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3 **Actiq**<sup>®</sup>  
4 (oral transmucosal fentanyl citrate)  
5 CII  
6

7 **PHYSICIANS AND OTHER HEALTHCARE PROVIDERS**  
8 **MUST BECOME FAMILIAR WITH THE IMPORTANT**  
9 **WARNINGS IN THIS LABEL.**

10  
11 *Actiq* is indicated only for the management of breakthrough  
12 cancer pain in patients with malignancies who are already  
13 receiving and who are tolerant to opioid therapy for their  
14 underlying persistent cancer pain. Patients considered opioid tolerant  
15 are those who are taking at least 60 mg morphine/day, 50 µg transdermal  
16 fentanyl/hour, or an equianalgesic dose of another opioid for a week or  
17 longer.

18  
19 Because life-threatening hypoventilation could occur at any dose in  
20 patients not taking chronic opiates, *Actiq* is contraindicated in the  
21 management of acute or postoperative pain. This product **must not** be  
22 used in opioid non-tolerant patients.

23  
24 *Actiq* is intended to be used only in the care of cancer patients and only  
25 by oncologists and pain specialists who are knowledgeable of and skilled  
26 in the use of Schedule II opioids to treat cancer pain.

27  
28 **Patients and their caregivers must be instructed that *Actiq* contains**  
29 **a medicine in an amount which can be fatal to a child. Patients and**  
30 **their caregivers must be instructed to keep all units out of the reach**  
31 **of children and to discard opened units properly. (See Information**  
32 **for Patients and Their Caregivers for disposal instructions.)**

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36 **WARNING: May be habit forming**

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39 **DESCRIPTION**

40 *Actiq* (oral transmucosal fentanyl citrate) is a solid formulation of  
41 fentanyl citrate, a potent opioid analgesic, intended for oral transmucosal  
42 administration. *Actiq* is formulated as a white to off-white solid drug  
43 matrix on a handle that is radiopaque and is fracture resistant (ABS  
44 plastic) under normal conditions when used as directed.

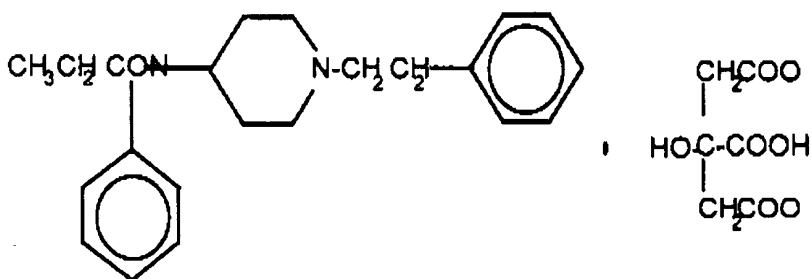
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46 *Actiq* is designed to be dissolved slowly in the mouth in a manner to  
47 facilitate transmucosal absorption. The handle allows the *Actiq* unit to  
48 be removed from the mouth if signs of excessive opioid effects appear  
49 during administration.

50

51 **Active Ingredient:** Fentanyl citrate, USP is N-(1-Phenethyl-4-piperidyl)  
52 propionanilide citrate (1:1). Fentanyl is a highly lipophilic compound  
53 (octanol-water partition coefficient at pH 7.4 is 816:1) that is freely  
54 soluble in organic solvents and sparingly soluble in water (1:40). The  
55 molecular weight of the free base is 336.5 (the citrate salt is 528.6). The  
56 pKa of the tertiary nitrogens are 7.3 and 8.4. The compound has the  
57 following structural formula.

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61 *Actiq* is available in six strengths equivalent to 200, 400, 600, 800, 1200,  
62 or 1600 µg fentanyl base that is identified by the text on the foil pouch,  
63 the shelf carton, and the dosage unit handle.

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65 **Inactive Ingredients:** Sucrose, liquid glucose, artificial raspberry flavor,  
66 and white dispersion G.B. dye.

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## 68 CLINICAL PHARMACOLOGY AND PHARMACOKINETICS

69

### 70 Pharmacology:

71 Fentanyl, a pure opioid agonist, acts primarily through interaction with  
72 opioid mu-receptors located in the brain, spinal cord and smooth muscle.

73 The primary site of therapeutic action is the central nervous system  
74 (CNS). The most clinically useful pharmacologic effects of the

75 interaction of fentanyl with mu-receptors are analgesia and sedation.

76

77 Other opioid effects may include somnolence, hypoventilation,  
78 bradycardia, postural hypotension, pruritus, dizziness, nausea,  
79 diaphoresis, flushing, euphoria and confusion or difficulty in  
80 concentrating at clinically relevant doses.

81

82 **Clinical Pharmacology**

83 **Analgesia:**

84 The analgesic effects of fentanyl are related to the blood level of the  
85 drug, if proper allowance is made for the delay into and out of the CNS  
86 (a process with a 3-to-5-minute half-life). In opioid non-tolerant  
87 individuals, fentanyl provides effects ranging from analgesia at blood  
88 levels of 1 to 2 ng/mL, all the way to surgical anesthesia and profound  
89 respiratory depression at levels of 10-20 ng/mL.

90  
91 In general, the minimum effective concentration and the concentration at  
92 which toxicity occurs rise with increasing tolerance to any and all  
93 opioids. The rate of development of tolerance varies widely among  
94 individuals. As a result, the dose of *Actiq* should be individually titrated  
95 to achieve the desired effect (see **DOSAGE AND**  
96 **ADMINISTRATION**).

97  
98 **Gastrointestinal (GI) Tract and Other Smooth Muscle:**

99 Opioids increase the tone and decrease contractions of the smooth  
100 muscle of the gastrointestinal (GI) tract. This results in prolongation in  
101 GI transit time and may be responsible for the constipating effect of  
102 opioids. Because opioids may increase biliary tract pressure, some  
103 patients with biliary colic may experience worsening of pain.

104  
105 While opioids generally increase the tone of urinary tract smooth  
106 muscle, the overall effect tends to vary, in some cases producing urinary  
107 urgency, in others, difficulty in urination.

108  
109 **Respiratory System:**

110 All opioid mu-receptor agonists, including fentanyl, produce dose  
111 dependent respiratory depression. The risk of respiratory depression is  
112 less in patients receiving chronic opioid therapy who develop tolerance  
113 to respiratory depression and other opioid effects. During the titration  
114 phase of the clinical trials somnolence, which may be a precursor to  
115 respiratory depression, did increase in patients who were treated with  
116 higher doses of *Actiq*. In studies of opioid non-tolerant subjects,  
117 respiratory rate and oxygen saturation typically decreases as fentanyl  
118 blood concentration increases. Typically, peak respiratory depressive  
119 effects (decrease in respiratory rate) are seen 15 to 30 minutes from the  
120 start of oral transmucosal fentanyl citrate (OTFC) administration and  
121 may persist for several hours.

122  
123 Serious or fatal respiratory depression can occur, even at recommended  
124 doses, in vulnerable individuals. As with other potent opioids, fentanyl

125 has been associated with cases of serious and fatal respiratory depression  
126 in opioid non-tolerant individuals.

127

128 Fentanyl depresses the cough reflex as a result of its CNS activity.  
129 Although not observed with *Actiq* in clinical trials, fentanyl given  
130 rapidly by intravenous injection in large doses may interfere with  
131 respiration by causing rigidity in the muscles of respiration. Therefore,  
132 physicians and other healthcare providers should be aware of this  
133 potential complication.

