the study, undertook statistical analysis of the data, produced interim documents and oversaw the process's general management.

The expert panel members, selected by the SC, included 71 Spanish oncology experts who were invited to participate in the consensus process through a modified Internet-based Delphi survey made up of two rounds.

Experts were identified from a selection of physicians specializing in medical oncology, and each possessed documented clinical expertise in cancer management at referral hospitals. The Delphi participants were located in geographically diverse parts of Spain, and were sent an email inviting them to take part in the study, as well as a link to access the questionnaire on the survey website.

The questionnaire

A selection of 50 statements were developed, each of which was relevant to the diagnosis, assessment and management of BTcP, and based on controversies found in both clinical practice and existing literature.^{15,24–26} The questionnaire was administered in Spanish. The purpose was to reach a consensus on questions arising from: a) The definition and assessment of BTcP; b) The therapeutic approach to BTcP; and c) The clinical rationale for administering fentanyl ROOs for BTcP treatment.

There was a further text-based question that allowed the experts to provide a figure for the prevalence of BTcP, as informed by their own clinical practice.

Finally, we asked 10 closed-ended questions about any perceived differences between the different systems or routes to administer fentanyl ROOs and the preferences of participants.

Panelists were asked to indicate their level of agreement with each statement using a nine-point Likert scale (one being “strongly disagree,” nine being “strongly agree”). Free text space was also provided to encourage comments.

Consensus definition and data analysis

The median response (MED) and interquartile range (IQR) were calculated for each statement. The level of agreement required for consensus among the panel members was decided prior to commencing the study.

Each statement that reached a consensus with the respondents was defined as a median consensus score (MED) of ≥ 7 , and agreement among panelists as an interquartile range (IQR) of ≤ 3 . Similarly, a MED score of ≤ 3 was considered to represent a consensus to reject the statement.

An IQR of ≥ 4 required a review of the criteria by the SC (via discussion). The statements in question were then either revised and included in the second questionnaire, or rejected based on additional comments received from panel members.

The questionnaire used in the second round contained the previous median and IQR of the ratings obtained in the first round for each retested statement, as well as some comments to clarify the wording. Respondents were asked to re-rate each item, using the information from the previous round as feedback, and to comment upon their rating. After the second round, the revised MED and IQR values were calculated.

Results

The participants were made up of expert oncologists from 14 of Spain's 17 Autonomous Communities. In the first round, 69 out of the 71 identified experts (97.2%) responded (male, $n=29$; 42%). Of the 69 questionnaires received, 66 were complete, two had two missing items and one had three missing items. All 69 respondents who took part in the first round also responded to the second one with a 100% compliance rate (no missing items). Response rates are shown in [Figure 1](#). The statements provided for consideration and subsequent consensus among participants are shown in [Table 1](#).

Definition and assessment of BTcP

Regarding the definition of BTcP, the experts strongly agreed upon it being an “Acute exacerbation of *high-intensity* pain of short duration and rapid onset, suffered by a patient whose baseline pain is stabilized and controlled by opioids” (MED=9, IQR=1). In contrast, the statement defining BTcP as “moderate” failed to reach an acceptable level of agreement after the second round (MED=7, IQR=5).

When rating the characteristics and assessment criteria for BTcP diagnosis, experts reached acceptable consensus scores after the second round on the majority of criteria. The statement “diagnosis of BTcP requires more than four daily episodes” failed to confirm a consensus, but did reach quite a high level of agreement (IQR=2.5). Qualitative comments made by the experts reflected the idea that establishing a minimum number of episodes could not help to define whether a patient was suffering from BTcP, and that an isolated episode could be diagnosed and managed as BTcP. Interestingly, in the first round, the statement “Validated pain assessment tools should be used in diagnosing BTcP” reached quite a high consensus score among the experts (MED =7, IQR=3). In the second round, the item was slightly changed to “Medical judgment in diagnosing BTcP prevails over validated scales”, which improved agreement levels (IQR=0). The statement “A maximum of nine episodes per day demonstrates a poor treatment of BTcP” was rejected (MED=2, IQR=2). This was done on the grounds that over four episodes a day should be considered a case of poor baseline pain analgesia rather than BTcP. There was no consensus on the statement “Patients are reluctant to report pain due to fear of treatment” (MED=5, IQR=4). The item regarding the assessment of QoL failed to reach a consensus (MED=5, IQR=4) and the item on the availability of tools to educate patients (MED=3, IQR=2) reached a negative consensus, indicating disagreement. Qualitative comments agreed that such statements were justified, but emphasized that they did not reflect daily clinical practice.

