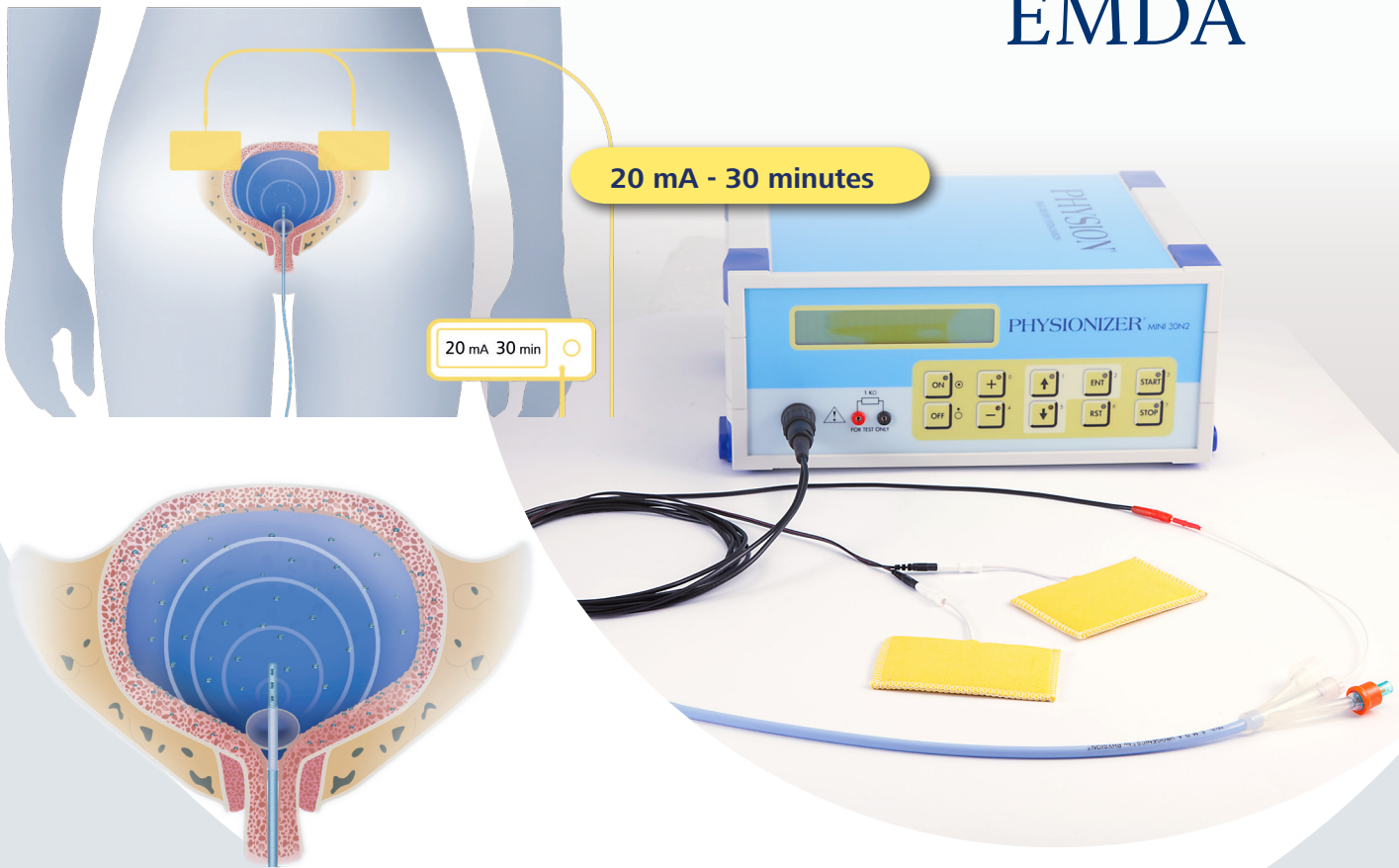


# Electromotive Drug Administration for non-muscle invasive bladder cancer



## Effective bladder instillation for Intermediate & High Risk patients

- More effective than Mitomycin (MMC) alone
- Sequential delivery of EMDA MMC & BCG more effective than BCG alone

## Advantages of EMDA

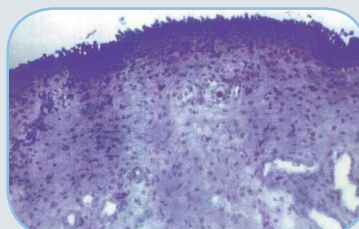
- No incremental side-effects other than skin irritation
- Shorter instillation time of 30 minutes vs 2 hours with MMC alone
- Superior clinical outcomes

