






Global Burden of Diseases

Global Burden of Cardiovascular Diseases and Risks, 1990-2022

George A. Mensah MD ^a, Valentin Fuster MD, PhD ^{b c}, Christopher J.L. Murray MD, DPhil ^d, Gregory A. Roth MD, MPH ^{d e}   

on behalf of the

Global Burden of Cardiovascular Diseases and Risks Collaborators*

George A. Mensah MD ^{1 2}, Yohannes Habtegiorgis Abate MSc ³, Mohammadreza Abbasian MD ^{4 5}, Foad Abd-Allah MD ⁶, Ashkan Abdollahi MD ^{7 8}, Mohammad Abdollahi PhD ^{9 10}, Deldar Morad Abdulah MPH ¹¹, Auwal Abdullahi PhD ^{12 13}, Ayele Mamo Abebe MSc ¹⁴, Aidin Abedi MD ^{15 16}, Armita Abedi MD ¹⁷, Olugbenga Olusola Abiodun FWACP ¹⁸, Hiwa Abubaker Ali PhD ¹⁹, Eman Abu-Gharbieh PhD ²⁰, Niveen M.E. Abu-Rmeileh PhD ²¹, Salahdein Aburuz PhD ^{22 23}, Abdelrahman I. Abushouk MD ^{24 25}, Ahmed Abu-Zaid MD ^{26 27}, Tigist Demssew Adane MSc ²⁸, Nicola J. Adderley PhD ²⁹, Oladimeji M. Adebayo MD ³⁰, Bashir Aden PhD ^{31 32}, Temitayo Esther Adeyeoluwa PhD ^{33 34}, Olorunsola Israel Adeyomoye PhD ³⁵, Qorinah Estiningtyas Sakilah Adnani PhD ³⁶, Fatemeh Afrashteh MD ³⁷, Shadi Afyouni PhD ³⁸, Saira Afzal PhD ^{39 40}, Pradyumna Agasthi MD ⁴¹, Antonella Agodi PhD ⁴², Constanza Elizabeth Aguilera Arriagada MD ⁴³, Williams Agyemang-Duah MSc ⁴⁴, Bright Opoku Ahinkorah MPhil ⁴⁵, Aqeel Ahmad PhD ⁴⁶, Danish Ahmad PhD ^{47 48}, Firdos Ahmad PhD ⁴⁹, Muayyad M. Ahmad PhD ⁵⁰, Ayman Ahmed MSc ^{51 52}, Haroon Ahmed PhD ⁵³, Muktar Beshir Ahmed MPH ^{54 55}, Syed Anees Ahmed PhD ⁵⁶, Marjan Ajami PhD ^{57 58}, Karolina Akinosoglou PhD ^{59 60}, Moein Ala MD ⁶¹, Tareq Mohammed Ali AL-Ahdal MPH ⁶², Samer O. Alalalmeh BPharm ⁶³, Ziyad Al-Aly MD ^{64 65}, Nazmul Alam DrPH ^{66 67}, Rasmieh Mustafa Al-amer PhD ^{68 69}, Alaa Alashi MD ⁷⁰, Mohammed Albashtawy PhD ⁷¹, Mohammad T. AlBataineh PhD ⁷², Haileselasie Berhane Alema MPH ⁷³, Sharifullah Alemi PhD ⁷⁴, Yihun Mulugeta Alemu MPH ^{75 76}, Adel Ali Saeed Al-Gheethi PhD ^{77 78}, Khalid F. Alhabib MD ⁷⁹, Fadwa Alhalaiga Naji Alhalaiga PhD ^{80 81}, Mohammed Usman Ali MSc ^{82 13}, Rafat Ali, PhD. pursuing ⁸³, Syed Shujait Shujait Ali PhD ⁸⁴, Gianfranco Alicandro PhD ^{85 86}, Reyhaneh Alikhani MD ⁸⁷, Syed Mohamed Aljunid PhD ^{88 89}, François Alla PhD ⁹⁰, Wael Almahmeed MD ^{91 92}, Sabah AL-Marwani MSc ^{93 94}, Jordi