

**1st European Conference
on Adrenal Imaging**
ENSAT Cancer Imaging Study Group
May 13.–14., 2011, Frankfurt/Main, Germany

Final Report

1. Summary

The aim of the first European Conference on Adrenal imaging was to join European experts in the field of adrenal imaging, to present current research data of the respective groups and particularly to further discuss a multicentric clinical trial for non-invasive characterization of indeterminate adrenal lesions (FAMIAN (Combined 18F-Fluorodeoxyglucose (FDG) and Metomidate Imaging for Adrenal Neoplasia) study).

The first part covered scientific topics on nuclear imaging with 18F-FDG and etomidate analogues (see also final program):

- 11C-metomidate PET in primary hyperaldosteronism
- FDG-PET in pheochromocytoma
- 123I-Iodometomidate-results and optimized evaluation procedure
- FDG-PET in adrenocortical tumours
- 11C-metomidate imaging in adrenal tumours
- Adrenal imaging with FETO
- New tools for diagnostic evaluation of primary hyperaldosteronism – preclinical studies
- 131I-Iodometomidate treatment of advanced adrenocortical carcinoma

The second part addressed the discussion and further development of the FAMIAN study protocol. Study relevant topics like funding, statistics, the development of e-CRFs, tracer synthesis and distribution according to GMP criteria were discussed.

The conference was highly stimulating and the first meeting bringing together leading international experts in the field of adrenal imaging. Participants came from France, Italy, UK, Germany, Sweden and the Netherlands). The meeting has strengthened and further

expanded already existing networks (e.g. the European Network for the Study of Adrenal Tumors).

2. Description of the Scientific Content of the first European Conference on Adrenal Imaging

During the scientific part Marc Gurnell from Cambridge, UK presented his data on ¹¹C-metomidate PET imaging in the differential diagnosis of primary hyperaldosteronism. He could demonstrate that ¹¹C-metomidate can be helpful for non-invasive differentiation in a substantial number of patients. New developments regarding specific tracers for aldosterone synthase were shown by Stefanie Hahner, Würzburg, Germany. Henri Timmers from Nijmegen, Netherlands demonstrated that FDG-PET is highly suitable for diagnostic evaluation of pheochromocytoma and paraganglioma. The important role of FDG-PET imaging in the determination of malignancy in indeterminate adrenal masses was discussed by Florenced Tenenbaum, Paris, France. Recent results on a clinical diagnostic trial on ¹²³I-iodometomidate-SPECT for molecular imaging of adrenal tumours and the therapeutic potential of ¹³¹I-iodometomidate for treatment of advanced adrenocortical carcinoma were demonstrated by the Würzburg group (Michael Kreissl and Stefanie Hahner). Markus Mitterhauser and Martha Hoffman from Vienna, Austria presented their preclinical and clinical experience in adrenal imaging with the analogue PET tracer fluoretomidate which also has high potential as a tracer for differentiation between adrenocortical and non-adrenocortical tissue.

The presentations were all intensively discussed, and led to new ideas and, importantly, to new networking.

3. Assessment of the results and impact of the conference on the future direction of the field

The first European Conference on Adrenal Imaging has formed the basis for a new European network on adrenal imaging. Current, mainly unpublished data were exchanged. Furthermore, the international FAMIAN trial could be initiated and the protocol was intensively discussed. It can be expected that this network will lead to the establishment of innovative imaging concepts and to significant improvements in the diagnostic evaluation of patients with adrenal tumours.

