



The Extended Study of Prevalence of Infection in Intensive Care II

## List of participating centers by country alphabetically

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**Andorra:** Hospital Nostra Senyora de Meritxell (A Margarit);

**Argentina:** Centro de Educación Médica E Investigaciones Clínicas (R Valentini); Clínica de Especialidades Villa Maria (Z Alan Javier); Clínica Modelo de Morón (C Bevilacqua); Clínica Y Maternidad Suizo (M Curone); CMIC (R Rabuffetti); Hospital Aleman (P Comignani); Hospital Argerich (M Torres Boden); Hospital Británico (F Chertcoff); Hospital Central de San Isidro (G Cardonatti); Hospital de Niños Dr. Héctor Quintana (F Adén); Hospital del Niño Jesús (L Marcos); Hospital Dr Pedro Ecay (M Dónofrio); Hospital Español de Mendoza (R Fernández); Hospital Español Medical Plaza (R Lamberghini); Hospital Internacional General de Agudos "José de San Matín" (S Balasini); Hospital Interzonal Dr. O.Alende (J Teves); Hospital Italiano de Buenos Aires (M Las Heras, J Sinner); Hospital Juan A. Fernández (D Ceraso); Hospital Municipal de Chivilcoy (D Curcio); Hospital Profesor Alejandro Posadas (L Aguilar); Hospital Provincial de Rosario (C Weller); Hospital Provincial del Centenario (L Cardonnet); Hospital Regional Rio Gallegos (R Santa Cruz); Hospital Regional Ushuaia (E Manrique); Hospital Universitario Austral (D Bernardez, T Iolster); Hospital Universitario Universidad Abierta Interamericana (G Chiappero); Instituto Privado del Quemado Med-Inter (D Curcio); Nuevo Hospital El Milagro (P Ramos); Ramos Mejia Hospital (J Vergara); Sanatorio Agote (I Moine); Sanatorio de la Trinidad Mitre (S Ilutovich); Sanatorio de Los Arcos (G Jannello); Sanatorio Dupuytren (M Waschbusch); Sanatorio Frangioli de Salud 2000 Srl (G Rios Picaza); Sanatorio Mater Dei (A Raimondi); Sanatorio Otamendi Y Miroli (M Miriam); Sanatorio Parque (C Lovesio); Sanatorio San José (D Curcio); Centro Gallego de Buenos Aires (M Caridi);

**Australia:** Alfred Hospital (T Leong); Barwon Health (N Orford); Blacktown Hospital (G Reece); Box Hill Hospital (D Ernest); Cabrini Hospital (F Hawker); Concord Repatriation General Hospital (J Tan); Epworth Eastern Private Hospital (C Giannellis); Epworth Hospital Richmond (B Ihle); Flinders Medical Centre (A Bersten); Frankston Hospital (J McInnes); Gold Coast Hospital (M Tallott); John Hunter Hospital (B Mcfadyen); Joondalup Health Campus (J Vibert); Liverpool Hospital, Sydney South West Area Health Service (M Parr); Logan Hospital (K Tran); Mater Health Services (J Sutton); Mount Hospital (S Webb); Nambour General Hospital (N Groves); Nepean Hospital, NSW (L Cole); Prince Charles Hospital (D Long); Prince of Wales Hospital (F Bass); Princess Margaret Hospital For Children (S Erickson); Royal Brisbane and Womens' Hospital (J Lipman); Royal Children's Hospital, Brisbane (D Long); Royal Children's Hospital, Melbourne (C Delzoppo); Royal Darwin Hospital (J Thomas); Royal Perth Hospital (G Dobb); Royal Prince Alfred Hospital (M Daley); Sir Charles Gairdner Hospital (B Roberts); St John of God Hospital, Subiaco (S Webb); St Vincent's Hospital, Melbourne (J Santamaria); Sydney Children's Hospital (J Young); The Children's Hospital at Westmead, Sydney (M Festa); The John Flynn Private Hospital (R Holland); The Prince Charles Hospital (D Mullany); The Queen Elizabeth Hospital (P Williams); The Townsville Hospital (M Corkeron); The Wollongong Hospital (M Gales); Westmead Hospital (A Banerjee); Women's and Children's Hospital, Adelaide (M Yung);

**Austria:** University Hospital Innsbruck (N Mutz, M Hiesmayr); General Hospital (P Faybik); Hospital Hietzing (R Fitzgerald); Krankenhaus Barmherzige Brüder Linz (F Firlinger); Krankenhaus Der Barmherigen Brueder Wien (G Zasmeta); Krankenhaus Der Barmherzigen



The **E**xtended **S**tudy of **P**revalence of **I**nfection in **I**ntensive **C**are II

Brüder St. Veit (M Zink); Krankenhaus Der Barmherzigen Schwestern Linz (W Sieber); Krankenhaus Steyr (J Hildegard); Landeskrankenhaus Klagenfurt (R Bakondy); Landeskrankenhaus Stolzalpe (J Schlieber); Landeskrankenhaus Deutschlandsberg (G Filzwieser); Medical University Innsbruck (R Beer, M Joannidis); Medical University of Vienna (T Staudinger); Otto-Wagner Hospital (R Schuster); Unfallkrankenhaus Meidling Der Auva (W Scherzer); University Hospital (K Smolle); Wilhelminenspital (S Fitzal);

**Bangladesh:** Central Hospital Limited (R Manzoor);

**Belgium:** A.I.T. (J Brunain); Ambroise Paré (A D'Hondt); ASZ-Aalst (G Huylbroeck); AZ Groeninge Kortrijk (M Van der Schueren); AZ Maria Middelaers (H 't Kindt); AZ Sint Jozef Malle (E Slock); AA Sint Lucas (D Rijckaert); AZ St Augustinus (J Raemaekers); AZ St Jan Av (M Bourgeois); AZ Vesalius (I Van Cotthem); AZ Damiaan Oostende (G Nackaerts); CHNDRF. (D Gusu); Centre Hospitalier de Mouscron (P Gadisseux); CHA Libramont (O Vancollie); Chirec-Braine-L'Alleud (H Lignian); CHPLT Verviers (P Michel); CHR Citadelle (V Fraipont); CHR Haute Senne Soignies (M Vander Stappen); CHR St Joseph Mons-Warquignies (F Forêt); CHU Brugmann (D De Bels, J Devriendt, J Massaut); CHU Charleroi (P Biston); CHU Saint-Pierre (A Roman); CHU Sart Tilman, Liège (B Lambermont); Clinique Sainte Elisabeth (A De Meulder); Clinique Notre Dame (V Frederic); Clinique Notre-Dame de Grâce (T Sottiaux); Clinique Saint Luc, Bouge (P Ruyffelaere); Cliniques de L'Europe, St-Michel (V Collin); Cliniques de L'Europe, Ste Elisabeth (S Anane); Hôpital Francais (P Kleiren); Hôpital Saint-Joseph (M Simon); CHHF, Hornu (S Machayekhi); Imeldaziekenhuis (E Frans); Institut Jules Bordet (G Leroy, T Berghmans); Jan Yperman Hospital (R Joseph); Olv Ter Linden Ziekenhuis, Knokke (J Eerens); Saint Luc University Hospital (P Laterre); Sint Augustinus, Veurne (B Lagrou); St Vincent (R Rutsaert); St-Jozefkliniek Bornem-Willebroek (W Pisarek); UCL Mont-Godinne (A Dive); Universitair Ziekenhuis Gent (J De Waele); University Hospital Brussels (H Spapen); University Hospital of Liege (P Damas); Erasme University Hospital (JL Vincent); ZNA Stuivenberg (M Malbrain);