## Effect of EMDA

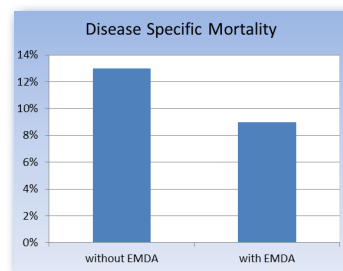
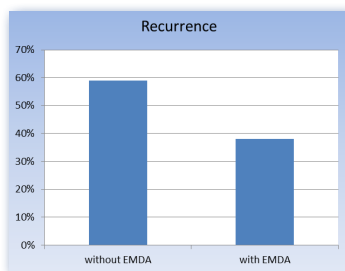
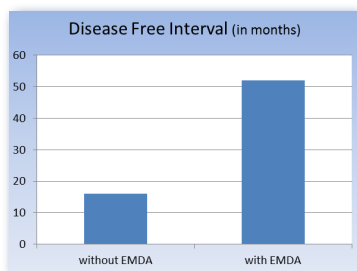
Without EMDA:  
Less MMC in the bladder wall



With EMDA  
More MMC in the bladder wall



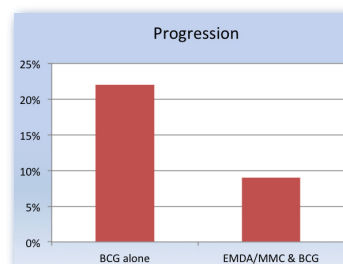
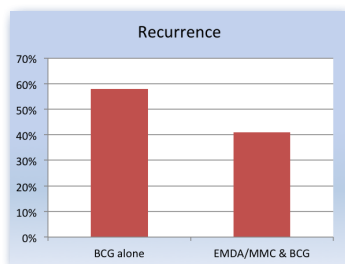
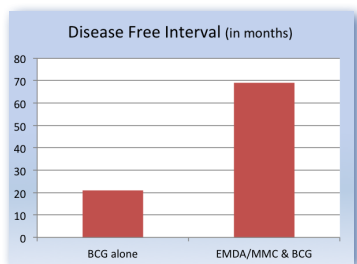
## Intermediate Risk



### The Lancet Oncology September, 2011, Di Stasi et al

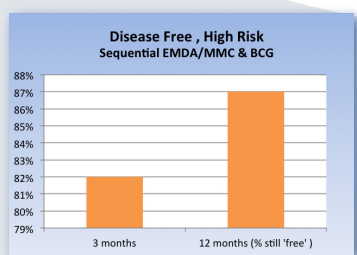
Electromotive instillation of mitomycin immediately before transurethral resection for patients with primary urothelial nonmuscle invasive bladder cancer: a randomised controlled trial, **7 year follow-up, 352 patients**

## High Risk



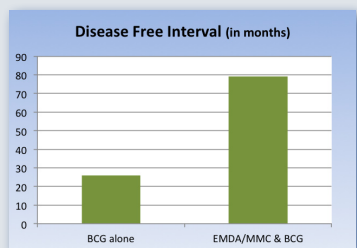
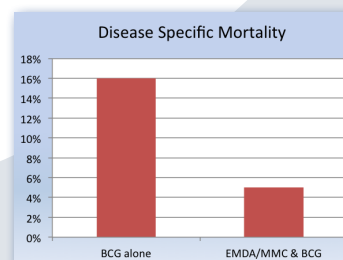
### The Lancet Oncology, 2006, Di Stasi et al

Sequential BCG and electromotive mitomycin versus BCG alone for high-risk superficial bladder cancer; a randomised controlled trial. **7-8 year follow-up, 210 patients**



### BJUI Suppl. BAUS 2012, S. Amery, T. O'Brien et al.

Initial Experience with sequential BCG EMDA/MMC as the standard intravesical regimen for high risk non-invasive bladder cancer (NIMBC), **1 year follow-up, 30 patients**



### AUA 2012, Podium presentation 1670, S. Di Stasi,

Initial Intravesical sequential bacillus Calmette-Guérin and electromotive mitomycin versus bacillus Calmette-Guérin alone for stage pT1 urothelial bladder cancer, **16 years follow-up**

## Other indications EMDA

- Chronic Bladder Pain Syndrome / Interstitial Cystitis  
(+ Pentosan, Heparin or Cystistat)
- Cystodistension (+ Lidocain)
- Overactive Bladder (+ Oxybutinin)
- Non-infective Prostatitis  
(+ Lidocain, Epinephrine, Dexamethasone Sodium Phosphate)
- Infective Prostatitis  
(+ Gentamicin, Netilmicin, Amikacin)
- Pyronie's Disease  
(+ Verapamil and Dexamethasone)