Therapeutic approach in BTcP

After the second round, a high level of consensus and an acceptable level of agreement were obtained in regard to almost all of the statements. Particularly the following statements: “potent, rapid-onset opioids should be used to treat BTcP” (MED=9, IQR=1); “rapid-onset fentanyl is the

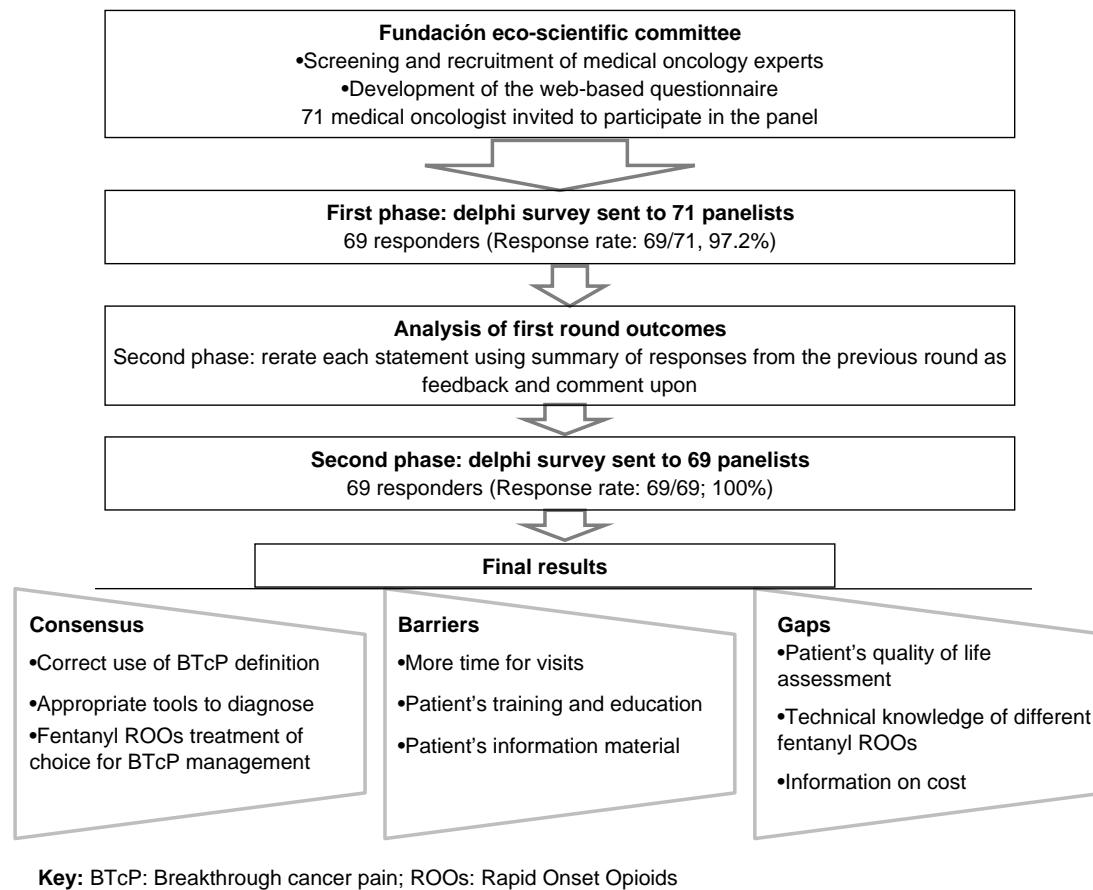


Figure 1 Flowchart of participants in the study.

treatment of choice for most patients suffering from BTcP” (MED=8, IQR=2); “the strategy of using the same opioid, although in different formulations for baseline pain and BTcP, is not necessary” (MED=8, IQR=1); and “incidental BTcP related to a predictable trigger factor can be treated with different fentanyl formulations, taking the patient’s preference into account” (MED=8, IQR=2).