**Belize:** Universal Health Services, Medical Center (J Hidalgo);

**Brazil:** Bandeirantes Hospital (M Baptista); Barra Dor Hospital (D Salgado); Biocor Instituto (M Braga); Casa de Saude Sao Jose Caxias (C Avila); Centro Hospitalar Unimed (G Westphal); Centro Integrado de Atenção à Saúde -Unimed Vitória (E Caser); Clínica São Vicente da Gávea (A Alves); Complexo Hospitalar Santa Casa de Porto Alegre (G Friedman); Erasto Gaertner Hospital (M Luz); Federal University of Sao Paulo (M Assuncao); Fundacao Hospital de Clinicas Gaspar Vianna (H Reis); Fundação Hospitalar Do Estado de Minas Gerais - Fhemig (A Gomes); Fundação Pio XII (U Silva); UNIFESP (W Nogueira Fh); Hospital das Clínicas - FMUSP (S El-Dash); Hospital Padre Albino-Faculdade de Medicina de Catanduva (J Valiatti); Hospital Alberto Cavalcanti (A Barbosa); Hospital Badim (C Coelho); Hospital Cardiotrauma Ipanema (M Knibel); Hospital Carlos Fernando Malzoni (C Minelli); Hospital da Cidade de Passo Fundo (J Caovilla); Hospital das Clínicas da Faculdade de Medicina de Ribeirão Preto da Universidade de São Paulo (G Teixeira); Hospital das Clínicas, University of São Paulo (A Hovnanian); Hospital das Nacoes (A Rea-Neto); Hospital de Base-Famerp (S Lobo); Hospital de Clínicas Mario Lioni (M Lugarinho); Hospital de Clínicas Niterói (P Souza); Hospital de Doenças Tropicais de Goiânia (D Ferreira); Hospital do Cancer / Uopecan (P Duarte); Hospital do Trabalhador (M Oliveira); Hospital dos Servidores do Estado Rio de Janeiro (J Marques); Hospital e Maternidade São José (R Machado); Hospital



The Extended Study of Prevalence of Infection in Intensive Care II

Estadual Diadema (P Rehder); UNISA - Universidade de Santo Amaro (S Mataloun); Hospital Evangelico (M Grilo); Hospital Evangelico do Rio de Janeiro (P Quesado); Hospital Geral de Pedreira (M Moock); Hospital Geral de São Mateus (F Ferreira); Hospital Geral Roberto Santos (J Teles); Hospital Israelita Albert Einstein (E Silva); Hospital Israelita Albert Sabin (C Coelho); Hospital Júlia Kubitschek (A Moraes); Hospital Mater Dei (F Bruzzi de Carvalho); Hospital Memorial Arthur Ramos (M Wanderley); Hospital Meridional (M Velasco); Hospital Moinhos de Vento (N Brandão da Silva); Hospital Municipal São José (J Feijó); Hospital Nossa Senhora da Salette (P Duarte); Hospital Pasteur (V Souza Dantas); Hospital Português (J Teles); Hospital Pró-Cardíaco (R Costa Filho); Hospital Quinta D'Or (A Japiassú); Hospital Regional Antônio Dias (D Villela); Hospital Regional de Barbacena (C Santos); Hospital Salvador (R Passos); Hospital Samaritano Sao Paulo (R Alheira-Rocha); Hospital Santa Izabel (R Silva); Hospital Santa Paula (J Houly); Hospital Sao Cristovao (J Aldrighi); Hospital São Lucas (R Hatum); Hospital São Lucas da PUCRS (F Superregui Dias); Hospital São Luiz - Unidade Itaim (L Ferreira); Hospital São Rafael (L Ferro); Hospital São Vicente de Paulo (J Gomez); Hospital Universitário Clementino Fraga Filho - Ufrj (R Fleury); Hospital Universitario da Universidade Federal do Rio de Janeiro (C David); Hospital Universitário de Santa Maria (T Resener); Hospital Universitário do Oeste do Paraná (P Duarte); Hospital Universitário Lauro Wanderley - UTI Adulto (C Mendes); Hospital Universitario Regional de Maringa (A Germano); Hospital Vita Curitiba (M Oliveira); Hospital Vivalle (F De Marco); Instituto de Pesquisa Clínica Evandro Chagas - FIOCRUZ (A Japiassú); Instituto Do Coração - HC-FMUSP (S Lage); Instituto Nacional de Cancer (J Salluh); Irmandade Santa Casa de Misericórdia de Porto Alegre (A Torelly); Luxemburgo Hospital (R Sad); Mternidade Odete Valadares (A Barbosa); Prontocor Lagoa (G Oliveira); Samaritano Hospital Rio de Janeiro (R Lima); Santa Casa Da Misericórdia de São João del Rei (J Paranhos); Santa Casa de Misericórdia de Passos (M Oliveira); Santa Casa de Porto Alegre (M Rocha); Sao Sebastiao Hospital (W Bitencourt); São Sebastião Hospital (W Bitencourt); Universidade Federal do Parana (A Rea-Neto); University of Londrina (C Grion); University of Sao Paulo (D Forte); UTI da Disciplina de Clínica Médica-Unifesp (H Guimarães); Vitória Apart Hospital (C Piras);

**Bulgaria:** Mbal Ruse (L Stephanova); Multiprofile Hospital of Active Treatment, Ruse (L Lyubenov); Uh St. Ekaterina (G Tsarianski); Univerisity Hospital (G Dimov);

**Canada:** Capital Health-Queen Elizabeth II Health Sciences Centre (R Green); Centre Hospitalier Régional de Lanaudière (J Levasseur); Children's Hospital of Eastern Ontario (R Ward); CHU Sherbrooke (O Lesur); Hôpital Charles Lemoyne (G Poirier); Mount Sinai Hospital (R Wax); Royal Jubilee Hospital (G Wood); St. Joseph's Healthcare (D Cook); St. Michael's Hospital (J Marshall); Toronto General Hospital (M Herridge); Toronto Western Hospital (N Ferguson); Victoria General Hospital (G Wood);

**Chile:** Clinica Alemana de Santiago (M Espinoza); Clinica las Condes (S Valdés jimenez); Hospital Clínico de la Pontificia Universidad Católica de Chile (A Bruhn); Hospital del Trabajador (J Micolich); Hospital Dr G. Fricke (S Galvez); Hospital El Pino (I Escamilla Leon);

**China:** Beijing Chaoyang Hospital (Q Zhan); Beijing Tongren Hospital (Y Xu); Chinense Pla General Hospital (Y Zhao); Fuxing Hospital, Capital Medical University (L Zhang); Guangdong Provincial People's Hospital (T Qin); Peking Union Medical College Hospital (B



The **E**xtended **S**tudy of **P**revalence of **I**nfection in **I**ntensive **C**are II

Du); Peking University People's Hospital (M Li); Ren Ji Hospital, Shanghai Jiao Tong University (X Wang); The Affiliated Hospital of Ningxia Medical College of China (Y Jing); The First Affiliate Hospital of China Medical University (Z Zhang); The First Affiliated Hospital of Dalian Medical University (W Xianyao); The First People's Hospital of Nantong, Jiangsu (F Li); Zhong-Da Hospital and School of Clinical Medicine, Southeast University (Y Congshan);

**Colombia:** Clinica General del Norte (C Rebolledo); Clinica Central del Quindio (D Diaz); Clinica Medellin (R Murillo Arboleda); Clinica Saludcoop (C Rebolledo); Clinica Santa Isabel de Valledupar. (A Arias Antun); Fundación Hospital San Carlos (G Montenegro); Fundacion Valle de Lili (M Granados); Hospital Bocagrande de Cartagena (C Dueñas); Hospital Departamental de Villavicencio (N Perez); Hospital El Tunal (G Libreros Duque); Hospital San Jose de Bogota (M Coral); Hospital Santa Clara (G Ortiz);

**Costa Rica:** Hospital Calderón Guardia CCSS (D Rodriguez);

**Croatia:** Hospital for Infectious Diseases (B Barsic); Sveti Duh General Hospital, School of Medicine, Zagreb (M Cubrilo-Turek); University Hospital Centre (I Gornik); University Hospital Zagreb (M Grljusic);

**Cuba:** Hospital Universitario Arnaldo Milian Castro (A Caballero lopez); Hospital Universitario Dr. Gustavo Aldereguía Lima (M Iraola ferrer);

**Czech Republic:** Centre of Cardiovascular and Transplant Surgery (P Pavlik); Charles University Teaching Hospital, Hradec Kralove (J Manak); Charles University Medical School and Teaching Hospital (J Radej); Faculty General Hospital, Charles University Prague (J Belohlavek); Faculty Hospital Brno (P Sevcik); Faculty Hospital Olomouc (L Blahut); General Teaching Hospital of 1st Faculty and Charles University (D Tyl); Horovice Hospital (J Steinbach); Klaudians Hospital (I Herold); Krajska Nemocnice Liberec (I Zykova); Nemocnice V Usti Nad Orlici (D Prchal); St. Anne's University Hospital Brno (T Bartosik); University Hospital Brno (M Kolarova); University Hospital Olomouc (R Hájek, J Kohoutová, O Marek); University Hospital Ostrava (P Hon); University Hospital Plzen (I Chytra);

