



## Single-dose vials improve drug delivery for patients

How TekniPlex Healthcare helped a drug manufacturer to successfully launch a liquid solution product in single-dose vials



## PROBLEM

A pharmaceutical manufacturer of tablets for an oral drug therapy had been selling their drug in the traditional solid tablet form. The tablet needed to be taken in the morning at least 30 minutes before breakfast to ensure its intended therapeutic impact, posing a significant challenge to adherence to therapy for many patients. Not only did the existing mode of administration present adherence issues, some patients also have an aversion to swallowing oral solid tablets.

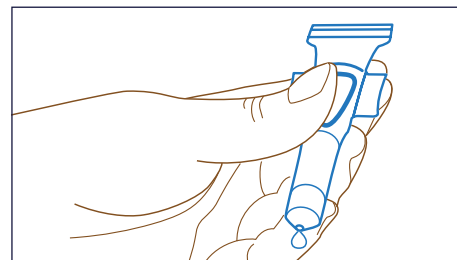
## CAUSE

Further, the company wanted to innovate by bringing a liquid drug alternative to the marketplace to address patient needs. This would require a completely new drug delivery system. The pharmaceutical manufacturer approached TekniPlex Healthcare for a single-dose solution.

## SOLUTION

The 1ml injection molded, polyethylene, single-dose vial was recommended. The container offers good squeezability and dispenses the precise amount required to meet therapeutic requirements.

Liquid drug alternative addresses patient needs



**Change from traditional solid tablet to 1ml polyethylene single-dose vial meets required therapeutic requirements and patient challenges**



Pills requiring water

**VS.**

Liquid oral drug – no water is necessary

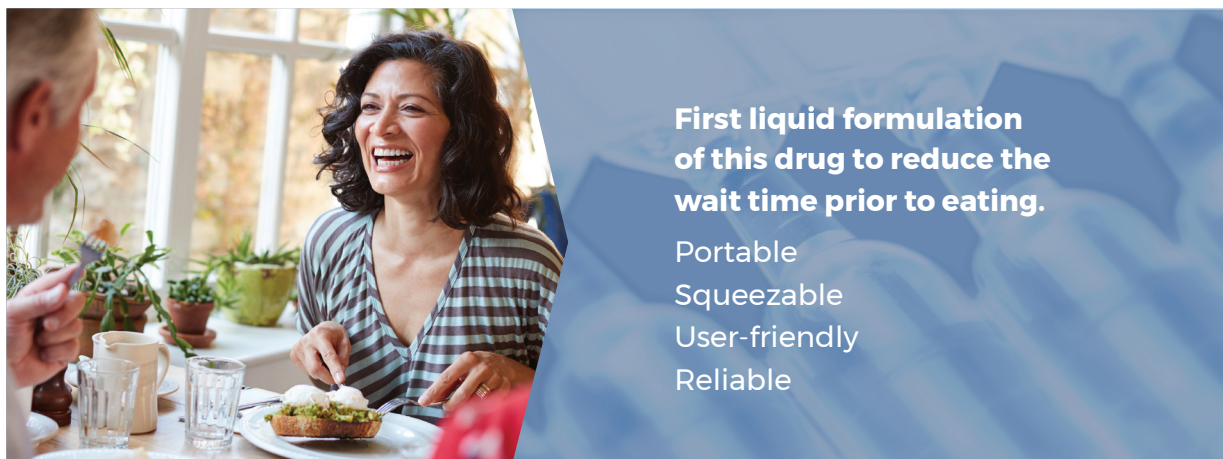




## BENEFIT

Converting to the single-dose vial yielded multiple significant benefits for the drug manufacturer. These include:

- Single-dose vials enabled the manufacturer to bring the first liquid formulation of this drug to market and **reduce the wait time prior to eating**
- **Squeezable, user-friendly, reliable package** for correct dosage dispensing
- Suitable for a **broad age demographic** from children to elderly
- **Improved dosing ease** for parents administering to children and caregivers providing the drug to the elderly
- **Enables portable dosing.** No water is necessary
- **Drug is shelf stable**, no refrigeration necessary enabling portability
- Pharmaceutical company was able to **increase product category revenues** a minimum 20% due to market growth
- **Global geographic** penetration also expanded



**First liquid formulation  
of this drug to reduce the  
wait time prior to eating.**

Portable  
Squeezable  
User-friendly  
Reliable

## ABOUT TEKNIplex HEALTHCARE

TekniPlex Healthcare deploys world-class material science expertise to deliver value in creating products for medical devices, diagnostics, and drug delivery. With a deep understanding of the needs of end-users, our offerings ensure we provide innovative solutions at the point of patient care. For more information about TekniPlex Healthcare and our solutions, visit [www.Tekni-Plex.com/healthcare](http://www.Tekni-Plex.com/healthcare).