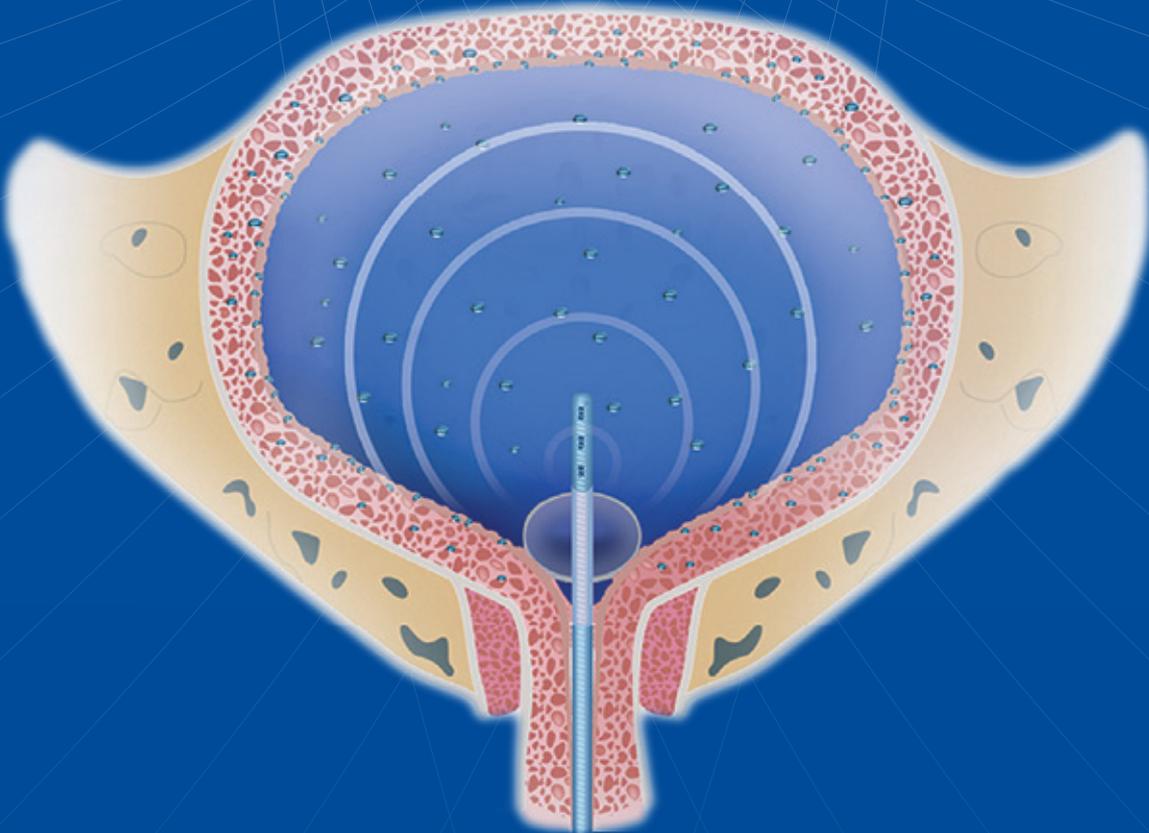


EMDA[®]

Electromotive Drug Administration

A comprehensive program
for the innovative treatment
for urinary bladder diseases



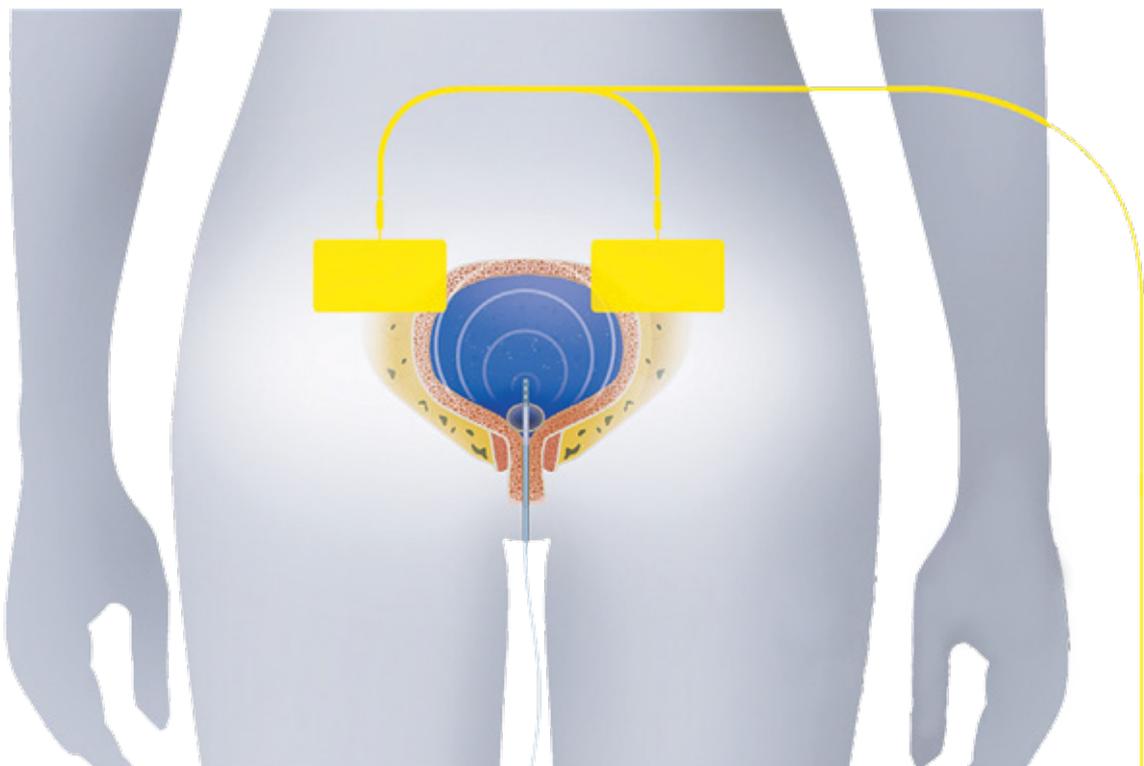
PHYSION[®]

