

Alessia Melegaro

Full Professor



Knowledge Group: Economics, Politics and Decision Sciences

Research Domains: Demography

Teaching Domains:

alessia.melegaro@unibocconi.it

Articles in Scholarly Journals

Social Contact Patterns in Rural and Urban Settings, Mozambique, 2021–2022

KITI, M. C., C. SACOOR, O. G. AGUOLU, A. ZELAYA, H. CHEN, S. S. KIM, N. CAVELE, E. JAMISSE, C. TCHAVANA, A. JOSE, I. MACICAME, O. JOAQUIM, N. AHMED, C. Y. LIU, I. YILDIRIM, K. NELSON, S. M. JENNESS, H. MALDONADO, M. KAZI, R. SRINIVASAN, V. R. MOHAN, A. MELEGARO, F. MALIK, A. BARDAJI, S. B. OMER, B. LOPMAN, "Social Contact Patterns in Rural and Urban Settings, Mozambique, 2021–2022", *Emerging Infectious Diseases*, 2025, vol. 31, no. 1, pp. 94-103

Are we ready for the next pandemic? Public preferences and trade-offs between vaccine characteristics and societal restrictions across 21 countries

ANTONINI, M., M. G. GENIE, K. ATTWELL, A. E. ATTEMA, J. K. WARD, A. MELEGARO, A. TORBICA, B. KELLY, C. BERARDI, A. R. SEQUEIRA, N. MCGREGOR, A. KELLNER, S. BRAMMLI-GREENBERG, M. HINWOOD, L. MURAUŠKIENĖ, D. BEHMANE, Z. J. BALOGH, T. P. HAGEN, F. PAOLUCCI, "Are we ready for the next pandemic? Public preferences and trade-offs between vaccine characteristics and societal restrictions across 21 countries", *Social Science & Medicine*, 2025, vol. 366, pp. 117687

Public preferences for vaccination campaigns in the COVID-19 endemic phase: insights from the VaxPref database

ANTONINI, M., M. G. GENIE, A. E. ATTEMA, K. ATTWELL, Z. J. BALOGH, D. BEHMANE, C. BERARDI, S. BRAMMLI-GREENBERG, A. GREENLAND, T. P. HAGEN, M. HINWOOD, C. JAMES, A. KELLNER, B. KELLY, L. MURAUŠKIENĖ, N. MCGREGOR, A. MELEGARO, N. MOY, A. R. SEQUEIRA, R. SINGH, A. TORBICA, J. K. WARD, D. YANG, F. PAOLUCCI, "Public preferences for vaccination campaigns in the COVID-19 endemic phase: insights from the VaxPref database", *Health Policy and Technology*, 2024, vol. 13, no. 1, pp. 100849

Comprehensive profiling of social mixing patterns in resource poor countries: A mixed methods research protocol

AGUOLU, O. G., M. C. KITI, K. NELSON, C. Y. LIU, M. SUNDARAM, S. GRAMACHO, S. JENNESS, A. MELEGARO, C. SACOOR, A. BARDAJI, I. MACICAME, A. JOSE, N. CAVELE, F. AMOSSE, M. UAMBA, E.

JAMISSE, C. TCHAVANA, H. G. MALDONADO BRIONES, C. JARQUÍN, M. AJSIVINAC, L. PISCHEL, N. AHMED, V. R. MOHAN, R. SRINIVASAN, P. SAMUEL, G. JOHN, K. ELLINGTON, O. A. JOAQUIM, A. ZELAYA, S. KIM, H. CHEN, M. KAZI, F. MALIK, I. YILDIRIM, B. LOPMAN, S. B. OMER, "Comprehensive profiling of social mixing patterns in resource poor countries: A mixed methods research protocol", Plos One, 2024, vol. 19, no. 6, pp. e0301638

A repeated cross-sectional analysis on the economic impact of SARS-CoV-2 pandemic at the hospital level in Italy

TRENTINI, F., O. CIANI, E. VANNI, S. GHISLANDI, A. TORBICA, E. AZZOLINI, A. MELEGARO, "A repeated cross-sectional analysis on the economic impact of SARS-CoV-2 pandemic at the hospital level in Italy", Scientific Reports, 2023, vol. 13, no. 1, pp. 12386

Using mortuary and burial data to place COVID-19 in Lusaka, Zambia within a global context

SHEPPARD, R. J., O. J. WATSON, R. PIECIAK, J. LUNGU, G. KWENDA, C. MOYO, S. L. CHANDA, G. BARNSELY, N. F. BRAZEAU, I. C. G. GERARD-URSIN, D. OLIVERA MESA, C. WHITTAKER, S. GREGSON, L. C. OKELL, A. C. GHANI, W. B. MACLEOD, E. DEL FAVA, A. MELEGARO, J. Z. HINES, L. B. MULENGA, P. G. T. WALKER, L. MWANANYANDA, C. J. GILL, "Using mortuary and burial data to place COVID-19 in Lusaka, Zambia within a global context", Nature Communications, 2023, vol. 14, no. 1

Changing social contact patterns among US workers during the COVID-19 pandemic: April 2020 to December 2021

KITI, M. C., O. G. AGUOLU, A. ZELAYA, H. Y. CHEN, N. AHMED, J. BATROSS, C. Y. LIU, K. N. NELSON, S. M. JENNESS, A. MELEGARO, F. AHMED, F. MALIK, S. B. OMER, B. A. LOPMAN, "Changing social contact patterns among US workers during the COVID-19 pandemic: April 2020 to December 2021", Epidemics, 2023, vol. 45, pp. 100727

Prioritizing COVID-19 vaccine allocation in resource poor settings: Towards an Artificial Intelligence-enabled and Geospatial-assisted decision support framework

