**SUPPLEMENTARY APPENDIX**

**TABLE OF CONTENTS**

1. **HOPE Participating Hospitals. Principal Investigators, per center.**
2. **Scientific committee.**
3. **Collaborators.**

**HOPE Participating Hospitals. Principal Investigators 1st and 2nd.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NAME** | **SURNAME** | **HOSPITAL** | **DEPARTMENT** | **CITY** | **COUNTRY** |
| Vicente | Estrada | Hospital Clínico San Carlos. | Internal Medicine | Madrid | Spain |
| Charbel | Maroun Eid | Hospital Universitario La Paz. Instituto de Investigación Hospital Universitario La Paz (IdiPAZ). | Emergency Department | Madrid | Spain |
| Rodolfo | Romero | Hospital Universitario Getafe | Emergency Department | Getafe (Madrid) | Spain |
| Inmaculada | Fernández Rozas | Hospital Universitario Severo Ochoa | Cardiology | Leganés | Spain |
| María C | Viana-LLamas | Hospital Universitario Guadalajara | Cardiology | Guadalajara | Spain |
| Victor Manuel | Becerra-MuÃ±oz | Hospital Clinico Universitario Virgen de la Victoria | Cardiology | Malaga | Spain |
| Aitor | Uribarri | Hospital Clinico Universitario de Valladolid | Cardiology | Valladolid | Spain |
| Jia | Huang | The Second People's Hospital of Shenzhen | Critical care medicine | Shenzhen | China |
| Marcos | García Aguado | Hospital Puerta de Hierro de Majadahonda | Cardiology | Majadahonda. Madrid | SPAIN |
| Emilio | Alfonso | Institute of Cardiology and Cardiovascular Surgery | Hemodynamics and Interventional Cardiology Â  | Havana | Cuba |
| Martino | Pepe | Azienda ospedaliero-universitaria consorziale policlinico di Bari | Division of Cardiology, Department of Emergency and Organ Transplantation, University of Bari, Bari, | Bari | Italy |
| Alex Fernando | Castro Mejía | Hospital General del norte de Guayaquil IESS Los Ceibos | Cardiology | GUAYAQUIL | ECUADOR |
| Fabrizio | Ugo | Sant'Andrea Hospital | Cardiology | Vercelli | Italy |
| Sergio | Raposeiras | University Hospital Alvaro Cunqueiro | Cardiology | Vigo | Spain |
| Jaime | Signes Costa | Clínico | Neumology | Valencia | Spain |
| Carolina | Espejo Paeres | Hospital Universitario Príncipe de Asturias, Madrid, Spain. | Cardiology | Madrid | Spain |
| Gisela  | Feltes Guzman | Nuestra Señora de América | Cardiology | Madrid | Spain |
| Enrico | Cerrato | San Luigi Gonzaga University Hospital, Orbassano and Rivoli Infermi Hospital, Rivoli (Turin), Italy | Interventional Cardiology | Turin | Italy |
| Francisco | Marín | Hospital Clínico Universitario Virgen de la Arrixaca | Department of Cardiology | Murcia | Spain |
| Javier | Lopez-Pais | Complejo Hospitalario Universitario de Santiago de Compostela | Cardiology | Santiago de Compostela | Spain |
| Luis | Buzón | Hospital Universitario de Burgos | Internal Medicine | Burgos | Spain |
| Daniela | Trabattoni | Centro Cardiologico Monzino, IRCCS | Invasive Cardiology | Milan | Italy |
| Thamar | Capel Astrua | Hospital Virgen del Mar | Internal Medicine | Madrid | Spain |
| Adelina | Gonzalez | Hospital Universitario Infanta Sofia. San Sebastian de los Reyes.Madrid | Anestesiology | Madrid | Spain |