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Oberdürrbacher Str. 6
97080 Würzburg

List of participants

Bruno	Allolio	Würzburg	Germany	Speaker
Valentina	Berti	Florence	Italy	
Felix	Beuschlein	Munich	Germany	
Maria-Verena	Cicala	Padua	Italy	
Martin	Gotthardt	Nijmegen	Netherlands	
Marc	Gurnell	Cambridge	UK	Speaker
Stefanie	Hahner	Würzburg	Germany	Speaker
Verena	Hartung	Essen	Germany	
Alexander	Haug	Munich	Germany	
Martha	Hoffmann	Vienna	Austria	Speaker
Michael	Kreissl	Würzburg	Germany	Speaker
Massimo	Mannelli	Florence	Italy	
Markus	Mitterhauser	Vienna	Austria	Speaker
Hans Helge	Müller	Munich	Germany	Speaker
Andreas	Schirbel	Würzburg	Germany	
Anthony	Stell	Birmingham	UK	Speaker
Florence	Tenenbaum	Paris	France	Speaker
Henri	Timmers	Nijmegen	Netherlands	Speaker

Information / Organization

meeting venue Leonardo Hotel Frankfurt Airport
Waldstraße 76
60528 Frankfurt/ Main
www.leonardo-hotels.com/
[germany-hotels/frankfurt-hotels/
frankfurt-airport-hotel](http://germany-hotels/frankfurt-hotels/frankfurt-airport-hotel)

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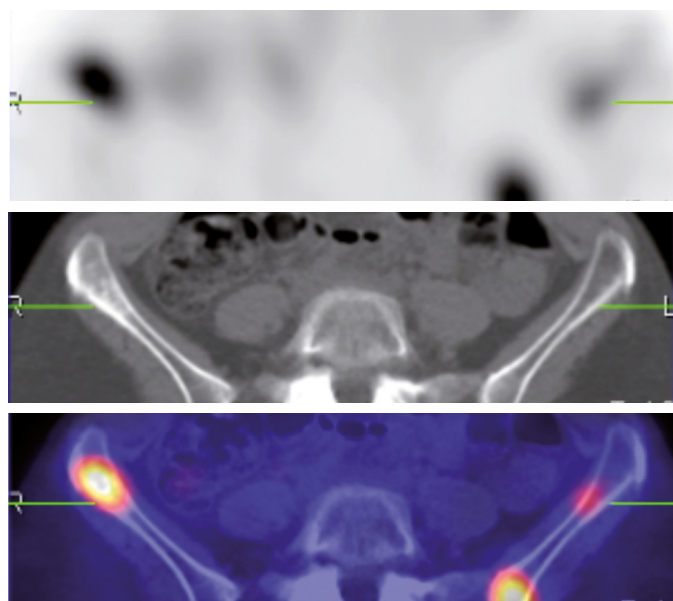
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13.–14.5.2011
Frankfurt, Germany



Program

Friday, 13.5.2011

14:00
–16:15

Presentation of current research of respective groups:

- ▶ 11C-metomidate PET in primary hyperaldosteronism
(*Mark Gurnell, Cambridge*)
- ▶ FDG-PET in pheochromocytoma
(*Henri Timmers, Nijmegen*)
- ▶ 123I-Iodometomidate-results and optimized evaluation procedure
(*Michael Kreissl, Würzburg*)
- ▶ FDG-PET in adrenocortical tumours
(*Florence Tenenbaum, Paris*)
- ▶ 11C-metomidate imaging in adrenal tumours
(*Britt Skogseid, Uppsala*)
- ▶ Adrenal imaging with FETO
(*Markus Mitterhauser, Vienna*)
- ▶ New tools for diagnostic evaluation of primary hyperaldosteronism – preclinical studies
(*Stefanie Hahner, Würzburg*)

16:15
–16:45

coffee break

16:45
–19:00

FAMIAN (Combined 18F-Fluorodeoxyglucose (FDG) and Metomidate Imaging for Adrenal Neoplasia) study meeting part 1

- ▶ Tracer distribution
(*Schirbel/Allolio*)
- ▶ Protocol discussion
(*Allolio*)
- ▶ Statistical aspects
(*Hans Helge Müller*)
- ▶ Regulatory issues, insurance
(*Allolio*)
- ▶ Funding (BMBF)
(*Allolio*)
- ▶ e-CRF
(*Anthony Stell*)
- ▶ miscellaneous

19:30

Dinner

Saturday, 14.5.2011

9:00–
ca. 13:30

FAMIAN study meeting part 2

13:30

Lunch