SHAYEGH, S., J. ANDREU-PEREZ, C. AKOTH, X. BOSCH-CAPBLANCH, S. DASGUPTA, G. FALCHETTA, S. GREGSON, A. T. HAMMAD, M. HERRINGER, F. KAPKEA, A. LABELLA, L. LISCIOTTO, L. MARTÍNEZ, P. M. MACHARIA, P. MORALES-RUIZ, N. MURAGE, V. OFFEDDU, A. SOUTH, A. TORBICA, F. TRENTINI, A. MELEGARO, "Prioritizing COVID-19 vaccine allocation in resource poor settings: Towards an Artificial Intelligence-enabled and Geospatial-assisted decision support framework", Plos One, 2023, vol. 18, no. 8, pp. e0275037

Altruism and vaccination intentions: Evidence from behavioral experiments

CUCCINIELLO, M., P. PIN, B. IMRE, G. A. PORUMBESCU, A. MELEGARO, "Altruism and vaccination intentions: Evidence from behavioral experiments", Social Science & Medicine, 2022, vol. 292, pp. 114195

Pressure on the Health-Care System and Intensive Care Utilization During the COVID-19 Outbreak in the Lombardy Region of Italy: A Retrospective Observational Study in 43,538 Hospitalized Patients

TRENTINI, F., V. MARZIANO, G. GUZZETTA, M. TIRANI, D. CEREDA, P. POLETTI, R. PICCARRETA, A. BARONE, G. PREZIOSI, F. ARDUINI, P. G. DELLA VALLE, A. ZANELLA, F. GROSSO, G. DEL CASTILLO, A. CASTROFINO, G. GRASSELLI, A. MELEGARO, A. PIATTI, A. ANDREASSI, M. GRAMEGNA, M. AJELLI, S. MERLER, "Pressure

on the Health-Care System and Intensive Care Utilization During the COVID-19 Outbreak in the Lombardy Region of Italy: A Retrospective Observational Study in 43,538 Hospitalized Patients", American Journal of Epidemiology, 2022, vol. 191, no. 1, pp. 137-146

Investigating the relationship between interventions, contact patterns, and SARS-CoV-2transmissibility

TRENTINI, F., A. MANNA, N. BALBO, V. MARZIANO, G. GUZZETTA, S. O'DELL, A. G. KUMMER, M. LITVINOVA, S. MERLER, M. AJELLI, P. POLETTI, A. MELEGARO, "Investigating the relationship between interventions, contact patterns, and SARS-CoV-2transmissibility", Epidemics, 2022, vol. 40, pp. 100601

Factors influencing the decision to receive seasonal influenza vaccination among US corporate non-healthcare workers

AGUOLU, O. G., K. WILLEBRAND, J. A. ELHARAKE, H. M. QURESHI, M. C. KITI, C. Y. LIU, A. RESTREPO MESA, K. NELSON, S. JENNESS, A. MELEGARO, F. AHMED, I. YILDIRIM, F. A. MALIK, B. LOPMAN, S. B. OMER, "Factors influencing the decision to receive seasonal influenza vaccination among US corporate non-healthcare workers", Human Vaccines & Immunotherapeutics, 2022, vol. 18, no. 6

Association of Age With Likelihood of Developing Symptoms and Critical Disease Among Close Contacts Exposed to Patients With Confirmed SARS-CoV-2 Infection in Italy

POLETTI, P., M. TIRANI, D. CEREDA, F. TRENTINI, G. GUZZETTA, V. MARZIANO, G. SABATINO, A. CASTROFINO, F. GROSSO, G. DEL CASTILLO, R. PICCARRETA, A. ANDREASSI, A. MELEGARO, M. GRAMEGNA, M. AJELLI, S. MERLER, ATS LOMBARDY COVID-19 TASK FORCE, "Association of Age With Likelihood of Developing Symptoms and Critical Disease Among Close Contacts Exposed to Patients With Confirmed SARS-CoV-2 Infection in Italy", JAMA Network Open, 2021, vol. 4, no. 3, pp. 1-10

Seroprevalence of and Risk Factors Associated With SARS-CoV-2 Infection in Health Care Workers During the Early COVID-19 Pandemic in Italy

POLETTI, P., M. TIRANI, D. CEREDA, G. GUZZETTA, F. TRENTINI, V. MARZIANO, C. TOSO, A. PIATTI, R. PICCARRETA, A. MELEGARO, A. ANDREASSI, M. GRAMEGNA, M. AJELLI, S. MERLER, "Seroprevalence of and Risk Factors Associated With SARS-CoV-2 Infection in Health Care Workers During the Early COVID-19 Pandemic in Italy", JAMA Network Open, 2021, vol. 4, no. 7

The early phase of the COVID-19 epidemic in Lombardy, Italy

CEREDA, D., M. MANICA, M. TIRANI, F. ROVIDA, V. DEMICHELI, M. AJELLI, P. POLETTI, F. TRENTINI, G. GUZZETTA, V. MARZIANO, R. PICCARRETA, A. BARONE, M. MAGONI, S. DEANDREA, G. DIURNO, M. LOMBARDO, M. FACCINI, A. PAN, R. BRUNO, E. PARIANI, G. GRASSELLI, A. PIATTI, M. GRAMEGNA, F. BALDANTI, A. MELEGARO, S. MERLER, "The early phase of the COVID-19 epidemic in Lombardy, Italy", Epidemics, December 2021, vol. 37, pp. 100528

A quantitative assessment of epidemiological parameters required to investigate COVID-19 burden

ZARDINI, A., M. GALLI, M. TIRANI, D. CEREDA, M. MANICA, F. TRENTINI, G. GUZZETTA, V. MARZIANO, R. PICCARRETA, A. MELEGARO, M. AJELLI, P. POLETTI, S. MERLER, "A quantitative assessment of epidemiological parameters required to investigate COVID-19 burden", Epidemics, December 2021, vol. 37, pp. 100530

Rapid Review of Social Contact Patterns During the COVID-19 Pandemic

LIU, C. Y., J. BERLIN, M. C. KITI, E. DEL FAVA, A. GROW, E. ZAGHENI, A. MELEGARO, S. M. JENNESS, S. B. OMER, B. LOPMAN, K. NELSON, "Rapid Review of Social Contact Patterns During the COVID-19 Pandemic", *Epidemiology*, 2021, vol. 32, no. 6, pp. 781-791