| Jorge Luis | Jativa Mendez | Hospital de especialidades de las fuerzas armadas.  | Cardiology | Quito | Ecuador |
| Ibrahim | El-Battrawy | University Medical Center Mannheim | First Department of Medicine | Mannheim | Germany |
| Federico | Guerra | Ospedali Riuniti "Umberto I - Lancisi - Salesi" | Cardiology and Arrhythmology Clinic | Ancona | Italy |
| Alfredo | Bardaji | Joan XXIII | Cardiology | Tarragona | Spain |
| Miguel | Corbi-Pascual | Hospital General de Albacete | Cardiology | Albacete | Spain |
| Oscar | Fabregat-Andres | Hospital IMED Valencia | Cardiologia | Valencia | Spain |
| Maurizio | Bertaina | Martini Hospital. | Emergency Medicine Department | Turin | Italy |
| Christoph | Liebetrau | Kerckhoff Heart and Thorax Center | Cardiology | Bad Nauheim | Germany |
| Francesco | Santoro | ASL BAT | Cardiology | Andria | Italy |
| Bernardo Cortese | Cortese | San Carlo Clinic | Cardiology | Milano | Italy |
| Enrico | Pinotti | Policlinico San Pietro | Department of Surgery | Ponte San Pietro | Italy |
| Fabrizio D'Ascenzo | D'Ascenzo | San Giovanni Battista | Division of Cardiology | Torino | Italy |
| Andrea | Rognoni | A.O.U. Maggiore dellaq CaritÃ , novara | Cardiology | Novara | Italy |
| Rodrigo | Bagur | London Health Sciences Centre | Medicine, Cardiology Division | London | Canada |
| Danilo | Buonsenso | Fondazione Policlinico Universitario A Gemelli IRCCS | Woman and Child Health and Public Health | Rome | Italy |
| Jose | moreu | complejo hospitalario de toledo | interventional cardiology | Toledo | Spain |
| Javier | Lopez-Pais | Hospital Clínico de Santiago de Compostela | Cardiology | Santiago de Compostela | Spain |
| Massimo | Mancone | Policlinico Umberto I | Cardiology | Rome | Italy |
| Mario | Iannaccone | San Giovanni Bosco, ASL CittÃ  di Torino, Turin, Italy | Cardiology | Turin | Italy |
| Alvaro | López Masjuan | Hospital Universitario Juan Ramón Jimenez | Cardiology | Huelva | Spain |
| Juan Fortunato | Garcia Prieto | Hospital de Manises | Emergency Medicine | Valencia | Spain |
| Daniela  | Coca | Hospital de Quilpue | Internal medicine | Quilpue | Chile |
| Jorge Luis | Velez | Hospital Pablo Arturo Suárez | Intensive Care Medicine | Quito | Ecuador |
| María Verónica  | Lopez Miao | Hospital de Especialidades Carlos Andrade Marín | Cardiology | Quito | Ecuador |
| Paola  | Sanchez | Clinica CardioVID |  | Medellin | Colombia |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NAME** | **SURNAME** | **HOSPITAL** | **DEPARTMENT** | **CITY** | **COUNTRY** |
| Angel | Molino | Hospital Clínico San Carlos. | Internal Medicine | Madrid | Spain |
| Lubna | Dani Ben Abdellah | Hospital Universitario La Paz. Instituto de Investigación Hospital Universitario La Paz (IdiPAZ). | Emergency Department | Madrid | Spain |
| Edoardo | Manzone | Hospital Universitario Getafe | Emergency Department | Getafe (Madrid) | Spain |
| María | Molina Villar | Hospital Universitario Severo Ochoa | Cardiology | Leganés | Spain |
| Ramón | Arroyo-Espliguero | Hospital Universitario Guadalajara | Cardiology | Guadalajara | Spain |