Panelists rejected the use of weak opioids (WHO step II analgesics) as the treatment of choice for BTcP (MED=8, IQR=2), as well as the use of immediate-release oral opioids due to their slow onset of action (MED=7, IQR=3).

Clinical rationale for administering rapid-onset fentanyl opioids for BTcP

After the first round, items relating to cost-effectiveness were removed from the questionnaire after panelists expressed their unfamiliarity with medication costs. Even so, they reached a consensus, and arrived at an adequate level of agreement, in terms of taking costs into account when choosing a formulation for BTcP management

(MED=7, IQR=0). There was widespread consensus that clinical practice implies knowing the pharmacokinetic profile of the different fentanyl formulations (MED=8, IQR=2). Consequently, statements suggesting the bioequivalence or therapeutic equivalence with regard to prescribing the different formulations were ultimately rejected. Patients should play an increasingly active role in therapeutic choices (MED=9, IQR=1).

The survey which researched the preferred route of administration revealed a marked bias towards sublingual administration in terms of patient and clinician preferences, usability in different care settings, and ease of administration for physically disabled patients. The intranasal administrative route was considered to provide a faster onset of action, and to be more suitable for patients suffering mucositis. Oral transmucosal delivery scored the lowest across all items. [Table 2](#).

Lastly, the open-ended question revealed a high consensus and total agreement with regard to the prevalence of BTP in cancer patients (MED=7; IQR=0). The figures,

Table 1 Attributes considered for the diagnosis and management of BTcP by fentanyl rapid-onset opioids, and the consensus among participants

Statement	Mean	Median	IQR	Outliers (%)	Consensus Inclusion/Exclusion
Acute exacerbation of HIGH-intensity pain, characterized by a short duration and rapid onset, suffered by a patient whose baseline pain is stabilized and controlled by opioids.	8.09	9	1	7.25	YES/incl.
Acute exacerbation of MODERATE pain, characterized by a short duration and rapid onset, suffered by a patient whose baseline pain is stabilized and controlled by opioids.	6.01	7	5	42.03	NO
Diagnosis of BTcP requires more than four daily episodes.	3.12	3	2.5	24.64	YES/excl.
Medical judgment in diagnosing BTcP prevails over validated scales.	6.42	7	0	21.74	YES
Routine standardized pain scales such as VAS are implemented to assess BTcP.	6.96	7	1	23.19	YES
The meaningful pain intensity for BTcP diagnosis is >5/10 on a VAS scale.	7.09	7	1	10.14	YES
The score for controlled baseline pain is ≤3/10 on a VAS scale.	7.12	7	1	17.39	YES
Management of incident BTcP (predictable and related to a precipitating activity or event such as walking) is easier than spontaneous BTcP.	7.42	8	2	18.84	YES
In clinical practice, BTcP is shown to be highly prevalent in cancer patients.	8	8	2	7.25	YES
BTcP shows a high prevalence and large variability.	7.41	8	2	17.39	YES
End-of-dose failure pain is not BTcP but rather the result of baseline medication underdosing.	7.93	8	2	2.90	YES
End-of-dose failure pain can be easily mistaken for BTcP.	6.78	7	2	26.09	YES
A maximum of nine episodes per day demonstrates poor treatment of BTcP.	2.64	2	2	20.29	YES/excl.
Patients are reluctant to report pain due to fear of treatment.	5.16	5	4	88.41	NO
Patients do not complain about BTcP unless they are expressly asked about it.	6.84	7	0.5	13.04	YES
Standardized scales are routinely used to assess the patient's quality of life.	4.93	5	4	91.30	NO
Poorly managed BTcP damages the patient's quality of life.	8.58	9	1	2.90	YES
Tools to educate patients are usually available, as are guidelines for BTcP.	4.04	3	2	34.78	YES/excl
Unrelieved BTcP substantially raises healthcare costs due to increased outpatient and emergency room visits.	8.04	8	2	2.90	YES
BTcP is a heterogeneous condition as episodes vary both between patients and within the patient.	7.26	7	1	13.04	YES
Optimal therapy must take into account different subtypes of BTcP in individual patients.	6.93	7	1	23.19	YES
The use of weak opioids (WHO step II analgesics) is not appropriate for the management of BTcP.	7.41	8	2	17.39	YES

(Continued)

Table 1 (Continued).

