

IMAGE OPEN

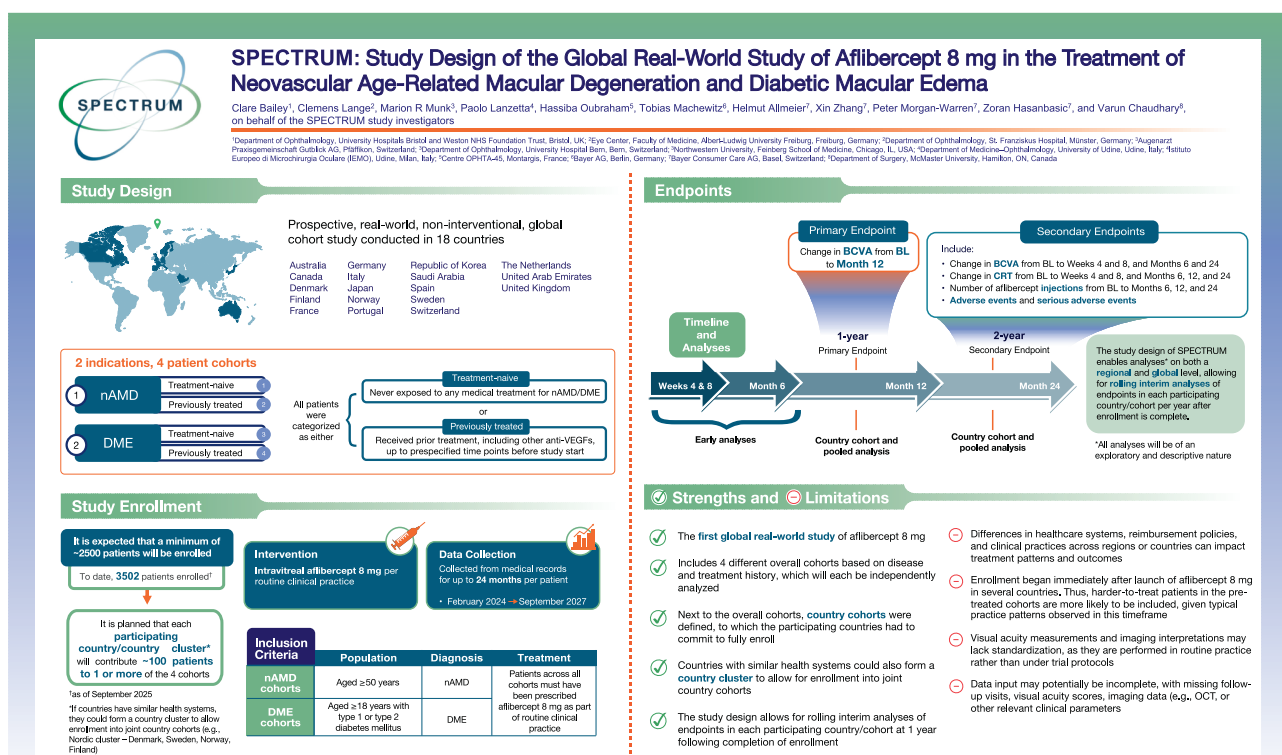


Infographic: SPECTRUM: study design of the global real-world study of aflibercept 8 mg in the treatment of neovascular age-related macular degeneration and diabetic macular edema

Clare Bailey¹✉, Clemens Lange^{2,3}, Marion R. Munk^{4,5,6}, Paolo Lanzetta^{7,8}, Hassiba Oubraham⁹, Tobias Machewitz¹⁰, Helmut Allmeier¹¹, Xin Zhang¹¹, Peter Morgan-Warren¹¹, Zoran Hasanbasic¹¹, Varun Chaudhary¹² and on behalf of the SPECTRUM study investigators*

© The Author(s) 2026

Eye; <https://doi.org/10.1038/s41433-025-04140-2>



¹Department of Ophthalmology, University Hospitals Bristol and Weston NHS Foundation Trust, Bristol, UK. ²Eye Center, Faculty of Medicine, Albert-Ludwig University Freiburg, Freiburg, Germany. ³Department of Ophthalmology, St. Franziskus Hospital, Münster, Germany. ⁴Augenarzt Praxisgemeinschaft Gutblick AG, Pfäffikon, Switzerland. ⁵Department of Ophthalmology, University Hospital Bern, Bern, Switzerland. ⁶Northwestern University, Feinberg School of Medicine, Chicago, IL, USA. ⁷Department of Medicine-Ophthalmology, University of Udine, Udine, Italy. ⁸Istituto Europeo di Microchirurgia Oculare (IEMO), Milan, Udine, Italy. ⁹Centre OPHTA-45, Montargis, France. ¹⁰Bayer AG, Berlin, Germany. ¹¹Bayer Consumer Care AG, Basel, Switzerland. ¹²Department of Surgery, McMaster University, Hamilton, ON, Canada. *A list of authors and their affiliations appears at the end of the paper. ✉email: Clare.Bailey@uhbw.nhs.uk

Received: 15 September 2025 Revised: 6 October 2025 Accepted: 17 November 2025

Published online: 16 January 2026

DATA AVAILABILITY

Data sharing is not applicable to this article as no datasets were generated or analysed during the current study.