| Juan Jose | Gomez-Doblas | Hospital Clinico Universitario Virgen de la Victoria | Cardiology | Malaga | Spain |
| Álvaro | Aparisi | Hospital clÃ­nico de Valladolid | Cardiology | Valladolid | Spain |
| Lei | Liu | The Third People's Hospital of Shenzhen | General Surgery | Shenzhen | China |
| Juan Antonio | Vargas Nuñez | Hospital Puerta de Hierro de Majadahonda | Medicina Interna | Majadahonda. Madrid | Spain |
| Gaetano | Brindicci | Azienda ospedaliero-universitaria consorziale policlinico di Bari | Clinic of Infectious Diseases, Hospital-University Polyclinic, University of Bari, Bari, Italy | Bari | Italy |
| Maria Elizabeth | Ortega Armas | Hospital General del norte de Guayaquil IESS Los Ceibos | Cardiology | Guayaquil | ECUADOR |
| Francesco | Rametta | Sant'Andrea Hospital | Cardiology | Vercelli | Italia |
| Karim | Jamhour-Chelch | University Hospital Alvaro Cunqueiro | Cardiology | Vigo | Spain |
| Carmen | Castellanos-Lluch | Clinico | Internal Medicine | Valencia | Spain |
| Ana María | Carrero Fernández | Hospital Universitario PrÃ­ncipe de Asturias | Servicio de Urgencias | Madrid | Spain |
| Asuncion  | Guerri | Nuestra Señora de América | Internal Medicine | Madrid | Spain |
| Matteo | Bianco | San Luigi Gonzaga University Hospital, Orbassano | Cardiology | Turin | Italy |
| Elisa | García-Vazquez | Hospital ClÃ­nico Universitario Virgen de la Arrixaca | Department of Internal Medicine-Infectious Diseases | Murcia | Spain |
| Jose María | Garcia-Acuña | Complejo Hospitalario Universitario de Santiago de Compostela | Cardiology | Santiago de Compostela | Spain |
| Jose Antonio | Fernandez-Ratero | Hospital Universitario de Burgos | Unidad de Cuidados Intensivos | Burgos | Spain |
| Emilio | Assanelli | Centro Cardiologico Monzino, IRCCS | Emergency care | Milan | Italy |
| Chinh | Pham Trung | Hospital Virgen del Mar | Cardiology | Madrid | Spain |
| Clara | Cimarra | Hospital universitario Infanta Sofia | Anestesiologia y reanimacion | Madrid | Spain |
| Ibrahim | Akin | University Medical Center Mannheim | First Department of Medicine | Mannheim | Germany |
| Antonio | Dello Russo | Ospedali Riuniti "Umberto I - Lancisi - Salesi" | Cardiology and Arrhythmology Clinic | Ancona | Italy |
| Teresa | Auguet | Joan XXIII | Cardiology | Tarragona | Spain |
| Juan Gabriel | Cordoba-Soriano | Hospital General de Albacete | Cardiology | Albacete | SPain |
| Fabio | De Iaco | Martini Hospital | Emergency Medicine Department | Turin | Italy |
| Sergio | Carbonara | Bisceglie | Infectious Disease | Bisceg |  |
| Gaetano | Di Palma | San Carlo Clinic | Cardiac | Milano | Italy |
| Davide | Pata | Policlinico Universitario Agostino Gemelli IRCSS | Department of Woman and Child Health and Public Health | Rome | Italy |
| Diego | Lopez-Otero | Hospital ClÃ­nico de Santiago de Compostela | Cardiology | Santiago de Compostela | Spain |
| Fabio | Infusino | Policlinico Umberto I | Cardiology | Rome | Italy |
| Giacomo | Boccuzzi | San Giovanni Bosco, ASL CittÃ  di Torino, Turin, Italy | Cardiology | Turin | Italy |
| Adrían  | Rodriguez Albarran | Hospital Universitario Juan Ramón Jimenez | Cardiology | Huelva | Spain |
