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/CN=MICROSOFTEXCHANGE329E71EC88AE4615BBC36AB6CE41109E> on behalf of Nair, Aji Allen, Robert; Berns, Stefanie; Darwish, Mona; Denisa Hurtukova; Franks, Susan; Jacobs, John

C.; Larijani, Susan; Mayo, Debra; Kaper, Robert; Narayana, Arvind; Simmons, Betsy; Sterchele, James; Victor Abler; Williams, Paula C.; Yang, Ronghua; Pippa Loupe; Andy Young; Kaper,

Robert; Derkacz, Mike; Bill M Smith; Day, Matthew

CC: Ottinger, James; Jurkowski, Claire

Sent: 12/12/2011 1:28:54 PM

Subject: Fentora/Actiq REMS Supplement for Pain Audience Published **Attachments:** Fentora/Actiq REMS Supplement for Pain Audience Published

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C.; Larijani, Susan; Mayo, Debra; Kaper, Robert; Narayana, Arvind; Simmons, Betsy; Sterchele, James; Victor Abler; Williams, Paula C.; Yang, Ronghua; Pippa Loupe; Andy Young; Kaper,

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CC: Ottinger, James; Jurkowski, Claire

Sent: 12/12/2011 1:28:50 PM

Subject: Fentora/Actiq REMS Supplement for Pain Audience Published

Attachments: SR1140_CEPHALON_REMS_FINALrev.pdf

All,

The first of 3 REMS supplements for Fentora and Actiq has been published online in 3 journals. You can view it on the Special Reports page on all three publication websites (linked below and PDF attached). They will also be included in the December issue print publications and distributed at every pain, oncology and anesthesiology meeting attended by the three publications for one full year.

Pain Medicine News: http://painmedicinenews.com/NewsArticles.aspx?d=Special+Reports&d_id=94

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In addition, the publisher included the special report in their email newsletter:



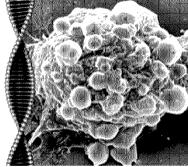
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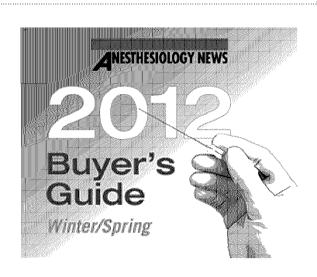


Opioid Gene Variants Linked To Cancer Survival in Women

SSUE: December 2011

Mounting laboratory and epidemiologic data have suggested a link between exposure to opioids during cancer

surgery and metastasis of, and eventual death from, the disease. Now, a major genetics study has turned up some of the most compelling evidence yet for a connection between opioids and malignancy, even beyond the operating room.



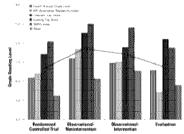
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<u>Is QT Prolongation A Valid</u> <u>Reason To Abandon Zofran?</u>

ISSUE: December 2011

Although the FDA announced it is conducting a safety review of the antinausea drug Zofran (ondansetron, ondansetron hydrochloride and their generics) because of its potential to increase the risk for cardiac arrhythmias, some experts say the drug is still useful in many patients, provided it is appropriately monitored.



Uninformed Consent: Average Study Participant Likely Unaware of Risks

ISSUE: December 2011

Informed consent is a must for any clinical researcher, a legacy of Boston anesthesiologist Henry Knowles Beecher, MD, an early pioneer in the field of medical ethics. Dr. Beecher's 1966 paper in the New England Journal of Medicine exposing widespread ethical lapses in clinical research helped lay the foundations for the research protections that most investigators now take for granted.

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Special Report

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Special REPORT

An Integrated Risk Evaluation and Mitigation Strategy for Fentanyl Buccal Tablet (*FENTORA®*) and Oral Transmucosal Fentanyl Citrate (ACTIQ®)

It is well recognized that the judicious use of opioids can facilitate effective and safe management of chronic pain. Nonetheless, the potential risks for misuse, abuse, addiction, and overdose must be considered when prescribing opioid medications. In an effort to manage the risks associated with all opioids, the FDA now requires a Risk Evaluation and Mitigation Strategy (REMS) for certain medications. A REMS is a regulatory program designed to improve the quality of medication use. It contains components that are intended to minimize the known or potential serious risks associated with a particular medication or therapeutic class and to ensure that the benefits outweigh those risks.

