

Swiss SOS Meeting Lugano 24.05.2018



Palazzo dei Congressi, Lugano, Room C - 16.00-17.00h

Present

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Excused

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1. Status update data, journal publications, studies

A quick outline is given on the development of patient data, contributors and scientific output within the last years.

The journal articles that have been published since the last meeting are briefly displayed:

- Acta Neurochir (Wien). 2017 Jul;159(7):1305-1312
- World Neurosurg. 2017 Jul;103:876-882.e1
- Acta Neurochir (Wien). 2018 Feb;160(2):253-260
- World Neurosurg. 2018 Mar;111:e199-e205
- Stroke. 2018 Feb;49(2):333-340. doi: 10.1161/STROKEAHA.117.019328
- Neurosurgery. 2018 Jan 17. doi: 10.1093/neuros/nyx609
- Neurosurg Rev. 2018 Feb 10. doi: 10.1007/s10143-018-0952-2
- Neurosurgery. 2018 May 11. doi: 10.1093/neuros/nyy155
- NEU-D-17-01466R2, titled "Impact of Aneurysm Multiplicity on Treatment and Outcome after Aneurysmal Subarachnoid Hemorrhage" → only accepted few days before the Swiss SOS meeting in the journal "Neurosurgery"

Most of these articles have been produced on data that was collected by Swiss SOS members that – sometimes – have moved on to different hospitals and/or positions. This should be acknowledged by those, who currently invest their valuable efforts into the Swiss SOS project.

Then, reference is given to the study registration under www.clinicaltrials.gov for:

- The Swiss SOS registry: <https://clinicaltrials.gov/ct2/show/NCT03245866>
- The hWFNS trial: <https://clinicaltrials.gov/ct2/show/NCT02304328>
- The MoCA – DCI study: <https://clinicaltrials.gov/ct2/show/NCT03032471>

For the structural changes in the Swiss SOS that have been agreed upon last year (inclusion of Lucerne as additional center, as well as inclusion of neuroradiology), as well as for authorship vs. contributorship issues (besides other reasons), it is pointed out that official bylaws are needed in order to make sure that the Swiss SOS project continues as "success story".

2. Current / future project update / proposal

- a. Schatlo/Fung/Stienen: Incidence, therapy and outcome paper (3 min)
→ Paper is in preparation for Lancet Neurol, followed by JNNP and Stroke, if rejected.

- b. Fung: hWFNS study (3 min)
 - From a target sample size of n=250, 198 patients have been included. All participating centers are asked to keep up the effort so the patient inclusion can finish this summer / fall.
 - The importance of complete datasets (including follow-up information) is stressed.
- c. Stienen: MoCA – DCI study (3 min)
 - Study protocol has been published in Neurosurgery (Neurosurgery. 2018 May 11. doi: 10.1093/neuros/nyy155)
 - From a target sample size of n=50 (part 2, monocentric), all patients have been included. Data has been analyzed and the results are interesting (Poster displayed at this conference). The paper has been written and is currently offered to highly ranked scientific journals (under review)
 - For the main study (part 1, multicentric), recruitment has been very good in Zurich, Lugano and Lausanne. In Basel, Bern, Geneva, and St.Gallen recruitment has been more difficult lately, and a separate meeting was held to discuss difficulties in recruitment and data collection. All centers agree to improve recruitment again. Zurich as main center offers logistic and financial support, if needed.
- d. Stienen: „Home time“ – a meaningful and robust outcome measure for SAH trials? (3 min)
 - “Home time” as indicator of patient outcome has been established for ischemic stroke, and the possibility of validating “Home time” as an indicator of patient outcome after aSAH is proposed. There is no objection to the fact that Dr. Stienen will tackle this project.
- e. D’Alonzo: Validation of CHESS and SDASH scores after aSAH (3 min)
 - Dr. D’Alonzo reminds of the validation projects lead by the Aarau group. Despite several email calls, the data is still lacking from Bern, Geneva and Lausanne. Those centers (responsible: the PI) are kindly asked to send the data to Dr. D’Alonzo in a reasonable time frame.
- f. Maldaner: “Machine Learning”-based Dynamic Outcome Prediction Model in aSAH (3 min)
 - Dr. Maldaner proposes to apply machine learning algorithms in order to develop prediction models for outcome with high accuracy. For this, he seeks collaboration with the computer science department of the ETH Zurich. He stresses the possibility of dynamic models that are updated on a daily basis in order to improve the predictive accuracy for the 1-year outcome. There is no objection to the fact that Dr. Maldaner will tackle this project.
- g. Röthlisberger: “Curent Basel projects”
 - Dr. Röthlisberger mentions that the three ongoing projects are progressing nicely: 1) Small ruptured communicating aneurysms in aSAH, 2) Impact of EVD-associated infection (EVDAI) on outcome following aSAH, and 3) Rerupture und Retreatment after coiling/stenting in aSAH.

3. SAHIT collaboration past / present / future

There have been issues concerning author-/contributorship and collaboration with the SAHIT group headed by Loch Macdonald. In the past weeks, there has been a lot of email collaboration with the PI/involved persons from each Swiss SOS center.

In essence, there is no further use of Swiss SOS data by the SAHIT group. However, there is a possibility for Swiss SOS members to access the SAHIT dataset for research purpose.

Once the bylaws have been created, the question whether or not SAHIT and Swiss SOS will seek future collaboration can be re-addressed. At the moment, responsibilities within the group and data ownership are not sufficiently clear to move forward at this end.

More information can be obtained from Loch Macdonald directly (MacdonaldLo@smh.ca), or via Martin Stienen (mnstienen@gmail.com)

4. Swiss SOS bylaws

On the occasion of this meeting there was a „status update“ on the development of bylaws. Prof. Fandino has only received the “version 1” of this legal document a day ago, and no other Swiss SOS members had the possibility to study it prior to the meeting. The content was briefly displayed, but only few details on the content could be discussed for reasons of time.

The next steps will be that the bylaws are circulated to all center PIs (and team). After some time to work through the content, there will be a further dedicated meeting for the „bylaws topic“ with the aim to accept reasonable bylaws in the sense of a “Vernehmlassung”.

The importance and the efforts taken to create these bylaws are acknowledged.

It is mentioned by several persons that care must be taken not to make the structures of the Swiss SOS too complex, while at the same time involving a broad range of junior and senior members. Furthermore, it is stressed that persons, who have been deeply involved in the Swiss SOS formerly but have finished their clinical work at one of the Swiss SOS centers, should continue to find acknowledgement in the Swiss SOS for a reasonable time.

5. Next meeting

- a. To be announced... (Probably there will be a next meeting soon, dedicated to the bylaws)
- b. Latest: at the occasion of the 4th SFCNS meeting, 23.10.-25.10.2019 (Lausanne)