Individual's daily behaviour and intergenerational mixing in different social contexts of Kenya

DEL FAVA, E., I. ADEMA, M. C. KITI, P. POLETTI, S. MERLER, D. J. NOKES, P. MANFREDI, A. MELEGARO, "Individual's daily behaviour and intergenerational mixing in different social contexts of Kenya", *Scientific Reports*, 2021, vol. 11, no. 1, pp. 21589

Citizens from 13 countries share similar preferences for COVID-19 vaccine allocation priorities

DUCH, R., L. S. J. ROOPE, M. VIOLATO, M. FUENTES BECERRA, T. S. ROBINSON, J.-F. BONNEFON, J. FRIEDMAN, P. J. LOEWEN, P. MAMIDI, A. MELEGARO, M. BLANCO, J. VARGAS, J. SEITHER, P. CANDIO, A. GIBERTONI CRUZ, X. HUA, A. BARNETT, P. M. CLARKE, "Citizens from 13 countries share similar preferences for COVID-19 vaccine allocation priorities", *Proceedings of the National Academy of Sciences of the Usa (Pnas)*, 2021, vol. 118, no. 38

Modeling the interplay between demography, social contact patterns, and SARS-CoV-2 transmission in the South West Shewa Zone of Oromia Region, Ethiopia

TRENTINI, F., G. GUZZETTA, M. GALLI, A. ZARDINI, F. MANENTI, G. PUTOTO, V. MARZIANO, W. N. GAMSHIE, A. TSEGAYE, A. GREBLO, A. MELEGARO, M. AJELLI, S. MERLER, P. POLETTI, "Modeling the interplay between demography, social contact patterns, and SARS-CoV-2 transmission in the South West Shewa Zone of Oromia Region, Ethiopia", *BMC Medicine*, 2021, vol. 19, no. 1

Public opinion on global rollout of COVID-19 vaccines

CLARKE, P. M., L. S. J. ROOPE, P. J. LOEWEN, J.-F. BONNEFON, A. MELEGARO, J. FRIEDMAN, M. VIOLATO, A. BARNETT, R. DUCH, "Public opinion on global rollout of COVID-19 vaccines", *Nature Medicine*, 2021, vol. 27, no. 6, pp. 935-936

Social contact patterns among employees in 3 U.S. companies during early phases of the COVID-19 pandemic, April to June 2020

KITI, M. C., O. G. AGUOLU, C. Y. LIU, A. R. MESA, R. REGINA, M. WOODY, K. WILLEBRAND, C. COUZENS, T. BARTELSMEYER, K. N. NELSON, S. JENNESS, S. RILEY, A. MELEGARO, F. AHMED, F. MALIK, B. A. LOPMAN, S. B. OMER, "Social contact patterns among employees in 3 U.S. companies during early phases of the COVID-19 pandemic, April to June 2020", *Epidemics*, 2021, vol. 36, pp. 100481

Social contact patterns and implications for infectious disease transmission – a systematic review and meta-analysis of contact surveys

MOUSA, A., P. WINSKILL, O. J. WATSON, O. RATMANN, M. MONOD, M. AJELLI, A. DIALLO, P. J. DODD, C. G. GRIJALVA, M. C. KITI, A. KRISHNAN, R. KUMAR, S. KUMAR, K. O. KWOK, C. F. LANATA, O. L. P. DE WAROUX, K. LEUNG, W. MAHIKUL, A. MELEGARO, C. D. MORROW, J. MOSSONG, E. F. NEAL, D. J. NOKES, W. PAN-NGUM, G. E. POTTER, F. M. RUSSELL, S. SAHA, J. D. SUGIMOTO, W. I. WEI, R. R. WOOD, J. WU, J. ZHANG, P. WALKER, C. WHITTAKER, "Social contact patterns and implications for infectious disease transmission – a systematic review and meta-analysis of contact surveys", *eLife*, November 2021, vol. 10, pp. e70294

Experimental evidence that changing beliefs about mask efficacy and social norms increase mask wearing for COVID-19 risk reduction: Results from the United States and Italy

BOKEMPER, S. E., M. CUCCINIELLO, T. ROTESI, P. PIN, A. A. MALIK, K. WILLEBRAND, E. E. PAINTSIL, S. B. OMER, G. A. HUBER, A. MELEGARO, "Experimental evidence that changing beliefs about mask efficacy and social norms increase mask wearing for COVID-19 risk reduction: Results from the United States and Italy", Plos One, 2021, vol. 16, no. 10, pp. e0258282

National interest may require distributing COVID-19 vaccines to other countries

ROTESI, T., P. PIN, M. CUCCINIELLO, A. A. MALIK, E. E. PAINTSIL, S. E. BOKEMPER, K. WILLEBRAND, G. A. HUBER, A. MELEGARO, S. B. OMER, "National interest may require distributing COVID-19 vaccines to other countries", Scientific Reports, 2021, vol. 11, pp. 18253

Age-specific SARS-CoV-2 infection fatality ratio and associated risk factors, Italy, February to April 2020

POLETTI, P., M. TIRANI, D. CEREDA, F. TRENTINI, G. GUZZETTA, V. MARZIANO, S. BUORO, S. RIBOLI, L. CROTTOGINI, R. PICCARRETA, A. PIATTI, G. GRASSELLI, A. MELEGARO, M. GRAMEGNA, M. AJELLI, S. MERLER, "Age-specific SARS-CoV-2 infection fatality ratio and associated risk factors, Italy, February to April 2020", Eurosurveillance, 2020, vol. 25, no. 31, pp. 2001383

COVID-SCORE: A global survey to assess public perceptions of government responses to COVID-19 (COVID-SCORE-10)

