

ECHSA CHSD History: Introduction

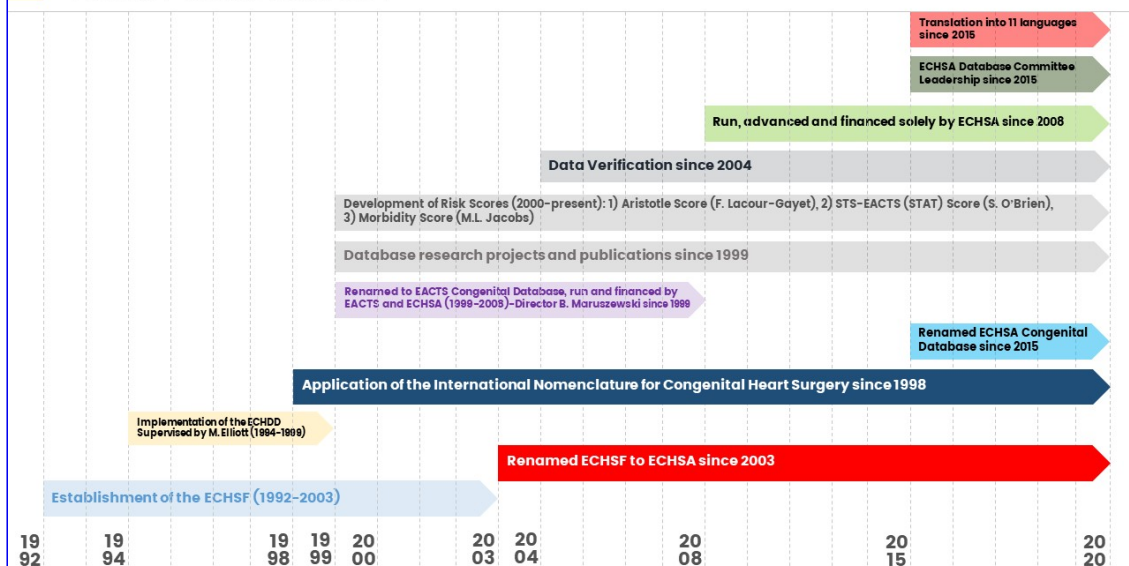
Bohdan Maruszewski MD, PhD, and George Sarris, MD

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.

See below the timeline of the establishment and development of the ECHSA CHSD.