**Denmark:** Århus University Hospital (H Betsch); Næstved Hospital (B Fogh); Rigshospitalet (K Espersen); Sygehus Fyn (K Jacobsen); Vejle Sygehus (P Berezowicz);

**Ecuador:** Carlos Andrade Marín Hospital (F Guerrero); Clinica La Merced (E Salgado); Hospital Eugenio Espejo (D Barahona); Hospital General de Las Fuerzas Armadas del Ecuador Hg-1 (H Del pozo sanchez); Hospital Metropolitano (M Jibaja);

**Egypt:** Dar Alfouad Hospital (A Alansary);

**Estonia:** East Tallinn Central Hospital (A Reintam); Tartu University Hospital (J Starkopf);

**Finland:** Helsinki University Central Hospital (V Harjola);

**France:** AP-HP, CHU Jean Verdier (L Tual); Assistance Publique-Hôpitaux de Marseille, CHU Nord (M Leone); Centre Hospitalier Dunkerque (M Serge); Centre Hospitalier Universitaire (P Michel); Centre Hospitalier de Tourcoing (O Leroy); Centre Hospitalier D'Auch (L Mallet); Centre Hospitalier de Blois (B Marc); Centre Hospitalier de Fougères (D Dormoy); Centre Hospitalier de Niort (H Pascal); Centre Hospitalier Dr Schaffner (L Tronchon); Centre Hospitalier du Pays D'Aix (B Garrigues); Centre Hospitalier Region Annecy (C Santré); Centre Hospitalier Universitaire Amiens (H Dupont); Centre Hospitalier Universitaire de Bicêtre (J Duranteau); Centre Hospitalier Universitaire Reims (A Leon); CH Colmar (L Henry); CHG Armentieres (C Canevet); CHU Angers (L Dube); CHU Angers (H



The Extended Study of Prevalence of Infection in Intensive Care II

Julien); CHU Bicetre (A Nadia); CHU Brest (B Francois); CHU de Bordeaux (J Gérard); CHU Dijon Hopital Général (M Freysz); CHU Hôtel Dieu - APHP (G Remy); CHU Nantes (Y Blanloeil); Clinique Ambroise Paré (P Squara); Chalons en Champagne General Hospital (JM Korach); Grenoble University Hospital (M Durand); Groupe Hospitalier du Havre (C Gabriel); Hia Laveran (P Eric); Hopital Antoine Bécclère APHP (F Jacobs); Hopital Bichat (R Bronchard); Hôpital Claude Huriez, Centre Hospitalier Régional Universitaire de Lille (E Kipnis); Hopital Cochin Paris (M Moussa); Hôpital de Haute pierre (A Launoy); Hopital de la Croix Rousse (C Guérin); Hôpital Edouard Herriot (P Vanhems); Hôpital Maison Blanche (A Wynckel); Hôpital Raymond Poincaré (B Clair); Hôpital Saint-Louis (E Azoulay); Hôpital Tenon (J Fulgencio); Hôpitaux Civils de Colmar (Y Gottwalles); Hôpitaux Universitaires de Strasbourg (T Krummel); Hospices Civils de Lyon (A Lepape); La Rochelle Hospital (O Lesieur); Lariboisiere University Hospital (D Payen); Poissy Hospital (O Hérvé); Polyclinique Saint André (J Farkas); Ranguel Hospital (P Cougot); Réanimation chirurgicale CHU Rennes (Y Mallédant); University Hospital of Bordeaux Haut-Lévêque (O Joannes-Boyau);

**Germany:** Academic Hospital Solingen (T Standl); Ameos Klinikum St.Salvator Halberstadt GMBH (U Sierig); Asklepios Fachkliniken München-Gauting (J Geiseler); Asklepios Klinik Langen (H Hopf); Behandlungszentrum Vogtareuth (M Burgau); Bergmannsheil Bochum (E Conrad-Opel); Bethanien-Krankenhaus (C Hermann); Bundeswehrkrankenhaus Ulm (M Ventzke); Charite Campus Virchow (T Henneberg, F Esposito); Charite Campus Berlin-Buch (H Loeser); Charite Campus Mitte (C Spies, H Zuckermann-Becker); Charite Campus Benjamin Franklin (S Voegeler); Clemenshospitl (R Scherer); Dominikus Krankenhaus (A Pauer); Drk-Kliniken Mark Brandenburg (S Kljucar); Drk-Krankenhaus Ratzeburg (K Delfs); Elisabeth-Krankenhaus Essen (E Blank); Ev. Kliniken Bonn Betriebsstätte Waldkrankenhaus (J Busch); Ev.-Freikirchliches Krankenhaus Rüdersdorf (K Wendt); Evang. Krankenhaus Mülheim (J Leßmann); Evangelische Kliniken Bonn Wadkrankenhaus (J Busch); Evangelisches Krankenhaus Bielefeld (F Bach); Friedrich Schiller University, Jena (Y Sakr); Gemeinschaftskrankenhaus Herdecke (T Berlet); Georg-August University of Göttingen (A Kernchen); Georg-August-University of Göttingen (M Quintel); Hanse-Klinikum Wismar (D Holst); Heart clinic of the University of Munich (E Kilger); Helfenstein Klinik (T Holubarsch); Helios Klinik Lengerich (C Raufhake); Helios-Klinikum Berlin-Buch (R, Kühlen, C Stolt); Helios Klinikum Emil Von Behring (A Lubasch); Helios Klinikum Erfurt GmbH (A Meier-Hellmann); Helios Klinikum Wuppertal Barmen (G Woebker); Henriettenstift (C Scharnofske); Herz-Jesu-Krankenhaus (M Breyer); Hochtaunus Kliniken Bad Homburg (T Risch); Hospital Links Der Weser (C Manhold); Icu In Drk Kliniken Mark Brandenburg (S Kljucar); J.W. Goethe - University Medical School Frankfurt Am Main (D Meininger); Johanniter Krankenhaus Bonn (C Greive); Johanniter Krankenhaus Stendal Ggmbh (J Rau); Jung-Stilling-Krankenhaus (A Seibel); Katharinenhospital (A Henn-beilharz); Katholisches Krankenhaus Hagen (R Wolbert); Krankenhaus Prignitz Gemmeinnützige GMBH (T Scherke); Klinik Am Eichert (J Martin); Klinik Für Herzchirurgie, Karlsruhe (M Rudolph); Klinik Füranästhesie, Operative Intensivmedizin U. Schmerztherapie (J Gleißner); Kliniken Ludwigsburg-Bietigheim GMBH (M Wolf); Kliniken Maria Hilf (F Schleibach); Klinikum Augsburg (U Jaschinski); Klinikum Bad Salzungen (A Lunkeit); Klinikum Darmstadt (M Welte); Klinikum Der J.W. Goethe-Universität (T Bingold); Klinikum Der Stedt Wolfsburg ( ); Klinikum Emden (K Kogelmann); Klinikum Forchheim (F Fischer);