LAZARUS, J. V., S. RATZAN, A. PALAYEW, F. C. BILLARI, A. BINAGWAHO, S. KIMBALL, H. J. LARSON, A. MELEGARO, K. RABIN, T. M. WHITE, A. EL-MOHANDES, D. HOTCHKISS, "COVID-SCORE: A global survey to assess public perceptions of government responses to COVID-19 (COVID-SCORE-10)", Plos One, 2020, vol. 15, no. 10, pp. e0240011

Potential short-term outcome of an uncontrolled COVID-19 epidemic in Lombardy, Italy, February to March 2020

GUZZETTA, G., P. POLETTI, M. AJELLI, F. TRENTINI, V. MARZIANO, D. CEREDA, M. TIRANI, G. DIURNO, A. BODINA, A. BARONE, L. CROTTOGINI, M. GRAMEGNA, A. MELEGARO, S. MERLER, "Potential short-term outcome of an uncontrolled COVID-19 epidemic in Lombardy, Italy, February to March 2020", Eurosurveillance, 2020, vol. 25, no. 12

Austerity, measles and mandatory vaccination: cross-regional analysis of vaccination in Italy 2000–14

TOFFOLUTTI, V., M. MCKEE, A. MELEGARO, W. RICCIARDI, D. STUCKLER, "Austerity, measles and mandatory vaccination: cross-regional analysis of vaccination in Italy 2000–14", European Journal of Public Health, 2019, vol. 29, no. 1, pp. 123-127

Parental vaccination to reduce measles immunity gaps in Italy

MARZIANO, V., P. POLETTI, F. TRENTINI, A. MELEGARO, M. AJELLI, S. MERLER, "Parental vaccination to reduce measles immunity gaps in Italy", eLife, September 2019, vol. 8, pp. e44942

The introduction of 'No jab, No school' policy and the refinement of measles immunisation strategies in high-income countries

TRENTINI, F., P. POLETTI, A. MELEGARO, S. MERLER, "The introduction of 'No jab, No school' policy and the refinement of measles immunisation strategies in high-income countries", BMC Medicine, 2019, vol. 17, no. 1, pp. 86

A Systematic Review of Social Contact Surveys to Inform Transmission Models of Close-contact Infections

HOANG, T., P. COLETTI, A. MELEGARO, J. WALLINGA, C. G. GRIJALVA, J. W. EDMUNDS, P. BEUTELS, N. HENS, "A Systematic Review of Social Contact Surveys to Inform Transmission Models of Close-contact Infections", Epidemiology, 2019, vol. 30, no. 5, pp. 723-736

Study design and protocol for investigating social network patterns in rural and urban schools and households in a coastal setting in Kenya using wearable proximity sensors

KITI, M. C., A. MELEGARO, C. CATTUTO, D. J. NOKES, "Study design and protocol for investigating social network patterns in rural and urban schools and households in a coastal setting in Kenya using wearable proximity sensors", Wellcome Open Research, 2019, vol. 4, pp. 84

The potential impact of the demographic transition in the Senegal-Gambia region of sub-Saharan Africa on the burden of infectious disease and its potential synergies with control programmes: the case of hepatitis B

WILLIAMS, J. R., P. MANFREDI, A. MELEGARO, "The potential impact of the demographic transition in the Senegal-Gambia region of sub-Saharan Africa on the burden of infectious disease and its potential synergies with control programmes: the case of hepatitis B", BMC Medicine, 2018, vol. 16, no. 1

The impact of demographic changes, exogenous boosting and new vaccination policies on varicella and herpes zoster in Italy: a modelling and cost-effectiveness study

MELEGARO, A., V. MARZIANO, E. DEL FAVA, P. POLETTI, M. TIRANI, C. RIZZO, S. MERLER, "The impact of demographic changes, exogenous boosting and new vaccination policies on varicella and herpes zoster in Italy: a modelling and cost-effectiveness study", BMC Medicine, 2018, vol. 16, no. 1

The containment of potential outbreaks triggered by imported Chikungunya cases in Italy: a cost utility epidemiological assessment of vector control measures

TRENTINI, F., P. POLETTI, F. BALDACCHINO, A. DRAGO, F. MONTARSI, G. CAPELLI, A. RIZZOLI, R. ROSÀ, C. RIZZO, S. MERLER, A. MELEGARO, "The containment of potential outbreaks triggered by imported Chikungunya cases in Italy: a cost utility epidemiological assessment of vector control measures", Scientific Reports, 2018, vol. 8, no. 1

Measles immunity gaps and the progress towards elimination: a multi-country modelling analysis

TRENTINI, F., P. POLETTI, S. MERLER, A. MELEGARO, "Measles immunity gaps and the progress towards elimination: a multi-country modelling analysis", The Lancet Infectious Diseases, 2017, vol. 17, no. 10, pp. 1089-1097

Social Contact Structures and Time Use Patterns in the Manicaland Province of Zimbabwe

NISHIURA, H., E. DEL FAVA, P. POLETTI, S. MERLER, C. NYAMUKAPA, J. WILLIAMS, S. GREGSON, P. MANFREDI, "Social Contact Structures and Time Use Patterns in the Manicaland Province of Zimbabwe",

Cost-benefit analysis of controlling the spotted wing drosophila (Matsumura) spread and infestation of soft fruits in Trentino, Northern Italy

DEL FAVA, E., C. IORIATTI, A. MELEGARO, "Cost-benefit analysis of controlling the spotted wing drosophila (Matsumura) spread and infestation of soft fruits in Trentino, Northern Italy", *Pest Management Science*, 2017, vol. 73, no. 11, pp. 2318-2327

Effectiveness and economic assessment of routine larviciding for prevention of chikungunya and dengue in temperate urban settings in Europe

GUZZETTA, G., F. TRENTINI, P. POLETTI, F. A. BALDACCHINO, F. MONTARSI, G. CAPELLI, A. RIZZOLI, R. ROSÀ, S. MERLER, A. MELEGARO, "Effectiveness and economic assessment of routine larviciding for prevention of chikungunya and dengue in temperate urban settings in Europe", *PLOS Neglected Tropical Diseases*, 2017, vol. 11, no. 9, pp. e0005918

