

March 14, 2018

## Simplist® Supply Update

Dear Valued Customer,

This letter is to inform you of some of the actions Fresenius Kabi is taking to address drug shortages related to Dilaudid® (HYDROmorphine) and Morphine Sulfate. Fresenius Kabi is working diligently to increase production of Dilaudid and Morphine in Simplist prefilled syringes to help meet the current medically appropriate need.

One of the measures being taken to increase output is the removal of the StabilOx™ canister from the Dilaudid and Morphine blister packs. With FDA's approval, Fresenius Kabi is taking this step to ramp up production. Simplist Dilaudid and Morphine will transition to a standard blister pack, which is currently used for the non-narcotic Simplist products. Please note, the foil backing will change to paper backing, in addition to the canister being removed. The NDC number, label content, packaging dimensions and carton configuration (24 pack) will remain unchanged. The product shelf life of 24 months will remain the same. Product in the new packaging will begin shipping to the channel in the April to May timeframe.

Over the next few months, our production focus will be Dilaudid 0.5mg per 0.5mL and Morphine 2mg per 1mL. We will manufacture additional Dilaudid and Morphine presentations as scheduling allows; however, the focus on the lower dose concentrations provide greater efficiency in manufacturing output. The presentations for Simplist Dilaudid and Morphine prefilled syringes, in order of priority for manufacturing, are as follows:

Dilaudid (HYDROmorphine)	NDC Number	Morphine Sulfate	NDC Number
<b>Dilaudid 0.5mg per 0.5mL</b>	<b>76045-009-05</b>	<b>Morphine 2mg per 1mL</b>	<b>76045-004-10</b>
Dilaudid 1mg per 1mL	76045-009-10	Morphine 4mg per 1mL	76045-005-10
Dilaudid 2mg per 1mL	76045-010-10	Morphine 5mg per 1mL	76045-006-10

As additional support to these goals, Fresenius Kabi has decided to discontinue manufacturing the following Simplist Dilaudid and Morphine prefilled syringe presentations, effective immediately, with plans to launch equivalent vial presentations later this year:

Discontinued Presentation	NDC Number
Dilaudid 4mg per 1mL	76045-011-10
Morphine 8mg per 1mL	76045-007-10
Morphine 10mg per 1mL	76045-008-10

We recognize that the current shortage extends to other types of medications. Our manufacturing schedule in 2018 includes releases of non-narcotics, including Simplist Ondansetron, Heparin, Ketorolac, Metoclopramide, Midazolam, Dexamethasone, and Diphenhydramine prefilled syringes, and we anticipate intermittent releases of these products throughout the year.

Despite our strongest efforts, we expect the narcotic syringe market to remain constrained for the foreseeable future. We will continue to explore all means to increase manufacturing output to serve you and support your patient care needs. If you have any questions, please do not hesitate to contact your local Fresenius Kabi account manager or our Customer Service department at 1-888-386-1300.

Sincerely,



Angie Lindsey  
Senior Director, Simplist® Marketing