134

135 **(See BOX WARNING, CONTRAINDICATIONS, WARNINGS,**  
136 **PRECAUTIONS, ADVERSE REACTIONS, and OVERDOSAGE**  
137 **for additional information on hypoventilation).**

138

### 139 **Pharmacokinetics**

#### 140 **Absorption:**

141 The absorption pharmacokinetics of fentanyl from the oral transmucosal  
142 dosage form is a combination of an initial rapid absorption from the  
143 buccal mucosa and a more prolonged absorption of swallowed fentanyl  
144 from the GI tract. Both the blood fentanyl profile and the bioavailability  
145 of fentanyl will vary depending on the fraction of the dose that is  
146 absorbed through the oral mucosa and the fraction swallowed.

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148 Absolute bioavailability, as determined by area under the concentration-  
149 time curve, of 15µg/kg in 12 adult males was 50% compared to  
150 intravenous fentanyl.

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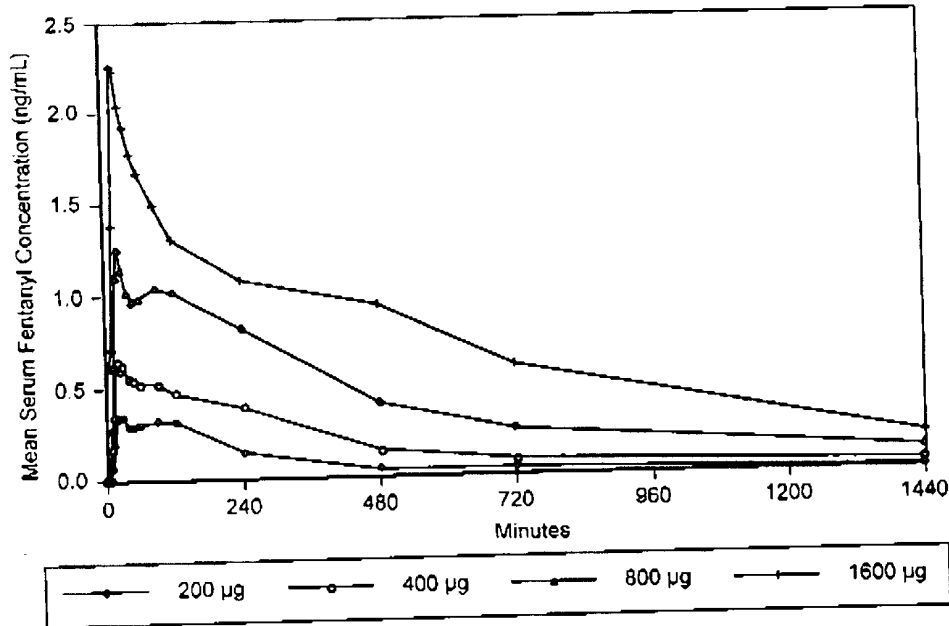
152 Normally, approximately 25% of the total dose of *Actiq* is rapidly  
153 absorbed from the buccal mucosa and becomes systemically available.  
154 The remaining 75% of the total dose is swallowed with the saliva and  
155 then is slowly absorbed from the GI tract. About 1/3 of this amount  
156 (25% of the total dose) escapes hepatic and intestinal first-pass  
157 elimination and becomes systemically available. Thus, the generally  
158 observed 50% bioavailability of *Actiq* is divided equally between rapid  
159 transmucosal and slower GI absorption. Therefore, a unit dose of *Actiq*,  
160 if chewed and swallowed, might result in lower peak concentrations and  
161 lower bioavailability than when consumed as directed.

162

163 Dose proportionality among four of the available strengths of *Actiq* (200, 400, 800, and 1600 µg)  
164 has been demonstrated in a balanced crossover design in adult subjects. Mean serum fentanyl  
165 levels following these four doses of *Actiq* are shown in Figure 1. The curves for each dose level  
166 are similar in shape with increasing dose levels producing increasing serum fentanyl levels.  $C_{max}$   
167 and  $AUC_{0 \rightarrow \infty}$  increased in a dose-dependent manner that is approximately proportional to the  
168 *Actiq* administered.

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**Figure 1.**  
**Mean Serum Fentanyl Concentration (ng/mL)**  
**in Adult Subjects Comparing 4 doses of Actiq**



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The pharmacokinetic parameters of the four strengths of *Actiq* tested in the dose-proportionality study are shown in Table 1. The mean  $C_{max}$  ranged from 0.39 - 2.51 ng/mL. The median time of maximum plasma concentration ( $T_{max}$ ) across these four doses of *Actiq* varied from 20 to 40 minutes (range of 20-480 minutes) after a standardized consumption time of 15 minutes.

**Table 1.**  
**Pharmacokinetic Parameters in Adult Subjects**  
**Receiving 200, 400, 800, and 1600 µg**  
**Units of Actiq**

Pharmacokinetic Parameter	200 µg	400 µg	800µg	1600 µg
$T_{max}$ , minute median (range)	40 (20-120)	25 (20-240)	25 (20-120)	20 (20-480))

<b>C<sub>max</sub>, ng/mL mean (%CV)</b>	<b>0.39 (23)</b>	<b>0.75 (33)</b>	<b>1.55 (30)</b>	<b>2.51 (23)</b>
<b>AUC<sub>0-1440</sub>, ng/mL minute mean (%CV)</b>	<b>102 (65)</b>	<b>243 (67)</b>	<b>573 (64)</b>	<b>1026 (67)</b>
<b>t<sub>1/2</sub>, minute mean (%CV)</b>	<b>193 (48)</b>	<b>386 (115)</b>	<b>381 (55)</b>	<b>358 (45)</b>

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**Distribution:**

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Fentanyl is highly lipophilic. Animal data showed that following absorption, fentanyl is rapidly distributed to the brain, heart, lungs, kidneys and spleen followed by a slower redistribution to muscles and fat. The plasma protein binding of fentanyl is 80-85%. The main binding protein is alpha-1-acid glycoprotein, but both albumin and lipoproteins contribute to some extent. The free fraction of fentanyl increases with acidosis. The mean volume of distribution at steady state (V<sub>ss</sub>) was 4 L/kg.

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**Metabolism:**

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Fentanyl is metabolized in the liver and in the intestinal mucosa to norfentanyl by cytochrome P450 3A4 isoform. Norfentanyl was not found to be pharmacologically active in animal studies (see **PRECAUTIONS: Drug Interactions** for additional information).

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**Elimination:**

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Fentanyl is primarily (more than 90%) eliminated by biotransformation to N-dealkylated and hydroxylated inactive metabolites. Less than 7% of the dose is excreted unchanged in the urine, and only about 1% is excreted unchanged in the feces. The metabolites are mainly excreted in the urine, while fecal excretion is less important. The total plasma clearance of fentanyl was 0.5 L/hr/kg (range 0.3 - 0.7 L/hr/kg). The terminal elimination half-life after OTFC administration is about 7 hours.