EMDA® (ELECTROMOTIVE DRUG ADMINISTRATION)

EMDA® Electromotive Drug Administration is an **innovative and minimally invasive method** of enhancing local drug penetration across the urothelium of the bladder and prostatic urethra, resulting in greater quantities of local drug being delivered to a **greater tissue depth than is achievable by passive diffusion** alone, allowing a better clinical efficacy.

EMDA® treatment helps to **avoid many of the side effects** often associated with systemic administration.

EMDA® is designed to provide the solutions to overcome the obstacles often associated with low rate passive diffusion and the inability to control the rate of administration.



EMDA® (ELECTROMOTIVE DRUG ADMINISTRATION)

EMDA® technology is given by

- a current source (Battery 12V, Physionizer 30 generator)
- an active electrode-receptacle containing the drug solution applied to the site of pathology (bladder) by a silicon catheter
- a dispersive ground electrode placed on the skin with sponge patches to create a low-current circuit between the catheter tip and the current generator

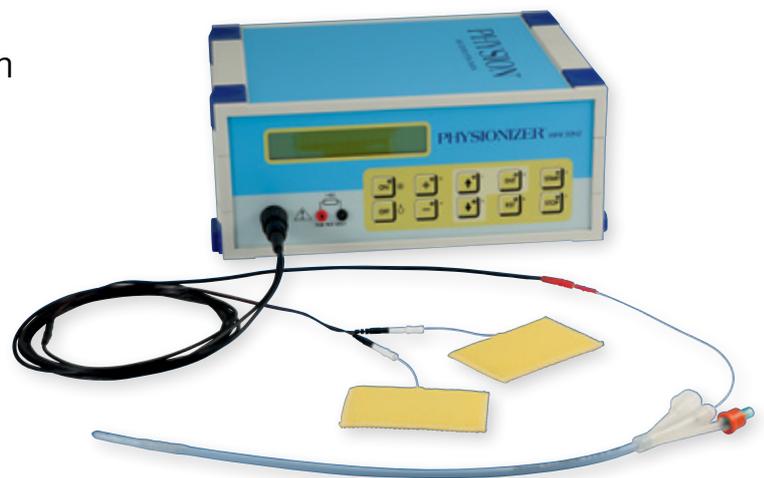
The two main electrokinetic principles are:

IONTOPHORESIS - the transport of ionized drug molecules into the tissue by applying an electrical current through a solution containing the ions, e.g. mitomycin C, lidocaine.

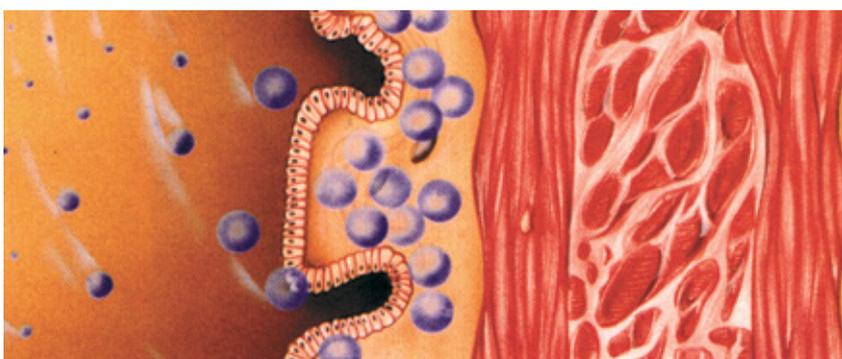
ELECTRO-OSMOSIS - the transport of non-ionized drug molecules associated with the transport of water, e.g. mitomycin C.

EMDA® INDICATIONS

- *Non-Muscle Invasive Bladder Cancer*
- *Interstitial Cystitis*
- *Bladder Pain Syndrome*
- *Recurrent And Persistent UTI*
- *Hyperactive Bladder*



EMDA® administration



Passive administration

EMDA[®] method is

EASY TO USE
FAST
SAFE
MINIMALLY INVASIVE
LIMITED SIDE-EFFECTS



Innovative treatment program
with the **EMDA[®]** system
for better clinical results
and proven lower costs

EMDA[®] system from Physion Srl,
is manufactured in Italy.
The devices are in
full compliance with all current
European Medical Device Directives,
with Class II Device CE-Mark

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