Statement	Mean	Median	IQR	Outliers (%)	Consensus Inclusion/Exclusion
Oral opioids, with their slow onset of action, are inadequate as they may begin the analgesia after pain has abated, thereby causing adverse effects.	6.74	7	3	27.54	YES
The strategy of using the same opioid for the treatment of baseline pain and BTcP, but in different formulations, is not necessary	7.01	8	1	21.74	YES
The management of BTcP requires potent opioids with rapid onset of action.	8.41	9	1	0	YES
The management of BTcP with rapid-onset opioids is reserved for those patients who are NOT controlled with major opioids for the treatment of baseline cancer pain.	2.9	3	1	15.94	YES/excl.
The management of BTcP requires a route of administration that minimizes the first-pass hepatic metabolism (sublingual, transmucosal, intravenous, subcutaneous or spinal routes) to provide high bioavailability.	7.9	8	2	10.14	YES
The fentanyl formulations have a faster onset of action than immediate-release morphine, which is clinically relevant for BTcP treatment.	8.3	9	1	1.45	YES
For most cases of BTcP, rapid-onset fentanyl is the treatment of choice.	8.13	8	2	5.8	YES
The ideal analgesic for BTcP management should be a potent opioid, with rapid onset, short duration and easy administration.	8.57	9	1	0	YES
Predictable incident BTcP can be managed through the administration of either fast-acting fentanyl or oral opioids.	5.32	7	4	49.28	NO
Predictable incident BTcP can be managed by any of the rapid-onset fentanyl formulations according to patient preferences.	7.93	8	2	7.25	YES
End of dose failure pain can be treated by:					
- Increasing the dose of the opioid	6.46	7	2.5	30.43	YES
- Decreasing the dosing interval	6.77	7	1	18.84	YES
- Increasing the dose and decreasing the dosing interval	5.91	7	3	28.99	YES
In clinical practice, it is essential to know the pharmacokinetic profiles of the different fentanyl formulations.	7.78	8	2	13.04	YES
All fast-acting fentanyl formulations (lozenges, sublingual tablets, effervescent buccal tablets or nasal spray) allow for easy dosing.	4.17	3	4	31.88	NO
Rapid onset of action is the most relevant feature when choosing a fentanyl formulation for the management of BTcP.	7.23	7	2	18.84	YES
It makes no difference which fast-acting fentanyl formulation is used, as all of them share the same active ingredient: fentanyl citrate.	3.12	3	1	21.74	YES/excl.
The pharmaceutical formulation is not important in fast-acting fentanyl products.	2.90	3	1	21.74	YES/excl.
The route of administration is not clinically relevant for the management of BTcP.	2.61	3	2	10.14	YES/excl.
The patient's preference should be considered when deciding on the route of administration.	8.25	9	1	1.45	YES
All fast-acting fentanyl formulations (lozenges, sublingual tablets, effervescent buccal tablets or nasal spray) have a similar range of strengths.	5.3	5	4	72.46	NO

(Continued)

Table 1 (Continued).

