



The ECHSA-Congenital Heart Surgery Database is launching a Newsletter FOR YOU

Quarterly, we will provide you with news, facts and information from the ECHSA-CHSD.

In this issue, read about:

- *Background information*
- *Hot topics*
- *Reports on Congenital Heart Surgery*
- *Interesting Database studies*
- *Quality assurance in Congenital Heart Surgery*
- *quality management in Congenital Heart Surgery*
- *Pediatric and Congenital Cardiac Care*
- *Diamonds for Database users*

HISTORY

ECHSA Congenital Database History

Bohdan Maruszewski, MD, PhD, and George Sarris, MD

The ECHSA-CHSD can look back on a 25-year history of support, development and research in congenital heart surgery. The initial aim of collecting data on the outcomes of congenital heart surgery procedures across Europe was to make possible comparison of results and definition of mortality and morbidity, risk factors as well as targeting research activities. This requires good quality data obtained on a large scale from numerous congenital surgical cardiothoracic units primarily from Europe (but also from other parts of the world) as well as data validation and verification.

[Read more>>](#)

CORE REQUIREMENTS OF A DATABASE

Core Requirements of a Database

Claudia Herbst, MD

"...One of our responsibilities as physicians caring for patients with Congenital Heart Disease is to know the results of the treatment that we recommend..." W.G.Williams

If we want to know the results of a treatment, a benchmark system may be the best to do so. Databases have been developed for quality assurance and to benchmark procedures and centers. The ECHSA Congenital Heart

Surgery Database was established in 1999. Since then, constant improvement in hardware, software and the dataset is realized. Barach et al. describes seven essential elements that a database should incorporate for a meaningful analysis of outcomes. In the following, these elements will be discussed in regard to the ECHSA-CHSD.

[Read more>>](#)



Collaboration between The Society of Thoracic Surgeons Congenital Heart Surgery Database (STS-CHSD) and The European Congenital Heart Surgeons Association Congenital Heart Surgery Database (ECHSA-CHSD)

Jeffrey P. Jacobs, MD and Bohdan Maruszewski, MD, PhD

Collaboration efforts between The Society of Thoracic Surgeons Congenital Heart Surgery Database (STS-CHSD) and The European Congenital Heart Surgeons Association Congenital Heart Surgery Database (ECHSA-CHSD) have spanned the past 2 decades and resulted in multiple scientific publications. These collaborative initiatives have advanced the art and science of pediatric and congenital cardiac surgical outcomes analysis in multiple domains:

- Nomenclature
- Databases
- Risk Stratification
- Data Verification
- Subspecialty Collaboration

[Read more>>](#)



How to Code

Claudia Herbst, MD

In this section, we would like to picture a specific diagnosis group or procedure group to make coding more transparent for you.

In this issue: **Tetralogy of Fallot**

[Read more>>](#)



Database Reports

Claudia Herbst, MD

Database reports are the main output of a database. The ECHSA-CHSD offers 17 different report forms on a 24-hour online availability. Main features of a graphical or tabular report are structure, presentation and simplicity, to be easily understood at first sight. Tables should be ordered and with a clear layout.

In this issue, some most used reports for the diagnose of Tetralogy of Fallot are shown as an example.

[Read more>>](#)

Database Studies

Vladimiro Vida, MD and Claudia Herbst, MD



Database studies are a fundamental outcome of databases on equal terms to single center and benchmark reports. They are an essential part to improve outcome in congenital cardiac care. For two decades the European Congenital Heart Surgeons Association is very active in collecting data from affiliated centers about their surgical activities. Current, the ECHSA-CHSD represents one of the two largest datasets, of patients requiring cardiac surgery for their congenital heart disease, worldwide with current about 300,000 procedures available. ECHSA-CHSD studies include the use of anonymized data coming from the ECHSA database.

[Read more>>](#)



Data Verification in the context of the ECHSA-CHSD

Zdzislaw Tobota, MD and Bohdan Maruszewski, MD, PhD

One of the major challenges facing any data collection endeavor is data verification. It is essential to assure the quality of data analysis and the reliability of results which is two-pronged: data completeness and data accuracy. Source Data Verification (SDV) is an evaluation of the conformity of the data submitted to the database with source data.

[Read more>>](#)



Upcoming Newsletter

25th Anniversary of the ECHSA Congenital Database: A retrospective view, as well as an outlook to the future.

Stay curious!

Release date: January 2020



General Information

Editor-in-Chief: Claudia Herbst, MD

Questions or Requests regarding the newsletter or the ECHSA-CHSD itself?

Want to enroll your center to the ECHSA-CHSD?

Contact us: dbnewsletter@echsa.org

The ECHSA-CHSD Committee

Bohdan Maruszewski *Warsaw, Poland | Committee Chair and Database Director*

George Sarris *Athens, Greece | ECHSA President & Committee Co-Chair*

Ilkka Mattila *Helsinki, Finland | ECHSA Treasurer & Database Treasurer*

Zdzislaw Tobota *Warsaw, Poland | Technical Director*

Morten Helvind *Copenhagen, Denmark | ECHSA Secretary General*

Tjark Ebels *Amsterdam, Netherlands*

Claudia Herbst *Vienna, Austria*

Jürgen Hörer *Munich, Germany*

Attilio Lotto *Liverpool, United Kingdom*

Vladimiro Vida *Padova, Italy*

Andrzej Kansy *Warsaw, Poland*

Boulos Asfour *Sankt Augustin, Germany*

Representatives

Jeffrey Jacobs *St. Petersburg, FL, United States | STS Representative*

Thomas Krasemann *Rotterdam, Netherlands | AEPC Representative*

Associate Members

Haibo Zhang *Shanghai, China*

Kisaburo Sakamoto *Kyoto, Japan*