The Extended Study of Prevalence of Infection in Intensive Care II

Klinikum Fuerth (B Fischer, M Schmid); Klinikum Grosshadern, Universität München (M Klein); Klinikum Harlaching Städtisches Klinikum Muenchen (A Bechtold); Klinikum Hildesheim (K Bodmann); Klinikum Kaufbeuren (J Klasen); Klinikum Landsberg (H Meyrl); Klinikum Lippe - Detmold (J Goetz); Klinikum Ludwigsburg (G Geldner); Klinikum Luedenscheid (T Helmes); Klinikum Meiningen GMBH (N Jensen); Klinikum Minden (H Eickmeyer, W Lengfelder); Klinikum Nürnberg (B Langenstein); Klinikum Rechts Der Isar (R Bogdanski); Klinikum Rechts Der Isar Der Technischen Universität München (S Jelen-Esselborn, A Umgelter); Klinikum Region Hannover (F Dörr); Klinikum Region Hannover Krankenhaus Großburgwedel (K Lüttje); Klinikum Region Hannover, Krankenhaus Oststadt-Heidehaus (D Heinemeyer); Klinikum Starnberg (M Uhl); Klinikum Stuttgart - Olgahospital (P Schirle); Klinikum Suedstadt (H Benad); Klinikum Traunstein (M Glaser); Klinikum Uelzen (W Panzer); Klinikum Worms (E Huettemann); Klinikverbund St. Ansgar, Krankenhaus Bassum (R Stierwaldt); Klinikverbund Süd-West (M Schappacher); Knappschafts-Krankenhaus Bochum-Langendreer (E Müller); Krankenhaus Freyung (Rural Hospital) (W Stadlmeyer); Krankenhaus Lübbecke (M Fantini); Krankenhaus Mol GMBH Strausberg (B Dummer); Krankenhaus Nordwest (M Thörner); Krankenhaus Nordwest (V Jost); Krankenhaus Reinbek (T Loerbroks); Kreisklinik Trostberg (T Glück); Kreiskrankenhaus Bergstrasse (R Zimmermann); Kreiskrankenhaus Calw (R Clement); Kreiskrankenhaus Mechnich GMBH (R Hering); Kreiskrankenhaus Nagold (T Klinger); Kreiskrankenhaus Rottweil (J Mehl); Kreiskrankenhaus St. Marienberg Helmstedt (H Polozek); Leopoldina-Krankenhaus (A Rothhammer); Ludmillenstift (R Seidler); Lukas-Krankenhaus Bünde (P Lorenz); Lungenfachklinik Amsee Waren Mueritz (M Lutze); Marienhospital Bruehl (M Euler); Marienkrankenhaus Schwerte (M Heintz); Martin Luther Universität Halle (M Winkler); Medizinische Klinik (M Angstwurm); Mlu Halle-Wittenberg (K Krohe); Mueritz-Klinikum Waren (T Treu); Neurological Intensive Care Unit (T Steiner); Oberschwabenklinik Wangen (S Locher); Orthopädische Klinik Markgröningen (A Walz); Ostalb-Klinikum Aalen (P Zahn); Otto-Von-Guericke Universität Magdeburg (W Brandt); Scivias-Krankenhaus St. Josef (M Marks); Ska-Bielefeld-Mitte (F Henning); St. Antonius Hospital (U Janssens); St. Hildegardis Krankenhaus Mainz (M Luethgens); St. Johannes Krankenhaus (W Theelen); St. Johannes-Hospital (M Sydow); St. Johannes-Hospital (M Weber); St. Josef-Hospital, Ruhr-Universität Bochum (A Meiser); St. Josefs-Hospital (C Deutschmann); St. Joseph Krankenhaus (C Buttner); St.-Marien Hospital Lünen (M Jokiel); St. Marienhospital Hamm (C Bozzetti); St. Vincentius Kliniken (B Jürgen); St.-Elisabeth Krankenhaus Köln-Hohenlind (F Fiedler); St.-Vincentius-Krankenhaus Speyer (K Wresch); Städtischen Kliniken Neuss - Lukaskrankenhaus (A Kremer); Städtisches Klinikum Karlsruhe (H Bleier); Städtisches Klinikum Wiesbaden, Dr.-Horst-Schmidt-Kliniken Hsk (M Rueckert); Staedtisches Klinikum Guetersloh (H Ditter); Staedtisches Klinikum Muenchen Gmbh - Klinikum Harlaching (C Peckelsen); Staedtisches Klinikum Muenchen Gmbh/Klinikum Bogenhausen (P Friederich); Staedtisches Klinikum München - Klinikum Neuperlach (K Weber); Tübingen University Hospital (W Krueger); Ubbo-Emmius-Klinik Aurich (R Lowack); Überlingen Hospital (A Michalsen); Uniklinikum Dresden (M Ragaller); Universitaetsklinikum des Saarlandes (A Groeschel); Universitaetsklinikum Mannheim (T Friedrich); Universität Rostock (M Hinz); Universitätsklinikum Der Martin-Luther-Universität Halle-Wittenberg (A Christel); Universitätsklinikum Dresden Carl Gustav Carus (M Ragaller);



The **E**xtended **S**tudy of **P**revalence of **I**nfection in **I**ntensive **C**are II

Universitätsklinikum Leipzig Aör (T Hartwig, U Kaisers, D Schmitt,); Universitätsmedizin Berlin Charité Campus Benjamin Franklin (S Vögeler); University (M Weiss); University Childrens Hospital Hauner (K Reiter); University Hospital (T Schwab); University Hospital Cologne (U Trieschmann); University Hospital Dusseldorf (D Kindgen-milles); University Hospital Giessen and Marburg GmbH - Giessen (J Engel); University Hospital Lübeck (B Sedemund-adib); University Hospital Mainz (M Lauterbach); University Hospital Marburg (M Max); University Hospital Muenster (T Volkert); University Hospital of Essen (C Waydhas); University Hospital of Mannheim (S Hien); University Hospital of Munich, LMU (J Briegel); University Hospital of Regensburg (V Guralnik); University Hospital Rwth Aachen (N Zoremba); University Hospital Tübingen (R Riessen); University Hospital Würzburg (W Müllges); University Medical Center Hamburg-Eppendorf (A Nierhaus); University of Erlangen (R Strauss); University of Freiburg (S Utzolino); University of Giessen (J Thul); University of Greifswald (P Abel, M Gründling, W Keßler); University of Heidelberg (K Scheuren); University of Rostock (D Vagts); University of Saarland (H Rensing); University Hospital Essen (B Schoch); University Hospital (K Kopp); Vivantes - Klinikum Neukoelln (H Gerlach); Vivantes Klinikum Prenzlauer Berg (M Corea); Vivantes-Klinikum Am Urban (A Uhrig); Westkuestenlinikum Heide (S Schroeder); Westküstenklinikum Heide (F Jordan); Westpfalz-Klinikum Kaiserslautern (T Huber); Zentralökllinikum Augsburg (M Bittinger);

**Greece:** Ahepa University Hospital (E Sofianos); Athens University Medical School (A Armaganidis); Evangelismos Hospital (C Routsis); G.Papanikolaou (M Bitzani); General Hospital of Rethymno (A Chalkiadaki); Henry Dunant Hospital (A Michalopoulos); Hippokrateion Hospital Thessaloniki (E Mouloudi); Kat General Hospital (E Ioannidou); Kat Hospital (P Myrianthefs); Kat Hospital, Athens (D Koulenti); Konstantopoulou General Hospital (I Karampela); Lamia General Hospital (G Kyriazopoulos); Red Cross Hospital of Athens (K Mandragos); Thriassio Hospital of Eleusis (P Clouva-molyvdas); University Hospital of Ioannina (A Moraiti); University Hospital of Alexandroupolis (I Pneumatikos); University Hospital of Rion, Patras (K Filos); University Hospital of Thessaly (Larissa) (E Zakynthinos); University of Athens, Medical School (A Kotanidou); Xanthi General Hospital (A Vakalos)

**Hong Kong:** North District Hospital (A Cheng); Princess Margaret Hospital and Yan Chai Hospital (T Buckley); The Chinese University of Hong Kong (C Gomersall)

**Hungary:** National Institute of Neurosurgery (K Kiss); Péterfy Hospital Budapest (P Tamási); Saint George Hospital Hungary (A Sarkany); Semmelweis University (A Csomos); University of Szeged (É Zöllei)

**India:** Advanced Medicare Research Institute (S Todi); B.D.Petit Parsee General Hospital (F Udawadia); Bhailal Amin General Hospital (R Shah); Bombay Hospital (P Amin); Breach Candy Hospital Trust (F Udawadia); Care Hospitals (S Samavedam); Christian Medical College (A Mathai); Cumballa Hill Hospital & Heart Institute (M Patil); Deenanath Mangeshkar Hospital (S Jog); Dr. S. N. Medical College (M Gurjar); Escorts Heart Institute & Research Centre (M Vats); Fortis Healthcare (A Varma); Global Hospitals (P Gopal); Hinduja Hospital & Medical Research Center (F Kapadia); Indraprastha Apollo Hospitals (R Chawla); Jehangir Hospital (S Iyer); Kalinga Hospital (S Sahu); Kasturba Hospital (C Bakshi); Lokmanya Care Hospital (D Ambike); Max Super Speciality Hospital (D Govil); Medical Trust Hospital, Cochin (V Karippambath); Nh Hospital (J Chacko); Ruby Hall Clinic (P