Rapid-onset opioids, including products such as fentanyl buccal tablet (FENTORA®) and oral transmucosal fentanyl citrate (OTFC; ACTIQ®), are important treatment options for opioid-tolerant patients with chronic cancer pain accompanied by breakthrough pain (BTP). Recently, the FDA adopted the more descriptive terminology of

transmucosal immediate-release fentanyl (TIRF) for the class of rapid-onset opioids. Cephalon, Inc., is committed to maintaining access to appropriate pain management for the often debilitating effect of BTP in opioid-tolerant patients without compromising patient or public safety. Thus, Cephalon has implemented the recently FDA-approved ACTIQ and FENTORA REMS program to help mitigate potential safety concerns observed with opioids. Eventually, this approved REMS will be merged with REMS for other TIRF products to create a classwide program.

In this supplement, we present the background to the REMS program, a brief review of BTP along with the clinical data supporting the use of *FENTORA* and ACTIQ for BTP in appropriate opioid-tolerant patients, and an overview of the recently approved REMS for *FENTORA* and ACTIQ. Health care professionals who prescribe opioids will be required to enroll in the REMS program in order to prescribe these products.



Supported by Cephalon, Inc. Frazer, Pennsylvania



Although we understand that this may place an additional burden on those involved in prescribing, distributing, and dispensing TIRF products, we hope that these extra steps will ensure that these important medications are appropriately distributed to and received by the patients who need them.

The Steering Committee for ACTIQ® and FENTORA® REMS

Randy J. Bradway, MS, RPh; Bill Campbell; Claire Jurkowski, MD; Robert F. Kaper, MD; James Ottinger, RPh Cephalon, Inc. Frazer, Pennsylvania

The Risk Evaluation and Mitigation Strategy: Background

James Ottinger, RPh Susan Franks, MS

Cephalon, Inc. Frazer, Pennsylvania

n 2007, the FDA Amendments Act provided the FDA with the authority to require pharmaceutical manufacturers to develop a REMS to ensure that the benefits of a drug outweigh its risks.¹ A REMS can be mandated for any newly approved prescription drug or biologic product or for any previously approved drug or biologic product if the FDA becomes aware of new safety information. In 2009, the FDA issued a draft "Guidance for Industry" outlining the format and content of a REMS program.¹ Each REMS is designed to minimize inappropriate use without hindering patient access to medications.² Currently, approximately 200 REMS programs have been approved by the FDA covering a wide variety of therapeutic areas, including opioid medications.²

REMS Components

A REMS program can have 5 components: (1) "Medication Guide" or patient package insert, (2) "Elements to Assure Safe Use," (3) communication plan, (4) implementation system, and (5) timetable for submission of assessment. Each REMS, however, does not have to encompass all of these components.¹

The "Medication Guide" or patient package insert component of REMS serves as the primary educational tool for health care professional–directed patient education and is distributed to patients by the pharmacy at the time of dispensing.¹ Important elements of the "Medication Guide" include a description of the safety, including the adverse-event (AE) profile of the medication, warnings and precautions, storage requirements, and dosing.

The "Elements to Assure Safe Use" can include prescriber and pharmacist training and certification, restrictions on where the medication is dispensed, evidence of patient safe-use conditions, patient education, safety protocols, patient monitoring and enrollment or data collection forms, and medication monitoring procedures. The mechanism by which these elements are disseminated is described in the communication plan. This component of the REMS may include letters to health care professionals or other stakeholders regarding medication risks and specific protocols to foster appropriate medication use.

In the implementation system, the drug manufacturer must take reasonable steps to monitor and evaluate the implementation of REMS by the stakeholders (eg, health care providers, pharmacists) who are responsible for executing its various REMS elements. In the timetable for submission of assessment section, an assessment of the effectiveness of the REMS must be submitted to the FDA no less frequently than 18 months, 3 years, and 7 years after REMS approval. This is the only component mandated for all REMS programs. The FDA may, at its discretion, require more frequent submission of REMS assessments.

REMS: Implications for Opioids

The use of opioid medications is an essential part of pain management for many patients with chronic pain. However, these medications have serious potential risks, including misuse, abuse, addiction, and overdose. For example, according to the most recent data available from the National Drug Intelligence Center and US Department of Justice, deaths caused by unintentional overdose involving prescription opioids increased 114% between 2001 (3,994 cases) and 2005 (8,541 cases). In an effort to manage these risks, certain classes of opioids have been included in the federal mandate to develop a REMS.

