

# Clinical trials of phosphodiesterase III inhibitors for heart failure in all type of patients

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## 1 Phosphodiesterase III inhibitors

Trial	Treatments	Patients	Trials design and methods
<b>Amrinone vs placebo</b>			
<b>AMTG , 1985</b> n=NA follow-up: 3 months	Amrinone <600mg/day versus placebo	patients with heart failure NYHA III/IV	Parallel groups double blind
<b>Enoximone vs placebo</b>			
<b>EMOTE , 2007</b> n=101/100 follow-up: 26 weeks	enoximone versus placebo	patients with ultra-advanced heart failure requiring IV inotropic therapy	Parallel groups double blind US
<b>Cowley , 1994</b> n=75/76 follow-up: 12 months	Enoximone 300mg/d versus placebo	NYHA III,IV	Parallel groups double blind
<b>EMTG , 1990</b> n=50/52 follow-up: 4 months	Enoximone <450 mg/d versus placebo	NYHA II, III	Parallel groups double blind
<b>ESG , 2000</b> n=70/35 follow-up: 3 months	Enoximone 75-150 mg/d versus placebo	NYHA II, III	Parallel groups double blind
<b>ESSENTIAL (I and II) , 2009</b> [NCT00051285] n=926/928 follow-up: 16.6 mo (median)	enoximone titrated to 50 mg three times daily versus placebo	Patients with New York Heart Association class IIIIV HF symptoms, left ventricular ejection fraction 30% , and one hospitalization or two ambulatory visits for worsening HF in the previous year	Parallel groups double blind Europe and North andSouth America
<b>Lardoux , 1987</b> n=30/13 follow-up: 3 months	Enoximone 150, 300mg/d versus placebo	NYHA NA	Parallel groups double blind
<b>WESG , 1991</b> n=108/56 follow-up: 3 months	Enoximone 150, 300 mg/d versus placebo	NYHA II, III	Parallel groups double blind
<b>Flosequinan vs placebo</b>			
<b>REFLECT II , 1991</b> n=207/104 follow-up: 3 months	-	NYHA II-IV	Parallel groups double blind
<b>Cowley , 1993</b> n=64/71 follow-up: 4 months	Flosequinan 125mg/d versus placebo	NYHA II, III	Parallel groups double blind

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<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>FACET , 1993</b> n=212/110 follow-up: 4 months	Flosequinan 100 and 150 mg/d versus placebo	NYHA II, III	Parallel groups double blind
<b>REFLECT , 1993</b> n=93/100 follow-up: 3 months	Flosequinan 100mg/d versus placebo	NYHA II,III	Parallel groups double blind
<b>ibopamine vs placebo</b>			
<b>PRIME II , 1997</b> n=953/953 follow-up: mean 11.4 months	oral ibopamine 100 mg three times daily versus placebo	patients with heart failure NYHA III-IV	Parallel groups double blind
<b>Imazodan vs placebo</b>			
<b>IRG , 1991</b> n=103/44 follow-up: 3 months	Imazodan 4,10, 20 mg/d versus placebo	NYHA III,IV	Parallel groups double blind
<b>Indolidan vs placebo</b>			
<b>Dies , 1989</b> n=38/36 follow-up: 3 months	Indolidan dose NA versus placebo	NYHA II,III	Parallel groups double blind
<b>Milrinone vs placebo</b>			
<b>MMTG , 1989</b> n=119/111 follow-up: 3 months	Milrinone <40mg/d versus placebo	NYHA II-IV	Parallel groups double blind
<b>PROMISE , 1991</b> n=561/527 follow-up: 20 months	Milrinone 40mg/d versus placebo	NYHA III,IV	Parallel groups double blind
<b>Pimobendan vs placebo</b>			
<b>Bergler-Klein , 1992</b> n=12/12 follow-up: 6 months	Pimobendan 10mg/day versus placebo	NYHA II, III	Parallel groups double blind
<b>PMRG , 1992</b> n=149/49 follow-up: 3 months	Pimobendan 2.5, 5, 10 mg/d versus placebo	NYHA III,IV	Parallel groups double blind
<b>EPOCH , 2002</b> n=147/151 follow-up: 12 months	Pimobendan 2.5 to 5mg/d versus placebo	NYHA II,III	Parallel groups double blind
<b>PICO , 1996</b> n=219/112 follow-up: 6 months	Pimobendan 2.5, 5 mg/d versus placebo	NYHA II, III	Parallel groups double blind
<b>Vesnarinone vs placebo</b>			
<b>OPC-8212 MRG , 1990</b> n=45/48 follow-up: 3 months	Vesnarinone 60mg/d versus placebo	NYHA II-IV	Parallel groups double blind

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<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>VEST , 1998</b> n=2550/1283 follow-up: 9 months	Vesnarinone 30, 60mg/d versus placebo	NYHA III,IV	Parallel groups double blind
<b>VSG , 1993</b> n=NA follow-up: 6 months	Vesnarinone 60mg/d versus placebo	NYHA II-IV	Parallel groups double blind
<b>enoximone vs placebo (on top metoprolol)</b>			
<b>EMPOWER</b> <i>ongoing</i> [NCT00077948] n=NA follow-up:	enoximone versus placebo	Advanced CHF Subjects Previously Intolerant to Beta-Blocker Treatment	Parallel groups double blind

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### Cowley, 1993:

### FACET, 1993:

### REFLECT, 1993:

### PRIME II, 1997:

**IRG, 1991:**  
**Dies, 1989:**  
**MMTG, 1989:**  
**PROMISE, 1991:**  
**Bergler-Klein, 1992:**  
**PMRG, 1992:**  
**EPOCH, 2002:**  
**PICO, 1996:**  
**OPC-8212 MRG, 1990:**  
**VEST, 1998:**  
**VSG, 1993:**  
**EMPOWER, :**

Entry terms: Enoximone, Fenoximone, Perfan, MDL 19438, MDL-17043, MDL 17043, MDL17043, , enoximone sulfoxide, MDL 17043 sulfoxide,

## 2 About TrialResults-center.org

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Rigorous meta-analysis method is used to populate TrialResults-center: widespread search of published and non published trials, study selection using pre-specified criteria, data extraction using standard form.

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