| Diana Isabel  | Salazar Chamba | Hospital de Especialidades Carlos Andrade Marín | Cardiology | Quito | Ecuador |

**Scientific Committee.**

|  |  |  |
| --- | --- | --- |
| NAME | FILIATION | COUNTRY |
| Iván J Núñez-Gil | Hospital Clínico San Carlos, Madrid | Spain  |
| Carlos Macaya | Hospital Clínico San Carlos, Madrid | Spain  |
| Asunción Guerri | Hospital Nuestra Señora de América, Madrid | Spain  |
| Charles Lefranc  | Hospital Nuestra Señora de América, Madrid | Spain  |
| David Orgaz | Primary Care, Madrid | Spain  |
| Enma Gil Higes | Primary Care, Madrid | Spain  |
| Juan Conesa  | Hospital Clínico San Carlos, Madrid | Spain  |
| Antonio Fernandez Ortiz | Hospital Clínico San Carlos, Madrid | Spain  |
| Harish Ramakhrisna | Mayo Clinic, Rochester | United States |
| Julio Jimenez | SUMMA 112, Madrid | Spain  |
| Vanessa Garcia de Biedma | Hospital Universitario de Fuenlabrada | Spain  |
| Ruth Sendino | Primary Care, Vitoria | Spain  |
| Gisela Feltes  | Hospital Nuestra Señora de América, Madrid | Spain  |
| Sergio Raposeiras | Hospital Álvaro Cunqueiro, Vigo | Spain  |
| Giusseppe Biondi Zoccai | Sapienza University of Rome, Latina, Italy | Italy |
| Angel Molino | Hospital Clínico San Carlos, Madrid | Spain  |
| Cristina Fernandez  | Hospital Clínico San Carlos, Madrid | Spain  |
| Vicente Estrada | Hospital Clínico San Carlos, Madrid | Spain  |
| Fabrizio D´Ascenzo  | Città della Salute e della Scienza, Turin | Italy |
| Enrico Cerrato | San Luigi Gonzaga University Hospital, Orbassano and Rivoli Infermi Hospital, Rivoli (Turin), Italy | Italy |
|  F. Javier Martin-Sanchez | Hospital Clínico San Carlos, Madrid | Spain  |

**Collaborators.**

|  |  |  |  |
| --- | --- | --- | --- |
| Centre | City | Country | Name |
| San Carlo Clinic | Milano | Italy |  |
| Hospital Clínico Universitario de Valladolid | Valladolid | Spain |  |
| London Health Sciences Centre | London | Canada |  |
| Hospital IMED Valencia | Valencia | Spain |  |
| Ospedali Riuniti "Umberto I - Lancisi - Salesi" | Ancona | Italy | Giulia Stronati |
| Institute of Cardiology and Cardiovascular Surgery | Havana | Cuba | Giselle Lopez |
| Hospital Clínico Universitario Virgen de la Victoria | Malaga | Spain | Eva Cabrera-CesarBelén Murcia-CasasÁlvaro Martínez-MesaEsther Sanchez-AlvarezVictoria Doncel-AbadPilar Nuevo-OrtegaCarmen Perez-LopezGuillermo Ojeda-BurgosJavier Sanchez-LoraJesus Santos-Gonzalez |
| Centro Cardiologico Monzino, IRCCS | Milano | Italy | Francesca SusiniGiulia SantagostinoSebastiano GiliGiovanni TeruzziMassimo MapelliRicardo MaragnaIrene MattavelliElisabetta Salvioni |
| Complejo hospitalario de Toledo | Toledo | Spain | Tomas Canton Esther LazaroLuis Manuel HernandoLuis Fernando Pajin |
| San Giovanni Battista | Torino | Italy | Ovidio De Filippo Guglielmo GalloneFrancesco BrunoGaetano Maria De FerrariLuca FranchinFilippo AngeliniPierluigi OmedéFederico ConrottoMauro PennoneAntonio Montefusco |
| Policlinico A. Gemelli IRCSS | Rome | Italy | Piero ValentiniAntonio GattoAntonio Chiaretti |
| Hospital Nuestra Señora de América | Madrid | Spain | Carmen Díaz Sánchez.José Luis Moreno HurtrezCharles Lefranc.María Luisa Sheriff Prosper. |