In February 2009, the FDA contacted the manufacturers of all long-acting opioids (LAOs) and extended-release (ER) opioid formulations, including oxymorphone, oxycodone, morphine, methadone, transdermal buprenorphine, transdermal fentanyl, and hydromorphone, and mandated that the manufacturers design a classwide REMS program to accommodate all of these products.2 To date, the FDA has approved several individual REMS programs for these opioid medications while the classwide REMS is being designed.3 In April 2011, the FDA sent notification letters to all manufacturers of LAOs and ER opioids informing them of the need to submit a single-system REMS to provide training to health care professionals who prescribe opioids and to develop information for them to use when counseling patients about the risks and benefits of opioids.⁵ Although specific medical education is not mandatory for prescribing ER opioids and LAOs in the REMS, separate legislation has been proposed in the US House of Representatives that would link mandatory training or certification to the Drug Enforcement Administration



registration number that already is required to prescribe controlled substances.⁶

In October 2010, the FDA contacted the manufacturers of TIRF products in order to harmonize individual TIRF-product REMS that were approved or under active review. In parallel, the FDA requested that the manufacturers work together to create a single, shared system for all TIRF products. In contrast to the REMS for LAOs and ER opioids, TIRF-product REMS programs contain a mandatory education element. A REMS meeting the new FDA requirements has been approved for the fentanyl buccal tablet (FENTORA)

and OTFC lozenge (ACTIQ). Cephalon, Inc., has launched a Web site, www.ReadyForREMS.com, to raise awareness of and provide updates to the REMS program and to serve as a resource for stakeholders looking for information about the FDA-mandated REMS for opioids. Additionally, REMS programs that meet the new FDA requirements are available for the fentanyl sublingual tablet (Abstral®) and fentanyl nasal spray (Lazanda®). Revisions to the existing REMS for fentanyl buccal soluble film (Onsolis®) are under review as of this writing. To date, the FDA has not required REMS programs for non-TIRF, short-acting opioid products.

Breakthrough Pain in Cancer and Noncancer Patients: An Overview

Arvind Narayana, MD

Cephalon, Inc. Frazer, Pennsylvania

atients with chronic pain often experience transitory exacerbations of pain despite long-term treatment with an around-the-clock (ATC) opioid. These exacerbations, or flares, that occur on a background of otherwise well-controlled, persistent, chronic pain are defined as BTP.8 BTP can escalate rapidly and unpredictably, reaching peak intensity within a median of 10 minutes.9-12 The prevalence of BTP is high; in a recent survey of community-dwelling patients with chronic cancer pain or chronic noncancer pain (CNCP), 33% and 48%, respectively, experienced BTP.11 The appropriate management of BTP is of particular clinical and socioeconomic importance. In patients with chronic pain who have controlled persistent pain, the presence of BTP has been associated with increased health care costs due to hospitalizations and emergency department visits,13 and patients with BTP have greater functional impairment, disability, depression and anxiety, and decreased quality of life than patients without BTP.10,14

Physicians and other health care professionals caring for patients with pain often supplement the ATC opioid with short-acting oral opioids (eg, oxycodone, hydrocodone) for the management of BTP.^{9,15,16} However, many BTP episodes reach peak intensity within minutes, far sooner than the onset of analgesia produced with conventional, orally administered, short-acting opioid medications (30-60 minutes), ^{9,10,16} thus limiting their therapeutic usefulness. TIRF products have been developed to address the need for opioids with a rapid onset of analgesia that more closely matches the time profile of a typical BTP episode.

Fentanyl Buccal Tablet: Clinical Data Review

The fentanyl buccal tablet is a rapid-onset, Schedule II opioid approved by the FDA in 2006 for the treatment of BTP in patients with cancer who are already receiving and are tolerant to opioid therapy for their underlying persistent cancer

pain.¹⁷ Fentanyl buccal tablet uses OraVescent® drug delivery technology, which employs a chemical reaction to enhance the rate and extent of absorption of fentanyl through the buccal muccsa.¹⁸ As a result, the pharmacokinetic profile of fentanyl buccal tablet is characterized by greater bioavailability and results in a higher early systemic exposure than OTFC and other fentanyl tablet formulations.¹⁹⁻²¹