ACKNOWLEDGEMENTS

The authors acknowledge Anshul Tank, PharmD, an employee of Bayer, for medical writing support for the development of this infographic, in accordance with Good Publication Practice guidelines (<https://www.acpjournals.org/doi/10.7326/M22-1460>). The authors would also like to acknowledge the principal investigators of the SPECTRUM study: Adrian Fung, Amy Cohn, Andrew Chang, Devinder Chauhan, Gerald Liew, Jennifer Arnold, Paul Mitchell, Sanjeewa Wickremasinghe, Arif Samad, Brian Ballios, Cynthia Qian, David Lederer, Donald Nixon, Keyvan Koushan, Netan Choudhry, Parnian Arjmand, Raman Tuli, Robert Gizicki, Sohel Somani, Thomas Sheidow, Varun Chaudhary, Wai Ching Lam, Lasse Jørgensen Cehofski, Michael Larsen, Michael Spangsberg, Hannele Uusitalo-Järvinen, Raimo Tuuminen, Alexandre Bourhis, Aude Couturier, Audrey Giocanti-Auregan, Benjamin Wolff, Corinne Dot, David Sayag, Eric Souied, Flore De Bats, Frank Becquet, Frédéric Matonti, Hassiba Oubraham-Mebroukine, Hessam Razavi, Isabelle Aubry-Quenet, Joël Uzzan, Laurent Berthon, Laurent Kodjikian, Laurent Velasque, Marie-Noëlle Delyfer, Mathieu Lehmann, Mathilde Gallice, Mélanie Tessier, Olivia Zambrowski, Philippe Schauer, Pierre-henry Gabrielle, Salomon Cohen, Stéphanie Baillif, Thi Ha Chau Tran, Vincent Gualino, Xavier Benouaich, Alexander Daudrich, Andreas Berlin, Andreas Stahl, Astrid Sader-Moritz, Ben Mehrinfar, Christian Karl Brinkmann, Christoph Arnholdt, Clemens Lange, Costinlie Mihaescu, Erik Beeke, Fabian Höhn, Hüsnü Berk, Ines Lanzl, Joachim Wachtlin, Kai Januschowski, Katrin Lorenz, Marc Schargus, Maria-Andreea Gamulescu, Nikolaus Feucht, Oliver Zeit, Philipp Müller, Ralf Schmitt, Roxana Fulga, Sabine Baumgarten, Simo Murovski, Stefan Schrader, Svenja Deuchler, Tim U. Krohne, Tobias Duncker, Tobias Peters, Ulrich Thelen, Vassiliki Romanou-Papadopolou, Vinodh Kakkassery, Walter Sekundo, Alfonso Savastano, Daniele Tognetto, Enrico Borrelli, Federico Ricci, Flavia Chiosi, Francesco Maria Bandello, Francesco Viola, Giovanni Staurengi, Leonardo Mastropasqua, Luca Ventre, Marco Lupidi, Maria Vadalà, Niccolò Castellino, Paolo Lanzetta, Raffaella Rosa, Aoyagi Koji, Chikako Hara, Fujimura Shigeto, Fujiwara Shintaro, Hagiwara Akira, Handa Sou, Ichikawa Reiko, Kaga Tatsushi, Kaneda Masahiro, Kawano Kenichi, Kimura Hideya, Kimura Yugo, Kishino Genichiro, Kondo Nagako, Kuribara Isao, Masahiko Sugimoto, Mishima Soichiro, Miyagi Hidetaka, Miyahara Shinsuke, Mori Toshio, Nakamura Yosuke, Nishimura Tomohisa, Okado Satoshi, Sato Hiroaki, Sentaro Kusuhaara, Sugita Ichihiro, Takagi Mariko, Takasu Ippei, Umeda Naoyasu, Yamane Ken, Yamazaki Kenichiro, Yuji Kato, Angela Huiskamp, Hans Vingerling, Janneke Van Lith-Verhoeven, Marianne Smeets, Sankha Amarakoon, Yara Lechanteur, Yvonne de Jong-Hesse, Marius Dalby, Tayyab Ahmad, Antônio Campos, Carlos Marques Neves, Diogo Cabral, João Nascimento, João Pedro Marques, José Roque, Maria Picoto, Ahmed Ibrahim, Hassan Al-Dhibi, Hussein Elgendy, Maher Almalis, Marwan Abouammoh, Christopher Seungkyu Lee, Daniel Duck-Jin Hwang, Don-Il Ham, HanJoo Cho, Iksoo Byon, Kyu Hyung Park, Min Sagong, Se Joon Woo, Young-Joon Jo, Alvaro Galván Gallego, Amancia Mateos Hernández, Ana Isabel Oca Lázaro, Bárbara Delás Alós, Cristina Irigoyen Laborra, Daniel Aliseda Pérez de Madrid, Elena Rigo Oliver, Erika Vázquez Cruchaga, Estanislao Gutiérrez Sánchez, Francisco Antonio Cabrera López, Francisco Javier Ascaso Puyuelo, Gustavo Fernández-Baca Vaca, Javier Zarranz Ventura, Luis Arias Barquet, María Concepción Rodríguez Villace, María Victoria Gómez Resa, Nuria Olivier Pascual, Óscar Ruiz Moreno, Renzo Renato Portilla Blanco, Vladimir Poposki Hamamdjieva, Aseel Modher Raghib, Ingar Bergstrand, Inger Westborg, Marion Silvia Schroeder, Yazgülli Yumusak, Aude Ambresin, Chiara Eandi, Christophe Valmaggia, Daniel Barthelme, Gábor Somfai, Justus Garweg, Katja Hatz, Marion Munk, Martin Schmid, Martin Zinkernagel, Moreno Menghini, Alaa Attawan, Ammar Safar, Amr Farid, Aniruddha Agarawal, Afsar Jafree, Aires Lobo, Archana Airody, Chandoshi Mukherjee, Clare Bailey, Emily Fletcher, Gabriella De Salvo, Hani Hasan,