| Policlinico Umberto I | Rome | Italy | Ilaria BirtoloPaolo SeverinoFrancesco PuglieseFrancesco FedeleGabriella d'EttorreGioacchino GalardoClaudio Maria MastroianniNiccola SalviSara CiminoCarlo Lavalle |
| University Medical Center Mannheim | Mannheim | Germany | Mohammad Abumayyaleh |
| The Second People's Hospital of Shenzhen | Shenzhen | China | Fulan CenSong WangManfei ZengLiping QiuFangfan YeYajing Huang |
| Complejo Hospitalario Universitario de Santiago de Compostela | Santiago de Compostela | Spain | Diego Lopez-OteroTaboada Muñiz |
| Hospital Universitario Guadalajara | Guadalajara | Spain |  |
| Hospital Clínico de Valencia | Valencia | Spain | María Jose FornerVicente BodiElvira BondiaPaloma AlbiolNerea Perez-SoléAlba MuletAna de GraciaLucía Fernández—PresaClara BonanadJoaquin Canoves |
| Hospital Clínico San Carlos | Madrid | Spain | Oscar VediaCarlos VergaraVíctor Hugo Moreno MunguíaFrancisco Javier MartinJosé Tomás RamosMiriam de La Puente YagueJuana María Brenes SánchezInés Gil PradosIsabel FernándezMaría Arantzazu Álvarez de ArcayaMaría Ángeles CuadradoCarlos ElviraAndrea Valcárcel Alonso,María del Rosario Iguaran Bermúdez,  Carmen Blasco-Fanlo Cristina Villamor Jimenez, Cristina Botella Moreno, Ernesto Mora Fernández, Jesús Jacob Carlos Ignacio Garcia-Asenjo, Carmen Cuervo Molinero, Iñigo Sagastagoitia Fornie, Federico Cuesta Triana, Juncal Perez- Somarriba, Angel Nieto Sánchez, Lara, Guardado Fuentes  |
| Hospital Severo Ochoa | Leganés | Spain | María Molina |
| Hospital Joan XXIII | Tarragona | Spain |  |
| San Luigi Gonzaga University Hospital, Orbassano and Rivoli Infermi Hospital, Rivoli (Turin), Italy | Turin | Italy | Amanda SpiritoFlavio PietrangiolilloSalvatore Campagnuolo |
| Hospital General del norte de Guayaquil IESS Los Ceibos | Guayaquil | Ecuador | Erick Alexander Jara LeónGalo Guillermo Farfán CanoFernando Aníbal Marmol MosqueraLuis ALfonso Moreno RondónDiego Raúl Villavicencio GarcíaEric Antonio Alava MontesdeocaJosé Luis Rodríguez Campos |
| Hospital Clínico Universitario Virgen de la Arrixaca | Murcia | Spain | Jose Miguel Rivera-CaravacaPablo Gil-PerezCecilia Lopez-GarcíaDomingo Pascual-FigalAntonio Tello-MontoliuEncarnación Moral EscuderoAlicia Hernández TorresAychel Elena Roura Piloto |
| Hospital Virgen del Mar | Madrid | Spain | Oriol Casals RafecasVictoria Márquez FernándezMaría Jesús González JuárezAda Viviana Romero EcheverryPaola Tatiana García GiraldoCarlos de la Fuente GutiérrezManuel Montes LluchMaría Eugenia García RamírezJoaquín Solís JiménezReina García Closas |
| Azienda ospedaliero-universitaria consorziale policlinico di Bari | Bari | Italy | Palma Luisa NestolaMaria Grazia Carmela La MarcaGioacchino AngaranoAnnalisa SaracinoOnofrio RestaGiovanna Elisiana CarpagnanoEnrico BuonamicoSalvatore GrassoLidia DalfinoRachele Iannuzziello |
| Hospital Universitario Getafe | Madrid | Spain | Virginia ÁlvarezSilvia BledaSilvia OdehGema NúñezMaría Isabel OrtegaJoaquín Jesús AlonsoAlfonso Fraile |
| University Hospital Álvaro Cunqueiro | Vigo | Spain | Emad Abu Assi Andrés Iñiguez RomoDolores Vila María Teresa Pérez Rodriguez Alexandre Perez |