The Extended Study of Prevalence of Infection in Intensive Care II

Sathe); Rungta Hospital (N Rungta); Saifee Hospital (C Jani); Seth Ramdas Shah Memorial Hospital & Research Centre (A Bhome); Shree Medical Foundation (S Prayag); Sir Ganga Ram Hospital (S Ray); Sundaram Medical Foundation (R Rajagopalan); Tata Memorial Hospital (J Divatia); Wockhardt Hospital (R Da costa); Wockhrdt Hospital (T Shyam Sunder)  
**Indonesia:** Bintaro International Hospital (P Wibowo); Hasan Sadikin Hospital (T Maskoen); Pantai Indah Kapuk Hospital (T Sugiman)

**Islamic Republic of Iran:** Imamreza Hospital (S Nowruzinia); Laleh Hospital (A Lotfi); Tehran University of Medical Sciences (A Mahmoodpoor);

**Ireland:** Amnch (M Donnelly); Cork University Hospital (D Breen); Mater Misericordiae University Hospital (S Ng); University Hospital Galway (J Bates)

**Israel:** Hadassah Medical Center (C Sprung); Haemek Medical Center (A Lev); Kaplan Medical Center (E Kishinevsky); Rabin Medical Center (J Cohen); Soroka Medical Center (S Sofer)

**Italy:** A.O Niguarda (S Vesconi); A.O. Ospedale Di Circolo Di Busto Arsizio (S Greco); A.O. Treviglio-Caravaggio (M Borelli); Anestesia E Rianimazione 2 Prof.De Gaudio (P Cecilia); Arnas Ospedale Civico (M Sapuppo); ASL 10 (A Lazzeri); ASL 10 Florence Hospital San Giovanni Di Dio (V Mangani); Azienda Ospedaliera Desenzano (N Petrucci); Azienda Ospedaliera Di Melegnano (M Minerva); Azienda Ospedaliera G. Rummo (E De blasio); Azienda Ospedaliera Polo Universitario San Paolo (S Marzorati); Azienda Ospedaliera Santa Maria Alle Scotte (R Rosi); Azienda Ospedaliera Universitaria P.Giaccone Policlinico (A Giarratano); Azienda Ospedaliera-Universitaria Udine (O Margarit); Azienda Ospedaliero - Universitaria (A Guberti); Azienda Ospedaliero-Universitaria S.M.Misericordia (S Scolz); Clinica San Gaudenzio (E Stelian); Fondazione IRCCS Policlinico San Matteo (V Emmi); Fondazione Ospedale Maggiore Policlinico, Mangiagalli Regina Elena (M Caspani); Fondazione Poliambulanza (A Rosano); H San Gerardo (C Abbruzzese); Hospital Panico Tricase (S Colonna); Humanitas Gavazzeni (R Ceriani); II Faculty of Medicine I University of Rome- Osp. S.Andrea (R De Blasi); S. Salvatore Hospital (L Panella); IRCCS Casa Sollievo Della Sofferenza (F Borrelli); Istituto Nazionale Tumori Regina Elena (P Lorella); KH Brixen (H Ruatti); Ospedali Riuniti di Ancona (C Munch); Ospedale "Ca Foncello" - Treviso (Italia) (C Sorbara); Ospedale "Santa Croce" - ASL 8 (G Fiore); Ospedale Bufalini-Cesena (A Chierigato); Ospedale Di Circolo E Fondazione Macchi (V Conti); Ospedale Di Massa (A Guadagnucci); Ospedale Piacenza (M Pizzamiglio); Ospedale Ferrarotto (MT Locicero); Ospedale Maggiore Ausl Bologna (I Marri); Ospedale Maggiore Policlinico Milano (A Sicignano); Ospedale Maggiore Policlinico, Mangiagalli E Regina Elena, IRCCS Milano (V Conte); Ospedale Mugello Azienda Sanitaria Firenze (R Oggioni); Ospedale Niguarda Ca Granda, Milano (A De Gasperi); Ospedale Oncologico Regionale - Centro Di Riferimento Oncologico Della Basilicata (P De negri); Ospedale Provinciale Pistoia (G Santagostino); Ospedale S. Gerardo (F Roberto); Ospedale San Raffaele (G Marino); Ospedale Vittorio Emanuele (G Castiglione); P.O. San Severo Asl Fg (D Sforza); S. Camillo Hospital (N Giuseppe); San Martino Hospital, Genoa (M Bassetti); Seconda Università Degli Studi Di Napoli (F Ferraro); Sesto San Giovanni Hospital (S Clementi); Teaching Hospital Careggi (Di Filippo A); Terapia Intensiva - Aso S. Giovanni Battista Di Torino - Ospedale Molinette (P Cotogni, MV Ranieri); Università Cattolica (M Antonelli); Università Cattolica Del S. Cuore (L Martinelli); University-Hospital Careggi, Florence, (L Ganesello); University Hospital



The Extended Study of Prevalence of Infection in Intensive Care II

Policlinico Di Catania (A Gullo); University of Rome "La Sapienza" (A Morelli); UTI Trapianti (G Biancofiore); University of Udine (G Della Rocca)

**Japan:** Kyoto Prefectural University of Medicine (S Hashimoto); Nagoya University Hospital (M Onodera); Oosaka-Fu Saiseikai Suita Hospital (A Kobayashi); Sanai Hospital (T Shinozuka); Tokushima University School of Medicine (H Imanaka); Tokyo Medical University, Hachioji Medical Center (T Ikeda); Tokyo Women's Medical University (A Yaguchi)

**Latvia:** Hospital of Traumatology and Orthopedics (I Misane); 7th Hospital of Riga (A Piebalga)

**Lebanon:** Lebanese Canadian Hospital (A Moughaghab)

**Lithuania:** Medicine University of Kaunas (V Pilvinis); Vilnius University Emergency Hospital (S Vosylius); Vilnius University Hospital Santariskiu Clinics (M Balciunas, G Kekstas)

**Luxembourg:** Centre Hospitalier de Luxembourg (H Margaret); Clinique Ste Thérèse (M Klop)

**Macedonia:** Clinic For Infectious Diseases (K Grozdanovski); General Hospital Stip (B Eftimova)

**Malaysia:** Faculty of Medicine, Universiti Kebangsaan Malaysia (S Wafa); Hospital Pulau Pinang (C Lim); Hospital Tengku Ampuan Afzan, Kuantan, Pahang (M Mat nor); Kuala Lumpur Hospital (L Tai); National Heart Institute (S Syed Mohd Tahir); Sarawak General Hospital (N Idris); Sultanah Aminah Hospital (C Tan)

**Malta:** St Luke's Hospital (M Borg);

**Mexico:** Angeles Metropolitan Hospital (E Manzo); Centro Medico Lic. Adolfo Lopez Mateos (H Gutierrez Morales); Hgr 25 Imss Zaragoza (P Miguel); Hospital Angeles Clinica Londres (A Villagomez); Hospital Angeles del Carmen (A Bassols); Hospital Civil de Guadalajara "Fray Antonio Alcalde" (G Aguirre); Hospital Español de México (U Cerón); Hospital General Bernardo J. Gastelum (J Lopez ramos); Hospital General del Estado "Dr Ernesto Ramos Bours", Hermosillo Sonora Mexico (J Monjardín); Hospital General Regional de Leon (E Bermudez Aceves); Hospital General Reynosa (F Gonzalez Salazar); Hospital Juan I. Menchaca Hospital Civil de Guadalajara (D Rodriguez Gonzalez); Hospital Juárez de México (M Poblano-Morales); Hospital Médica Sur (F Ramirez); Hospital O'horan (M Cetina); Hospital Privado de Hermosillo (J Navarro); Hospital Regional 1° Octubre, Issste (A Villagomez Ortiz); Hospital San Jose Tec Monterrey (V Sanchez); Hospital Universitario "Dr. Jose E. Gonzalez" (U Chavarria); IMSS (O Fernandez-Ponce); Iner (H Serna secundino); Instituto de Salud del Estado de Aguascalientes (O Leonardo); Instituto Mexicano del Seguro Social (R Diego Manuel, J Mijangos); Issemym Medical Center (G Vazquez de Anda); Mexican Red Cross (E Martin); Ocq Hospital (P Gutierrez); Secretaria de Salud del Gobierno del Distrito Federal (I López Islas); Servicios de Salud En Yucatan (L Soberanes)

