

Supplementary Table 1. List of sites and investigators.

Site	Investigator
Ashiya Central Hospital	Koji Matsushita, Manabu Narisawa
Aso Clinic	Katsumi Aso, Yuko Ando, Fumihiko Sato
Hagiwara Central Hospital	Emiko Morita, Keiichi Torimoto
Hayashi Clinic	Isao Hayashi
Inokuchi Clinic	Nobuo Inokuchi
Japan Community Health Care Organization Osaka Hospital	Masahiro Hatazaki, Arichika Deguchi, Azusa Shiraki
Juntendo Tokyo Koto Geriatric Medical Center (Department of Medicine, Diabetology and Endocrinology)	Ayako Kitamura, Eri Tanabe, Hidenori Yoshii, Tomio Onuma, Tomo Nakajima
Juntendo University Graduate School of Medicine (Department of Metabolism & Endocrinology)	Eisuke Yasunari, Hideyoshi Kaga, Hiroaki Sato, Hiroataka Watada, Kagemi Takeno, Luka Suzuki, Miwa Himuro, Syuhei Aoyama, Takashi Hunayama, Takehiro Katahira, Takeshi Miyatsuka, Tomoya Mita, Yuya Nishida
Juntendo University Nerima Hospital (Department of Medicine, Diabetes and Endocrinology)	Koji Komiya
Kanda Naika Clinic	Satoshi Kawashima
Kansai Rosai Hospital (Diabetes and Endocrinology)	Tsunehiko Yamamoto
Kihara Diabetes Clinic	Yasuyuki Kihara
Kosugi Medical Clinic	Keisuke Kosugi
Kawasaki Hospital (Department of Internal Medicine)	Akihito Otsuka, Jun Murai
Matsuoka Medical Clinic	Hirofumi Matsuoka
Misaki Naika Clinic	Nobuichi Kuribayashi
Japan Labour Health and Safety	Tadashi Arao, Kei Sugai

Organization Kyushu Rosai Hospital, Moji Medical Center (Department of Internal Medicine)	
Musashino Family Clinic	Yuichi Kojima
Nakakinen Clinic	Maiko Nakata, Miyoko Saito, Takeshi Osonoi, Yusuke Osonoi
Nakama Municipal hospital	Kohei Uriu, Yosifumi Inada, Kanako Suzuka, Ichiro Takagi
National Hospital Organization Osaka National Hospital (Diabetes Center)	Ken Kato
Nishida Keiko Diabetes Clinic	Keiko Nishida, Akira Kurozumi, Fumi Uemura, Keiichi Torimoto, Maiko Hajime, Manabu Narisawa, Satomi Sonoda, Kumiko Tidiwa
Osaka General Medical Center (Department of Diabetes and Endocrinology)	Youhei Fujita, Sayoko Shimizu, Masahisa Hata, Yutaka Umayahara
Osaka Police Hospital (Department of Endocrinology and Metabolism)	Tetsuyuki Yasuda
Osaka Rosai Hospital	Ryomoto Kayoko
Osaka University Graduate School of Medicine (Department of Metabolic Medicine)	Iichiro Shimomura, Naoto Katakami, Takaaki Matasuoka, Mitsuyoshi Takahara, Kazuyuki Miyashita, Hiroyo Ninomiya, Naohiro Taya
Sasaki Hospital	Shinichiro Mine, Kenji Koikawa
School of Medicine, University of Occupational and Environmental Health, Japan (First Department of Internal Medicine)	Yosuke Okada, Akira Kurozumi, Manabu Narisawa, Maiko Hajime, Fumi Uemura, Satomi Sonoda, Kenichi Tanaka, Takashi Otsuka
Secomedic Hospital	Satomi Wakasugi, Tomoya Mita
Shiraiwa Medical Clinic	Toshihiko Shiraiwa
Taneda Clinic	Yoshinobu Taneda
Takaishi Naika Ichoka Clinic	Tomoya Mita
Tobata General Hospital	Kazuko Kanda

(Department of Internal Medicine)

Wakamatsu Hospital of the

University of Occupational and Torimoto Keiichi, Nishio Kousuke

Environmental Health

Sites and investigators are listed in alphabetical order.