Ian Pearce, Louise Downey, Manju Chandran, Michael Grinton, Narendra Dhinra, Niro Narendran, Saad Younis, and Vasileios Konidaris.

AUTHOR CONTRIBUTIONS

All authors equally contributed to the concept and creation of the visual abstract.

FUNDING

The SPECTRUM study (NCT06075147) was sponsored by Bayer Consumer Care AG, Basel, Switzerland.

COMPETING INTERESTS

CB received honoraria from Alimera Sciences, Apellis, Bayer, and Roche; and has served on advisory boards for Apellis, Bayer, Boehringer Ingelheim, Janssen, and Roche. CL receives honoraria from Apellis, Bayer, Biogen, and Novartis. MRM is a consultant for AbbVie, Alcon, Alimera, Allergan, Amgen, Apellis Pharmaceuticals, Astellas, Aviceda Therapeutics, Bayer, Boehringer Ingelheim, Dandelione, Eyegnos Consulting, EyePoint Pharmaceuticals, Evolve Medical Education, GenSight Biologics, Isarna Therapeutics, Iveric Bio, Kubota, LumiThera, Novartis, Oculus, OD-OS, ONL Therapeutics, OcuTerra Therapeutics, RetinAI, Roche, UBS analytics, and Zeiss. PL is a consultant for Aerie Pharmaceuticals, Allergan, Annexon, Apellis, Bausch + Lomb, Bayer, Biogen, Boehringer Ingelheim, EyePoint, Genentech, I-Care, Novartis, Ocular Therapeutix, Outlook Therapeutics, and Roche. HO is a consultant for AbbVie, Bayer, Novartis, and Roche. TM is an employee of Bayer AG. HA, XZ, PMW and ZH are employees of Bayer Consumer Care AG. VC receives consulting fees from EyePoint Pharmaceuticals; receives grants from Bayer, Novartis, and Roche; and serves on advisory boards for Apellis, Bayer, Boehringer Ingelheim, EyePoint Pharmaceuticals, Novartis, and Roche. VC is also a member of the Eye editorial board.

ADDITIONAL INFORMATION

Correspondence and requests for materials should be addressed to Clare Bailey.

Reprints and permission information is available at <http://www.nature.com/reprints>

Publisher's note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.



Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>.

© The Author(s) 2026

THE SPECTRUM STUDY INVESTIGATORS

Adrian Fung¹³, Amy Cohn¹⁴, Andrew Chang¹⁵, Devinder Chauhan¹⁶, Gerald Liew¹⁷, Jennifer Arnold¹⁸, Paul Mitchell¹⁹, Sanjeewa Wickremasinghe²⁰, Arif Samad²¹, Brian Ballios²², Cynthia Qian²³, David Lederer²⁴, Donald Nixon²⁵, Keyvan Koushan²⁶, Netan Choudhry²⁷, Parnian Arjmand²⁸, Raman Tuli²⁹, Robert Gizicki³⁰, Sohel Somani³¹, Thomas Sheidow³², Varun Chaudhary³³, Wai Ching Lam³⁴, Lasse Jørgensen Cehofski³⁵, Michael Larsen³⁶, Michael Spangsberg³⁷, Hannele Uusitalo-Järvinen³⁸, Raimo Tuuminen³⁹, Alexandre Bourhis⁴⁰, Aude Couturier⁴¹, Audrey Giocanti-Auregan⁴², Benjamin Wolff⁴³, Corinne Dot⁴⁴, David Sayag⁴⁵, Eric Souied⁴⁶, Flore De Bats⁴⁷, Frank Becquet⁴⁸, Frédéric Matonti⁴⁹, Hassiba Oubraham-Mebroukine⁵⁰, Hessam Razavi⁵¹, Isabelle Aubry-Quenet⁵², Joël Uzzan⁵³, Laurent Berthon⁵⁴, Laurent Kodjikian⁵⁵, Laurent Velasque⁵⁶, Marie-Noëlle Delyfer⁵⁷, Mathieu Lehmann⁵⁸, Mathilde Gallice⁵⁹, Mélanie Tessier⁶⁰, Olivia Zambrowski⁶¹, Philippe Schauer⁶², Pierre-henry Gabrielle⁶³, Salomon Cohen⁶⁴, Stéphanie Baillif⁶⁵, Thi Ha Chau Tran⁶⁶, Vincent Gualino⁶⁷, Xavier Benouaich⁶⁸, Alexander Daudrich⁶⁹, Andreas Berlin⁷⁰, Andreas Stahl⁷¹, Astrid Sader-Moritz⁷², Ben Mehrinfar⁷³, Christian Karl Brinkmann⁷⁴, Christoph Arnholdt⁷⁵, Clemens Lange⁷⁶, Costin-lilie Mihaescu⁷⁷,