Transition to Parenthood and HIV Infection in Rural Zimbabwe

DEL FAVA, E., R. PICCARRETA, S. GREGSON, A. MELEGARO, P. ANGLEWICZ, "Transition to Parenthood and HIV Infection in Rural Zimbabwe", *Plos One*, 2016, vol. 11, no. 9

Clustering of contacts relevant to the spread of infectious disease

XIAO, X., A. J. VAN HOEK, M. G. KENWARD, A. MELEGARO, M. JIT, "Clustering of contacts relevant to the spread of infectious disease", *Epidemics*, 2016, vol. 17, pp. 1-9

Health and Economic Outcomes of Introducing the New MenB Vaccine (Bexsero) into the Italian Routine Infant Immunisation Programme

TIRANI, M., M. MEREGAGLIA, A. MELEGARO, "Health and Economic Outcomes of Introducing the New MenB Vaccine (Bexsero) into the Italian Routine Infant Immunisation Programme", *Plos One*, 2015, vol. 10, no. 4, pp. e0123383

The social contact hypothesis under the assumption of endemic equilibrium: Elucidating the transmission potential of VZV in Europe

SANTERMANS, E., N. GOEYVAERTS, A. MELEGARO, W. J. EDMUNDS, C. FAES, M. AERTS, P. BEUTELS, N. HENS, "The social contact hypothesis under the assumption of endemic equilibrium: Elucidating the transmission potential of VZV in Europe", *Epidemics*, 2015, vol. 11, pp. 14-23

Conceptual frameworks and key dimensions to support coverage decisions for vaccines

GONZÁLEZ-LORENZO, M., A. PIATTI, L. COPPOLA, M. GRAMEGNA, V. DEMICHELI, A. MELEGARO, M. TIRANI, E. PARMELLI, F. AUXILIA, L. MOJA, "Conceptual frameworks and key dimensions to support coverage decisions for vaccines", *Vaccine*, 2015, vol. 33, no. 9, pp. 1206-1217

Evaluating vaccination strategies for reducing infant respiratory syncytial virus infection in low-income settings

POLETTI, P., S. MERLER, M. AJELLI, P. MANFREDI, P. K. MUNYWOKI, D. J. NOKES, A. MELEGARO, "Evaluating vaccination strategies for reducing infant respiratory syncytial virus infection in low-income settings", *BMC Medicine*, 2015, vol. 13, no. 1

The role of different social contexts in shaping influenza transmission during the 2009 pandemic

AJELLI, M., P. POLETTI, A. MELEGARO, S. MERLER, "The role of different social contexts in shaping influenza transmission during the 2009 pandemic", Scientific Reports, 2015, vol. 4, no. 1

Optimising Assessments of the Epidemiological Impact in the Netherlands of Paediatric Immunisation with 13-Valent Pneumococcal Conjugate Vaccine Using Dynamic Transmission Modelling

DE CAO, E., A. MELEGARO, R. KLOK, M. POSTMA, "Optimising Assessments of the Epidemiological Impact in the Netherlands of Paediatric Immunisation with 13-Valent Pneumococcal Conjugate Vaccine Using Dynamic Transmission Modelling", Plos One, 2014, vol. 9, no. 4, pp. e89415

The relative importance of frequency of contacts and duration of exposure for the spread of directly transmitted infections

DE CAO, E., E. ZAGHENI, P. MANFREDI, A. MELEGARO, "The relative importance of frequency of contacts and duration of exposure for the spread of directly transmitted infections", Biostatistics, 2014, vol. 15, no. 3, pp. 470-483

The role of different social contexts in shaping influenza transmission during the 2009 pandemic

AJELLI, M., P. POLETTI, A. MELEGARO, S. MERLER, "The role of different social contexts in shaping influenza transmission during the 2009 pandemic", Scientific Reports, 2014, vol. 4, no. 1

Genetic Screening for the Predisposition to Venous Thromboembolism: A Cost-Utility Analysis of Clinical Practice in the Italian HealthCare System

COMPAGNI, A., A. MELEGARO, R. TARRICONE, "Genetic Screening for the Predisposition to Venous Thromboembolism: A Cost-Utility Analysis of Clinical Practice in the Italian HealthCare System", Value in Health, 2013, vol. 16, no. 6, pp. 909-921

Perspectives on the Impact of Varicella Immunization on Herpes Zoster. A Model-Based Evaluation from Three European Countries

POLETTI, P., A. MELEGARO, M. AJELLI, E. DEL FAVA, G. GUZZETTA, L. FAUSTINI, G. SCALIA TOMBA, P. LOPALCO, C. RIZZO, S. MERLER, P. MANFREDI, "Perspectives on the Impact of Varicella Immunization on Herpes Zoster. A Model-Based Evaluation from Three European Countries", Plos One, 2013, vol. 8, no. 4, pp. e60732

Systematic review of the economic literature on genetic testing for the prevention of venous thromboembolism

COMPAGNI, A., A. MELEGARO, R. TARRICONE, "Systematic review of the economic literature on genetic testing for the prevention of venous thromboembolism", Italian Journal of Public Health, 2012, vol. 9, no. 2, suppl 1, pp. 36-45

The cost-effectiveness of varicella and combined varicella and herpes zoster vaccination programmes in the United Kingdom

VAN HOEK, A. J., A. MELEGARO, N. GAY, J. BILCKE, W. J. EDMUNDS, "The cost-effectiveness of varicella and combined varicella and herpes zoster vaccination programmes in the United Kingdom", Vaccine, 2012, vol. 30, no. 6, pp. 1225-1234

Modelling the impact of a combined varicella and zoster vaccination programme on the epidemiology of varicella zoster virus in England