**Montenegro:** Clinical Center of Montenegro (Pejakov L)

**Morocco:** Chu Ibn Sina (A Sbihi); Polyclinique CNSS Derb Ghallef (B Ouahid); Réanimation Médicale, Hôpital Ibn Sina (M Naoufel)

**Netherlands:** Academic Medical Center (A De Pont); Amphia Hospital (P Rosseel); Antoni Van Leeuwenhoek Ziekenhuis (J Ten Cate); Beatrixziekenhuis Rivas Zorggroep (G Van Berkel); Canisius Wilhelmina Ziekenhuis (S Corsten); Erasmus Mc University Medical Center



The Extended Study of Prevalence of Infection in Intensive Care II

(J Bakker); Hagaziekenhuis (J Vogelaar); Hofpoort Hospital Woerden (H Blom); Isala Clinics (H Kieft); Medical Center Leeuwarden (M Kuiper); Medisch Spectrum Twente (A Gille); Radboud University Nijmegen Medical Centre (P Pickkers); Rode Kruis Ziekenhuis (J Vet); Slingeland Ziekenhuis (J Ammann); Spaarneziekenhuis (S Den Boer); St. Antonius Ziekenhuis (R Wesselink); St. Elisabeth Hospital (B Speelberg); Twenteborg Hospital Almelo (C Pham); University Hospital Groningen (M Rodgers); University Hospital Maastricht (D Bergmans); Vu University Medical Center (J Groeneveld)

**New Zealand:** Auckland City Hospital (C Mearthur); Auckland City Hospital (R Parke); Christchurch (J Mehrrens); Dunedin Hospital (L Celi); Hawkes Bay Hospital (R Freebairn); Middlemore Hospital (N Rankin); Nelson Marlborough District Health Board (C Heffernan); Palmerston North Hospital (G McHugh); Starship Children's Hospital (J Beca); Waikato Hospital (F Van haren); Wellington Public Hospital (B Barry); Whangarei Base Hospital (M Kalkoff)

**Norway:** Aker University Hospital (R Loevstad); St Olavs University Hospital (P Klepstad); Sykehuset Asker Og Bærum Hf (P Erno); Sykehuset I Vestfold Hf , Toensberg (A Junker)

**Pakistan:** Armed Forces Institute of Cardiology (S Naqvi); Jinnah Hospital Lahore Pakistan (I Javed)

**Panama:** Complejo Hospitalario Metropolitano (J Sinclair)

**Peru:** Hipolito Unanue Hospital (R Rivera); Hospital Regional Honorio Delgado (C Chavez); Hospital Alberto Sabogal Sologuren (Z Donayre Taber); Hospital Dos De Mayo (R Quispe Sierra); Hospital Edgardo Rebagliati Martins (J Muñoz); Hospital Maria Auxiliadora (J Galvez Ruiz); Hospital Nacional Almanzor Aguinaga Asenjo Essalud Chiclayo (J Fang Li); Hospital Nacional Arzobispo Loayza (M Candiotti Herrera); Hospital Víctor Lazarte Echegaray (A Arroyo); Instituto de Salud del Niño (R Becerra); Navy Hospital (J Meza); Peruvian Air Force Central Hospital (M Mayorga)

**Poland:** 4th Military Clinical Hospital (P Garba); Academic Centre for Maritime and Tropical Medicine AMG (J Kot); Barlicki University Hospital, University of Medical Science, Lodz, (T Gaszynski); Boleslaw Szarecki Teaching Hospital No. 5 of The Medical University In Lodz (M Piechota); Clinical Hospital No 2 (S Renata); Collegium Medicum Jagiellonian University (P Müller); Institute of Cardiology (J Stepinska); J. Brudzinski's Hospital In Gdynia (K Jacek); Jagiellonian University (T Cieniawa); Karol Marcinkowski University of Medical Sciences (A Mikstacki, B Tamowicz); Poznan University of Medical Sciences (A Bartkowska-Sniatkowska); Silesian University of Medicine (E Karpel); University Hospital Bydgoszcz Cm Umk (K Kusza); University Hospital No 2 Poznan (P Smuszkiewicz); University Hospital Warsaw (M Mikaszewska-Sokolewicz); Wojewodzki Szpital Specjalistyczny (R Goraj); Wroclaw Medical University (A Kubler)

**Portugal:** Centro Hospitalar Alto Ave (A Bártolo); Centro Hospitalar Cova Da Beira (M Castelo-Branco Sousa); Centro Hospitalar Trás os Montes e Alto Douro (F Esteves); CHLO-Hospital S Francisco Xavier (A Martins); H S João (T Oliveira); Hospital CUF Infante Santo (P Ponce); Hospital Curry Cabral (L Mourão); Hospital da Luz (C Febra); Hospital de Egas Moniz (E Carmo); Hospital de S. José (V Lopes); Hospital de São Francisco Xavier (P Póvoa); Hospital de São José (A Rezende); Hospital Divino Espirito Santo (H Costa); Hospital do Litoral Alentejano (P Moreira); Hospital Dr. José Maria Grande, Portalegre (F Pádua); Hospital Fernando Fonseca (A Leite); Hospital Garcia de Orta (E Almeida); Hospital Geral de



The Extended Study of Prevalence of Infection in Intensive Care II

Santo António (M Alves); Hospital de Pulido Valente (A Sousa, L Telo); Hospital de S. João (C Dias, J Paiva); Hospital de São Bernardo (R Ribeiro); Hospital de São Sebastião, EPE (P Amaro); Hospital Geral de Sto António (A Carneiro); Hospital de St. António dos Capuchos (R Moreno, Ricardo Matos, Susana Afonso); Instituto Português de Oncologia de Lisboa (M Bouw); Hospital de St Maria (C França)

***Qatar:*** Alkhor Hospital (A Ibrahim);

***Romania:*** "Maria Sklodowska Curie" Children's Emergency Hospital, Bucharest (R Tabacaru); Department Public Hospital (V Ionita); Fundeni Institute (D Tulbure); Institute of Cardiovascular Disease (D Filipescu); Institutul de Boli Cardiovasculare Si Transplant Tg. Mures (S Pascanu); Spitalul "Sf. Spiridon" (I Grigoras); University Emergency County Hospital (S Copotoiu)

***Russia:*** Bakoulev Scientific Center For Cardiovascular Surgery (D Popov); City Clinical Hospital (E Lebedev); City Hospital (I Olga); City Hospital #7 (A Yaroshetskiy); Clinical Hospital N°40 (T Lugovkina); Ekaterinburg. University Hospital N°40 (B Dmitry); Izhevsk State Medical Academy (O Malinin); Moscow Children's Surgery Institut (A Lekmanov)

***Saudi Arabia:*** Alawi Tunsi Hospital (M Abulmagd); King Abdulaziz Medical City (Y Arabi); King Abdulaziz University Hospital (J Alhashemi); King Fahad Specialist Hospital Dammam (A Ali); King Faisal Specialist Hospital (K Maghrabi); Kingdom Hospital (A Debek); Riyadh Military Hospital (M Malik)

***Serbia:*** Clinical Center Nis (R Jankovic); Clinical Centre of Serbia (I Palibrk); Dedinje Cardiovascular Institute (V Maravic-stojkovic); KBC Bezanijka Kosa (V Malenkovic); Military Medical Academy, Belgrade (M Surbatovic); Uniuersity of Belgrade (V Bumbasirevic)

***Singapore:*** Changi General Hospital (N Lim); Kk Hospital (T Loh); Tan Tock Seng Hospital (H Tan)

***Slovakia:*** Fakultna Nemocnica Nitra (H Sekeresova); FNŠP Bratislava-Hospital Ruzinov (J Koutun); Madical Faculty Hospital Kosice (J Firment); Nusch Bratislava (P Malik); Reiman Hospital (S Trenkler)