Erik Beeke⁷⁸, Fabian Höhn⁷⁹, Hüsnü Berk⁸⁰, Ines Lanzi⁸¹, Joachim Wachtlin⁸², Kai Januschowski⁸³, Katrin Lorenz⁸⁴, Marc Schargus⁸⁵, Maria-Andreea Gamulescu⁸⁶, Nikolaus Feucht⁸⁷, Oliver Zeit⁸⁸, Philipp Müller⁸⁹, Ralf Schmitt⁹⁰, Roxana Fulga⁹¹, Sabine Baumgarten⁹², Simo Murovski⁹³, Stefan Schrader⁹⁴, Svenja Deuchler⁹⁵, Tim U. Krohne⁹⁶, Tobias Duncker⁹⁷, Tobias Peters⁹⁸, Ulrich Thelen⁹⁹, Vassiliki Romanou-Papadopoulos¹⁰⁰, Vinodh Kakkassery¹⁰¹, Walter Sekundo¹⁰², Alfonso Savastano¹⁰³, Daniele Tognetto¹⁰⁴, Enrico Borrelli¹⁰⁵, Federico Ricci¹⁰⁶, Flavia Chiosi¹⁰⁷, Francesco Maria Bandello¹⁰⁸, Francesco Viola¹⁰⁹, Giovanni Staurengi¹¹⁰, Leonardo Mastropasqua¹¹¹, Luca Ventre¹¹², Marco Lupidi¹¹³, Maria Vadala¹¹⁴, Niccolò Castellino¹¹⁵, Paolo Lanzetta¹¹⁶, Raffaella Rosa¹¹⁷, Aoyagi Koji¹¹⁸, Chikako Hara¹¹⁹, Fujimura Shigeto¹²⁰, Fujiwara Shintaro¹²¹, Hagiwara Akira¹²², Handa Sou¹²³, Ichikawa Reiko¹²⁴, Kaga Tatsushi¹²⁵, Kaneda Masahiro¹²⁶, Kawano Kenichi¹²⁷, Kimura Hideya¹²⁸, Kimura Yugo¹²⁹, Kishino Genichiro¹³⁰, Kondo Nagako¹³¹, Kuribara Isao¹³², Masahiko Sugimoto¹³³, Mishima Soichiro¹³⁴, Miyagi Hidetaka¹³⁵, Miyahara Shinsuke¹³⁶, Mori Toshio¹³⁷, Nakamura Yosuke¹³⁸, Nishimura Tomohisa¹³⁹, Okado Satoshi¹⁴⁰, Sato Hiroaki¹⁴¹, Sentaro Kusuhara¹⁴², Sugita Ichihiro¹⁴³, Takagi Mariko¹⁴⁴, Takasu Ippei¹⁴⁵, Umeda Naoyasu¹⁴⁶, Yamane Ken¹⁴⁷, Yamazaki Kenichiro¹⁴⁸, Yuji Kato¹⁴⁹, Angela Huiskamp¹⁵⁰, Hans Vingerling¹⁵¹, Janneke Van Lith-Verhoeven¹⁵², Marianne Smeets¹⁵³, Sankha Amarakoon¹⁵⁴, Yara Lechanteur¹⁵⁵, Yvonne de Jong-Hesse¹⁵⁶, Marius Dalby¹⁵⁷, Tayyab Ahmad¹⁵⁸, António Campos¹⁵⁹, Carlos Marques Neves¹⁶⁰, Diogo Cabral¹⁶¹, João Nascimento¹⁶², João Pedro Marques¹⁶³, José Roque¹⁶⁴, Maria Picoto¹⁶⁵, Ahmed Ibrahim¹⁶⁶, Hassan Al-Dhibi¹⁶⁷, Hussein Elgendy¹⁶⁶, Maher Almalis¹⁶⁶, Marwan Abouammoh¹⁶⁸, Christopher Seungkyu Lee¹⁶⁹, Daniel Duck-Jin Hwang¹⁷⁰, Don-II Ham¹⁷¹, HanJoo Cho¹⁷², Iksoo Byon¹⁷³, Kyu Hyung Park¹⁷⁴, Min Sagong¹⁷⁵, Se Joon Woo¹⁷⁶, Young-Joon Jo¹⁷⁷, Alvaro Galván Gallego¹⁷⁸, Amancia Mateos Hernández¹⁷⁹, Ana Isabel Oca Lázaro¹⁸⁰, Bárbara Delás Alós¹⁸¹, Cristina Irigoyen Laborra¹⁸², Daniel Aliseda Pérez de Madrid¹⁸³, Elena Rigo Oliver¹⁸⁴, Erika Vázquez Cruchaga¹⁸⁵, Estanislao Gutiérrez Sánchez¹⁸⁶, Francisco Antonio Cabrera López¹⁸⁷, Francisco Javier Ascaso Puyuelo¹⁸⁸, Gustavo Fernández-Baca Vaca¹⁸⁹, Javier Zarranz Ventura¹⁹⁰, Luis Arias Barquet¹⁹¹, María Concepción Rodríguez Villace¹⁹², María Victoria Gómez Resa¹⁹³, Nuria Olivier Pascual¹⁹⁴, Óscar Ruiz Moreno¹⁹⁵, Renzo Renato Portilla Blanco¹⁹⁶, Vladimir Poposki Hamamdjeva¹⁹⁷, Aseel Modher Raghib¹⁹⁸, Ingar Bergstrand¹⁹⁹, Inger Westborg²⁰⁰, Marion Silvia Schroeder²⁰¹, Yazgüü Yumusak²⁰², Aude Ambresin²⁰³, Chiara Eandi²⁰⁴, Christophe Valmaggia²⁰⁵, Daniel Barthelmes²⁰⁶, Gábor Somfal²⁰⁷, Justus Garweg²⁰⁸, Katja Hatz²⁰⁹, Marion Munk²¹⁰, Martin Schmid²¹¹, Martin Zinkernagel²¹², Moreno Menghini²¹³, Alaa Attawan²¹⁴, Ammar Safar²¹⁵, Amr Farid²¹⁶, Aniruddha Agarawal²¹⁷, Afsar Jaffree²¹⁸, Aires Lobo²¹⁹, Archana Airody²²⁰, Chandoshi Mukherjee²²¹, Clare Bailey²²², Emily Fletcher²²³, Gabriella De Salvo²²⁴, Hani Hasan²²⁵, Ian Pearce²²⁶, Louise Downey²²⁷, Manju Chandran²²⁸, Michael Grinton²²⁹, Narendra Dhingra²³⁰, Niro Narendran²³¹, Saad Younis²³² and Vasileios Konidaris²³³