| Hospital Universitario La Paz | Madrid | Spain | María Angélica Rivera NúñezClara Cabre-Verdiell SurribasVictoria Lo Iacono GarcíaRosario Torres Santos OlmoBerta Anton HuguetIsabel Arenas BerenguerBerta Alonso GonzalezBegoña Reche MartínezRegina Cabrera GameroBelén OlivaMikel Rico BríasLorena López Corcuera |
| Martini Hospital,via Tofane, Turin.  | Turin | Italy | Francesco FioravantiLuca Franchin |
| San Giovanni Bosco, ASL CittÃ  di Torino, Turin, Italy | Turin | Italy | Umberto Annone |
| A.O.U. Maggiore dellaq Carita | Novara | Italy |  |
| ASL BAT | Andria | Italy |  |
| HOSPITAL DE ESPECIALIDADES DE LAS FUERZAS ARMADAS N1 | Quito | Ecuador |  María Belén DiazDiana SalgadoSantiago Andrés Gualivisi |
| Hospital General de Albacete | Albacete | Spain | Juan Gabriel Córdoba SorianoRaquel Ramos MartinezLaura Expósito Calamardo |
| Hospital Puerta de Hierro de Majadahonda | Majadahonda. Madrid | Spain | Juan Antonio Vargas NúñezPatricia Serrano de la FuenteMonica Sanchez SantiusteCarmen Vizoso GalvezCristina Moreno LópezMercedes Valentín Pastrana AguilarIsabel Redondo Cánovas del CastilloLucia Romero ImazClaudia García Rodríguez MaimánJose María Camino SalvadorMiguel Del pino Jimenez    |
| Hospital Universitario de Burgos | Burgos | Spain |  Jose Antonio Fernández RateroBibiana CarreiraJose Ángel Pérez RiberaMiguel MonteroJuan Manuel de VicenteJuan Pablo Garcia MuñozMaría Fernandez ReguereasMaría López VelosoCarolina NavarroJorge BoadoSergio Ossa |
| Hospital Universitario Infanta Sofia. San Sebastián de los Reyes. Madrid | Madrid | Spain |  Clara CimarraMaría BarrionuevoJesus Varas Rita Esther MedinaPaloma MateoCarmen Rodriguez |
| Hospital Universitario PrÍncipe de Asturias, Madrid, Spain. | Madrid | Spain | Honan Roiz AndinoCarolina Aguilar AndreaMaría Ángeles López LópezCesar Briega IglesiasFernando Calvo GarridoMaría Isabel CarrascoAngel Luis Martín SonsecaWael HumaidGema Esteban GutierrezMaría Tuian Leiva |
| Kerckhoff Heart and maniesThorax Center | Bad Nauheim | Germany | J WolterAndreas Rolf |
| Policlinico San Pietro | Ponte San Pietro | Italy | Enrico Pinotti |
| Hospital Universitario Juan Ramón Jimenez | Huelva | Spain | Alvaro López MasjuanAdrián Rodríguez AlbarránSantiago Jesus Camacho FreireMaria Isabel Cabello LopezMacarena Chávez NavarroManuel García de la Vega SosaMiguel Ángel Montilla GarridoCarmen Lluch RequereyPedro Pájaro MerinoSamuel Ortiz crucesAndrea Sigismondi |
| Hospital de Quilpue | Quilpue | Chile | Daniela Cocas |
| Hospital de Manises | Valencia | Spain | Juan Fortunato García PrietoInmaculada Atienza GarridoEstefanía Tovar JorgeElisa Carmen Castillo EspinozaAndrea Ivette Romero CarpioMaria Martinez FortRosa RuizPatricia Sanchez |
| Hospital Pablo Arturo Suárez | Quito | Ecuador | Edgar LopezEstefanía Irigoyen |
| Hospital de Especialidades Carlos Andrade Marín | Quito | Ecuador | María Verónica Lopez MiaoDiana Isabel Salazar ChambaFreddy Peralta Coronel  |
| London Health Sciences Centre | London | Canada | Luciano Sposato |
| Clinica CardioVID | Medellin | Colombia | Paola Sanchez |