EuroSIVA

An introduction to the European Society of Intravenous Anaesthesia
Aim of EuroSIVA

Welcome to the European Society of Intravenous Anaesthesia!

The aim of EuroSIVA is to bring all those with a major interest in the development, research and education of intravenous anaesthesia under one European organisation. We welcome you to take part in many activities, such as scientific and educational meetings, interactive discussions on our website and exchange of research in intravenous pharmacology. EuroSIVA communicates with similar organisations across the globe and facilitates close contacts.
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- In 1997, EuroSIVA was founded in Lausanne (CH).
What is EuroSIVA

- The European Society of Anaesthesiology (ESA) has recently emerged as the pre-eminent scientific Society for Anaesthesiologists in Europe and there was a desire to develop an associated European Society for Intravenous Anaesthesia with the responsibility to co-ordinate, facilitate and to provide high quality presentations and cutting edge information related to TIVA. EuroSIVA is a foundation and registered in The Netherlands.

- The foundation aims to develop and promote the highest quality of education for those involved in drugs administered intravenously and to develop programmes for introducing these new techniques into the standard curriculum and examination system in the individual countries. Within Europe, many of these aims have been achieved and regular training courses have now been established.
EuroSIVA Board

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Nick Sutcliffe, UK (Workshop and education coordinator)
Intravenous Anaesthesia Today

- Over the past decade most countries within Europe have developed a major interest in intravenous anaesthesia. This has been triggered in many cases by the increased availability of improved drugs such as propofol and remifentanil. In addition, the introduction of target controlled infusion systems has led to growing awareness of the value of these new techniques for routine anaesthesia.

- Recent years have brought an even wider spread of intravenous anaesthesia with the advent of more economical techniques, the availability of open TCI and advances in monitoring of drug effect by EEG-derived devices.

- Finally, new applications of refined intravenous techniques on procedural and ICU sedation as well as patient-controlled analgesia became increasingly important, as well as application in Intensive Care sedation.
Demand for standardised training of TIVA

The improvement in intravenous anaesthesia has led to an increasing demand in education and standardized training for doctors and partners from industry alike, mainly for the following reasons:

- **Introduction of new drugs**

- **Various dosing regimens and confusion prescribing information with limited experience in some countries**

- **Modern infusion technologies**

- **Evolution of computer-controlled drug delivery, like Target-Controlled Infusion alongside applied concepts in anaesthetic pharmacology**
From the beginning, EuroSIVA has been committed to promote education and support quality teaching by running a variety of courses, workshops and lecture series related to the practice of intravenous anaesthesia.

Recently, EuroSIVA has set up a formal postgraduate course of state-of-the-art lectures and practical hands-on workshops on TIVA during the Annual Winter Meeting in Switzerland. Those delegates interested in obtaining a EuroSIVA certificate will be asked to sit an MCQ examination based on the course material. Successful candidates will receive a certificate and a pack of teaching material on core topics in intravenous anaesthesia.

It is intended to make this certification also available on the web as an interactive iLearning-Course in the near future.
Meetings and Symposia

EuroSIVA runs two annual educational meetings across Europe:

- The **Annual Scientific Meeting** usually takes place before the Annual Euroanaesthesia Congress in a remarkable and pleasant venue. This 2-day symposium offers cutting edge scientific information and discussions with internationally renowned experts in the field. It is highly regarded by delegates from all over the world.

- The **Annual Winter Meeting** comprises a series of state-of-the-art lectures and practical hands-on workshops on core topics of intravenous anaesthesia for a limited number of delegates. This forms a postgraduate course, which leads to a certificate of knowledge and expertise in TIVA.
EuroSIVA meetings

Annual scientific meeting (preceding the Euroanaesthesia Congress)

- 1997 Lausanne
- 1998 Barcelona
- 1999 Amsterdam
- 2000 Vienna
- 2001 Gothenburg
- 2002 Nice
- 2003 Glasgow (with SIVA UK)
- 2004 Lisbon
- 2005 Vienna
- 2006 Madrid
- 2007 Munich
- 2008 Copenhagen
- 2009 Milan
State-of-the-art lectures

**Opioid-Receptors**

- **Excitation** (nanomolar)
- **Inhibition** (micromolar)

**Propofol-Alfentanil Interaction**

- Propofol: 3.4 µg/ml
  - Calib: 89 ng/ml
- Propofol: 1.7 µg/ml
  - Calib: 65 ng/ml

**Blood-effect delay**

- Sedation
- LMA / intubation
- Surgery

**Equation**

\[ C_p(t) = C_p^0 \cdot e^{-\text{k}_{el} \cdot t} \]
• Tivatranier is a **pharmacokinetic simulation software**, which is able to dynamically visualise the pharmacokinetic features of different intravenous anaesthetics, analgesics and sedatives.

• The drug database is supplemented by pharmacodynamic information, allowing the simulation of **drug interaction** and case scenarios.

• The programme can further be used to enable **video-based case demonstrations** and to run infusion pumps.
EuroSIVA books


Research and Development with EuroSIVA

- EuroSIVA has set up an **educational grant** for research and development in the field of intravenous anaesthesia. The aim is to stimulate basic and clinical studies in the field of intravenous anaesthetic pharmacology and application systems in its broadest sense and facilitate cooperation throughout Europe.

- EuroSIVA provides **expert opinion** and development support for pump manufacturers, pharmaceutical companies and manufacturers of monitoring equipment.
12th EuroSIVA Annual Meeting
5.-6. June 2009, Milan, Italy

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EuroSIVA website
(http://www.eurosiva.org/)