¹³Retina and Macula Specialists Miranda, Sydney, NSW, Australia. ¹⁴Specialist Eye Group, Melbourne, VIC, Australia. ¹⁵Sydney Retina Clinic and Day Surgery, Sydney, NSW, Australia. ¹⁶Vision Eye Institute Boronia, Melbourne, VIC, Australia. ¹⁷South West Retina, Liverpool, NSW, Australia. ¹⁸Marsden Eye Institute Parramatta, Parramatta, NSW, Australia. ¹⁹Sydney West Retina, Sydney, NSW, Australia. ²⁰Retina Specialists Victoria Warragul, Warragul, VIC, Australia. ²¹26013-Samad-Samad Ophthalmology, Halifax, NS, Canada. ²²26011-Ballios-UHN, Toronto, ON, Canada. ²³26002-Qian-Retina de l'est, Montreal, QC, Canada. ²⁴26012-Lederer-Eye Health MD, Montreal, QC, Canada. ²⁵26010-Nixon-Trimed Eye Centre, Orillia, ON, Canada. ²⁶26004-Koushan-Toronto Retina, Toronto, ON, Canada. ²⁷26006-Choudhry-VRMTO, Toronto, ON, Canada. ²⁸26016-Arjmand-Mississauga Retina Institute, Mississauga, ON, Canada. ²⁹26005-Tuli-Retina Centre of Ottawa, Ottawa, ON, Canada. ³⁰26017-Gizicki-Retina Surgical Associates, New Westminster, BC, Canada. ³¹26003-Somani-Uptown Eye Specialists, Vaughan, ON, Canada. ³²26001-Sheidow-SJHC London Eye, London, ON, Canada. ³³26007-Chaudhary-RSJH, Hamilton, ON, Canada. ³⁴26009-Lam-Vancouver General Hospital, Vancouver, BC, Canada. ³⁵Aalborg University Hospital-Eye department, Aalborg, Denmark. ³⁶Rigshospitalet Glostrup-Afdeling for Øjensygdomme, Glostrup, Denmark. ³⁷Hospital of Southern Jutland-Department of Eye Diseases, Esbjerg, Denmark. ³⁸Tampere University hospital, Tampere, Finland. ³⁹Helsinki Retina Research Group, Helsinki, Finland. ⁴⁰Institut d'ophtalmologie Sourdis Atlantique, Saint-Herblain, France. ⁴¹Hôpital Lariboisière Fernand-Widal, Paris, France. ⁴²Hôpital Avicenne, Bobigny, France. ⁴³Centre Ophtalmologique Maison rouge, Strasbourg, France. ⁴⁴Hôpital Edouard Herriot HCL, Lyon, France. ⁴⁵Paris Retina Vision, Paris, France. ⁴⁶CHIC Créteil, Créteil, France. ⁴⁷Pole Vision Val d'Ouest, Lyon, France. ⁴⁸Institut Ophtalmologique de l'Ouest, Nantes, France. ⁴⁹Centre Monticelli Paradis, Marseille, France. ⁵⁰Ophta 45, Loiret, France. ⁵¹Centre Ophtalmologique Saint Exupéry, Lyon, France. ⁵²Centre Ophtalmologie des Arceaux, Montpellier, France. ⁵³Clinique Mathilde, Rouen, France. ⁵⁴Centre d'Exploration de la rétine Kléber, Lyon, France. ⁵⁵Hôpital de la Croix Rousse, Lyon, France. ⁵⁶Centre Rétine Gallien, Bordeaux, France. ⁵⁷CHU de Bordeaux, Bordeaux, France. ⁵⁸Centre Ophtalmologie Sorbonne Saint Michel, Paris, France. ⁵⁹Centre d'Ophtalmologie du Dauphiné, Grenoble, France. ⁶⁰Centre Aix Vision, Aix en Provence, France. ⁶¹Centre d'Exploration de l'Odeon, Paris, France. ⁶²Clinique des yeux, Bordeaux, France. ⁶³CHU François Mitterrand Dijon, Dijon, France. ⁶⁴Centre Ophtalmologique d'Imagerie et de Laser, Paris, France. ⁶⁵CHU Pasteur, Nice, France. ⁶⁶CHU amiens, Amiens, France. ⁶⁷Clinique Honoré Cave, Montauban, France. ⁶⁸Clinique de l'Union, Saint-Jean, France. ⁶⁹10035 MVZ AR Augenblick Rheinland GmbH, Brühl, Germany. ⁷⁰10034 Uniklinikum Würzburg, Augenklinik, Würzburg, Germany. ⁷¹10014-Universitätsmedizin Greifswald, Klinik und Poliklinik für Augenheilkunde, Greifswald, Germany. ⁷²10013-Augenzentrum Berliner Ring, Würzburg, Germany. ⁷³10016-Augenklinik am Wittenbergplatz, Berlin, Germany. ⁷⁴10022-Diakonie Klinikum Dietrich Bonhoeffer, Neubrandenburg, Germany. ⁷⁵10021-Augenklinik Universitätsklinikum Heidelberg, Heidelberg, Germany. ⁷⁶10001-Augenzentrum am St. Franziskus-Hospital, Münster, Germany. ⁷⁷10036-Dr. med. Costin Mihaescu, Würzburg, Germany. ⁷⁸10004-Visualeins GmbH MVZ für