Supplementary Table 2. List of sites, committee name and reference number.

Site	Committee name	Reference Number
Ashiya Central Hospital	The ethics committee of Fukuda clinic	IRB-20181020-4
Aso Clinic	The ethics committee of Fukuda clinic	IRB-20181020-4
Hagiwara Central Hospital	The ethics committee of Fukuda clinic	IRB-20181020-4
Hayashi Clinic	The ethics committee of Fukuda clinic	IRB-20180721-2
Inokuchi Clinic	The ethics committee of Fukuda clinic	IRB-20180915-2
Japan Community Health Care Organization Osaka Hospital	The ethics committee of Japan Community Health Care Organization Osaka Hospital	2018-24
Juntendo Tokyo Koto Geriatric Medical Center (Department of Medicine, Diabetology and Endocrinology)	The ethics committee of Juntendo Tokyo Koto Geriatric Medical Center	103-14
Juntendo University Graduate School of Medicine (Department of Metabolism & Endocrinology)	The Hospital ethics committee of Juntendo University Hospital	17-298
Juntendo University Nerima Hospital (Department of Medicine, Diabetes and Endocrinology)	The ethics committee of Juntendo University Nerima Hospital	Rin 30-24
Kanda Naika Clinic	The ethics committee of Fukuda clinic	IRB-20180915-2
Kansai Rosai Hospital (Diabetes and Endocrinology)	The ethics committee of Kansai Rosai Hospital	18CO47g
Kihara Diabetes Clinic	The ethics committee of Fukuda clinic	IRB-20181020-4

Kosugi Medical Clinic	The ethics committee of Fukuda clinic	IRB-20180721-2
Kawasaki Hospital (Department of Internal Medicine)	The ethics committee of Kawasaki Hospital	1-4-1
Matsuoka Medical Clinic	The ethics committee of Fukuda clinic	IRB-20181020-4
Misaki Naika Clinic	The ethics committee of Fukuda clinic	IRB-20180721-2
Japan Labour Health and Safety Organization Kyushu Rosai Hospital, Moji Medical Center (Department of Internal Medicine)	The ethics committee of Moji Medical Center	30-4
Musashino Family Clinic	The ethics committee of Fukuda clinic	IRB-20180818-4
Nakakinen Clinic	The ethics committee of Nakakinen Clinic	none
Nakama Municipal hospital	The ethics committee of Fukuda clinic	IRB-20180818-4
National Hospital Organization Osaka National Hospital (Diabetes Center)	The ethics committee of National Hospital Organization Osaka National Hospital	18109
Nishida Keiko Diabetes Clinic	The ethics committee of Fukuda clinic	IRB-20180915-2
Osaka General Medical Center (Department of Diabetes and Endocrinology)	The ethics committee of Osaka General Medical Center	CRB-18-01-004
Osaka Police Hospital (Department of Endocrinology and Metabolism)	The ethics committee of Osaka Police Hospital	924
Osaka Rosai Hospital	The ethics committee of Osaka Rosai Hospital	30-37

Osaka University Graduate School of Medicine (Department of Metabolic Medicine)	Osaka University Clinical Research Review Committee	18112
Sasaki Hospital	The ethics committee of Fukuda clinic	IRB-20181020-4
School of Medicine, University of Occupational and Environmental Health, Japan (First Department of Internal Medicine)	The ethics committee of University of Occupational and Environmental Health, Japan	H30-086
Secomedic Hospital	The ethics committee of Secomedic Hospital	2018-02
Shiraiwa Medical Clinic	The ethics committee of Fukuda clinic	IRB-20180519-4
Taneda Clinic	The ethics committee of Fukuda clinic	IRB-20180721-2
Takaishi Naika Ichoka Clinic	The ethics committee of Fukuda clinic	IRB-20180421-1
Tobata General Hospital (Department of Internal Medicine)	The ethics committee of Fukuda clinic	IRB-20181020-4
Wakamatsu Hospital of the University of Occupational and Environmental Health	The ethics committee of University of Occupational and Environmental Health, Japan	H30-086