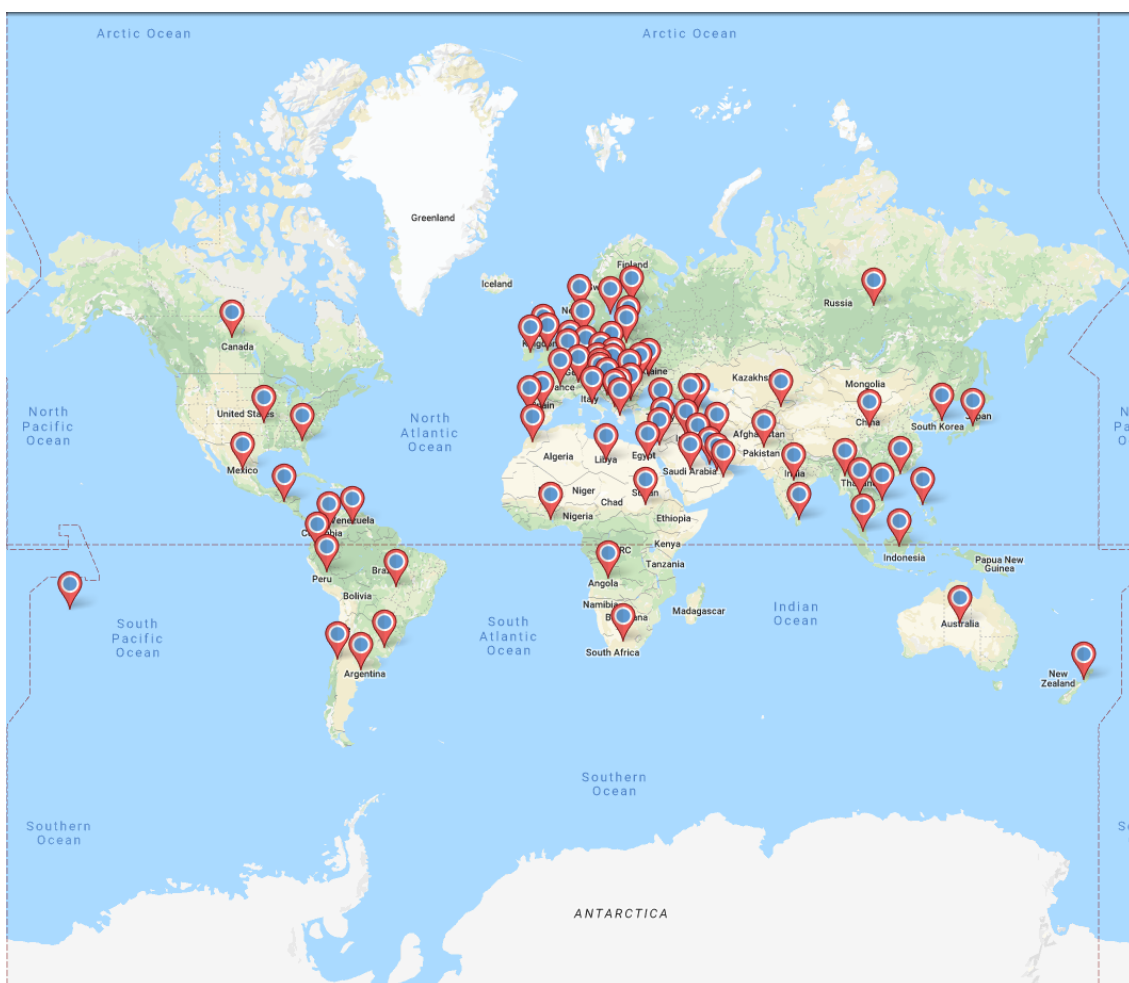
For full text of the history of the ECHSA CHSD [click here](#).

ECHSA CHSD HISTORY



ECHSA CHSD Registered Centers

[\(click for an interactive map here!\)](#)



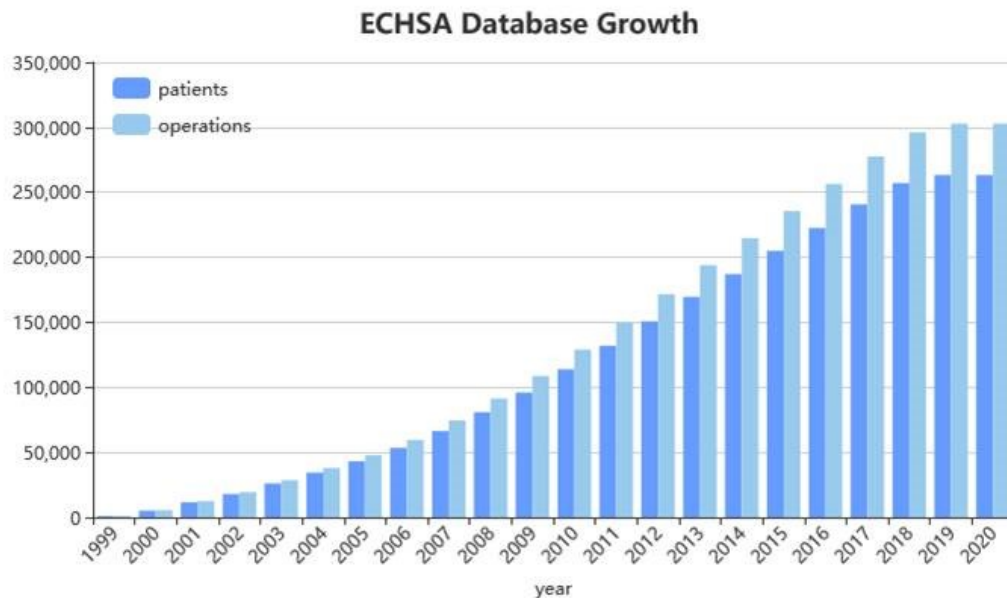
By January 2020:

- 398 centers from 85 countries are registered to the ECHSA CHSD
- >300,000 procedures from >260,000 patients are recorded in the ECHSA CHSD: that makes the 2nd biggest Congenital Heart Surgery Database in the

world

- 70% of the data comes from Europe
- The ECHSA CHSD is based in Europe as a worldwide database, open for everyone

ECHSA Database Growth



Historical Text

Treatment of congenital heart disease in 1911

O. Heubner, Lehrbuch der Kinderheilkunde, 1911, translated by Tjark Ebels, MD, PhD, FECS

Nowadays there is conservative, as well as interventional and surgical treatment for patients with congenital heart disease. Ongoing improvement in therapy and quality issues play a main role. Just one century ago treatment options for patients with a congenital heart defect were limited.