***Slovenia:*** Clinic Center Ljubljana (I Muzlovic); General Hospital Novo Mesto (L Kosec, B Ozek); General Hospital Slovenj Gradec (D Kasnik); University Clinic of Respiratory and Allergic Diseases (V Tomic); University Clinical Center Ljubljana (R Knafelj); University Medical Center Ljubljana (V Svigelj)

***South Africa:*** 1 Military Hospital (H Du Plessis); Groote Schuur Hospital (R Raine); Johannesburg Hospital (S Bhagwanjee, G Richards); Johannesburg Hospital (S Bhagwanjee); Johannesburg Hospital Trauma Unit (J Goosen); Unitas Hospital (J De Jager); Wits Donald Gordon Medical Center (G Schleicher)

***Spain:*** Althaia (O Rubio); Bellvitge University Hospital (R Mañez); Centro Medico Delfos (M Burgueño Campiñez); Clinica Moncloa (M Alvarez); Clinica Rotger (R Jorda); Clinica Santa Elena (E Naveira-Abeigón); Clinica Universitaria de Navarra (P Monedero); Complejo Hospitalario de Pontevedra (E Alemparte-Pardavila); Fundacion Hospital Alcorcon (S Garcia del Valle); Fundacion Jimenez Diaz (C Perez Calvo); H Vall Hebron (M Palomar); H.U. Virgen de Las Nieves- H. Traumatología Y Rehabilitación (F Guerrero); Hospital "Virgen de La Concha" - Zamora (A Caballero Zirena); Hospital Arnau de Vilanova (M Arribas); Hospital Can Misses (E Bustamante Munguira); Hospital Casa de Salud (J Ruiz); Hospital



The Extended Study of Prevalence of Infection in Intensive Care II

Central de Asturias (A Blanco Vicente); Hospital Clinic Barcelona (E Zavala); Hospital Clinic de Barcelona (M Valencia); Hospital Clinico San Carlos (A Blesa Malpica); Hospital Clinico San Carlos (F Martinez-Sagasti, M Nieto); Hospital Clinico Universitario (G Aguilar); Hospital Clinico Universitario de Santiago (F Martinon-Torres); Hospital Comarcal Vinaros (C Lorente); Hospital de Navarra (J Insausti); Hospital de Antequera (R Vegas Pinto); Hospital de Basurto (I Santos); Hospital de Fuenlabrada (A Escriba); Hospital de Galdakao (P Olaechea); Hospital de La Merced (E Muñoz); Hospital de Manacor (E Antón Caraballo); Hospital de Mostoles (P Galdos-Anuncibay); Hospital de Sagunto (V Lopez Camps); Hospital de Tortosa Verge de La Cinta (F Esteban-Reboll); Hospital del Sas de Jerez (Estella A); Hospital Donostia (L Bocero); Hospital Dr Peset (A Ibañez); Hospital G. Yagüe (L Pueyo); Hospital General (L María Jesús); Hospital General de Asturias (L Iglesias Fraile); Hospital General de Ciudad Real (J Silva); Hospital General de Granollers (P Garro); Hospital General de La Palma (L Ramos-gómez); Hospital General de L'Hospitalet (A Rovira); Hospital General de Vic (M Martin Delgado); Hospital General Salud "Obispo Polanco" (J Monton Dito); Hospital General Universitario de Albacete (F Garcia); Hospital General Universitario de Alicante (J Navarro); Hospital General Universitario de Elche (J Latour-Perez); Hospital General Universitario de Guadalajara (A Albaya); Hospital General Universitario Gregorio Marañon (A Bustinza); Hospital Gran Canaria "Dr Negrín" (J Sole-violán); Hospital Marques de Valdecilla (P Ugarte Peña); Hospital Maz (I Yuste); Hospital Parque San Antonio (J De Rojas Román); Hospital Sabadell (J Vallés); Hospital Sant Joan de Déu (E Esteban); Hospital Sant Pau (E Quintana Tort-Martorell); Hospital Santa María del Rosell (M Moreno); Hospital Santa Maria Madre-Complejo Hospitalario de Ourense (V López Ciudad); Hospital Santiago Apostol (A Manzano Ramirez); Hospital Sevilla-Aljarafe (J Sánchez-Olmedo); Hospital Son Llàtzer (M Borges); Hospital Terrassa (J Amador Amerigo); Hospital Torrecardenas (F Guerrero Gomez); Hospital Universitaio 12 de Octubre (J Montejo González); Hospital Universitari de Girona Doctor Josep Trueta (J Sirvent); Hospital Universitari Germans Trias I Pujol (E Mesalles Sanjuan); Hospital Universitario Arnau de Vilanova (F Barcenilla-Gaite); Hospital Universitario de Canarias (N Serrano); Hospital Universitario de Getafe (E Cerdá); Hospital Universitario de Valme (A Lesmes Serrano); Hospital Universitario Doce de Octubre (C Garcia-Fuentes); Hospital Universitario Infanta Crsitina (J Macias Pingarrón); Hospital Universitario N<sup>a</sup>sra de Candelaria (E Espinosa); Hospital Universitario Principe de Asturias (M Sanchez Garcia); Hospital Universitario Reina Sofía, Murcia (F Felices); Hospital Universitario Virgen de La Victoria (M de la Torre-Prados); Hospital Univesitario Puerto Real (H Maria Jesus); Hospital Valle del Nalon (V Luis); Hospital Virgen Arrixaca (R Jara); Hospital Xanit Internacional (M Briones Lopez); Hospital Xeral Cies (P Posada); Hu La Paz (B Galvan); Hu La Paz (F Mariscal); Joan Xxiii University Hospital (J Rello); Morales Meseguer (B Gil); Puerta del Mar University Hospital (R Sierra); Rio Hortega University Hospital (J Rico-Feijoo); San Pedro de Alcantara Hospital (C Corcobado Márquez); Servicio Navarro de Salud.Hospital Virgen del Camino (J Izura); Uci H. U. Salamanca (J González); University Hospital Dr. Peset (J Soto Ibañez)

**Sudan:** Soba University Hospital (H Agabani)

**Sweden:** Anestesikliniken (P Petersen); Centralsjukhuset Karlstad (L Johansson); University Hospital, Linköping (H Blomqvist, B Peterzén, N Wyon); Göteborg (I Lindström); Kärnsjukhuset Skövde (A Paulsson); Karolinska University Hospital Huddinge (C Agvald-



The Extended Study of Prevalence of Infection in Intensive Care II

Ohman); Karolinska University Hospital, Solna (J Petersson); Lund University Hospital (H Friberg); Malmoe University Hospital (V Einar); Op/ Iva Kliniken (F Hammarskjöld); Ostersund Hospital (M Schindele); Ostra Hospital, Göteborg (S Arvidsson); Sahlgrenska University Hospital (J Sellgren); Söder Hospital (Södersjukhuset) (J Hulting); Sodersjukhuset (J Häggqvist); Sollefteå Hospital (J Rudenstam); Sunderby Hospital (D Lind); The Queen Silvia Children's Hospital (E Kokinsky); Thoracic Intensive Care, Karolinska Hospital (A Owall); Umeå University Hospital (S Jacobson); University Hospital (H Stiernstrom); University Hospital of Örebro (A Nydahl)

**Switzerland:** CHUV, Lausanne (P Eggimann); University of Geneva (R Stocker); Hirslanden Klinik Beau-Site (G Loderer); Kantonsspital Liestal (R Loetscher); Kantonsspital Luzern (A Mehlig); Lindenhofspital (K Heer); Neuchâtel (H Zender); Ospedale Civico Di Lugano (S Cottini); Regional Hospital Mendrisio (A Pagnamenta); Stadspital Triemli (G Eich); Swiss Paraplegic Center Nottwil (P Felleiter); University Hospital Zurich (M Marco); University Hospitals of Geneva (J Pugin)

**Taiwan:** Changhua Christian Hospital (W Shu-Hui); Kaohsiung Veterans General Hospital (K Hsieh)

**Thailand:** Faculty of Medicine Siriraj Hospital (P Toomtong); Prince of Songkla University (B Khwannimit); The Bnh Hospital (P Kietdumrongwong)

**Tunisia:** Children's Hospital of Tunis (A Khaldi); Hospital Aziza Othmana (A Messadi); Military Hospital of Tunis (I Labbene); Mongi Slim Hospital (N Frikha)