The clinical efficacy and safety program for fentanyl buccal tablet encompasses 8 well-designed, peer-reviewed, published clinical studies. Three of these studies included patients with cancer-related BTP,22-24 and 5 included patients with noncancer-related BTP (eg, neuropathic or low back pain).²⁵⁻ ²⁹ An overview of these studies is summarized in the Table, and the analgesic response to fentanyl buccal tablet in these studies (as measured by the percentage of episodes of BTP with a ≥33% improvement in pain intensity [PI]) is presented in Figure 1.30 In general, the inclusion and exclusion criteria in these studies are representative of the patient-selection standards that can be employed in clinical practice. Each study included opioid-tolerant patients who were receiving ATC opioids for their controlled persistent pain. 22-29 In some studies, patients had to have an average PI score of 6 or less (or in some studies, <723,25,29) on a numeric rating scale ranging from 0 (no pain) to 10 (worst pain imaginable) for their chronic pain during the previous 24 hours to confirm that their persistent pain was reasonably well controlled. 23,25-29 Patients also had to report experiencing 1 to 4 BTP episodes per day that were at least partially relieved with a traditional shortacting opioid. Patients with a recent (within 5 years) history of alcohol or substance abuse or positive urine drug test for illicit substances were excluded.

Studies in Patients With Cancer

Two randomized, double-blind, placebo-controlled studies assessed the safety and efficacy of fentanyl buccal tablet



Table. Summary of Clinical Studies for Fentanyl Buccal Tablet

Study and Population Evaluated for Safety	Patient Population	Study Design	Primary Outcome Measure	Primary Results
Portenoy et al, 2006 ²² (N=123)	Chronic cancer pain with BTP	Open-label titration followed by randomized, double-blind, placebo- controlled treatment phase	SPID ₃₀ (fentanyl buccal tablet vs placebo)	LS mean (SE): 3 (0.12) vs 1.8 (0.18) P<0:0001
Slatkin et al, 2007 ²³ (N=125)	Chronic cancer pain with BTP	Open-label titration followed by randomized, double-blind, placebo- controlled treatment phase	SPID ₆₀ (fentanyl buccal tablet vs. placebo)	Mean (SE): 9.7 (0.63) vs 4.9 (0.50) P<0.0001
Weinstein et al, 2009 ^{24,a} (N=232)	Chronic cancer pain with BTP	Open-label titration ^a followed by open-label maintenance phase of ≥12 mo	Safety assessments, including AEs, physical/neurologic examinations, and clinical laboratory tests	Most commonly reported AEs were nausea (37%), vomiting (22%), dizziness (20%), and fatigue (16%)
Simpson et al, 2007 ²⁵ (N=102)	Chronic neuropathic pain with BTP	Open-label titration followed by randomized, double-blind, placebo-controlled, crossover treatment phase	SPID ₅₀ (fentanyl buccal tablet vs placebo)	Mean (SE): 9.63 (0.75) vs 5.73 (0.72) P<0.001
Portenoy et al, 2007 ²⁶ (N=104)	Chronic low back pain with BTP	Open-label titration followed by randomized, double-blind, placebo- controlled treatment phase	SPID ₆₀ (fentanyl buccal tablet vs placebo)	Mean (SE): 8.3 (0.66) vs 3.6 (0.57) P<0.0001
Farrar et al, 2010 ²⁷ (N=148)	CNCP with BTP	Open-label titration followed by randomized, double-blind, placebocontrolled, crossover treatment phase	SPID ₆₀ (fentanyl buccal tablet vs placebo)	Mean (SD): 7.7 (6.2) vs 4.6 (4.7) P<0.0001
Fine et al, 2010 ^{29,a} (N=728)	CNCP with BTP	Open-label titration ^a followed by open-label maintenance phase of up to 18 mo	Safety assessments, including AEs, physical/ neurologic examinations, and clinical laboratory tests	Most commonly reported AEs were nausea (17%), back pain (15%), vomiting (12%), and headache (11%)
Ashburn et al, 2011 ²⁸ (N=320)	Chronic cancer pain and CNCP with BTP	Open-label titration followed by randomized, double-blind, active- controlled, crossover phase	PID ₁₅ (fentanyl buccal tablet vs oxycodone immediate- release)	Mean (SD): 0.82 (1.12) vs 0.60 (0.88) P<0.0001

³ This study enrolled patients who completed 1 of 2 previous double-blind, placebo-controlled, short-term studies. It also enrolled new patients who were being managed with around-the-clock opioids at time of enrollment but were naive to fentanyl buccal tablet.