Augenheilkunde, Osnabrück, Germany. ⁷⁹10026-Marienhospital Osnabrück, Osnabrück, Germany. ⁸⁰10020-St. Elisabeth-Krankenhaus GmbH, Katharinenberg, Germany. ⁸¹10017-Rund ums Auge GbR, Greifath, Germany. ⁸²10015-Sankt-Gertrauden-Krankenhaus GmbH Abteilung Augenheilkunde, Berlin, Germany. ⁸³10010-Augenklinik Petrisberg (Medical eye research xperts Institut gGmbH), Trier, Germany. ⁸⁴10028-Augenklinik und Poliklinik, Universitätsmedizin Mainz, Mainz, Germany. ⁸⁵10024-ASKLEPIOS Klinik Nord, Hamburg, Germany. ⁸⁶10037-Universitätsklinikum Regensburg, Regensburg, Germany. ⁸⁷10023-Smile Eyes Augenärzte, MVZ Augenärzte am Airport, Frankfurt am Main, Germany. ⁸⁸10027-Charité Berlin, Campus Benjamin Franklin, Klinik für Augenheilkunde, Berlin, Germany. ⁸⁹10009-Makula Center Augsburg, Südblick Augenzentren, Augsburg, Germany. ⁹⁰10003-Augenzentrum im Medizeum, Mainz, Germany. ⁹¹10005-BeyondEye GmbH, Bonn, Germany. ⁹²10032-Universitätsklinikum Aachen, Augenheilkunde, Aachen, Germany. ⁹³10030-Kadina Research Zschopau, Zschopau, Germany. ⁹⁴10011-Stiftung Pius-Hospital Universitätsklinik für Augenheilkunde, Oldenburg, Germany. ⁹⁵10019-Augenzentrum Frankfurt, Frankfurt am Main, Germany. ⁹⁶10029-Universitätsklinikum Köln, Augenheilkunde, Cologne, Germany. ⁹⁷10012-MVZ Augenheilkunde Mitteldeutschland GmbH, Leipzig, Germany. ⁹⁸10025-Universitätsklinikum Tübingen, Department für Augenheilkunde, Tübingen, Germany. ⁹⁹10008-Gemeinschaftspraxis für Augenheilkunde, Munich, Germany. ¹⁰⁰10007-MVZ der Klinik Dardenne GmbH Makulazentrum, Bonn, Germany. ¹⁰¹10031-Klinikum Chemnitz, Augenheilkunde, Chemnitz, Germany. ¹⁰²10018-Philipps-Universität Marburg, Klinik für Augenheilkunde, Marburg, Germany. ¹⁰³Miulli-Acquaviva delle Fonti, Acquaviva delle Fonti, Italy. ¹⁰⁴Ospedale Maggiore di Trieste, Trieste, Italy. ¹⁰⁵Ospedale Molinette-Torino, Turin, Italy. ¹⁰⁶Policlinico Tor Vergata-Roma, Rome, Italy. ¹⁰⁷Ospedale Monaldi-Napoli, Naples, Italy. ¹⁰⁸S. Raffaele-Milano, Milan, Italy. ¹⁰⁹Ospedale Maggiore Policlinico di Milano, Milan, Italy. ¹¹⁰Ospedale Sacco di Milano, Milan, Italy. ¹¹¹Ospedale SS Annunziata-Chieti, Chieti, Italy. ¹¹²Ospedale Parini-Aosta, Aosta, Italy. ¹¹³Ospedale Umberto I di Ancona, Ancona, Italy. ¹¹⁴Policlinico "Paolo Giaccone"-Palermo, Palermo, Italy. ¹¹⁵Presidio Gaspare Rodolico-Catania, Catania, Italy. ¹¹⁶Ospedale S. Maria della Misericordia-Udine, Udine, Italy. ¹¹⁷Ospedale San Martino-Genova, Genoa, Italy. ¹¹⁸20004-Aoyagi Eye Clinic, Tokyo, Japan. ¹¹⁹20045-Osaka University Hospital, Osaka, Japan. ¹²⁰20029-Fujimura Arimatsu Eye Clinic, Nagoya, Japan. ¹²¹20020-Fujiwara Eye Clinic, Kyoto, Japan. ¹²²20036-Muramatsu Eye Clinic, Hamamatsu, Japan. ¹²³20015-Otsuka Eye Clinic, Tokyo, Japan. ¹²⁴20010-Chukyo Eye Clinic, Nagoya, Japan. ¹²⁵20027-Chukyo Hospital, Nagoya, Japan. ¹²⁶20013-Kaneda Eye Clinic, Osaka, Japan. ¹²⁷20024-Yokkaichi Municipal Hospital, Yokkaichi, Japan. ¹²⁸20008-Nagata Eye Clinic, Fukuoka, Japan. ¹²⁹20022-Kimura Eye Hospital, Hiroshima, Japan. ¹³⁰20011-Kozawa Eye Hospital and Diabetes Center, Gifu, Japan. ¹³¹20002-Miyake Eye Hospital, Nagoya, Japan. ¹³²20017-Sannoudai Hospital Ganka Naika Clinic, Yokohama, Japan. ¹³³20040-Yamagata University Hospital, Yamagata, Japan. ¹³⁴20028-Fuchu Eye Center, Fuchu, Japan. ¹³⁵20018-Hirota Eye Clinic, Osaka, Japan. ¹³⁶20038-Kitano Hospital, Osaka, Japan. ¹³⁷20031-Iida Municipal Hospital, Iida, Japan. ¹³⁸20033-Kimitsu Chuo Hospital, Kimitsu, Japan. ¹³⁹20014-Mikawa Eye Clinic, Okazaki, Japan. ¹⁴⁰20035-Nagoya Medical Center, Nagoya, Japan. ¹⁴¹20021-Sato Ganka