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**Special Populations:**

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Elderly Patients:

Elderly patients have been shown to be twice as sensitive to the effects of fentanyl when administered intravenously, compared with the younger population. While a formal study evaluating the safety profile of *Actiq* in the elderly population has not been performed, in the 257

222 opioid tolerant cancer patients studied with *Actiq*, approximately 20%  
223 were over age 65 years. No difference was noted in the safety profile in  
224 this group compared to those aged less than 65 years, though they did  
225 titrate to lower doses than younger patients (see **PRECAUTIONS**).  
226

227 Patients with Renal or Hepatic Impairment:

228 *Actiq* should be administered with caution to patients with liver or  
229 kidney dysfunction because of the importance of these organs in the  
230 metabolism and excretion of drugs and effects on plasma-binding  
231 proteins (see **PRECAUTIONS**).  
232

233 Although fentanyl kinetics are known to be altered in both hepatic and  
234 renal disease due to alterations in metabolic clearance and plasma  
235 proteins, individualized doses of *Actiq* have been used successfully for  
236 breakthrough cancer pain in patients with hepatic and renal disorders.  
237 The duration of effect for the initial dose of fentanyl is determined by  
238 redistribution of the drug, such that diminished metabolic clearance may  
239 only become significant with repeated dosing or with excessively large  
240 single doses. For these reasons, while doses titrated to clinical effect are  
241 recommended for all patients, special care should be taken in patients  
242 with severe hepatic or renal disease.  
243

244 Gender

245 Both male and female opioid-tolerant cancer patients were studied for  
246 the treatment of breakthrough cancer pain. No clinically relevant gender  
247 differences were noted either in dosage requirement or in observed  
248 adverse events.  
249

250  
251 **CLINICAL TRIALS**

252 **Breakthrough Cancer Pain:**

253 *Actiq* was investigated in clinical trials involving 257 opioid tolerant  
254 adult cancer patients experiencing breakthrough cancer pain.  
255 Breakthrough cancer pain was defined as a transient flare of moderate-  
256 to-severe pain occurring in cancer patients experiencing persistent cancer  
257 pain otherwise controlled with maintenance doses of opioid medications  
258 including at least 60 mg morphine/day, 50 µg transdermal fentanyl/hour,  
259 or an equianalgesic dose of another opioid for a week or longer.  
260

261  
262 In two dose titration studies 95 of 127 patients (75%) who were on  
263 stable doses of either long-acting oral opioids or transdermal fentanyl for  
264 their persistent cancer pain titrated to a successful dose of *Actiq* to treat  
265 their breakthrough cancer pain within the dose range offered (200, 400,

266 600, 800, 1200 and 1600 µg). In these studies 11% of patients withdrew  
267 due to adverse events and 14% withdrew due to other reasons. A  
268 “successful” dose was defined as a dose where one unit of *Actiq* could  
269 be used consistently for at least two consecutive days to treat  
270 breakthrough cancer pain without unacceptable side effects.

271  
272 The successful dose of *Actiq* for breakthrough cancer pain was not  
273 predicted from the daily maintenance dose of opioid used to manage the  
274 persistent cancer pain and is thus best determined by dose titration.

275  
276 A double blind placebo controlled crossover study was performed in  
277 cancer patients to evaluate the effectiveness of *Actiq* for the treatment of  
278 breakthrough cancer pain. Of 130 patients who entered the study 92  
279 patients (71%) achieved a successful dose during the titration phase.  
280 The distribution of successful doses is shown in Table 2.

281  
282 **Table 2.**  
283 **Successful Dose of *Actiq***  
284 **Following Initial Titration**

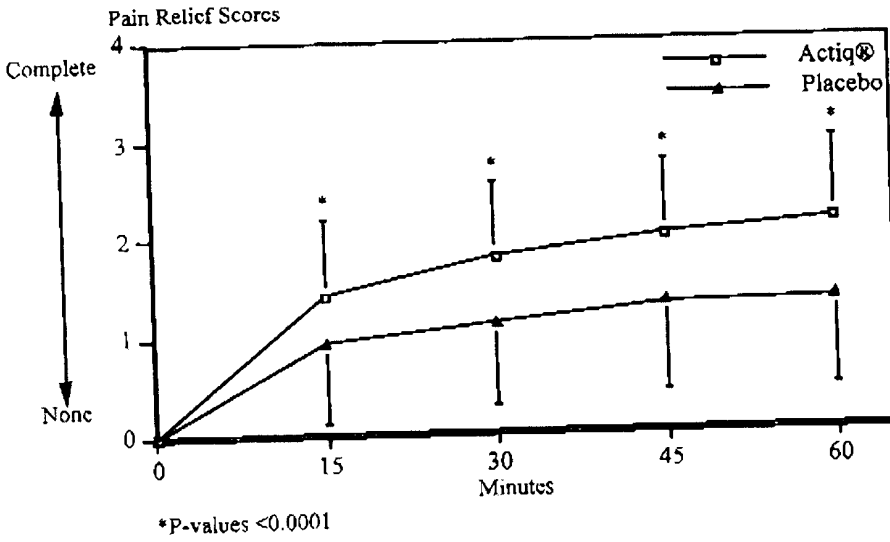
<u><i>Actiq</i> Dose</u>	<u>Total No (%)</u> (N=92)
200 µg	13 (14)
400 µg	19 (21)
600 µg	14 (15)
800 µg	18 (20)
1200 µg	13 (14)
1600 µg	15 (16)
Mean ±SD	789±468 µg

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297 On average, patients over 65 years of age titrated to a mean dose that  
298 was about 200 µg less than the mean dose to which younger adult  
299 patients were titrated.

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301  
302 *Actiq* produced statistically significantly more pain relief compared with  
303 placebo at 15, 30, 45 and 60 minutes following administration (see  
304 Figure 2).

305

**Figure 2.**  
**Pain Relief (PR) Scores (Mean±SD) During the**  
**Double-Blind Phase - All Patients With Evaluable**  
**Episodes on Both Actiq® and Placebo (N=86)**



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309  
310 In this same study patients also rated the performance of medication to  
311 treat their breakthrough cancer pain using a different scale ranging from  
312 "poor" to "excellent." On average, placebo was rated "fair" and Actiq  
313 was rated "good."  
314

### 315 **INDICATIONS AND USAGE**

316 (See **BOX WARNING** and **CONTRAINDICATIONS**)

317 *Actiq* is indicated only for the management of breakthrough cancer pain  
318 in patients with malignancies who are **already receiving and who are**  
319 **tolerant to opioid therapy for their underlying persistent cancer**  
320 **pain**. Patients considered opioid tolerant are those who are taking at  
321 least 60 mg morphine/day, 50 µg transdermal fentanyl/hour, or an  
322 equianalgesic dose of another opioid for a week or longer.  
323

324 Because life-threatening hypoventilation could occur at any dose in  
325 patients not taking chronic opiates, *Actiq* is contraindicated in the  
326 management of acute or postoperative pain. This product **must not** be  
327 used in opioid non-tolerant patients.  
328

329 *Actiq* is intended to be used only in the care of cancer patients only by  
330 oncologists and pain specialists who are knowledgeable of and skilled in  
331 the use of Schedule II opioids to treat cancer pain.  
332

333 *Actiq* should be individually titrated to a dose that provides adequate  
334 analgesia and minimizes side effects. If signs of excessive opioid effects  
335 appear before the unit is consumed, the dosage unit should be removed  
336 from the patient's mouth immediately, disposed of properly, and  
337 subsequent doses should be decreased (see **DOSAGE AND**  
338 **ADMINISTRATION**).  
339

340 Patients and their caregivers must be instructed that *Actiq* contains a  
341 medicine in an amount that can be fatal to a child. Patients and their  
342 caregivers must be instructed to keep all units out of the reach of  
343 children and to discard opened units properly in a secured container.  
344

### 345 **CONTRAINDICATIONS**

346 Because life-threatening hypoventilation could occur at any dose in  
347 patients not taking chronic opiates, *Actiq* is contraindicated in the  
348 management of acute or postoperative pain. The risk of respiratory  
349 depression begins to increase with fentanyl plasma levels of 2.0 ng/mL  
350 in opioid non-tolerant individuals (See **Pharmacokinetics**). This  
351 product **must not** be used in opioid non-tolerant patients.  
352

353  
354 Patients considered opioid tolerant are those who are taking at least 60  
355 mg morphine/day, 50 µg transdermal fentanyl/hour, or an equianalgesic  
356 dose of another opioid for a week or longer.

