

## **Tentative Outline**

### **Special Issue for Current Medicinal Chemistry**

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### **Cardiovascular drug therapy in clinical practice: comparison between different approaches (Children vs Adults; USA vs Europe)**

#### **Aims & Scope:**

In adult patients, cardiovascular drugs are widely administered in the treatment of numerous diseases. The indications and doses are strictly codified by international Guidelines, which are periodically updated. In paediatric patients, however, the situation is substantially different. The lack of large interventional studies on the use of these compounds has led to a greater uncertainty, with a less extensive administration and more limited indications.

Furthermore, some important differences in therapeutic approach for the same diseases are present between the U.S. and Europe. The purpose of this special issue will be to review the pharmacological treatment of certain heart diseases, such as heart failure and pulmonary arterial hypertension, which can result in both adult and paediatric patients. Differences and similarities will be highlighted. Regarding the differences in medical treatment for the same disease in the U.S. and Europe, it will be emphasized as the regulation of drugs is largely determined not only by scientific considerations, but also by other concerns – legal, cultural - which vary in different parts of the world. Such discrepancies are found even in the informational documents provided by pharmaceutical companies (different in USA and Europe for the same drug) and drug agencies (different between FDA and equivalent agencies in Europe).

#### **Subtopics:**

- Antihypertensive therapy in children: differences and similarities in medical approach between United States and Europe
- Differences in the pharmacological treatment of pulmonary hypertension between neonates/children and adult patients
- Management of patent ductus arteriosus in USA and Europe: why aren't the same?
- Heart failure pharmacotherapy: differences between adult and paediatric patients
- PHACES syndrome unmasked by propranolol interruption in a tetralogy of Fallot patient: case report and review on new indications of beta blockers.

**Manuscript submission deadline:** 30 March 2013