Clinic, Sendai, Japan. ¹⁴²20041-Kobe University Hospital, Kobe, Japan. ¹⁴³20009--Sugita Eye Hospital, Kumamoto, Japan. ¹⁴⁴20012-Takagi Ophthalmic Hospital, Nagoya, Japan. ¹⁴⁵20016-Takasu Eye Clinic, Toyohashi, Japan. ¹⁴⁶20030-Nakatake Eye Clinic, Fukuoka, Japan. ¹⁴⁷20026-Yamane Eye Clinic, Matsue, Japan. ¹⁴⁸20023-Omiya Nanasato Eye Institute, Saitama, Japan. ¹⁴⁹20005-Sapporo Kato Ophthalmology Clinic, Sapporo, Japan. ¹⁵⁰UMCG, Groningen, Netherlands. ¹⁵¹Erasmus MC, Rotterdam, Netherlands. ¹⁵²ETZ, Tilburg, Netherlands. ¹⁵³Jeroen Bosch Ziekenhuis, 's-Hertogenbosch, Netherlands. ¹⁵⁴Maastricht UMC, Maastricht, Netherlands. ¹⁵⁵Radboud UMC, Nijmegen, Netherlands. ¹⁵⁶LUMC, Leiden, Netherlands. ¹⁵⁷Drammen Sykehus, Øyeavdelingen, Vestre Viken HF, Drammen, Norway. ¹⁵⁸Sykehuset Østfold, Moss-Eye department, Moss, Norway. ¹⁵⁹UNIDADE LOCAL DE SAÚDE DA REGIÃO DE LEIRIA E.P.E, Leiria, Portugal. ¹⁶⁰ALM SERVIÇOS OFTALMOLOGIA MÉDICA E CIRÚRGICA, S.A, Lisbon, Portugal. ¹⁶¹Hospital Garcia de Orta-ULS de Almada Seixal, EPE, Almada, Portugal. ¹⁶²Instituto de Retina de Lisboa, Lisbon, Portugal. ¹⁶³UOC | Unidade de Oftalmologia de Coimbra SA, Coimbra, Portugal. ¹⁶⁴Instituto de Microcirurgia Ocular (IMO), Barcelona, Portugal. ¹⁶⁵Unidade Local de Saúde Lisboa Ocidental-Hospital de Egas Moniz, Lisbon, Portugal. ¹⁶⁶MAGRABI Hospitals & Centers, Jeddah, Saudi Arabia. ¹⁶⁷King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia. ¹⁶⁸King Khalid University Hospital, Riyadh, Saudi Arabia. ¹⁶⁹Severance Hospital, Seoul, South Korea. ¹⁷⁰Hangil Eye Hospital, Incheon, South Korea. ¹⁷¹Samsung Medical Center, Seoul, South Korea. ¹⁷²Kim's Eye Hospital, Seoul, South Korea. ¹⁷³Pusan national University Hospital, Busan, South Korea. ¹⁷⁴Seoul National University Hospital, Seoul, South Korea. ¹⁷⁵YeungNam University Hospital, Daegu, South Korea. ¹⁷⁶Seoul National University Bundang Hospital, Seongnam, South Korea. ¹⁷⁷ChungNam National University Hospital, Daejeon, South Korea. ¹⁷⁸H MERIDA, Mérida, Spain. ¹⁷⁹H Leon, León, Spain. ¹⁸⁰H San Pedro, Logroño, Spain. ¹⁸¹H Terrassa, Terrassa, Spain. ¹⁸²H Donostia, San Sebastián, Spain. ¹⁸³HU NAVARRA, Pamplona, Spain. ¹⁸⁴H SON LLATZER, Palma de Mallorca, Spain. ¹⁸⁵HU GALDAKAO, Galdakao, Spain. ¹⁸⁶H VIRGEN MACARENA, Seville, Spain. ¹⁸⁷CHU IMI GRAN CANARIA, Las Palmas, Spain. ¹⁸⁸HCU LOZANO BLESÁ, Zaragoza, Spain. ¹⁸⁹H CIVIL