AE, adverse event; **BTP**, breakthrough pain; **CNCP**, chronic noncancer pain; **LS**, least squares; **PID**₁₅, pain intensity differences at 15 minutes; **SD**, standard deviation; **SE**, standard error; **SPID**₃₀, sum of pain intensity differences at 30 minutes; **SPID**₆₀, sum of pain intensity differences at 60 minutes



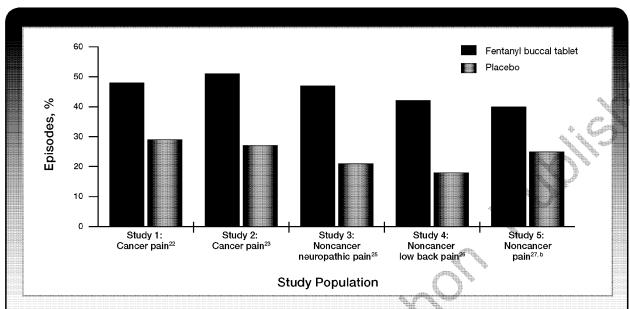


Figure 1. Percentage of BTP episodes with ≥33% improvement in PI at 30 minutes in randomized, double-blind, placebo-controlled, fentanyl buccal tablet studies.

^a All P<0.05, fentanyl buccal tablet vs placebo.

^b During double-blind period 3.

BTP, breakthrough pain; PI, pain intensity

Adapted with permission from Fine et al, 2010.30

in opioid-tolerant patients with cancer. 22,23 After an openlabel dose-titration phase, patients were then randomized to sequences of 10 tablets (7 fentanyl buccal tablet, 3 placebo) to treat 10 successive episodes of BTP. The sum of pain intensity differences at 30 minutes (SPID₃₀²²) and 60 minutes (SPID6023), the primary efficacy measures, was significantly greater for BTP episodes treated with fentanyl buccal tablet compared with placebo (P<0.0001) in both studies. Pl differences also favored fentanyl buccal tablet in these 2 studies, with significant differences versus placebo seen as early as 10 to 15 minutes (P<0.01) and maintained through 1 to 2 hours (P<0.01), 22,23 AEs reported in 5% or more of patients in the 2 studies included nausea, dizziness, headache, fatigue, vomiting, constipation, asthenia, and somnolence.34 Most AEs were typical of events observed with opioids, mild to moderate in intensity, and transient in nature. No incidents of respiratory depression or other serious AEs related to fentanyl buccal tablet were reported in either study.

Patients who completed either of these 2 studies were offered the option to enroll in a long-term (≥12 months), open-label extension study to assess the ongoing safety and tolerability of fentanyl buccal tablet.²⁴ This third study also enrolled new patients with cancer who were being managed with ATC opioids at study entry but were naive to fentanyl buccal tablet. As in the 2 short-term studies, the most frequently reported AEs in the

extension study were of the type and severity typically observed in cancer patients treated with chronic opioid therapy. Only 1 study drug-related serious AE, drug withdrawal syndrome, was reported in this long-term safety study.

Studies in Patients Without Cancer

Of the 5 published studies of fentanyl buccal tablet that have been conducted in patients with CNCP, 1 study assessed the safety and efficacy of fentanyl buccal tablet for BTP in opioid-tolerant patients with chronic low back pain, 26 and another assessed fentanyl buccal tablet for neuropathic pain. 25 In these 2 studies, after an open-label titration phase, patients were randomized to treat 9 consecutive episodes of BTP (6 fentanyl buccal tablet, 3 placebo). Mean SPID_{60} , the primary efficacy measure, was significantly greater for BTP episodes treated with fentanyl buccal tablet than those treated with placebo (P<0.001) in both studies. Statistically significant differences in PI (P<0.05) also were observed as early as 10 minutes after administration of fentanyl buccal tablet, an effect that was maintained through 2 hours in these studies.

The third study consisted of 3 randomized, double-blind, placebo-controlled periods designed to assess the effectiveness of fentanyl buccal tablet in patients with CNCP over 12 weeks. ²⁷ After completing a dose-titration phase, patients continued to a 12-week, open-label treatment phase, during which they received 6 doses of fentanyl buccal tablet



and 3 doses of placebo in a randomized sequence every 4 weeks. During the last of the 3 randomized treatment periods $SPID_{80}$, the primary efficacy measure, was significantly greater for fentanyl buccal tablet compared with placebo (P<0.0001). Differences in PI reached statistical significance at 15 minutes (P<0.05) and were maintained through 120 minutes. Additionally, a significantly higher proportion of episodes treated with fentanyl buccal tablet resulted in any pain relief beginning as early as 5 minutes after administration of fentanyl buccal tablet (P=0.018).

