



CERN MEDICIS – 11th Collaboration Board meeting

CERN, 6th December 2023

Minutes by C. Duchemin, T. Stora / DRAFT

Link to the agenda and MEDICIS proposals: <https://indico.cern.ch/event/1351618/>

Link to the MEDICIS proposals: <https://medicis.cern/approved-projects>

Agenda:

- Collaboration matters: MoU, financial, review updates
- Facility technical reports
- New proposals
- AOB

Participants (tbc):

Present:

Agata ROZYCKA

Charlotte DUCHEMIN

Susanta LAHIRI

Thierry STORA

Alessandro RAIMONDO

Cyril BERNERD

Edgars MAMIS

Karine MARTINEZ

Lurdes GANO

Muhammad INZAMMAM

Simone GILARDONI

Toms TORINS

Qaiser KHAN

David VIERTL

Eugenia HATZIANGELI

Laura LAMBERT

Frank BRUCHERTSEIFER

Nick van der MEULEN

Sean FREEMAN

Zeynep TALIP

John PRIOR

Approval of minutes of the 10th Board & Agenda – Thierry Stora, CERN

Minutes of the previous board are approved, with minor typos corrected and the following comments included:

NvdMeulen: no discussion had actually taken place on PSI side for the raise of the contribution, this should be addressed with the legal service.

Brussels university should read 'Vrije', it should say 'VUB' or 'Vrije Universiteit Brussel'.

Sean Freeman is affiliated to CERN, Alessandro Raimondo should be added to the list of participants

MoU Update, MEDICIS budget and financial report - Agata Rozycka, Alessandro Raimondo

Agata is presenting the expenses until 30 November 2023 as well as the financial contribution for the year 2023 at the same date and donations.

Simone commented on the future fundings and way of managing that will be discussed later. Alessandro said that we should make sure we are not neglecting the legal aspects that are important for us.

Feedback from PRISMAP - Thierry Stora

Thierry presents an update on the PRISMAP project. The 6th consortium meeting happened last week in Lisbon, hosted by CTN-medical faculty.

TEC

MEDICIS operation in 2023 – Charlotte Duchemin

Update on MEDICIS international review board - Simone Gilardoni

A review of MEDICIS happened few weeks ago. The purpose of the review was to assess the relevance of the operation of MEDICIS up to 2025 and beyond. LS3 will happen in 2026-2027. For the review, the international review panel was made of Cathy Cutler (BNL, USA), Rachel Eloirdi (EC), Ratib Osman (HUG), Ilyes Zahi (Novartis).

There will be a presentation of the review outcome in January 2024 to CSMAC (CERN Medical Applications Steering Committee). This committee selects, prioritizes, approves and coordinates all proposed medical application projects and their execution with the available budget. There will be a discussion with the management for future beyond 2025 since the current deadline for MEDICIS is considered as the end of the PRISMAP program.

Options for MEDICIS developments - Simone Gilardoni, Thierry Stora

LUNCH BREAK

Laura

Glovebox commissioned end of 2022.

Thomas asked if the ampoule from ILL could be cleaned directly there. PSI is facing the same issue with dirty ampoule. Nick commented that ILL is not a chemical lab and does not have the mean to do that.

Inzi

Charlotte commented that the fact we now have a HP Ge detector in-site allows us to perform this kind of research and development activities (Ra-224/Pb-212 and Sc release study).

MED-038 – David Viertl

David presented the results he obtained on the in-vivo generator Ba/Cs-128 and its application for the treatment of osteosarcoma. This project has been completed by deliveries of Cs-129 to study the uptake of Ba and Cs separately in the kidneys.

Outlook is to find a suitable in vitro model, consolidate the PET imaging and biodistribution.

Ulli Koster: Ba-135m could be an option.

MED-027 Strengthening theranostics or radionuclide therapy in Pakistan - Progress report

Qaiser Khan comments that he can give an update on the Ac-225 use.

Ulli and Michael asked about the new scanner.

Qaiser reports on Ra/Ac-225 use.

MED-015 44Sc production and study for clinical use - Progress Report

Ulli: best conditions would be with TiC and not refluoniration. Second best would then be the vanadium foils with laser?

Toms: happy to see the engagement of master students on top of PhD students from Latvia. Certain activities are ongoing back in Latvia. TS commented that there is a strong collaboration between MEDICIS and Latvia even before the start of MEDICIS and Latvia became associated member of CERN.

MED-034 Determination of 227Ac impurity in 225Ac using alpha spectrometry - Written report

TS presents the report on behalf of IRA/CHUV.

MED-036 Clinical and Pre-clinical Evaluation of Tb155/161 Theranostic Pair for Imaging and Radionuclide Targeted Therapy of Tumors in Pakistan

Ulli: Preclinical or study in clinical use for Tb-155: the idea is to do both.

What is the added value of Tb-155? Nice images could be done with Tb-161 already. If it is preclinical the added value of Tb-155 over Tb-166 is not so striking.

Proposal: Test shipment to be done for Tb-155 and then progress report to see how to move forward with this project.

MED-037 Alphamet LoI - metrology needs with alpha emitters – Sean Collins

Sean presents on behalf of a colleague at NPL. Alpha MET aims to address the unique and unmet metrological challenges of alpha emitters. This is a collaboration involving eight European NMI/Dis and BIPM.

Require high purity 100 MBqs Ra-225 and Ra-225. NPL will isolate Ac-225 and Pb-212 at NPL. Two productions of Ra-225 and Ra-224 in 2024 and 2025. 100 MBqs range.

Project supported.

Program 2024 – Charlotte DUCHEMIN

AOB

TEC commented (I missed a part?)