MÁLAGA, Málaga, Spain. ¹⁹⁰H CLINIC BARCELONA, Barcelona, Spain. ¹⁹¹HU BELLVITGE, L'Hospitalet de Llobregat, Spain. ¹⁹²H Cáceres, Cáceres, Spain. ¹⁹³H SON ESPASES, Palma de Mallorca, Spain. ¹⁹⁴H NAVAL FERROL, Ferrol, Spain. ¹⁹⁵HOSPITAL MIGUEL SERVET, Zaragoza, Spain. ¹⁹⁶HU BURGOS, Burgos, Spain. ¹⁹⁷H Esperança, Barcelona, Spain. ¹⁹⁸Ögonmottagning Falu Lasarett, Falun, Sweden. ¹⁹⁹Ögonläkarna i Eslöv AB, Eslöv, Sweden. ²⁰⁰Sunderby Sjukhus, Ögonkliniken, Luleå, Sweden. ²⁰¹Skaane University Hospital Lund-Eye clinic A, Lund, Sweden. ²⁰²Uppsala University hospital-Eye clinic, Uppsala, Sweden. ²⁰³Swiss Visio Retina Research Center / Swiss Visio Montchoisi, Lausanne, Switzerland. ²⁰⁴Hôpital ophtalmique Jules-Gonin, Lausanne, Lausanne, Switzerland. ²⁰⁵Kantonsspital St. Gallen, Augenklinik (KSSG), St. Gallen, Switzerland. ²⁰⁶Universitätsspital Zürich, Augenklinik USZ, Zurich, Switzerland. ²⁰⁷Stadspital Zürich Triemli, Augenklinik, Zurich, Switzerland. ²⁰⁸Berner Augenklinik (Swiss Eye Institute), Bern, Switzerland. ²⁰⁹Vista Augenklinik, CH-4102 Binningen, Binningen, Switzerland. ²¹⁰Augenarzt Praxisgemeinschaft Gutblick AG: Bern, Aarau, Wetzikon, Wallisellen, Bern, Switzerland. ²¹¹LUKS Augenklinik, Lucerne, Switzerland. ²¹²Universitätsspital Bern, Klinik für Augenheilkunde, Bern, Switzerland. ²¹³Clinica di Oftalmologia (INSI), Ospedale Regionale di Lugano (EOC), Lugano, Switzerland. ²¹⁴Imperial College London-AI Ain Branch, AI Ain, United Arab Emirates. ²¹⁵Moorfields Eye Hospital, London, United Arab Emirates. ²¹⁶Magrabi Eye Hospital-DHCC, Dubai, United Arab Emirates. ²¹⁷Cleveland Clinic Abu-Dhabi, Abu Dhabi, United Arab Emirates. ²¹⁸Kent and Canterbury Hospital, Canterbury, UK. ²¹⁹Bedford Hospital, Bedford, UK. ²²⁰York Hospital, York, UK. ²²¹Worcestershire Royal Hospital, Worcester, UK. ²²²Bristol Eye Hospital, Bristol, UK. ²²³Gloucestershire Royal Hospital, Gloucester, UK. ²²⁴Southampton, Southampton, UK. ²²⁵Royal Victoria Infirmary, Newcastle upon Tyne, UK. ²²⁶Liverpool University Hospital, Liverpool, UK. ²²⁷Hull University Teaching Hospitals NHS Trust, Hull, UK. ²²⁸Frimley Health NHS Foundation Trust, Frimley, UK. ²²⁹Sunderland Eye Infirmary, Sunderland, UK. ²³⁰St. James's University Hospital, Leeds, UK. ²³¹Wolverhampton Eye Infirmary, Wolverhampton, UK. ²³²Western Eye Hospital, London, UK. ²³³University Hospitals of Leicester, Leicester, UK.