The fourth study assessed the safety and efficacy of fentanyl buccal tablet compared with immediate-release oxycodone in the treatment of BTP in opioid-tolerant patients with chronic cancer pain or CNCP. After an open-label titration period during which patients identified successful doses of fentanyl buccal tablet and oxycodone, patients entered double-blind, randomized treatment period 1, during which they treated 10 BTP episodes with 1 of the 2 blinded study medications at the successful dose identified. During double-blind treatment period 2, patients treated 10 subsequent BTP episodes with the other blinded study drug. Significant differences in PI were observed as early as 5 minutes after fentanyl buccal tablet administration compared with oxycodone (P=0.0081) and were maintained through 60 minutes post dose (P<0.0001).

Patients who completed either of the first 2 noncancer studies were offered the option to enroll in a long-term (≥12 months), open-label extension study to assess the ongoing safety and tolerability of fentanyl buccal tablet.²⁹ This study

also enrolled new patients with CNCP who were being managed with ATC opioids at study entry but were naive to fentanyl buccal tablet.

AEs in these 5 studies²⁵⁻²⁹ were those typically observed in patients with CNCP treated with a potent opioid analgesic, and were similar to those observed in the studies that included patients with cancer and chronic pain with BTP. In a combined analysis of the 3 double-blind, placebo-controlled studies (Farrar et al,²⁷ Portenoy et al,²⁶ and Simpson et al²⁵), the long-term, open-label extension study (Fine et al29), and an open-label, 4-week study in patients with chronic pain (Webster et al,32 not presented here), the most frequently reported AEs (≥10%) were nausea, vomiting, dizziness, and headache.³³ Application site reactions or abnormalities were reported in 12% of patients; these incidents tended to occur early in treatment, were transitory, and led to study discontinuation in approximately 1% of patients. Serious AEs that were considered possibly related or definitely related to study drug were reported in 2 of the 3 double-blind, placebocontrolled studies described earlier. One patient experienced accidental overdose resulting in a loss of consciousness.²⁶ This patient was admitted to the hospital and fully recovered. Another patient experienced pneumonia and had an accidental overdose of opioid medication, and in another patient, abuse of opioid medications resulting in withdrawal symptoms was reported.²⁷ During the long-term safety study, serious AEs occurred in 18% of patients, the most common prwhich included chest pain, pneumonia, and vomiting (5 patients each).29

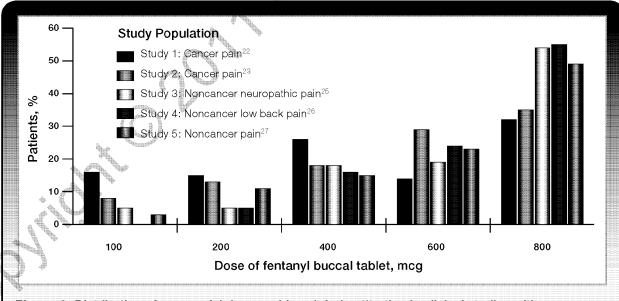


Figure 2. Distribution of successful doses achieved during titration in clinical studies with fentanyl buccal tablet.

Adapted with permission from Fine et al, 2010.30

6

Oral Transmucosal Fentanyl Citrate: Clinical Data Review

OTFC is a TIRF formulation approved by the FDA in 1998 for the treatment of BTP in patients with cancer who are already receiving and are tolerant to ATC opioid therapy for their underlying persistent cancer pain. ³⁴ Each OTFC lozenge consists of fentanyl, incorporated in a sweetened matrix and attached to a handle. The patient administers OTFC by rubbing the lozenge along the inside of the cheek, which causes the lozenge to dissolve in the mouth, allowing rapid absorption of fentanyl through the buccal mucosa. ³⁵

The efficacy and safety of OTFC were assessed in a randomized, double-blind, placebo-controlled study of opioidtolerant patients with cancer.36 After an open-label titration period to identify an effective dose of OTFC, 92 patients entered a double-blind, crossover phase, where they were given 10 randomly ordered treatments (7 doses of OTFC at the effective dose identified and 3 placebo) in the form of identical lozenges to treat 10 BTP episodes. Significant differences in PI were observed at all time points after OTFC administration compared with placebo (P<0.0001). AEs were typical of those observed in patients with chronic pain and cancer treated with a potent opioid analgesic and included dizziness, nausea, somnolence, constipation, and asthenia. In addition, 2 randomized, open-label, dose-titration studies have assessed the use of OTFC for the treatment of BTP in opioid-tolerant cancer patients with persistent, chronic pain.37,38 In these studies, 74% to 76% of patients with BTP successfully titrated to an effective dose of OTFC. AEs were typical of opioid-related events in both studies.

