



Meeting report

Sweat test hands-on session 2023 (pre-ECFS conference workshop) 46th ECFS Conference 2023 - Vienna, Austria, June 6th, 2023

This session is an ECFS-DNWG initiative, supported by the ECFSPR (pharmacovigilance program) and ECFS Education.

Introduction

The welcome words were given by **Elke De Wachter** (*Brussels, Belgium*).

Following, **Natalia Cirilli** (*Ancona, Italy*), gave an overview of the ECFS-DNWG sweat test project. The aim of the sweat test project is to improve the quality of the performance of sweat testing in established and emerging CF services, including lower- and middle-income countries (LMIC) in and outside Europe.

The first step in this project, a European Survey, showed important variation with respect to sweat collection, analysis, and interpretation of the results, but also important variation in equipment available in European CF centres to perform a diagnostic sweat test. ^[1]

Subsequently, a "Standards of care guidance for sweat testing" was developed, aiming to provide a pragmatic real-world document for sweat testing in CF centres at geographically dispersed locations. ^[2]

This hands-on session is the third phase in the "Sweat test project". The aim is to support centres and help in problem solving to achieve acceptable standards for good sweat testing practice in their CF centre.

Next, she discussed two different sweat test methods: the Gibson-Cooke method and the Macroduct method, followed by an overview of the sweat analysis in the laboratory and the interpretation of the results.

Hands-on session

After the introduction, the participants had the opportunity to apply the theory in practice.

Four different methods to perform sweat testing were available on site: the Macroduct advance[®] system, Macroduct 3700[®] system, the Gibson-Cooke sweat test method (gauze/filterpaper) and a conductivity system. (Macroduct Sweat Check[®]). Each participant was able to perform a sweat test with one or more of the four methods available, under the supervision of an expert in the field. Printed hand-outs, demonstrating each step were also provided. Each sweat test method was recorded and will be used to make an educational tool (if quality of the recordings allows this). The educational tool will be available on the ECFS education platform (thanks to ECFS Education).

Elke De Wachter closed the sweat test hands-on session. At the end of the session, a certificate of attendance was provided for each participant.

We would like to thank the participants for this successful meeting.

We thank the following people for their support:

- ECFS DNWG: Galfy-Mühlbacher Valerie
- ECFS DNWG Sweat test project: Francois Vermeulen, Merica Aralica, Nguyen Khoa Thao
- ECFS Education: Chris Smith, Helen Chadwick,
- ECFS: Christine Dubois
- ECFS Patient Registry: Gkolia Panagiota, Lutz Naehrlich
- CFF : Edith Zemanick, Mary Cross
- ELiTech Group: Bryce McEuen, Dianna Poissant, Sarah Fiers, Cyril Vidal, Gerda Wendt, Andrea Shelmerdine
- Aubert Mairead
- Nina Bliznakova, Monika Razgyelová

18th June 2023,

Elke De Wachter

Nicholas Simmonds

Natalia Cirilli

Marlies Destoop

This session was kindly supported by:



References

1. Cirilli N, Southern KW, Buzzetti R, Barben J, Nährlich L, Munck A, et al. Real life practice of sweat testing in Europe. J Cyst Fibros [Internet]. 2018;17(3):325–32. Available from: <https://doi.org/10.1016/j.jcf.2017.09.002>
2. Cirilli N, Southern KW, Barben J, Vermeulen F, Munck A, Wilschanski M, Nguyen-Khoa T, Aralica M, Simmonds NJ, De Wachter E; ECFS Diagnostic Network Working Group. Standards of care guidance for sweat testing; phase two of the ECFS quality improvement programme. J Cyst Fibros. 2022 May;21(3):434-441. doi: 10.1016/j.jcf.2022.01.004. Epub 2022 Jan 19. PMID: 35063396.

Pictures taken during the session



Speaker: Natalia Cirilli (Ancona, Italy)





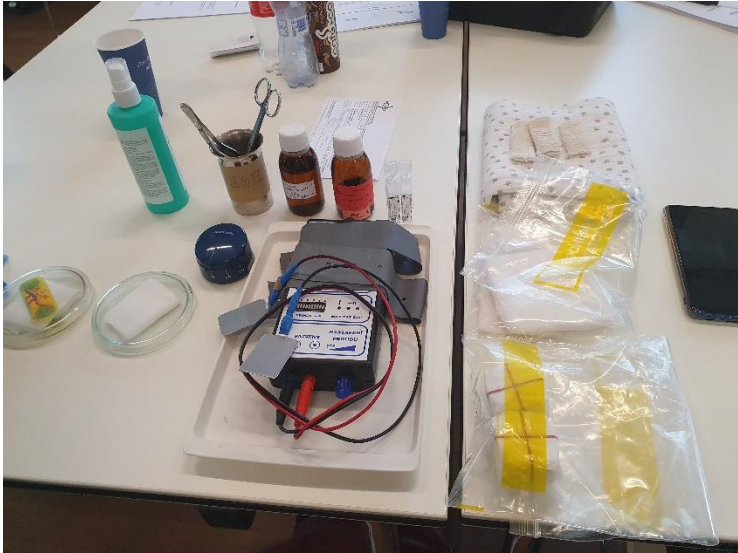


Macroduct advance®



Macroduct advance®





Gibson-Cooke sweat test method



Gibson-Cooke sweat test method

List of registered participants

21 participants: Armenia 2, Australia 1, Austria 1, Bulgaria 1, Croatia 2, Georgia 1, Greece 1, Hungary 1, Italy 1, Moldova 1, N Macedonia 4, Slovakia 2, Turkey 1, Ukraine 1.

- Amanda Thomsen, Australia
- Andrea Párniczky, Hungary
- Ani Vidoevska, N Macedonia
- Christine Rass, Austria
- Csilla-Enikő Szabo, Romania
- Daniela Gjorgievska, N Macedonia
- Dodo Agladze, Georgia
- Dolores Bzik, Croatia
- Gorana Levačić, Croatia
- Guergana Petrova, Bulgaria
- Halyna Makukh, Ukraine
- Ivana Arnaudova Danevska, N Macedonia
- Lisa Termini, Italy
- Monika Razgyelová, Slovakia
- Nelli Gasparyan, Armenia
- Nina Bliznakova, Slovakia
- Oxana Turcu, Moldova
- Satenik Harutyunyan, Armenia
- Stavros Doudounakis, Greece
- Tatjana Jakjovska Maretti, N Macedonia
- Tugba Sismanlar Eyuboglu, Turkey