357  
358 *Actiq* is contraindicated in patients with known intolerance or  
359 hypersensitivity to any of its components or the drug fentanyl.

360  
361 **WARNINGS**  
362 **See BOX WARNING**

363  
364 The concomitant use of other CNS depressants, including other opioids,  
365 sedatives or hypnotics, general anesthetics, phenothiazines, tranquilizers,  
366 skeletal muscle relaxants, sedating antihistamines, potent inhibitors of  
367 cytochrome P450 3A4 isoform (e.g., erythromycin, ketoconazole, and  
368 certain protease inhibitors), and alcoholic beverages may produce  
369 increased depressant effects. Hypoventilation, hypotension, and  
370 profound sedation may occur.

371  
372 *Actiq* is not recommended for use in patients who have received MAO  
373 inhibitors within 14 days, because severe and unpredictable potentiation  
374 by MAO inhibitors has been reported with opioid analgesics.

375  
376 **Pediatric Use:** The appropriate dosing and safety of *Actiq* in opioid  
377 tolerant children with breakthrough cancer pain have not been  
378 established below the age of 16 years.

379  
380 **Patients and their caregivers must be instructed that *Actiq* contains**  
381 **a medicine in an amount, which can be fatal to a child.** Patients and  
382 their caregivers must be instructed to keep both used and unused dosage  
383 units out of the reach of children. While all units should be disposed of  
384 immediately after use, partially consumed units represent a special risk  
385 to children. In the event that a unit is not completely consumed it must  
386 be properly disposed as soon as possible. (See **SAFETY AND**  
387 **HANDLING; PRECAUTIONS, and PATIENT LEAFLET** for  
388 specific patient instructions).

389  
390 Physicians and dispensing pharmacists must specifically question  
391 patients or caregivers about the presence of children in the home on a  
392 full time or visiting basis and counsel them regarding the dangers to  
393 children from inadvertent exposure.

394  
395 **PRECAUTIONS**  
396 **General**

397 The initial dose of *Actiq* to treat episodes of breakthrough cancer pain  
398 should be 200 µg. Each patient should be individually titrated to  
399 provide adequate analgesia while minimizing side effects.  
400

401 Opioid analgesics impair the mental and/or physical ability required for  
402 the performance of potentially dangerous tasks (e.g., driving a car or  
403 operating machinery). Patients taking *Actiq* should be warned of these  
404 dangers and should be counseled accordingly.  
405

406 The use of concomitant CNS active drugs requires special patient care  
407 and observation. (See WARNINGS.)  
408

#### 409 **Hypoventilation (Respiratory Depression)**

410 As with all opioids, there is a risk of clinically significant  
411 hypoventilation in patients using *Actiq*. Accordingly, all patients should  
412 be followed for symptoms of respiratory depression. Hypoventilation  
413 may occur more readily when opioids are given in conjunction with  
414 other agents that depress respiration.  
415

#### 416 **Chronic Pulmonary Disease**

417 Because potent opioids can cause hypoventilation, *Actiq* should be  
418 titrated with caution in patients with chronic obstructive pulmonary  
419 disease or pre-existing medical conditions predisposing them to  
420 hypoventilation. In such patients, even normal therapeutic doses of  
421 *Actiq* may further decrease respiratory drive to the point of respiratory  
422 failure.  
423

#### 424 **Head Injuries and Increased Intracranial Pressure**

425 *Actiq* should only be administered with extreme caution in patients who  
426 may be particularly susceptible to the intracranial effects of CO<sub>2</sub>  
427 retention such as those with evidence of increased intracranial pressure  
428 or impaired consciousness. Opioids may obscure the clinical course of a  
429 patient with a head injury and should be used only if clinically  
430 warranted.  
431

#### 432 **Cardiac Disease**

433 Intravenous fentanyl may produce bradycardia. Therefore, *Actiq* should  
434 be used with caution in patients with bradyarrhythmias.  
435

#### 436 **Hepatic or Renal Disease**

437 *Actiq* should be administered with caution to patients with liver or  
438 kidney dysfunction because of the importance of these organs in the  
439 metabolism and excretion of drugs and effects on plasma binding  
440 proteins (see PHARMACOKINETICS).

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**Information for Patients and Their Caregivers**

Patients and their caregivers must be instructed that *Actiq* contains medicine in an amount that could be fatal to a child. Patients and their caregivers must be instructed to keep both used and unused dosage units out of the reach of children. Partially consumed units represent a special risk to children. In the event that a unit is not completely consumed it must be properly disposed as soon as possible. (See **SAFETY AND HANDLING; WARNINGS**, and **PATIENT LEAFLET** for specific patient instructions.)

Patients and their caregivers should be provided with an *Actiq* Welcome Kit, which contains educational materials and safe storage containers to help patients store *Actiq* and other medicines out of the reach of children. Patients and their caregivers should also have an opportunity to watch the patient safety video, which provides proper product use, storage, handling and disposal directions. Patients should also have an opportunity to discuss the video with their health care providers. Health care professionals should call 1-800-xxx-xxxx to obtain a supply of welcome kits or videos for patient viewing.

**Disposal of used *Actiq* units**

Patients must be instructed to dispose of completely used and partially used *Actiq* units.

- 1) After consumption of the unit is complete and the matrix is totally dissolved, throw away the handle in a trash container that is out of the reach of children.
- 2) If any of the drug matrix remains on the handle, place the handle under hot running tap water until all of the drug matrix is dissolved, and then dispose of the handle in a place that is out of the reach of children.
- 3) Handles in the child-resistant container should be disposed of (as described in steps 1 and 2) at least once a day.

**If the patient does not entirely consume the unit and the remaining drug cannot be immediately dissolved under hot running water, the patient or caregiver must temporarily store the *Actiq* unit in the specially provided child-resistant container out of the reach of children until proper disposal is possible.**

**Disposal of Unopened *Actiq* Units When No Longer Needed**

485  
486 Patients and members of their household must be advised to dispose of  
487 any unopened units remaining from a prescription as soon as they are no  
488 longer needed.

489 To dispose of the unused *Actiq* units:

491 1) Remove the *Actiq* unit from its pouch using scissors, and hold the  
492 *Actiq* by its handle over the toilet bowl.

494 2) Using wire-cutting pliers cut off the drug matrix end so that it falls  
495 into the toilet.

497 3) Dispose of the handle in a place that is out of the reach of children.