Patients successfully completing any of the 3 short-term

cancer studies described earlier as well as new patients were eligible to enroll in a long-term, open-label extension study to assess the ongoing safety and tolerability of OTFC. The Rollover patients received OTFC at the effective dose determined in the short-term study. As expected, the most commonly reported AEs were typical of those reported with opioids (somnolence constipation, nausea, dizziness, and vomiting). Six patients dropped out of the study due to an AE that was at least possibly related to OTFC.

Fentanyl buccal tablet has been shown to be effective in the treatment of BTP associated with multiple causes of pain. Nonetheless, TIRF products such as fentanyl buccal tablet and OTFC have been associated with potential risks for misuse, abuse, addiction, and overdose. According to an analysis of clinical studies of fentanyl buccal tablet in CNCP, 17% of patients had an aberrant behavior (eg, overadministration of study medication, medication theft, overdose), with 11% considered by the investigator to be possibly related to the study medication.39 The incidence of aberrant behaviors in this study was low compared with previously published studies (32%-51%), 4.41 thus highlighting the importance of appropriately selecting patients who are most likely to benefit from treatment. It also is important to carefully titrate fentanyl buccal tablet and OTFC to identify the most appropriate dose for each patient to achieve acceptable analgesia without unacceptable AEs. In clinical studies of fentanyl buccal tablet, 65% to 81% of patients identified a successful dose, with the majority identifying a successful dose between 400 and 800 mcg (Figure 2).30 Employing appropriate patient selection, treatment, and monitoring can help ensure that the benefits of fentanyl buccal tablet and OTFC treatment outweigh the risks.

REMS for ACTIQ and FENTORA

Randy J. Bradway, MS, RPh Claire Jurkowski, MD Robert F. Kaper, MD James Ottinger, RPh Cephalon, Inc. Frazer, Pennsylvania

A s part of its commitment to patient safety, and in compliance with the FDA guidance, Cephalon, Inc., has developed a REMS for ACTIQ (OTFC) and FENTORA (fentanyl buccal tablet). The goals of this REMS, which was approved by the FDA in July 2011, are to mitigate the risk for misuse, abuse, addiction, overdose, and serious complications resulting from medication errors by following the steps described here:

- Prescribing and dispensing FENTORA and ACTIQ only to appropriate patients (ie, only opioid-tolerant patients).
- Preventing inappropriate conversion between fentanyl products.
- Preventing accidental exposure to children and others for whom the medication was not prescribed.
- Educating prescribers, pharmacists, and patients on the potential for misuse, abuse, addiction, and overdose.

The REMS integrates available technology to help ensure appropriate patient selection and education, checks and balances within the distribution channel, and dispensing of the medication for the appropriate, intended use. The ACTIQ and FENTORA REMS:

 Ensures that appropriate patients have access to their medicines while preserving availability at retail pharmacies.



Prescriber **Patient Pharmacy** Complete education and Accept Medication Guide and Complete education and knowledge assessment education knowledge assessment Sign Patient-Prescriber Enroll Agreement to abide by Comply with Elements to Assure Comply with Elements to Elements to Assure Safe Use Assure Safe Use Safe Use Responsibilities Obtain prescription from an Educate patient using the Certify PMS to communicate enrolled prescriber Medication Guide with the REMS program Visit an enrolled pharmacy (as Process each prescription using Complete Patient-Prescriber directed by doctor) the certified PMS system Agreement via www.ACTIQandFENTORArems. Dispense with a Medication Guide Write prescription Direct patient to an enrolled pharmacy · Assured education regarding Documentation of patient Uses existing technologies education safe and appropriate use Maintains patient-pharmacist Maintains local prescriber-Maintains timely access to relationship pharmacy relationship medication through community Validation of prescription pharmacies Confidence in appropriate source medication dispensing No additional costs Figure 3. Summary of responsibilities and benefits with the approved ACTIQ and FENTORA REMS. PMS, pharmacy management system; REMS, Risk Evaluation and Mitigation Strategy

- Enrolls prescribers and pharmacies through education about appropriate patient selection and additional key safety information in order for patients to receive medications they need.
- Enhances the dialogue about patient safety at the point of prescribing through required patient education about safe and appropriate use.
- Uses existing and familiar technology within the normal pharmacy stakeholder workflow to minimize disruption.