[Read about the treatment of congenital heart disease in 1911](#)



Current Congenital Heart Surgery Databases

Claudia Herbst, MD, with the contribution of Jeffrey P. Jacobs, MD and James St. Louis, MD

Quality assurance and quality management are essential tools in congenital heart surgery. In some countries an implementation of a quality control tool is regulated by law. Even if it's not an obligation, the responsibility as a physician caring for patients with congenital heart disease is to know the results of the treatment that he recommends as is stated by W.G. Williams.

For quality control, databases are helpful tools. To make a decision for a certain database there are some main points to consider:

- What do I get for my data?
- What should the data entry set cover?

- *What is the type of analysis, graphs and tables I need?*
- *With which area will I perform benchmarking?*

Click below to see an overview of current congenital databases including the STS, ECHSA and World Database.

[Read more>>](#)



How to Code - Patient's History

Claudia Herbst, MD

If you have a patient undergoing their second or even more reoperation, you may want to add their former operations in the Database as well.

In that case, you have two possibilities:

[Read more>>](#)



Database Reports: Periodical Results

Claudia Herbst, MD

The ECHSA CHSD offers several report forms to show periodical results.

As an example, three different report forms are shown and explained in this issue:

- Trends
- Quality of Care Charts
- Outcome prognosis

[Read more>>](#)



"Our thoughts are with our Chinese friends in this most difficult health situation!"

The ECHSA CHSD in China

Claudia Herbst, MD

The ECHSA CHSD is based in Europe as a worldwide Database, open for every country. Since 2006, Chinese centers have been taking part in the ECHSA CHSD. Currently, 13 centers from China are registered. Hence, the dataset includes large amount of data from both Europe and China.

This was a good reason to start the European-China project and compare patterns of practice and outcomes in Europe and China.

In December 2019, Prof. Bohdan Maruszewski and Dr. Claudia Herbst made a trip to China in regard to the project. Besides professional exchange and cultural discovery, the journey to China was a meeting of friends.

[Read more>>](#)



Database Studies - Early Database Publications

Claudia Herbst, MD

25 years after the initiation of congenital databases, the idea of the congenital database is still the same. As written in *"Virtues of a worldwide congenital heart surgery database"* by Mavroudis et al. in 2002, it is a tool for a congenital heart center to:

- accomplish programmatic evaluation

- monitor clinical outcomes
- comply with governmental requirements
- perform retrospective and prospective clinical studies
- participate in local, national, and global improvement strategies
- assess residency/fellowship programs
- use for resource allocation
- show major therapeutic trends
- show manpower issues
- deliver accurate information
- Databases are meant to be a tool for self-control of a congenital heart center.

Mavroudis C, Gevitz M, Elliott MJ, Jacobs JP, Gold JP. *Virtues of a worldwide congenital heart surgery database*. Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu. 2002;5:126-31. [\[DOI\]](#)



Data Verification

Zdzislaw Tobota, MD and Bohdan Maruszewski, MD, PhD

The purpose of the source data verification (SDV) is to ensure that reported data are accurate, complete, and verifiable from source documents and the conduct of the data collection (eg, the coding of diagnoses, procedures and complication) is in compliance with the recommendations.

Learn more about:

- How to apply for data verification
- The verification process
- The verification form
- The verification reports
- The verification certificate

[Read more>>](#)



Announcement:

ECHSA Symposium, Warsaw, Poland, June 17-20, 2020

The highlights of the meeting will be as follows:

- The Critical Aortic Stenosis from the foetus until childhood
- Postgraduate training in Congenital Heart Surgery
- The Quality Assurance in Congenital Heart Surgery - 25th Anniversary of ECHSA-CHSD



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*

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