VAN HOEK, A. J., A. MELEGARO, E. ZAGHENI, W. J. EDMUNDS, N. GAY, "Modelling the impact of a combined varicella and zoster vaccination programme on the epidemiology of varicella zoster virus in England", *Vaccine*, 2011, vol. 29, no. 13, pp. 2411-2420

Modelling the impact of local reactive school closures on critical care provision during an influenza pandemic

HOUSE, T., M. BAGUELIN, A. J. VAN HOEK, P. J. WHITE, Z. SADIQUE, K. EAMES, J. M. READ, N. HENS, A. MELEGARO, W. J. EDMUNDS, M. J. KEELING, "Modelling the impact of local reactive school closures on critical care provision during an influenza pandemic", *Proceedings of the Royal Society B: Biological Sciences*, 2011, vol. 278, no. 1719, pp. 2753-2760

Cost effectiveness of pediatric pneumococcal conjugate vaccines: a comparative assessment of decision-making tools

CHAIYAKUNAPRUK, N., R. SOMKRUA, R. HUTUBESSY, A. M. HENAO, J. HOMBACH, A. MELEGARO, J. W. EDMUNDS, P. BEUTELS, "Cost effectiveness of pediatric pneumococcal conjugate vaccines: a comparative assessment of decision-making tools", *BMC Medicine*, 2011, vol. 9, no. 1

7-Valent Pneumococcal Conjugate Vaccination in England and Wales: Is It Still Beneficial Despite High Levels of Serotype Replacement?

CHOI, Y. H., M. JIT, N. GAY, N. ANDREWS, P. A. WRIGHT, A. MELEGARO, R. GEORGE, E. MILLER, "7-Valent Pneumococcal Conjugate Vaccination in England and Wales: Is It Still Beneficial Despite High Levels of Serotype Replacement?", *Plos One*, 2011, vol. 6, no. 10, pp. e26190

What types of contacts are important for the spread of infections? Using contact survey data to explore European mixing patterns

MELEGARO, A., M. JIT, N. GAY, E. ZAGHENI, W. J. EDMUNDS, "What types of contacts are important for the spread of infections? Using contact survey data to explore European mixing patterns", *Epidemics*, 2011, vol. 3, no. 3-4, pp. 143-151

Dynamic models of pneumococcal carriage and the impact of the Heptavalent Pneumococcal Conjugate Vaccine on invasive pneumococcal disease

MELEGARO, A., Y. H. CHOI, R. GEORGE, W. J. EDMUNDS, E. MILLER, N. J. GAY, "Dynamic models of pneumococcal carriage and the impact of the Heptavalent Pneumococcal Conjugate Vaccine on invasive pneumococcal disease", *BMC Infectious Diseases*, 2010, vol. 10, no. 1

Estimating the cost-effectiveness of vaccination against herpes zoster in England and Wales

VAN HOEK, A. J., N. GAY, A. MELEGARO, W. OPSTELTEN, W. J. EDMUNDS, "Estimating the cost-effectiveness of vaccination against herpes zoster in England and Wales", *Vaccine*, 2009, vol. 27, no. 9, pp. 1454-1467

Using Time-Use Data to Parameterize Models for the Spread of Close-Contact Infectious Diseases

ZAGHENI, E., F. C. BILLARI, P. MANFREDI, A. MELEGARO, J. MOSSONG, W. J. EDMUNDS, "Using Time-Use Data to Parameterize Models for the Spread of Close-Contact Infectious Diseases", *American Journal of Epidemiology*, 2008, vol. 168, no. 9, pp. 1082-1090

Assessing the burden of influenza and other respiratory infections in England and Wales

PITMAN, R. J., A. MELEGARO, D. GELB, M. R. SIDDIQUI, N. J. GAY, W. J. EDMUNDS, "Assessing the burden of influenza and other respiratory infections in England and Wales", *Journal of Infection*, 2007, vol. 54, no. 6, pp. 530-538

Pneumococcal Carriage in United Kingdom Families: Estimating Serotype-specific Transmission Parameters from Longitudinal Data

MELEGARO, A., Y. CHOI, R. PEBODY, N. GAY, "Pneumococcal Carriage in United Kingdom Families: Estimating Serotype-specific Transmission Parameters from Longitudinal Data", *American Journal of Epidemiology*, 2007, vol. 166, no. 2, pp. 228-235

The current burden of pneumococcal disease in England and Wales

MELEGARO, A., W. EDMUNDS, R. PEBODY, E. MILLER, R. GEORGE, "The current burden of pneumococcal disease in England and Wales", *Journal of Infection*, 2006, vol. 52, no. 1, pp. 37-48

A longitudinal household study of nasopharyngeal carriage in a UK setting

HUSSAIN, M., A. MELEGARO, R. G. PEBODY, R. GEORGE, W. J. EDMUNDS, R. TALUKDAR, S. A. MARTIN, A. EFSTRATIOU, E. MILLER, "A longitudinal household study of nasopharyngeal carriage in a UK setting", *Epidemiology and Infection*, 2005, vol. 133, no. 5, pp. 891-898

Antibody Responses to Nasopharyngeal Carriage of in Adults: A Longitudinal Household Study

GOLDBLATT, D., M. HUSSAIN, N. ANDREWS, L. ASHTON, C. VIRTÀ, A. MELEGARO, R. PEBODY, R. GEORGE, A. SOININEN, J. EDMUNDS, N. GAY, H. KAYHTY, E. MILLER, "Antibody Responses to Nasopharyngeal Carriage of in Adults: A Longitudinal Household Study", *The Journal of Infectious Diseases*, 2005, vol. 192, no. 3, pp. 387-393

The 23-Valent Pneumococcal Polysaccharide Vaccine. Part I. Efficacy of PPV in the Elderly: A Comparison of Meta-Analyses

MELEGARO, A., W. J. EDMUNDS, "The 23-Valent Pneumococcal Polysaccharide Vaccine. Part I. Efficacy of PPV in the Elderly: A Comparison of Meta-Analyses", *European Journal of Epidemiology*, 2004, vol. 19, no. 4, pp. 353-363

