

GoCARB

TYPE 1 DIABETES SELF-MANAGEMENT AND CARBOHYDRATE COUNTING:
A COMPUTER VISION BASED APPROACH

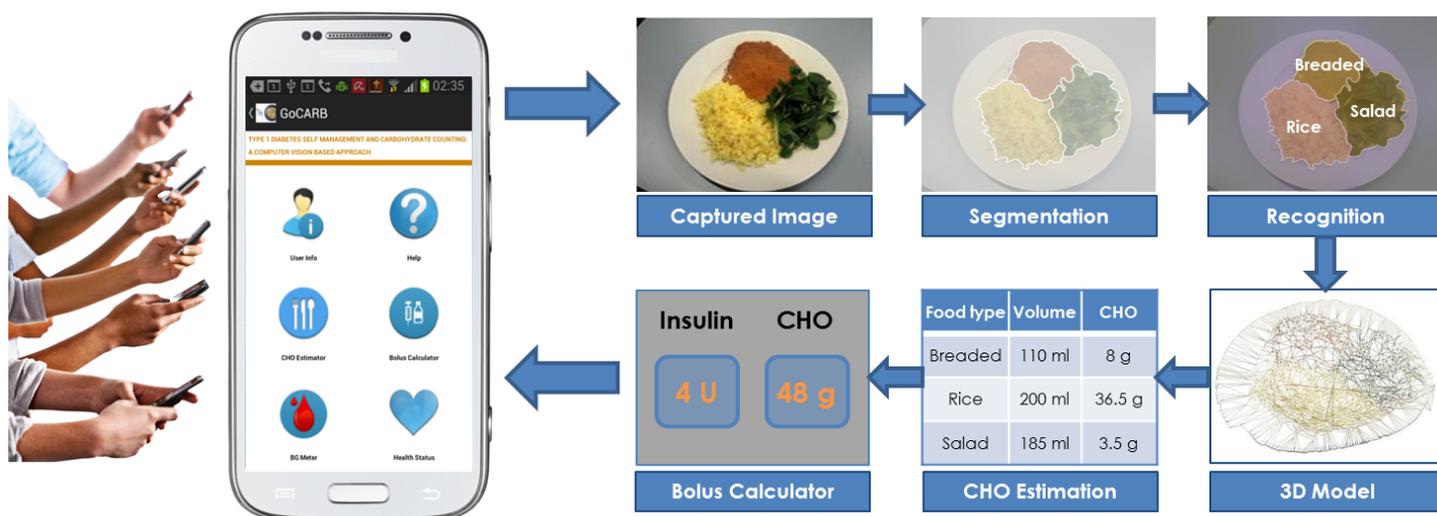
5.8 mmol/L
MEAL TIME
CARBS
HEALTH
... U



ISSUE 4

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GOCARB: THE END?



GoCARB is a Marie Curie Industry-Academia Partnerships and Pathways project funded by the European Commission's 7th Framework Programme. The aim of GoCARB is, through a series of inter-sectorial staff secondments, to develop a mobile phone application which will estimate the carbohydrate content of a meal in near real time. This information can be used to optimize the insulin intake of individuals with type 1 diabetes.

The GoCARB project is now in its final year (of a project duration of 4 years), and the team has now entered the next instalment of system evaluation; where GoCARB is given to individuals with type 1 diabetes in clinical trials during 2015 (for more information, see the article on page 5). Other highlights in this issue include some additional information regarding the very first international conference on Multimedia Assisted Dietary Management (MADiMa) which has been inspired by our work on GoCARB. You can read all about it on page 2 of this issue.

We do hope you enjoy this final issue, and please do not forget to check on www.gocarb.eu for all the latest news,.

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NEWS FROM GOCARB

1

Organization of MADiMa2015 Workshop

As reported in our last newsletter, the GoCARB team is proud to announce that the **1st International Workshop on Multimedia Assisted Dietary Management** is to be held within the framework of the 18th International Conference on Image Analysis and Processing (<http://ICIAP2015.eu>; 7.—11. September 2015 in Genoa, Italy).

MADiMA2015

1st International Workshop on Multimedia Assisted Dietary Management

In conjunction with the 18th International Conference on Image Analysis and Processing

Genova, Italy, September 8th 2015

The workshop is dedicated to the improved monitoring and understanding of food intake by bringing together researchers from the diverse fields of engineering, computer science and nutrition.