Alonso MD ^{95 96}, Rajaa M. Al-Raddadi PhD ⁹⁷, Farrukh Jawad Alvi MPH ⁹⁸, Nelson Alvis-Guzman PhD ^{99 100}, Nelson J. Alvis-Zakzuk MSc ^{101 102}, Hassan Alwafi PhD ¹⁰³, Hany Aly MD ¹⁰⁴, Prince M. Amegbor PhD ¹⁰⁵, Tarek Tawfik Amin MD ¹⁰⁶, Alireza Amindarolzarbi MD ¹⁰⁷, Mostafa Amini-Rarani PhD ¹⁰⁸, Sohrab Amiri PhD ¹⁰⁹, Enrico Ammirati MD ¹¹⁰, Tanu Anand MD ¹¹¹, Robert Ancuceanu PhD ¹¹², Deanna Anderlini MD ^{113 114}, Abhishek Anil MD ^{115 116}, Golnoosh Ansari MD ¹⁰⁷, Philip Emeka Anyanwu PhD ¹¹⁷, Anayochukwu Edward Anyasodor PhD ¹¹⁸, Geminn Louis Carace Apostol MD ^{119 120}, Jalal Arabloo PhD ¹²¹, Mosab Arafat PhD ¹²², Aleksandr Y. Aravkin PhD ^{123 124 125}, Olatunde Aremu PhD ¹²⁶, Benedetta Armocida MSc ¹²⁷, Johan Ärnlöv PhD ^{128 129}, Oluwaseyi Olalekan Arowosegbe MPH ^{130 131}, Anton A. Artamonov PhD ¹³², Kurnia Dwi Artanti MSc ¹³³, Judie Arulappan DSc ¹³⁴, Idowu Thomas Aruleba MSc ¹³⁵, Ashokan Arumugam PhD ^{136 137}, Zahra Aryan MD ^{138 139}, Mohammad Asghari-Jafarabadi PhD ^{140 141}, Thomas Astell-Burt PhD ^{142 143}, Mahshid Ataei PharmD ^{144 145}, Mohammad Athar PhD ^{146 147}, Alok Atreya MD ¹⁴⁸, Avinash Aujayeb MBBS ¹⁴⁹, Adedapo Wasii Awotidebe PhD ^{12 150}, Amdehiwot A. Aynalem MSc ¹⁵¹, Zahra Azizi MD ¹⁵², Ahmed Y. Azzam MBCh ^{153 154}, Abraham Samuel Babu PhD ^{155 156}, Muhammad Badar PhD ¹⁵⁷, Feras Bader MD ^{91 158}, Ashish D. Badiye PhD ¹⁵⁹, Arvind Bagga MD ¹⁶⁰, Sara Bagherieh BSc ¹⁶¹, Farshad Bahrami Asl PhD ^{162 163}, Ruhai Bai MD ¹⁶⁴, Jennifer L. Baker PhD ¹⁶⁵, Shankar M. Bakkannavar MD ¹⁶⁶, Abdulaziz T. Bako PhD ¹⁶⁷, Ravleen Kaur Bakshi MD ¹⁶⁸, Saliu A. Balogun PhD ¹⁶⁹, Ovidiu Constantin Baltatu PhD ¹⁷⁰, Kiran Bam MPH ¹⁷¹, Maciej Banach PhD ^{172 173}, Soham Bandyopadhyay BA ^{174 175}, Biswajit Banik PhD ^{176 177}, Palash Chandra Banik MPhil ¹⁷⁸, Kannu Bansal MD ^{179 180}, Hamid Reza Baradaran PhD ^{181 182}, Franca Barbic PhD ^{183 184}, Martina Barchitta PhD ⁴², Mainak Bardhan MD ¹⁸⁵, Suzanne Lyn Barker-Collo PhD ¹⁸⁶, Till Winfried Bärnighausen MD ^{187 188}, Francesco Barone-Adesi PhD ¹⁸⁹, Sandra Barteit PhD ¹⁹⁰, Lingkan Barua MPH ¹⁷⁸, Azadeh Bashiri PhD ¹⁹¹, Mohsen Bayati PhD ¹⁹², Nebiyu Simegnew Bayileye MD ¹⁹³, Emad Behboudi PhD ¹⁹⁴, Amir Hossein Behnoush BS ^{195 196}, Yannick Béjot PhD ^{197 198},