499 4) Repeat steps 1, 2, and 3 for each *Actiq* unit. Flush the toilet twice  
500 after 5 units have been cut and deposited into the toilet.

502 Do not flush the entire *Actiq* units, *Actiq* handles, foil pouches, or  
503 cartons down the toilet. The handle should be disposed of where  
504 children cannot reach it (see **SAFETY AND HANDLING**).

506 Detailed instructions for the proper storage, administration, disposal, and  
507 important instructions for managing an overdose of *Actiq* are provided in  
508 the *Actiq* Patient Leaflet. Patients should be encouraged to read this  
509 information in its entirety and be given an opportunity to have their  
510 questions answered.

512 In the event that a caregiver requires additional assistance in disposing of  
513 excess unusable units that remain in the home after a patient has expired,  
514 they should be instructed to call the toll-free number (1-800-  
515 XXXXXXX) or seek assistance from their local DEA office.

#### 517 **Laboratory Tests**

518 The effects of *Actiq* on laboratory tests have not been evaluated.

#### 521 **Drug Interactions**

522 See **WARNINGS**.

523 Fentanyl is metabolized in the liver and intestinal mucosa to norfentanyl  
524 by the cytochrome P450 3A4 isoform. Drugs that inhibit P450 3A4  
525 activity may increase the bioavailability of swallowed fentanyl (by  
526 decreasing intestinal and hepatic first pass metabolism) and may  
527 decrease the systemic clearance of fentanyl. The expected clinical  
528

529 results would be increased or prolonged opioid effects. Drugs that  
530 induce cytochrome P450 3A4 activity may have the opposite effects.  
531 However, no *in vitro* or *in vivo* studies have been performed to assess the  
532 impact of those potential interactions on the administration of *Actiq*.  
533 Thus patients who begin or end therapy with potent inhibitors of  
534 CYP450 3A4 such as macrolide antibiotics (e.g., erythromycin), azole  
535 antifungal agents (e.g., ketoconazole and itraconazole), and protease  
536 inhibitors (e.g., ritanovir) while receiving *Actiq* should be monitored for  
537 a change in opioid effects and, if warranted, the dose of *Actiq* should be  
538 adjusted.

#### 539 **Carcinogenesis, Mutagenesis, and Impairment of Fertility**

540 Because animal carcinogenicity studies have not been conducted with  
541 fentanyl citrate, the potential carcinogenic effect of *Actiq* is unknown.  
542

543 Standard mutagenicity testing of fentanyl citrate has been conducted.  
544 There was no evidence of mutagenicity in the Ames *Salmonella* or  
545 *Escherichia* mutagenicity assay, the *in-vitro* mouse lymphoma  
546 mutagenesis assay, and the *in-vivo* micronucleus cytogenetic assay in the  
547 mouse.  
548

549  
550 Reproduction studies in rats revealed a significant decrease in the  
551 pregnancy rate of all experimental groups. This decrease was most  
552 pronounced in the high dose group (1.25 mg/kg subcutaneously) in  
553 which one of twenty animals became pregnant.  
554

#### 555 **Pregnancy - Category C**

556 Fentanyl has been shown to impair fertility and to have an embryocidal  
557 effect with an increase in resorptions in rats when given for a period of  
558 12 to 21 days in doses of 30 µg/kg IV or 160 µg/kg subcutaneously.  
559

560 No evidence of teratogenic effects has been observed after  
561 administration of fentanyl citrate to rats. There are no adequate and  
562 well-controlled studies in pregnant women. *Actiq* should be used during  
563 pregnancy only if the potential benefit justifies the potential risk to the  
564 fetus.  
565

#### 566 **Labor and Delivery**

567 *Actiq* is not indicated for use in labor and delivery.  
568

#### 569 **Nursing Mothers**

570 Fentanyl is excreted in human milk; therefore *Actiq* should not be used  
571 in nursing women because of the possibility of sedation and/or  
572 respiratory depression in their infants.

573

574 **Pediatric Use**

575 **See WARNINGS**

576

577 **Geriatric Use**

578 Of the 257 patients in clinical studies of Actiq in breakthrough cancer  
579 pain, 61 (24%) were 65 and over, while 15 (6%) were 75 and over.

580

581 Those patients over the age of 65 titrated to a mean dose that was about  
582 200 µg less than the mean dose titrated to by younger patients. Previous  
583 studies with intravenous fentanyl showed that elderly patients are twice  
584 as sensitive to the effects of fentanyl as the younger population.

585

586 No difference was noted in the safety profile of the group over 65 as  
587 compared to younger patients in Actiq clinical trials. However, greater  
588 sensitivity in older individuals cannot be ruled out. Therefore, caution  
589 should be exercised in individually titrating *Actiq* in elderly patients to  
590 provide adequate efficacy while minimizing risk.

591

592

593 **ADVERSE REACTIONS**

594 Pre-Marketing Clinical Trial Experience

595 The safety of *Actiq* has been evaluated in 257 opioid tolerant chronic  
596 cancer pain patients. The duration of *Actiq* use varied during the open-  
597 label study. Some patients were followed for over 21 months. The  
598 average duration of therapy in the open-label study was 129 days.

599

600 The adverse events seen with *Actiq* are typical opioid side effects.  
601 Frequently, these adverse events will cease or decrease in intensity with  
602 continued use of *Actiq*, as the patient is titrated to the proper dose.  
603 Opioid side effects should be expected and managed accordingly.

604

605 The most serious adverse effects associated with all opioids are  
606 respiratory depression (potentially leading to apnea or respiratory arrest),  
607 circulatory depression, hypotension, and shock. All patients should be  
608 followed for symptoms of respiratory depression.

609

610 Because the clinical trials of *Actiq* were designed to evaluate safety and  
611 efficacy in treating breakthrough cancer pain, all patients were also  
612 taking concomitant opioids, such as sustained-release morphine or  
613 transdermal fentanyl, for their persistent cancer pain. The adverse event  
614 data presented here reflect the actual percentage of patients experiencing  
615 each adverse effect among patients who received *Actiq* for breakthrough  
616 cancer pain along with a concomitant opioid for persistent cancer pain.

617 There has been no attempt to correct for concomitant use of other  
 618 opioids, duration of *Actiq* therapy, or cancer-related symptoms. Adverse  
 619 events are included regardless of causality or severity.

620  
 621 Three short-term clinical trials with similar titration schemes were  
 622 conducted in 257 patients with malignancy and breakthrough cancer  
 623 pain. Data are available for 254 of these patients. The goal of titration  
 624 in these trials was to find the dose of *Actiq* that provided adequate  
 625 analgesia with acceptable side effects (successful dose). Patients were  
 626 titrated from a low dose to a successful dose in a manner similar to  
 627 current titration dosing guidelines. Table 3 lists by dose groups, adverse  
 628 events with an overall frequency of 1% or greater that occurred during  
 629 titration and are commonly associated with opioid administration or are  
 630 of particular clinical interest. The ability to assign a dose-response  
 631 relationship to these adverse events is limited by the titration schemes  
 632 used in these studies. Adverse events are listed in descending order of  
 633 frequency within each body system.