The 23-Valent Pneumococcal Polysaccharide Vaccine. Part II. A Cost-Effectiveness Analysis for Invasive Disease in the Elderly in England and Wales

MELEGARO, A., W. J. EDMUNDS, "The 23-Valent Pneumococcal Polysaccharide Vaccine. Part II. A Cost-Effectiveness Analysis for Invasive Disease in the Elderly in England and Wales", *European Journal of Epidemiology*, 2004, vol. 19, no. 4, pp. 365-375

Cost-effectiveness analysis of pneumococcal conjugate vaccination in England and Wales

MELEGARO, A., W. J. EDMUNDS, "Cost-effectiveness analysis of pneumococcal conjugate vaccination in England and Wales", *Vaccine*, 2004, vol. 22, no. 31-32, pp. 4203-4214

Estimating the transmission parameters of pneumococcal carriage in households

MELEGARO, A., N. J. GAY, G. F. MEDLEY, "Estimating the transmission parameters of pneumococcal carriage in households", *Epidemiology and Infection*, 2004, vol. 132, no. 3, pp. 433-441

Measurement and interpretation of pneumococcal IgG levels for clinical management

BALMER, P., J. NORTH, D. BAXTER, E. STANFORD, A. MELEGARO, E. B. KACZMARSKI, E. MILLER, R. BORROW, "Measurement and interpretation of pneumococcal IgG levels for clinical management", *Clinical and Experimental Immunology*, 2003, vol. 133, no. 3, pp. 364-369

The potential cost-effectiveness of acellular pertussis booster vaccination in England and Wales

EDMUNDS, W. J., M. BRISSON, A. MELEGARO, N. J. GAY, "The potential cost-effectiveness of acellular pertussis booster vaccination in England and Wales", *Vaccine*, 2002, vol. 20, no. 9-10, pp. 1316-1330

Articles in national/international newspapers

Prevedere le crisi la nuova frontiera della salute pubblica

MELEGARO, A., "Prevedere le crisi la nuova frontiera della salute pubblica", *Economia de Il Corriere della Sera*, 24 March 2025

Proceedings/Presentations

Unraveling Timing and Determinants of Childhood Vaccination: The Italian Case

CHIAVENNA, C., F. TRENTINI, M. ERCOLANONI, G. PREZIOSI, D. CEREDA, C. R. BORRIELLO, A. MELEGARO, "Unraveling Timing and Determinants of Childhood Vaccination: The Italian Case" in *Population Association of America 2024 Annual Meeting*, April 17–20, 2024, Columbus OH, United States of America

The Role of Peer Influence in Shaping Individual Vaccine Attitudes

CHIAVENNA, C., L. LUCCHINI, L. P. LEONE, M. CUCCINIELLO, A. MELEGARO, "The Role of Peer Influence in Shaping Individual Vaccine Attitudes" in *Population Association of America 2024 Annual Meeting*, April 17–20, 2024, Columbus OH, United States of America

Impact of the SARS-CoV-2 Pandemic on Hospital Costs: Evidence from Three Cohorts of Patients Hospitalized in Milan Area Before and During the Pandemic

CIANI, O., F. TRENTINI, E. VANNI, S. GHISLANDI, A. TORBICA, A. MELEGARO, "Impact of the SARS-CoV-2 Pandemic on Hospital Costs: Evidence from Three Cohorts of Patients Hospitalized in Milan Area Before and During the Pandemic" in *IHEA's 15th World Congress*, July 8-12, 2023, Cape Town, South Africa

Changes in Contact Patterns Associated to Increasing Restrictions and the Impact on COVID-19 Transmissibility: A Case Study in the Metropolitan City of Milan

TRENTINI, F., A. MANNA, N. BALBO, P. POLETTI, A. MELEGARO, "Changes in Contact Patterns Associated to Increasing Restrictions and the Impact on COVID-19 Transmissibility: A Case Study in the Metropolitan City

of Milan" in Population Association of America 2022 Annual Meeting, April 6 – 9, 2022, Atlanta GA, United States of America

The role of demographic structure and social contact patterns in an uncontrolled SARS - CoV - 2 pandemic

MELEGARO, A., "The role of demographic structure and social contact patterns in an uncontrolled SARS - CoV - 2 pandemic" in Conference of Complex System (CCS) - October 25-29, 2021, Lyon, France

Mathematical models to understand SARS - CoV - 2 transmission

MELEGARO, A., "Mathematical models to understand SARS - CoV - 2 transmission" in CIVICA Public Lecture Series Tours d'Europe: 'Data Analytics and the Battle Against the Pandemic' - March 18, 2021, Milano, Italy

The role of demographic structure and social contact patterns in an uncontrolled SARS - CoV - 2 pandemic

BILLARI, F. C., N. BALBO, A. MELEGARO, "The role of demographic structure and social contact patterns in an uncontrolled SARS - CoV - 2 pandemic" in Population American Association (PAA) Annual Meeting, May 5-8, 2021, (online)

The Effects of Compulsory Vaccination Law and COVID - 19 on Vaccine Hesitancy: Analyzing Digital Traces From Italy

MANNA, A., A. MELEGARO, V. TOFFOLUTTI, "The Effects of Compulsory Vaccination Law and COVID - 19 on Vaccine Hesitancy: Analyzing Digital Traces From Italy" in Population American Association (PAA) Annual Meeting, May 5-8, 2021, (online)

Heterogeneities in Social Mixing Patterns in Rural and Urban Areas of Kenya

DEL FAVA, E., P. MANFREDI, A. MELEGARO, "Heterogeneities in Social Mixing Patterns in Rural and Urban Areas of Kenya" in Population American Association (PAA) Annual Meeting, May 5-8, 2021, (online)

Individual mixing patterns relevant for infectious diseases transmission in different social contexts in Sub - Saharan Africa