Statement	Mean	Median	IQR	Outliers (%)	Consensus Inclusion/Exclusion
Specific attention should be paid to cost when choosing a formulation of fast-acting fentanyl for the management of BTcP.	6.71	7	0	18.84	YES
All formulations of fast-acting fentanyl are of the same efficacy.	3.58	3	0	21.74	YES/excl.
All formulations of fast-acting fentanyl offer the same safety profile.	3.38	3	0	17.39	YES/excl.
The routes of administration of fast-acting fentanyl are routinely exchanged when treating BTcP.	3.91	3	2	30.43	YES/excl.
The different formulations of fast-acting fentanyl are easily switched.	4.52	4	4	75.36	NO
The dose of fast-acting fentanyl should be titrated.	6.2	7	0.5	24.64	YES
The effective management of BTcP involves a combination of drugs.	4.75	3	4	47.83	NO
Based on your clinical practice, is there a percentage of stable prevalence of BTcP in cancer patients?	6.58	7	0	21.74	YES

stated by the experts, ranged from 20–80%. Interestingly, one expert provided a figure of 100% for both lung and genitourinary cancers.

Discussion

The purpose of this study was to reach a consensus that would lay the foundations for the appropriate management of BTP in cancer patients. The first step of clinical diagnosis is to discuss the pain. Therefore, the physician should make sure to ask the patient explicitly about pain flares until a diagnosis of BTcP can be confirmed.²⁷ There was a difference of opinion among respondents concerning the definition of BTcP. Most experts agreed that the qualifier “high” should be included in the definition, but rejected “moderate;” this is in line with the well-illustrated controversy present in medical literature.^{11,12,22} Therefore, this result demonstrates that BTcP implies a severe pain, in terms of intensity levels.

According to the experts, diagnosing BTcP depends on the presence of well-controlled background pain, which means that the development and progression of BTcP may also represent problems related to undertreated baseline pain. The guidelines consider that “adequate control of baseline pain” is an essential prerequisite to begin specific treatment for BTcP. However, no clear definition exists in scientific literature.¹⁵ In clinical practice, analgesic therapy for BTcP should be based on integration into the background pain’s therapeutic strategy. However, it is not always easy to distinguish BTcP from variations in the outcome assessment of baseline pain (for instance, end-of-dose pain).

A recent study found that where patients had background pain of $\leq 4/10$ on a numerical scale, the meaningful pain intensity at which they asked for BTcP medication was approximately 7/10.²⁸ The experts participating in the present study agreed that $\leq 3/10$ on a VAS scale means “controlled,” implying very mild background pain. Consequently, $>5/10$ means “moderate” pain, and it is from this point on the scale that BTcP should be assessed.

Regarding the statements on the use of opioids in managing BTcP, oncologists showed a great amount of knowledge. The SEOM (Spanish Society for Medical Oncology) recommendations²⁹ and ESMO³⁰ and EAPC guidelines⁸ state that ROOs should be considered first-line treatment for BTcP. In 2008, a survey conducted in Spain reported that fentanyl was largely the opioid most commonly used for treating cancer pain.³¹ Indeed, clinicians showed appropriate knowledge in the safe and effective use of rapid-onset fentanyl preparations. However,

Table 2 Indications, contraindications and pharmacokinetics of the different routes of administration of rapid onset fentanyl

	Intranasal	Oral transmucosal	Sublingual
Preferred by patients	√	√	√√√
Suitable for impaired patients	√	X	√√√
Patients with mucositis	√√√	√	√√
Patients with diabetes	√√√	X	√√
Preferred by clinicians	√	√	√√√
Usability in any care setting	√√	√	√√√
Reduced dosing interval	√√√	√	√√
Faster absorption	√√√	√	√√
Easiness for titration	√√	√	√√√
Widest range of forms and strengths	X	√	√√√

Notes: √√√= (MED≥8, IQR≤1); √√= (MED=7; IQR=2–3) √= (MED=7; IQR≥4); X= no consensus.

they scored poorly when asked about specific clinical scenarios and their scientific and technical knowledge regarding the different systems and routes of administration. These gaps in their knowledge concur with the findings of previous studies conducted in the USA and Asia, indicating that oncologists may not fully realize these weaknesses in their knowledge.^{32,33}

Experts also highlighted a noteworthy concern: limited attention is paid to QoL, despite its importance in patient well-being. In line with this, a recent pan-European survey found that adult oncology patients expressed that physicians were not interested in their QoL.⁵ Similarly, 52% of patients surveyed by the American Pain Foundation reported that they were told BTcP was a normal side effect of cancer and/or its treatment.³⁴ In this context, the present study identified a need to disseminate information and raise awareness among medical oncologists about the burden of BTcP on QoL. With that in mind, they can carry out their role correctly when dealing with this condition.