634  
 635 **Table 3.**  
 636 **Percent of Patients with Specific Adverse Events Commonly**  
 637 **Associated with Opioid Administration or of Particular Clinical**  
 638 **Interest Which Occurred During Titration**  
 639 **(Events in 1% or more of Patients)**  
 640

Dose Group	200- 600 µg	800- 1400 µg	1600 µg	>1600 µg	Any
Number Of Patients	230	138	54	41	254
Body As A Whole					
Asthenia	6	4	0	7	9
Headache	3	4	6	5	6
Accidental Injury	1	1	4	0	2
Digestive					
Nausea	14	15	11	22	23
Vomiting	7	6	6	15	12
Constipation	1	4	2	0	4
Nervous					
Dizziness	10	16	6	15	17
Somnolence	9	9	11	20	17
Confusion	1	6	2	0	4

Anxiety	3	0	2	0	3
Abnormal Gait	0	1	4	0	2
Dry Mouth	1	1	2	0	2
Nervousness	1	1	0	0	2
Vasodilatation	2	0	2	2	1
Hallucinations	0	1	2	0	1
Insomnia	0	1	2	0	1
Thinking Abnormal	0	1	2	0	1
Vertigo	1	0	0	0	1
Respiratory					
Dyspnea	2	3	6	5	4
Skin					
Pruritus	1	0	0	5	2
Rash	1	1	0	2	2
Sweating	1	1	2	2	2
Special Senses					
Abnormal Vision	1	0	2	0	2

641  
 642 The following adverse events not reflected in Table 3 occurred during titration with an overall  
 643 frequency of 1% or greater and are listed in descending order of frequency within each body  
 644 system.

645 Body as a Whole:

646 Pain, fever, abdominal pain, chills, back pain, chest pain, infection

647 Cardiovascular:

648 Migraine

649 Digestive:

650 Diarrhea, dyspepsia, flatulence

651 Metabolic and Nutritional:

652 Peripheral edema, dehydration

653 Nervous:

654 Hypesthesia

655 Respiratory:

656 Pharyngitis, cough increased

657  
 658  
 659 The following events occurred during titration with an overall frequency of less than 1% and are  
 660 listed in descending order of frequency within each body system.

661 Body as a Whole:

662 Flu syndrome, abscess, bone pain

663 Cardiovascular:

664 Deep thrombophlebitis, hypertension, hypotension

665 Digestive:



703 The following events not reflected in Table 4 occurred with an overall frequency of 1% or greater  
704 in the long-term extension study and are listed in descending order of frequency within each  
705 body system.

706

707 Body as a Whole:

708 Pain, fever, back pain, abdominal pain, chest pain, flu syndrome, chills, infection,  
709 abdomen enlarged, bone pain, ascites, sepsis, neck pain, viral infection, fungal infection,  
710 cachexia, cellulitis, malaise, pelvic pain

711 Cardiovascular:

712 Deep thrombophlebitis, migraine, palpitation, vascular disorder

713 Digestive:

714 Diarrhea, anorexia, dyspepsia, dysphagia, oral moniliasis, mouth ulceration, rectal  
715 disorder, stomatitis, flatulence, gastrointestinal hemorrhage, gingivitis, jaundice,  
716 periodontal abscess, eructation, glossitis, rectal hemorrhage

717 Hemic and Lymphatic:

718 Anemia, leukopenia, thrombocytopenia, ecchymosis, lymphadenopathy, lymphedema,  
719 pancytopenia

720 Metabolic and Nutritional:

721 Peripheral edema, edema, dehydration, weight loss, hyperglycemia, hypokalemia,  
722 hypercalcemia, hypomagnesemia

723 Musculoskeletal:

724 Myalgia, pathological fracture, joint disorder, leg cramps, arthralgia, bone disorder

725 Nervous:

726 Hypesthesia, paresthesia, hypokinesia, neuropathy, speech disorder

727 Respiratory:

728 Cough increased, pharyngitis, pneumonia, rhinitis, sinusitis, bronchitis, epistaxis, asthma,  
729 hemoptysis, sputum increased

730 Skin and Appendages:

731 Skin ulcer, alopecia

732 Special Senses:

733 Tinnitus, conjunctivitis, ear disorder, taste perversion

734 Urogenital:

735 Urinary tract infection, urinary incontinence, breast pain, dysuria, hematuria, scrotal  
736 edema, hydronephrosis, kidney failure, urinary urgency, urination impaired, breast  
737 neoplasm, vaginal hemorrhage, vaginitis

738

739 The following events occurred with a frequency of less than 1% in the long-term extension study  
740 and are listed in descending order of frequency within each body system.

741

742 Body as a Whole:

743 Allergic reaction, cyst, face edema, flank pain, granuloma, bacterial infection, injection  
744 site pain, mucous membrane disorder, neck rigidity

745 Cardiovascular:

- 746 Angina pectoris, hemorrhage, hypotension, peripheral vascular disorder, postural  
747 hypotension, tachycardia  
748 Digestive:  
749 Cheilitis, esophagitis, fecal incontinence, gastroenteritis, gastrointestinal disorder, gum  
750 hemorrhage, hemorrhage of colon, hepatorenal syndrome, liver tenderness, tooth caries,  
751 tooth disorder  
752 Hemic and Lymphatic:  
753 Bleeding time increased  
754 Metabolic and Nutritional:  
755 Acidosis, generalized edema, hypocalcemia, hypoglycemia, hyponatremia,  
756 hypoproteinemia, thirst  
757 Musculoskeletal:  
758 Arthritis, muscle atrophy, myopathy, synovitis, tendon disorder  
759 Nervous:  
760 Acute brain syndrome, agitation, cerebral ischemia, facial paralysis, foot drop,  
761 hallucinations, hemiplegia, miosis, subdural hematoma  
762 Respiratory:  
763 Hiccup, hyperventilation, lung disorder, pneumothorax, respiratory failure, voice  
764 alteration  
765 Skin and Appendages:  
766 Herpes zoster, maculopapular rash, skin discoloration, urticaria, vesiculobullous rash  
767 Special Senses:  
768 Ear pain, eye hemorrhage, lacrimation disorder, partial permanent deafness, partial  
769 transitory deafness  
770 Urogenital:  
771 Kidney pain, nocturia, oliguria, polyuria, pyelonephritis  
772

## 773 DRUG ABUSE AND DEPENDENCE

774 Fentanyl is a mu-opioid agonist and a Schedule II controlled substance  
775 that can produce drug dependence of the morphine type. *Actiq* may be  
776 subject to misuse, abuse and addiction.

777  
778 The administration of *Actiq* should be guided by the response of the  
779 patient. Physical dependence, per se, is not ordinarily a concern when  
780 one is treating a patient with chronic cancer pain, and fear of tolerance  
781 and physical dependence should not deter using doses that adequately  
782 relieve the pain.

783  
784 Opioid analgesics may cause physical dependence. Physical dependence  
785 results in withdrawal symptoms in patients who abruptly discontinue the  
786 drug. Withdrawal also may be precipitated through the administration of  
787 drugs with opioid antagonist activity, e.g., naloxone, nalmefene, or  
788 mixed agonist/antagonist analgesics (pentazocine, butorphanol,  
789 buprenorphine, nalbuphine).

790  
791 Physical dependence usually does not occur to a clinically significant  
792 degree until after several weeks of continued opioid usage. Tolerance, in  
793 which increasingly larger doses are required in order to produce the  
794 same degree of analgesia, is initially manifested by a shortened duration  
795 of analgesic effect, and subsequently, by decreases in the intensity of  
796 analgesia.

