

NEW

ethimedix

## SmartBottle™

Giving your patients freedom from pain wherever they are and without breaking skin

pain relief at the touch of a finger

- Patient Autonomy and Safety
- Biometrically Personalized Pain Relief Device Including Breakthrough Bolus
- Non-Invasive Analgesic Liquid Delivery
- Homecare, Ambulatory or Hospital Environment
- Highly secured drinkable drug dispenser

“The oral route is the most common, least invasive, and easiest route for opioid administration for most patients with (cancer) pain. In all patients who can take oral medications, this route should be considered first.”

Routes of Opioid Analgesic Therapy  
in the Management of Cancer Pain  
Rom A. Stevens, MD, and Salim M. Ghazi, MD



### DRINKABLE LIQUID MORPHINE

the *SmartBottle™* provides between 5-15mL of drinkable liquid morphine in the desired concentration for the patient's ease of use

### NON-INVASIVE

this device accurately delivers the right amount of opioid drug in liquid form in programmed doses without the need to set IV lines or do injections

### TAMPER-PROOF

any attempt to breach or access the liquid opioid will result in the immediate flash-neutralization of the medicine

### PORTABLE

the Ethimedix *SmartBottle™* is easy to carry, sits on any bedside table and delivers the right dosage of analgesic opioid at the touch of a finger

### HOSPITAL

for all patients where oral opioid treatment is possible including post operative or palliative care

### BIOMETRIC AUTHENTICATION of the HEALTH CARE PROVIDER

to avoid theft or misuse, the fingerprints of one or more health care provider can also be recorded in the Ethimedix *SmartBottle™* thus permitting authorized caregivers to provide multiple doses to different patients and/or an emergency bolus to a given patient

### PATIENT AUTONOMY

with a volume of up to 1L total capacity, a treatment of several weeks can easily be implemented for each patient

### LONG-TERM CARE

with its large capacity and autonomy, its tamper proof safety, the Ethimedix *SmartBottle™* is the perfect solution when long term home or remote pain relief is needed

### ROBUST

tested in remote locations for outpatient care in regions of the world that are difficult to access, it can be safely used for any situation even in the absence of a local health care setting

### PROGRAMMABLE

The *SmartBottle™* can be personalized for one patient at a time or it can be used by any accredited health care provider for dispensing to multiple patients in multiple places



### BIOMETRIC AUTHENTICATION of the PATIENT

the fingerprints of each patient is captured in the device itself and is required for each dispensing of the opioid dose

### OUTPATIENT

the portability and ease of use makes the Ethimedix *SmartBottle™* the perfect companion for pain relief away from the hospital and without the need for IV or IM

### ADHERENCE TO TREATMENT

the patient's prescription is programmed into each device (including emergency bolus), and can be monitored by health care providers

### PREVENTS ACCIDENTAL OVERDOSE

the patient's personalized prescription is programmed into the *SmartBottle's* chip for short or long term care and will not dispense beyond the authorized amounts, dates, or to unauthorized users

### SHORT-TERM CARE

it can be programmed for as short a period as a few hours or days as is necessary for the patient's well being whether as an outpatient or inpatient

### MAINTENANCE-FREE

Designed to withstand extreme conditions, and with 4'000 doses of guaranteed operation on a single battery, the Ethimedix *SmartBottle™* can be used in remote locations for safe and easy distant patient care

### TRACEABILITY

data on the frequency of use is captured within the device's chip and can be downloaded and stored

### COST EFFECTIVE

conventional liquid opioid can be used and therefore ideal in a managed care environment with cost constraints

# SmartBottle™

There are great disparities in the treatment of pain even in countries with advanced healthcare.

Pain relief is a fundamental human right and should be accessible, easily and safely, for those in need.

We propose a dramatically improved access to pain relief by providing a safe, user-friendly analgesic dispensing system for implementation in any and all environments.

Whether hospital or dispensary, for in or outpatients, post-op or palliative, our Ethimedix *SmartBottle™* offers a unique and new approach to opioid administration without risk to the patient or the health care provider, all this at the touch of a finger.

Height	290 mm	11.4 inches
Diameter	140 mm	5.5 inches
Weight (empty)	1 Kg	2.2 pounds
Max. capacity	1 Liter	1 quart

## ethimedix

Ethimedix SA is a Swiss based privately owned company incorporated in 2010 with a mission to develop and provide state of the art medical devices allowing programmable and controllable means of drug delivery for improved quality of life while ensuring better adherence and compliance and preventing abuse, misuse and diversion. The founders bring their expertise and more than two decades of successful entrepreneurship in the medical device business.

The *SmartBottle™* is the first product to be developed, produced and commercialized by Ethimedix and is the result of a joint development effort with the Institute of Microtechnique of Neuchatel (ESPLAB-EPFL), and the Hospital of Morges, Switzerland.

For ordering information: [order@ethimedix.com](mailto:order@ethimedix.com)

Visit our website at [www.ethimedix.com](http://www.ethimedix.com)

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