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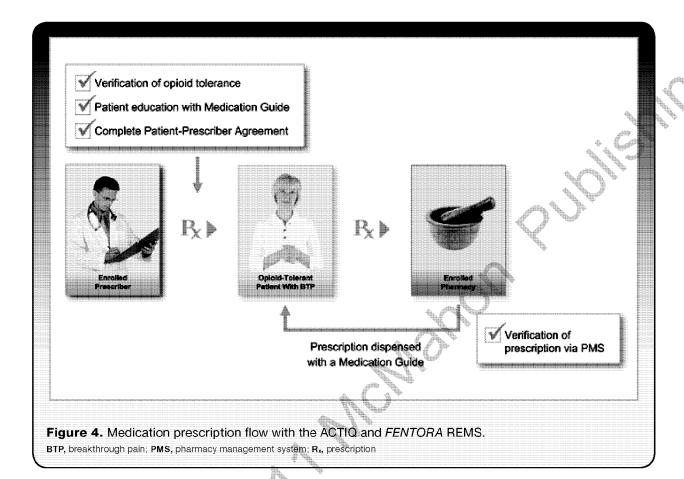
Elements of the approved ACTIQ and FENTORA REMS that will be most relevant to health care professionals are the "Medication Guide" and "Elements to Assure Safe Use" tools discussed earlier. The "Medication Guide" is an education tool for patients that contains specific product-related information such as administration guidelines, warnings and contraindications, AEs, and proper dosing written in easy-to-understand language for non-health care professionals. Health care professionals who prescribe these products will be responsible for reviewing the "Medication Guide" with, and providing a copy of it to, each patient at the time FENTORA or ACTIQ is prescribed, and pharmacists dispensing these products will be required to provide the guide to each patient with each prescription. The "Elements to Assure Safe Use" will require that FENTORA and

ACTIQ be accessed through a single, closed system that requires stakeholders to complete specific education, assessment, and enrollment requirements (Figure 3).

Health care professionals who want to prescribe FENTORA or ACTIQ for outpatient use must enroll in the ACTIQ and FENTORA REMS program. Although prescriber enrollment is not required for inpatient use, it is required when health care professionals wish to prescribe FENTORA or ACTIQ upon patients' discharge. Health care professionals may enroll online by accepting the program's requirements and completing an education program and knowledge assessment and an enrollment form. Additionally, health care professionals must complete and sign a patient-prescriber agreement form for each new patient before the first prescription is written. This form confirms that the patient is opioid-tolerant and has been receiving ATC treatment with an opioid medication for more than 1 week. It also acknowledges that the health care professional has provided and reviewed the "Medication Guide" with the patient and that the patient has been informed about the risks, benefits, and appropriate use of FENTORA or ACTIQ. The patient also must sign the patient-prescriber agreement form.

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Pharmacies must assign a designated pharmacist to complete a pharmacy-specific education program to train other pharmacy staff, a knowledge assessment, and an enrollment form. To ensure a controlled distribution model, the pharmacy will be eligible to purchase FENTORA and ACTIQ from enrolled distributors and dispense these medications to eligible patients only on completion of these steps. Furthermore, the existing pharmacy management system of enrolled pharmacies will be used to communicate with the REMS database. Through this communication channel, prescriber enrollment and completion of the patient-prescriber agreement form can be verified instantly. Prescription labels will be printed only once these conditions have been met. Enrollment in the ACTIQ and FENTORA REMS program may be completed online at www. ACTIQandFENTORArems.com. Enrollment must be renewed every 2 years or sooner in the event of major safety updates to the product labeling or major program changes.

The ACTIQ and FENTORA REMS program is a controlled, integrated system that is designed to ensure the safe and appropriate distribution, prescribing, and dispensing of these medications. Furthermore, the ACTIQ and FENTORA REMS program requires key stakeholders to work collaboratively

(Figure 4). Doing so will help to enhance the dialogue between health care professionals and patients, preserve the local prescriber-pharmacy relationship, and coordinate patient counseling to support the safe use of *FENTORA* and ACTIQ.

According to provisions of the ACTIQ and *FENTORA* REMS, beginning March 2012, all stakeholders will need to be enrolled in order for a prescription to be filled. Cephalon, Inc., is also participating in the development of a classwide REMS for all TIRF products. 42 Although the specific details of this classwide REMS are under negotiation with the FDA, the system is likely to be similar to that of the recently approved ACTIQ and *FENTORA* REMS. Once it is approved, Cephalon, Inc., will work to ensure a smooth transition to the shared system while maintaining access to appropriate treatments for BTP in opioid-tolerant patients with cancer.

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