**Turkey:** Acibadem Kadikoy Hospital (K Atalan); Acibadem Bakirkoy Hospital (C Ates); Acibadem Bursa Hospital (A Kahveci); Acibadem Kozyatagi Hospital (H Fistikci); Ankara University (A Kaya); Ankara University Medical Faculty, Ibni Sina Hospital (E Ozgencil); Ataturk University Medical Faculty (M Kizilkaya); Dicle University Medical School (M Bosnak); Dokuz Eylul University (H Bodur); Dokuz Eylul University School of Medicine (M Akan); Erciyes University Medical Faculty (M Guven); Gazi University School of Medicine (M Turkoglu); Hacettepe University Hospital (A Topeli); Inonu University Medical Faculty (T Tugal); Istanbul Faculty of Medicine (N Uzel); Istanbul Medical Faculty (I Akinci, N Cakar, S Tugrul); Istanbul University Cerrahpasa Medical School (O Demirkiran); Izmir Ataturk Training and Resarch Hospital (T Adanir); Memorial Hospital (K Dogruer); Okmeydani Teaching & Research Hospital (A Turkmen); Okmeydani Teaching & Research Hospital (H Guven); Ondokuz Mayis University, Medical Faculty (F Ulger); Selcuk University Meram Faculty of Medicine (S Kocak)

**Ukraine:** Lugansk City Hospital No. 7 (Y Nalapko); Lugansk District Hospital (Y Nalapko)

**United Arab Emirates:** Al-Mafraq Hospital (S Rady); Department of Health & Medical Services (A Alsabbah); Dohms (N Elahi); Dubai Hospital (H Al rahma); Tawam Hospital (M Rahman, S Kashef)

**United Kingdom:** Aberdeen Royal Infirmary (B Cuthbertson); Addenbrookes Hospital (K Gunning); Barnsley Hospital (Y Myint); Bristol Royal Infirmary (J Bewley); Cambridge University Teaching Hospitals (R Burnstein); Christie Hospital (P Haji-Michael); Dumfries and Galloway Royal Infirmary (D Wrathall); Kent and Canterbury Hospital (L Folan); Freeman Hospital (I Nesbitt); Friarage Hospital Northallerton (A Ratnaparkhi); Frimley Park Hospital (S Pambakian); Glasgow Royal Infirmary (M Booth); Great Western Hospital Swindon (M Watters); Guys and St Thomas' NHS Foundation Trust (T Sherry); Huddersfield



The **E**xtended **S**tudy of **P**revalence of **I**nfection in **I**ntensive **C**are **I**I

Royal Infirmary (U Buehner); Hurstwood Park Neurosurgical Centre (C Barrera Groba); James Paget University Hospital (P Bothma); John Radcliffe Hospital (N George, J Frater); Kettering General Hospital (L Hollos); Lothian University Hospitals Trust (S Mclellan); Macclesfield District General Hospital (J Hunter); Manchester Royal Infirmary (M Garrloch, N O'Keefe); Medway NHS Trust (N Divekar); Morriston Hospital (S Eggert); New Cross Hospital, Wolverhampton. (S Smith); Newcastle General Hospital (A Vincent); Newham University Hospital Trust (P Withington); NHS Tayside (C Macmillan); Northampton General Hospital (R Webster); Papworth Hospital (A Vuylsteke); Peterborough Hospitals (B Appadu); Princess Royal Hospital (C Barrera groba); Queen Alexandra Hospital, Portsmouth (P McQuillan); Queen Elizabeth Hospital (M Blunt); Queen Elizabeth Medical Center, Birmingham (N Parekh); Rotherham DGH (D William); Royal Berkshire Hospital (C Jones); Royal Blackburn Hospital (A Krige); Royal Bournemouth NHS Foundation Trust (M Schuster-Bruce); Royal Cornwall Hospital (J Boyden); Royal Devon & Exeter NHS Foundation Trust (C Boulanger); Royal Infirmary of Edinburgh (D Swann); Royal Liverpool University Hospital (J Walker); Royal Marsden Hospital (T Wigmore); Royal Shrewsbury Hospital (R Law); Royal Sussex County Hospital (F Baldwin); South Tyneside Hospital (C Muench); Southmead Hospital (S Robinson); St George's Hospital (A Crerar-Gilbert, A Rhodes); St Helens and Knowsley Hospital (T Mahambrey); St John's Hospital (L Cameron); St. James's University Hospital (J Thornton); St. Mary's Hospital (M Stotz); St. Peters Hospital (M Russell); Stirling Royal Infirmary (A Longmate); Tameside General Hospital (R Kitson); Taunton & Somerset NHS Trust (B Browne); The Hillingdon Hospital (A Thorniley); The James Cook University Hospital (I Gonzalez); Torbay Hospital (M Swart); University College Hospital (M Singer); University Hospital Birmingham (N Gautam); University Hospital of South Manchester (V Prasad); University Hospitals Coventry & Warwickshire Nhs Trust (D Watson); West Middlesex University Hospital (T Szakmany); West Suffolk Hospital (J Cardy); Western Infirmary Glasgow (A Binning); Wexham Park Hospital (R Loveland); Wirral University Teaching Hospital (J Gannon); Wolverhampton Hospital (G Martinelli); Wythenshawe Hospital (P Nightingale); Yeovil District Hospital (J Howes)

**United States:** Baystate Medical Center (J Steingrub); Denver Health Medical Center (L Ammons); Emory University Hospital - Micu (M Fisher); Englewood Hospital Medical Center (N Gandhi); Grady Memorial Hospital-Emory University (G Martin); Hospital of The University of Pennsylvania (C Deutschman); LDS Hospital, Salt Lake City (N Dean); Inova Fairfax Hospital (C Michetti); Los Angeles County+University of Southern California Medical Center (H Belzberg); Lsuhscc Shreveport (K Hutchinson); Maine Medical Center (T Van der klood); Mayo Clinic (B Afessa); Mount Sinai School of Medicine (D Kaufman); Nassau University Medical Center (J Iqbal); New York University (D Ost); Northwestern University (S Afifi, M West, R Wunderink); Olive View UCLA Medical Center (S Stein); Oregon Health & Science University (D Hagg); Orlando Regional Medical Center (E Jimenez); Penn State Hershey Medical Center (S Blosser); Rochester General Hospital (S Chhangani); Rush University Medical Center (R Kleinpell); Rutland Regional Medical Center (H Reich); Scott and White Hospital (E Fields); Sharp Memorial Hospital (D Willms); South Texas Veterans Health Care System (P Castellanos-Mateus); St. Joseph Medical Center Fhs (L Melnik); Texas Tech University Health Sciences Center (L Oud); The Methodist Hospital



The **E**xtended **S**tudy of **P**revalence of **I**nfection in **I**ntensive **C**are II

(E Chi); The Methodist Hospital (R Halfon); The University of Mississippi Medical Center (A Badr); The University of Texas Health Science Center at San Antonio (M Restrepo, P Castellanos-Mateus); University of Chicago (A Pohlman); University of Cincinnati (R Branson); University of Kansas Hospital (S Simpson); University of Miami School of Medicine (D Kett); University of Michigan (T Jacobs, P Park, W Wahl); University of Texas Health Science Center at San Antonio (C Patricia); University of Toledo Medical Center (J Hammersley, T Papadimos); University of Virginia (R Sawyer); Uthsc At Memphis - Regional Medical Center (Site) (A Freire); Veterans Caribbean Healthcare System (W Rodriguez); Washington Hospital Center (A Ryan); West Suburban Medical Center (B Margolis); Winthrop University Hospital (M Groth)

**Uruguay:** Amecom (H Escanda); Comta (J Baraibar); Hospital Policial (D Paciel); Hospital Maciel (H Bagnulo); Hospital Tacuarembó (F Hitta); Médica Uruguaya Corporación de Asistencia Médica (P Nadales); Sanatorio Americano - Femi (H Albornoz)

**Venezuela:** Hospital Dr Luis Ortega (Z Salmen); Hospital Universitario de Caracas (C Pacheco)

**Vietnam:** Bach Mai Hospital (T Bui); Franco Vietnamese Hospital (F Potie); Ninh Thuan Hospital (C Nguyen Huu)