797  
798 The handling of *Actiq* should be managed to minimize the risk of  
799 diversion, including restriction of access and accounting procedures as  
800 appropriate to the clinical setting and as required by law (see **SAFETY**  
801 **AND HANDLING**).

## 802 803 **OVERDOSAGE**

### 804 805 **Clinical Presentation**

806 The manifestations of *Actiq* overdose are expected to be similar in  
807 nature to intravenous fentanyl and other opioids, and are an extension of  
808 its pharmacological actions with the most serious significant effect being  
809 hypoventilation (see **CLINICAL PHARMACOLOGY**).

### 810 811 **General**

812 Immediate management of opioid overdose includes removal of the  
813 *Actiq* unit, if still in the mouth, ensuring a patent airway, physical and  
814 verbal stimulation of the patient, and assessment of level of  
815 consciousness, ventilatory and circulatory status.

### 816 817 **Treatment of Overdosage (Accidental Ingestion) in the Opioid** 818 **NON-Tolerant Person**

819 Ventilatory support should be provided, intravenous access obtained,  
820 and naloxone or other opioid antagonists should be employed as  
821 clinically indicated. The duration of respiratory depression following  
822 overdose may be longer than the effects of the opioid antagonist's action  
823 (e.g., the half-life of naloxone ranges from 30 to 81 minutes) and  
824 repeated administration may be necessary. Consult the package insert of  
825 the individual opioid antagonist for details about such use.

### 826 827 **Treatment of Overdose in Opioid-Tolerant Patients**

828 Ventilatory support should be provided, intravenous access obtained as  
829 clinically indicated. Judicious use of naloxone or another opioid  
830 antagonist may be warranted in some instances, but it is associated with  
831 the risk of precipitating an acute withdrawal syndrome.

### 832 833 **General Considerations for Overdose**

834 Management of severe *Actiq* overdose includes: securing a patent  
835 airway, assisting or controlling ventilation, establishing intravenous  
836 access, and GI decontamination by lavage and/or activated charcoal,  
837 once the patient's airway is secure. In the presence of hypoventilation or  
838 apnea, ventilation should be assisted or controlled and oxygen  
839 administered as indicated.

840  
841 Patients with overdose should be carefully observed and appropriately  
842 managed until their clinical condition is well controlled.

843  
844 Although muscle rigidity interfering with respiration has not been seen  
845 following the use of *Actiq*, this is possible with fentanyl and other  
846 opioids. If it occurs, it should be managed by the use of assisted or  
847 controlled ventilation, by an opioid antagonist, and as a final alternative,  
848 by a neuromuscular blocking agent.

849  
850 **DOSAGE AND ADMINISTRATION**  
851 ***Actiq* is contraindicated in non-opioid tolerant individuals.**

852  
853 *Actiq* should be individually titrated to a dose that provides adequate  
854 analgesia and minimizes side effects (see **Dose Titration**).

855  
856 As with all opioids, the safety of patients using such products is  
857 dependent on health care professionals prescribing them in strict  
858 conformity with their approved labeling with respect to patient selection,  
859 dosing, and proper conditions for use.

860  
861 Physicians and dispensing pharmacists must specifically question  
862 patients and caregivers about the presence of children in the home on a  
863 full time or visiting basis and counsel accordingly regarding the dangers  
864 to children of inadvertent exposure to *Actiq*.

865  
866 **Administration of *Actiq***  
867 The foil package should be opened with scissors immediately prior to  
868 product use. The patient should place the *Actiq* unit in his or her mouth  
869 between the cheek and lower gum, occasionally moving the drug matrix  
870 from one side to the other using the handle. The *Actiq* unit should be  
871 sucked, not chewed. A unit dose of *Actiq*, if chewed and swallowed,  
872 might result in lower peak concentrations and lower bioavailability than  
873 when consumed as directed.

874  
875 The *Actiq* unit should be consumed over a 15-minute period. Longer or  
876 shorter consumption times may produce less efficacy than reported in  
877 *Actiq* clinical trials. If signs of excessive opioid effects appear before

878 the unit is consumed, the drug matrix should be removed from the  
879 patient's mouth immediately and future doses should be decreased.

880

881 **Patients and caregivers must be instructed that *Actiq* contains**  
882 **medicine in an amount that could be fatal to a child.** While all units  
883 should be disposed of immediately after use, partially used units  
884 represent a special risk and must be disposed of as soon as they are  
885 consumed and/or no longer needed. Patients and caregivers should be  
886 advised to dispose of any units remaining from a prescription as soon as  
887 they are no longer needed (see **Disposal Instructions**).

888

#### 889 **Dose Titration**

890 Starting Dose: The *initial dose of Actiq to treat episodes of breakthrough*  
891 *cancer pain should be 200 µg.* Patients should be prescribed an initial  
892 titration supply of six 200-µg *Actiq* units, thus limiting the number of  
893 units in the home during titration. Patients should use up all units before  
894 increasing to a higher dose.

895

896 From this initial dose, patients should be closely followed and the  
897 dosage level changed until the patient reaches a dose that provides  
898 adequate analgesia using a single *Actiq* dosage unit per breakthrough  
899 cancer pain episode.

900

901 Patients should record their use of *Actiq* over several episodes of  
902 breakthrough cancer pain and review their experience with their  
903 physicians to determine if a dosage adjustment is warranted.

904

905 Redosing within a single episode: Until the appropriate dose is reached,  
906 patients may find it necessary to use an additional *Actiq* unit during a  
907 single episode. Redosing may start 15 minutes after the previous unit  
908 has been completed (30 minutes after the start of the previous unit).

909 While patients are in the titration phase and consuming units which  
910 individually may be subtherapeutic, no more than two units should be  
911 taken for each individual breakthrough cancer pain episode.

