



Developing a pan-European technical standard for a comprehensive high-quality lung cancer computed tomography screening programme: an ERS technical standard

David R. Baldwin^{1,2}, Emma L. O'Dowd², Ilona Tietzova³, Anna Kerpel-Fronius ⁰⁴, Marjolein A. Heuvelmans^{5,6}, Annemiek Snoeckx⁷, Haseem Ashraf^{8,9}, Hans-Ulrich Kauczor¹⁰, Blin Nagavci¹¹, Matthijs Oudkerk⁶, Paul Martin Putora^{12,13}, Witold Ryzman¹⁴, Giulia Veronesi¹⁵, Andrea Borondy-Kitts¹⁶, Antoni Rosell Gratacos¹⁷, Jan van Meerbeeck ¹⁸ and Torsten G. Blum¹⁹

¹Department of Respiratory Medicine, Nottingham University Hospitals NHS Trust, Nottingham, UK. ²Epidemiology and Public Health, University of Nottingham, Nottingham, UK. ³1st Department of Tuberculosis and Respiratory Diseases, Charles University, Prague, Czech Republic. ⁴Department of Radiology, National Koranyi Institute of Pulmonology, Budapest, Hungary. ⁵Department of Epidemiology, University of Groningen, University Medical Center Groningen, Groningen, The Netherlands. ⁶Institute for DiagNostic Accuracy (iDNA), University of Groningen, University Medical Center Groningen, Groningen, The Netherlands. ⁷Department of Radiology, UZ Antwerpen, Edegem, Belgium. ⁸Department of Radiology, Akershus University Hospital, Oslo, Norway. ⁹Institute for Clinical Medicine, University of Oslo Faculty of Medicine, Oslo, Norway. ¹⁰Department of Radiology, University Hospital Heidelberg, Heidelberg, Germany. ¹¹Institute for Evidence in Medicine, University of Freiburg, Freiburg im Breisgau, Germany. ¹²Department of Radiation Oncology, Kantonsspital Sankt Gallen, Sankt Gallen, Switzerland. ¹³Department of Radiation Oncology, Inselspital Universitätsspital Bern, Bern, Switzerland. ¹⁴Department of Thoracic Oncology, Medical University of Gdansk, Gdansk, Poland. ¹⁵Department of Thoracic Surgery, Clinical Institute Humanitas, Rozzano, Italy. ¹⁶Rescue Lung Society and Prosumer Health, Hartford, CT, USA. ¹⁷Hospital Universitari Germans Trias, Barcelona, Spain. ¹⁸Department of Pulmonology and Thoracic Oncology, UZ Antwerpen, Edegem, Belgium. ¹⁹Lungenklinik Heckeshorn, HELIOS Klinikum Emil von Behring GmbH, Berlin, Germany.

Corresponding author: David R. Baldwin (david.baldwin@nottingham.ac.uk)



Conclusions This European collaborative group has produced a technical standard that is a timely contribution to implementation of LCS. It will serve as a standard that can be used, as recommended by the European Council, to ensure a high-quality and effective programme.