As for barriers to managing BTcP, experts denied that patients were reluctant to report pain. They did emphasize, however, the absence of clear, appropriate information available to patients, as well as the limited amount of time they had in clinical practice to discuss pain and educate them about pain management. These results are similar to those reported in different surveys from all around the world,^{32,33,35} in which time limitations and patient training were identified as significant barriers to the effective management of BTcP. Thus, it is apparent that there is a need for the development of patient information resources that provide clear and simple instructions, as education and patient compliance have been identified as the most important factors in appropriately managing pain.²

While there was a strong consensus that “Specific attention should be paid to cost when choosing a fast-acting

fentanyl formulation for BTcP management” (MED=7; IQR=0), it should be noted that questions about cost were withdrawn in the second round due to qualitative comments reporting a lack of knowledge about prices. This finding concurs with the lack of cost-effectiveness analyses on BTcP treatments³⁶ and oral fentanyl formulations, as recently stated by Italian clinicians.³⁷ Doctors who prescribe these medications are aware of the substantial difference in cost between fentanyl formulations and immediate-release morphine or oxycodone,³⁸ but cost-effectiveness analyses are needed in order to help them to select the best formulation.³⁷

In BTcP treatment, rapid onset of action and ease of use are universal variables in the prescription process across all care settings. That being said, we should note that the characteristics of BTcP, the preferences of the patient, and the therapeutic setting may influence their first therapeutic choice. A possible change in therapeutic choice and the route of administration should also be taken into consideration.

Although comparison studies among different fentanyl formulations are lacking, results from different studies showed that the sublingual route is well accepted by patients in terms of ease and modality of administration, mucoadhesivity, and their overall satisfaction,^{39,40} which is in line with the preferences reported in our study. Intranasal administration seems promising, but involves the mandatory use of specific delivery devices which affects usability.⁴¹ The oral transmucosal route of administration received a lower score for modality of administration and the time taken to achieve pain relief; furthermore, this approach requires experienced patients.^{16,17}

In short, oncologists must be aware of the particular features of each medication, such as the different pharmacokinetics, titration specifics, dosing intervals, and the

technical characteristics of its accessibility and delivery, as well as possible limitations in everyday clinical practice. According to our Delphi survey (items with or without consensus), there are apparent knowledge gaps to be filled. Therefore, our results will need to be taken into consideration when planning future trial analyses on fentanyl formulations, so as to extract all the necessary information to answer unresolved questions about its use; new trials must be also developed.

Furthermore, the needs identified, regarding the assessment and treatment of BTcP and the lack of awareness surrounding its impact on patients' QoL, could be used to devise and disseminate useful indications and recommendations (which could then be included in training programs for oncologists).

The limitations of this study include its declared focus on opioids, which has led to a lack of results in terms of the final consensus concerning the integration of other treatment strategies and methods. Moreover, this survey was devised to develop and evaluate a consensus to specifically address severe BTP that results from cancer or cancer treatment. It is therefore possible that if an alternative approach were used, different criteria would be needed to carry out the study.

Finally, the consensus, based on expert opinion, represents a low level of evidence with potential for bias, and thus may not be entirely accurate. Although we selected our panel using an empirical approach based on clinical expertise, we must consider the possibility of collecting more diverse responses if we had a different selection of respondents as palliative care physicians or anaesthesiologists.

Conclusion

These findings represent a pragmatic approach to the diagnosis and pharmacological management of severe BTcP. The documented consensus can act as a useful tool to analyze current clinical practice. It also provides a framework for properly inquiring about RCTs and for evaluating the efficiency and safety of the various ROOs formulations.

This consensus does not include specific treatment recommendations. This is due to the currently established rule of adjusting the dosage and route of administration according to the individual needs of each patient: individualization of BTcP opioid therapy is key to implementing the most effective treatment.

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Disclosure

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