The CARNATION Study Group

Xueying Zheng MD¹; Daizhi Yang MD²; Sihui Luo MD¹; Jinhua Yan PhD²; Huixia Yang MD³; Xiaohui Guo MD⁴; Fang Liu MD⁵; Xingwu Ran MD⁶; Xinhua Xiao MD⁷; Dalong Zhu MD⁸; Ji Hu MD⁹; Zhiguang Zhou MD¹⁰; Tao Yang MD¹¹; Jiajun Zhao MD¹²; Qin Huang MD¹³; Hongyu Kuang MD¹⁴; Zhen Liang MD¹⁵; Guijun Qin MD¹⁶; Danqing Chen MD¹⁷; Shandong Ye MD¹; Yan Wu MD¹⁸; Jianmin Niu MD¹⁹; Tianrong Pan MD²⁰; Qiu Zhang MD²¹; Yunfeng Shen MD²²; Minxiang Lei MD²³; Yan Zhang MD²²; Bin Yao MD²; Wei Bao PhD²⁴; Leif Groop PhD²⁵; Anne Dornhorst FRCP²⁶; Jianping Weng PhD^{1,2}

- Department of Endocrinology. The First Affiliated Hospital of USTC, Division of Life Sciences and Medicine, University of Science and Technology of China, Hefei, China.
- Department of Endocrinology and Metabolism. The Third Affiliated Hospital of Sun Yat-sen University, Guangzhou, China.
- ³ Department of Obstetrics and Gynecology. Peking University First Hospital, Beijing, China.
- ⁴ Department of Endocrinology and Metabolism. Peking University First Hospital, Beijing, China.
- Department of Endocrinology and Metabolism. Shanghai Jiao Tong University Affiliated Sixth People's Hospital, Shanghai, China.
- ⁶ Department of Endocrinology and Metabolism. West China Hospital, Chengdu, China.
- Department of Endocrinology and Metabolism. Peking Union Medical College Hospital, Beijing, China.
- ⁸ Department of Endocrinology and Metabolism. Nanjing Drum Tower Hospital, Nanjing, China.
- Department of Endocrinology and Metabolism. The Second Affiliated Hospital of Soochow University, Suzhou, China.
- Department of Endocrinology and Metabolism. The Second Xiangya Hospital of Central University, Changsha, China.
- ¹¹ Department of Endocrinology and Metabolism. Jiangsu Province Hospital, Nanjing, China.
- ¹² Department of Endocrinology and Metabolism. Shandong Provincial Hospital, Jinan, China.
- ¹³ Department of Endocrinology and Metabolism. Changhai Hospital, Shanghai, China.
- Department of Endocrinology and Metabolism. The First Affiliated Hospital of Harbin Medical University, Harbin, China.
- Department of Endocrinology and Metabolism. Shenzhen Second People's Hospital, the First Affiliated Hospital of Shenzhen University, Shenzhen, China.
- Department of Endocrinology and Metabolism. The First Affiliated Hospital of Zhengzhou University, Zhengzhou, China.
- Department of Obstetrics and Gynecology. Women's Hospital, Zhejiang University School of Medicine, Hangzhou, China.
- Department of Endocrinology and Metabolism. Shenzhen People's Hospital, the Second Clinical Medical College of Jinan University, Shenzhen, China.
- Department of Obstetrics and Gynecology. Shenzhen Maternity and Child Healthcare Hospital Affiliated to Southern Medical University, Shenzhen, China.
- Department of Endocrinology and Metabolism. The Second Affiliated Hospital of Anhui Medical University, Hefei, China.

- Department of Endocrinology and Metabolism. The First Affiliated Hospital of Anhui Medical University Hefei, China.
- ²² School of medicine, Nanchang University, Nanchang, China.
- Department of Endocrinology and Metabolism. Xiangya Hospital of Central South University, Changsha, China.
- ²⁴ Department of Epidemiology, College of Public Health, University of Iowa, City of Iowa, USA.
- Lund University Diabetes Centre, Department of Clinical Sciences, Lund University, Malmö, Sweden
- ²⁶ Faculty of Medicine, Imperial College London, London, UK