

# CTI Perspectives

Arrhythmias - May , 2009

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## Highlights

- Benefits From Sinus Rhythm Resoration + Warfarin in AF

## Research & Development Updates

- Ivabradine

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## Highlights

### Benefits From Sinus Rhythm Resoration + Warfarin in AF

**Sinus rhythm restoration** and long-term **warfarin** therapy may have considerable benefits in terms of embolic events and mortality in patients with atrial fibrillation lasting more than 48 hours.

Specifically, antiarrhythmic rhythm control + warfarin + **aspirin** was more effective than antiarrhythmic rate control + anticoagulation and antiarrhythmic rhythm control + aspirin for the prevention of thromboembolism and treatment of atrial fibrillation. Rates of embolic events were 2 versus 15 and 12, respectively ( $p < 0.05$ ). Additionally, mortality rates were lower in recipients of antiarrhythmic rhythm control + warfarin + aspirin (4 patients) or rhythm control + aspirin (4 patients) than antiarrhythmic rate control + anticoagulation (12 patients;  $p < 0.05$ ).

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## Research & Development Updates

### Ivabradine

**Ivabradine** does not affect driving performance when administered at doses higher than those used in the clinic, a recently published study has shown.

The data showed no differences between ivabradine and placebo in the outcomes of driving performance tests, regardless of the presence or absence of visual symptoms. Ivabradine was administered at 20 mg/day for the first week, and was uptitrated to 30 mg/day for the second week, if no visual symptoms were reported.

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Ivabradine acts as a specific bradycardic agent and therefore has potential in the treatment of heart failure, stable angina pectoris, left ventricular dysfunction, and arrhythmias. Studies have shown that ivabradine is able to reduce heart rate by its specific action on the sino-atrial node. Ivabradine is undergoing phase I trials in arrhythmias and heart failure (both in France) and phase III trials for left ventricular function (world). It has been launched in the European Union and has been registered in Taiwan.

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## Ongoing Trials

Table 1 outlines the clinical trial activity identified in Arrhythmias over the last month.

Drug(s)	Indication	Study Status	Adis CTI Record
AZD 1305	Left ventricular dysfunction	Active, no longer recruiting	700037445
Dapagliflozin, digoxin, warfarin	Volunteers	not yet recruiting	700044900
Dexamethasone, corticosteroids	Heart block	completed	700005781
Metoprolol, pacemaker	Secondary prevention of myocardial infarction	suspended	700021202
Nebivolol	Various toxicities	recruiting	700044380
Rotigaptide	Volunteers	recruiting	700044949
Sotalol	Atrial fibrillation	planning	700044264
Valsartan	Prevention of atrial fibrillation	completed	700017709

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## Market News

No new milestones in Arrhythmias drug development in key markets were identified over the last month.

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## Meetings diary

Meeting	Location	Date	Contact
Annual Meeting of the British Cardiovascular Society	London, England	1-3 Jun 2009	<a href="http://www.escardio.org">www.escardio.org</a>
19th Scientific Meeting of the European Society of Hypertension (ESH)	Milan, Italy	13-16 Jun 2009	<a href="http://www.eshmilan.org">www.eshmilan.org</a>
XV International Symposium on Atherosclerosis (ISA)	Boston, Massachusetts, USA	14-18 Jun 2009	<a href="http://www.isa2009.org">www.isa2009.org</a>
EUROPACE 2009	Berlin, Germany	21-24 Jun 2009	<a href="http://www.escardio.org">www.escardio.org</a>
22nd Congress of the International Society on Thrombosis and Haemostasis	Boston, Massachusetts, USA	11-16 Jul 2009	<a href="http://www.isth2009.com">www.isth2009.com</a>
15th World Congress on Heart Disease	Vancouver, British Columbia, Canada	19-21 Jul 2009	<a href="http://www.escardio.org">www.escardio.org</a>
Basic Cardiovascular Sciences Annual Conference 2009 - Molecular Mechanisms of Cardiovascular Disease	Lake Las Vegas, Nevada, USA	20-23 Jul 2009	<a href="mailto:scientificconferences@heart.org">scientificconferences@heart.org</a>
35th Ten-Day Seminar on the Epidemiology and Prevention of Cardiovascular Disease	Tahoe City, California, USA	26 Jul, 7 Aug 2009	<a href="mailto:scientificconferences@heart.org">scientificconferences@heart.org</a>

European Society of Cardiology Annual Congress 2009	Barcelona, Spain	29 Aug-2 Sep 2009	<a href="http://www.escardio.org">www.escardio.org</a>
Heart failure Society of America 13th Annual Scientific Meeting	Boston, Massachusetts, USA	13-16 Sep 2009	<a href="http://www.hfsa.org">www.hfsa.org</a>
Transcatheter Cardiovascular Therapeutics (TCT) 2009	San Francisco, California, USA	21-26 Sep 2009	<a href="http://www.tctconference.com">www.tctconference.com</a>
63rd High Blood Pressure Research Conference 2009	Chicago, Illinois, USA	23-26 Sep 2009	<a href="http://www.americanheart.org">www.americanheart.org</a>
Canadian Cardiovascular Congress (CCC)	Edmonton, Alberta, Canada	24-28 Oct 2009	<a href="http://www.ccs.ca">www.ccs.ca</a>
CHEST 2009	San Diego, California, USA	31 Oct-5 Nov 2009	<a href="http://www.chestnet.org">www.chestnet.org</a>
American Heart Association (AHA) Scientific Sessions 2009	Orlando, Florida, USA	15-17 Nov 2009	<a href="http://scientificsessions.americanheart.org">http://scientificsessions.americanheart.org</a>
International Stroke Conference 2010	San Antonio, Texas, USA	24-26 Feb 2010	<a href="http://strokeconference.americanheart.org">http://strokeconference.americanheart.org</a>
59th Annual Scientific Session of the American College of Cardiology (ACC)	Atlanta, Georgia, USA	12-16 Mar 2010	<a href="http://www.acc.org">www.acc.org</a>
American Society of Hypertension (ASH)	New York, New York, USA	1-4 May 2010	<a href="http://www.ash-us.org">www.ash-us.org</a>
23rd Scientific Meeting of the International Society of Hypertension (ISH)	Vancouver, British Columbia, Canada	26-30 Sep 2010	<a href="http://www.vancouverhypertension2010.com">www.vancouverhypertension2010.com</a>