MELEGARO, A., "Individual mixing patterns relevant for infectious diseases transmission in different social contexts in Sub - Saharan Africa" in 6th EPIDEMICS Conference, 29 November-1 December, 2017, Sitges, Spain

A dynamic cost - effectiveness analysis of varicella and herpes zoster vaccination programs in Italy

MELEGARO, A., "A dynamic cost - effectiveness analysis of varicella and herpes zoster vaccination programs in Italy" in 6th EPIDEMICS Conference, 29 November-1 December, 2017, Sitges, Spain

Individual mixing patterns relevant for infectious diseases transmission in different social contexts in Sub - Saharan Africa

MELEGARO, A., "Individual mixing patterns relevant for infectious diseases transmission in different social contexts in Sub - Saharan Africa" in IUSSP Conference - 29 October-3 November, 2017, Cape Town, South Africa

A dynamic cost - effectiveness analysis of varicella and herpes zoster vaccination programs in Italy

MELEGARO, A., "A dynamic cost - effectiveness analysis of varicella and herpes zoster vaccination programs in Italy" in iHEA Conference , July 8-11, 2017, Boston, MA, United States of America

Measles immunity gaps and the progress towards elimination: a multi - country modelling analysis

MELEGARO, A., "Measles immunity gaps and the progress towards elimination: a multi - country modelling analysis" in Population American Association (PAA) Annual Meeting, April 27-29, 2017, Chicago, IL, United States of America

Local demographic conditions and the progress towards measles elimination

MELEGARO, A., "Local demographic conditions and the progress towards measles elimination" in Conference on Complex System, Contagion Satellite Session, September 20, 2016, Amsterdam, Netherlands (The)

Local demographic conditions and progress towards measles elimination

MELEGARO, A., "Local demographic conditions and progress towards measles elimination" in 5th EPIDEMICS Conference, December 1-4, 2015, Clearwater Beach, FL, United States of America

RSV transmission patterns in Kenya: a tool for public policy and vaccinology

MELEGARO, A., "RSV transmission patterns in Kenya: a tool for public policy and vaccinology" in European Conference on Complex Systems, September 22-26, 2014, Lucca, Italy

Investigating Social Contact Structures and Time Use in Zimbabwe

MELEGARO, A., "Investigating Social Contact Structures and Time Use in Zimbabwe" in International Biometrics Conference, July 6-11, 2014, Firenze, Italy

The Impact of Current Demographic Trends on Childhood Infectious Diseases

MELEGARO, A., "The Impact of Current Demographic Trends on Childhood Infectious Diseases" in Population Association of America (PAA) Annual Meeting, April 11-13, 2013, New Orleans, LA, United States of America

A Real World Cost-Effectiveness Analysis of the Genetic Screening for Predisposition to Venous Thromboembolism (VTE) in the Italian Context

COMPAGNI, A., A. MELEGARO, R. TARRICONE, P. VILLARI, E. DI MARIA, G. RICCIARDI, "A Real World Cost-Effectiveness Analysis of the Genetic Screening for Predisposition to Venous Thromboembolism (VTE) in the Italian Context" in 8th International Congress on Health Economics - July 9-13, 2011, Toronto, Canada

Modelling varicella and zoster in Europe: can we cope with the current decision paralysis on mass immunization?

MELEGARO, A., "Modelling varicella and zoster in Europe: can we cope with the current decision paralysis on mass immunization?" in 3rd EPIDEMICS Conference, 29 November-2 December, 2011, Boston, MA, United States of America

The role of social contacts on children's health: Statistical inference on infectious disease data

MELEGARO, A., "The role of social contacts on children's health: Statistical inference on infectious disease data" in Population Association of America (PAA) Conference, 31 March-2 April, 2011, Washington, WA, United States of America

Other

Come convincere i no-vax a vaccinarsi

CUCCINIELLO, M., A. MELEGARO, "Come convincere i no-vax a vaccinarsi", Eco, June 2024

The strength of family ties and Covid-19

BALBO, N., F. C. BILLARI, A. MELEGARO, "The strength of family ties and Covid-19", Contexts, 6 April 2020

Comments, Discussions, Replies in Journal

Personal risk or societal benefit? Investigating adults' support for COVID-19 childhood vaccination

CHIAVENNA, C., L. P. LEONE, A. MELEGARO, T. ROTESI, S. E. BOKEMPER, E. E. PAINTSIL, A. A. MALIK, G. A. HUBER, S. B. OMER, M. CUCCINIELLO, P. PIN, "Personal risk or societal benefit? Investigating adults' support for COVID-19 childhood vaccination", Vaccine, 2023, vol. 41, no. 25, pp. 3683-3687

Measles vaccination: no time to rest

MELEGARO, A., "Measles vaccination: no time to rest", The Lancet Global Health, 2019, vol. 7, no. 3, pp. e282-e283

Research Notes or short Articles in Journals

Increasing vaccine uptake: confronting misinformation and disinformation

MCKEE, M., W. RICCIARDI, L. SICILIANI, B. RECHEL, V. TOFFOLUTTI, D. STUCKLER, A. MELEGARO, J. C. SEMENZA, "Increasing vaccine uptake: confronting misinformation and disinformation", Eurohealth, 2018, vol. 24, no. 3, pp. 24-35

Parent "cocoon" immunization to prevent pertussis-related hospitalization in infants: The case of Piemonte in Italy

MEREGAGLIA, M., L. FERRARA, A. MELEGARO, V. DEMICHELI, "Parent "cocoon" immunization to prevent pertussis-related hospitalization in infants: The case of Piemonte in Italy", Vaccine, 2013, vol. 31, no. 8, pp. 1135-1137

Research Monographs

Pandemie d'Italia. Dalla peste nera all'influenza suina: l'impatto sulla società

ALFANI, G., A. MELEGARO - "Pandemie d'Italia. Dalla peste nera all'influenza suina: l'impatto sulla società" - 2010, Egea, Milano, Italy