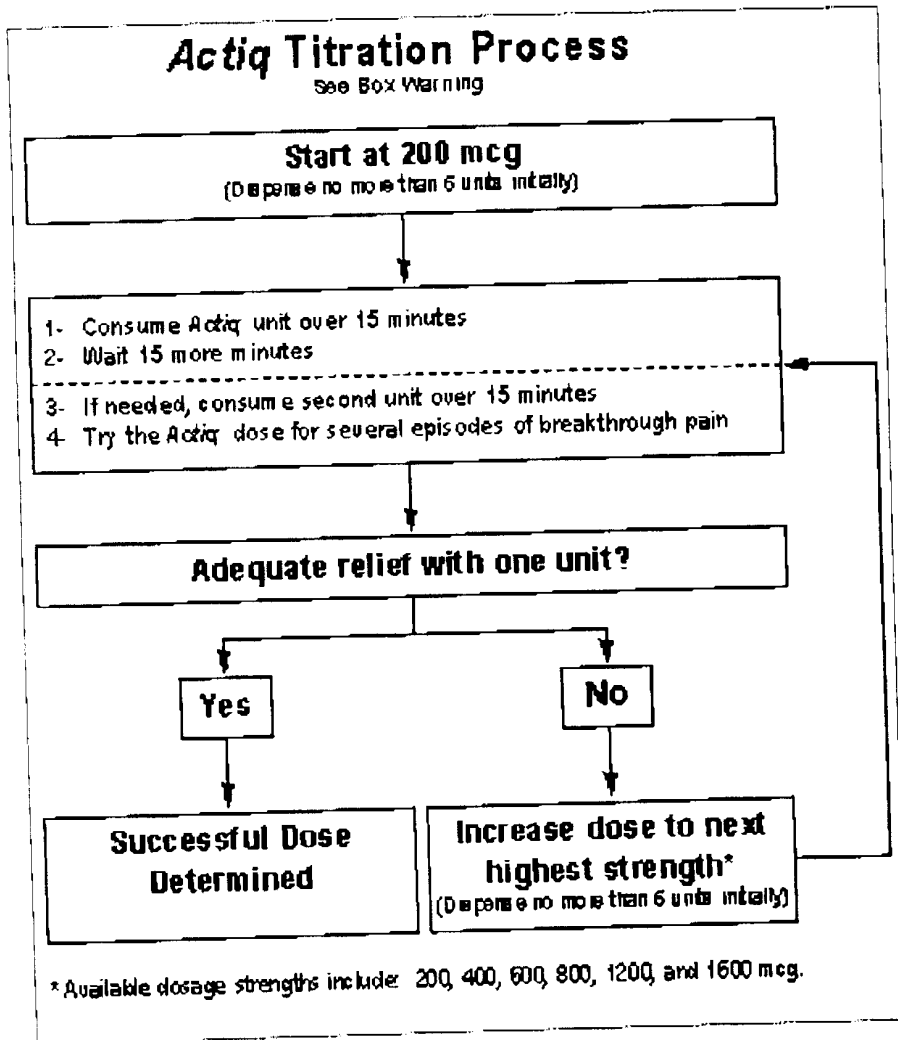
912

913 Increasing the dose: If treatment of several consecutive breakthrough  
914 cancer pain episodes requires more than one *Actiq* per episode, an  
915 increase in dose to the next higher available strength should be  
916 considered. At each new dose of *Actiq* during titration, it is  
917 recommended that six units of the titration dose be prescribed. Each  
918 new dose of *Actiq* used in the titration period should be evaluated over  
919 several episodes of breakthrough cancer pain (generally 1-2 days) to  
920 determine whether it provides adequate efficacy with acceptable side  
921 effects. The incidence of side effects is likely to be greater during this

922 initial titration period compared to later, after the effective dose is  
923 determined.

924

925 Daily Limit: Once a successful dose has been found (i.e., an average  
926 episode is treated with a single unit), patients should limit consumption  
927 to four or fewer units per day. If consumption increases above four  
928 units/day, the dose of the long-acting opioid used for persistent cancer  
929 pain should be re-evaluated.



930

931 **Dosage Adjustment**

932 Experience in a long-term study of *Actiq* used in the treatment of  
933 breakthrough cancer pain suggests that dosage adjustment of both *Actiq*  
934 and the maintenance (around-the-clock) opioid analgesic may be  
935 required in some patients to continue to provide adequate relief of  
936 breakthrough cancer pain.

937  
938 Generally, the *Actiq* dose should be increased when patients require  
939 more than one dosage unit per breakthrough cancer pain episode for  
940 several consecutive episodes. When titrating to an appropriate dose  
941 small quantities (six units) should be prescribed at each titration step.  
942 Physicians should consider increasing the around-the-clock opioid dose  
943 used for persistent cancer pain in patients experiencing more than four  
944 breakthrough cancer pain episodes daily.

945  
946 **Discontinuation of *Actiq***

947  
948 For patients requiring discontinuation of opioids, a gradual downward  
949 titration is recommended because it is not known at what dose level the  
950 opioid may be discontinued without producing the signs and symptoms  
951 of abrupt withdrawal.

952  
953 **SAFETY AND HANDLING**

954 *Actiq* is supplied in individually sealed child resistant foil pouches. The  
955 amount of fentanyl contained in *Actiq* can be lethal to a child. Patients  
956 and their caregivers must be instructed to keep *Actiq* out of the reach of  
957 children (see **BOX WARNINGS, WARNING AND PRECAUTIONS**  
958 **and PATIENT LEAFLET**).

959  
960 Store at 25°C (77°F) with excursions permitted between 15° and 30°C  
961 (59°-86° F) until ready to use. (See USP Controlled Room  
962 Temperature.)

963  
964 *Actiq* should be protected from freezing and moisture. Do not store  
965 above 25°C. Do not use if the foil pouch has been opened.

966  
967 **DISPOSAL OF *ACTIQ***

968  
969 Patients must be advised to dispose of any units remaining from a  
970 prescription as soon as they are no longer needed. While all units should  
971 be disposed of immediately after use, partially consumed units represent  
972 a special risk because they are no longer protected by the child resistant

973 pouch, yet may contain enough medicine to be fatal to a child (see  
974 **Information for Patients**).

975  
976 A temporary storage bottle is provided as part of the *Actiq* Welcome Kit  
977 (see **Information for Patients and Their Caregivers**). This container  
978 is to be used by patients or their caregivers in the event that a partially  
979 consumed unit cannot be disposed of promptly. Instructions for usage of  
980 this container are included in the patient leaflet.

981  
982 Patients and members of their household must be advised to dispose of  
983 any units remaining from a prescription as soon as they are no longer  
984 needed. Instructions are included in **Information for Patients and**  
985 **Their Caregivers** and in the patient leaflet. If additional assistance is  
986 required, referral to the *Actiq* 800# (1-800-xxx-xxxx) should be made.

#### 987 988 **HOW SUPPLIED**

989 *Actiq* is supplied in six dosage strengths. Each unit is individually  
990 wrapped in a child-resistant, protective foil pouch. These foil pouches  
991 are packed 24 per shelf carton for use when patients have been titrated to  
992 the appropriate dose.

993  
994 Patients should be prescribed an initial titration supply of six 200- $\mu$ g  
995 *Actiq* units. At each new dose of *Actiq* during titration, it is  
996 recommended that only six units of the next higher dose be prescribed.

997  
998 Each dosage unit has a white to off-white color. The dosage strength of  
999 each unit is marked on the handle, the foil pouch and the carton. See foil  
1000 pouch and carton for product information.

1001	Dosage Strength	Carton/Foil	
1002	(fentanyl base)	Pouch Color	<u>NDC Number</u>
1003			
1004			
1005	200 $\mu$ g	Gray	NDC 0074-2460-01
1006	400 $\mu$ g	Blue	NDC 0074-2461-01
1007	600 $\mu$ g	Orange	NDC 0074-2462-01
1008	800 $\mu$ g	Purple	NDC 0074-2463-01
1009	1200 $\mu$ g	Green	NDC 0074-2464-01
1010	1600 $\mu$ g	Burgundy	NDC 0074-2465-01

1011  
1012 **Note: Colors are a secondary aid in product identification. Please be sure**  
1013 **to confirm the printed dosage before dispensing.**

1014  
1015 Rx only.

1016

1017 DEA order form required. A Schedule CII narcotic.  
1018  
1019 Manufactured by ABBOTT LABORATORIES, NORTH CHICAGO, IL  
1020 60064, USA.  
1021 Distributed by ABBOTT LABORATORIES, INC., NORTH  
1022 CHICAGO, IL 60064, USA.  
1023  
1024 Under license from ANESTA CORP., Salt Lake City, UT 84116, USA  
1025 U. S. Patent No. 4,671,953  
1026 Printed in USA  
1027  
1028