We look forward to welcoming as many of you as possible to Genoa!

More information can be found on our dedicated website at <http://madima.org/>

Two invited speakers have confirmed their participation at the MADiMa2015 workshop:

- Prof. Edward Sazonov, Department of Electrical and Computer Engineering, University of Alabama, USA
- Dr. Gerald Cultot, Research Programme Officer – European Commission, Directorate-General Communications Networks, Content and Technology, Brussels, Belgium

The workshop's proceedings will be published in the Springer Lecture Notes in Computer Science (LNCS) series, while the workshop organizers will investigate the possibility for the authors of the accepted papers to be invited to submit an extended version of their papers to an open call special issue of a journal in the involved field (e.g. IEEE Journal of Biomedical and Health Informatics).

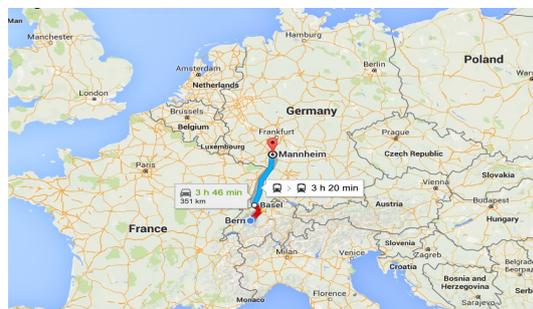
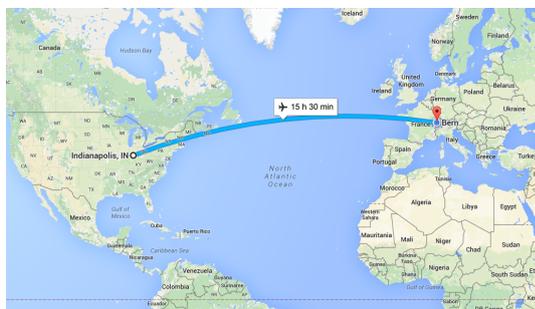
The workshop organizers would like to thank ROCHE for supporting financially the organization of the 1st International Workshop on Multimedia Assisted Dietary Management (MADiMa2015)



2 GoCARB in Numbers

110

Man Months of Recruitments and Secondments
of GoCARB fellows from USA to Switzerland and from Switzerland to Germany



> 150,000 km - Distance travelled for Recruitments and Secondments

People from 11 nationalities were involved in the GoCARB project



5

000+
Food images captured and annotated for the automatic food recognition





40+

Talks, lectures, demonstrations and presentation in events organized by third parties.

30+



Publications in international scientific journals, conference proceedings, abstracts in national and international conferences and workshops, and patents

3 Conference

Annual meeting of the German Diabetic Association



The GoCARB system was presented by Dr. Daniel Rhyner during the annual congress of the German Diabetic Association, which took place in Berlin in May 2015.

The congress is an annual scientific conference and every year it is attended by approximately 6,000 participants, most of them coming from German-speaking countries.

4

GoCARB Clinical Trial

We are proud to announce that the GoCARB team has begun the clinical trial! The trial will involve 20 adult individuals with Type 1 diabetes under sensor-augmented pump therapy. Each participant will use GoCARB for one month in his/her every day life!

By end of August 2015, two participants started using GoCARB!

It is too soon to give any feedback, but please do check our website (gocarb.eu) for more information on the trial!

**a****b****c****d**

a Members of the GoCARB research and development team (Joachim Dehais and Stergios Christodoulidis)

b The medical team checking the details before the trial start (George Rosenberg, Lia Bally, Daniel Rhyner)

c Introducing GoCARB to the 1st participant (introduction by Marios Anthimopoulos and Daniel Rhyner)

d Let's try GoCARB !!!!!

GOCARB CONSORTIUM LIST

25 SCIENTISTS, 11 NATIONALITIES, 3 PARTNERS, ONE PROJECT!

1 Diabetes Technology Research Group
ARTORG Center for Biomedical Engineering Research
University of Bern

Division of Endocrinology, Diabetes and Clinical Nutrition
Bern University Hospital "Inselspital"

u^b

u^b
**UNIVERSITÄT
BERN**

2 Roche Diagnostics GmbH, Mannheim, Germany



3 Roche Diagnostics Operations Inc, Indianapolis, USA

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