Sefealem Assefa Belay MSc¹⁹⁹, Melaku Ashagrie Belete MSc²⁰⁰, Uzma Iqbal Belgaumi MD²⁰¹, Michelle L. Bell PhD²⁰²,
Luis Belo PhD^{203 204}, Salaheddine Bendak PhD²⁰⁵, Bright Benfor MD^{206 207}, Derrick A. Bennett PhD²⁰⁸,
Isabela M. Bensoro PhD²⁰⁹, Catherine P. Benziger MD²¹⁰, Azizullah Beran MD²¹¹, Adam E. Berman MD²¹²,
Amiel Nazer C. Bermudez MD^{213 214}, Gregory J. Bertolacci BS¹²⁴, Habtamu B. Beyene PhD^{215 216}, Kebede A. Beyene PhD^{217 218},
Akshaya Srikanth Srikanth Bhagavathula PhD²¹⁹, Nikha Bhardwaj MD²²⁰, Pankaj Bhardwaj MD^{221 222},
Prarthna V. Bhardwaj MD²²³, Vivek Bhat MBBS²²⁴, Gurjit Kaur Bhatti PhD²²⁵, Jasvinder Singh Bhatti PhD²²⁶,
Boris Bikbov MD²²⁷, Andras Bikov PhD^{228 229}, Marina G. Birck PhD^{230 231}, Bijit Biswas MD²³², Saeid Bitaraf PhD²³³,
Aadam Olalekan Bodunrin MSc²³⁴, Eyob Ketema Bogale MPH²³⁵, Kassawmar Angaw Bogale MPH⁷⁵, Archith Bolor MD²³⁶,
Milad Bonakdar Hashemi MD²³⁷, Hamed Borhany MD²³⁸, Edward J. Boyko MD^{239 240}, Dejana Braithwaite PhD^{241 242},
Luisa C. Brant PhD²⁴³, Michael Brauer DSc^{244 124}, Susanne Breitner DSc^{245 246}, Andrey Briko PhD²⁴⁷, Lemma N. Bulto PhD²⁴⁸,
Yasser Bustanji PhD^{249 250}, Zahid A. Butt PhD^{251 252}, Daniela Calina PhD²⁵³, Fan Cao MD²⁵⁴, Rosario Cárdenas DSc²⁵⁵,
Sinclair Carr MS²⁵⁶, Giulia Carreras PhD²⁵⁷, Juan J. Carrero PhD²⁵⁸, Márcia Carvalho PhD^{259 204},
Joao Mauricio Castaldelli-Maia PhD²⁶⁰, Carlos A. Castañeda-Orjuela MD^{261 262},
PhD Maria Sofia Cattaruzza Luca Cegolon PhD^{263 264 265}, Ester Cerin PhD^{266 267}, Yaacoub Chahine MD^{268 269},
Jeffrey Shi Kai Chan MBChB²⁷⁰, Mei Yen Chan PhD^{271 272}, Raymond N.C. Chan MBChB²⁷³, Periklis Charalampous MSc²⁷⁴,
Jaykaran Charan MD¹¹⁵, Vijay Kumar Chattu MD^{275 276}, An-Tian Chen PhD^{277 278}, Catherine S. Chen BA¹²⁴, Haowei Chen MB²⁷⁹,
Suma Sri Chennapragada MD²⁸⁰, Derek S. Chew MD²⁸¹, Gerald Chi MD²⁸², Patrick R. Ching MD²⁸³, Abdulaal Chitheer MD²⁸⁴,
So Mi Jemma Cho PhD^{285 286}, William C.S. Cho PhD²⁸⁷, Bryan Chong MBBS²⁸⁸, Hitesh Chopra PhD²⁸⁹, Rahul Choudhary MD²⁹⁰,
Enayet Karim Chowdhury PhD^{291 292}, Rajiv Chowdhury PhD^{293 294}, Dinh-Toi Chu PhD²⁹⁵, Isaac Sunday Chukwu BMedSc²⁹⁶,
Arrigo Francesco Giuseppe Cicero PhD²⁹⁷, Zinhle Cindi PhD²⁹⁸, Iolanda Cioffi PhD²⁹⁹, Kaleb Coberly BS¹²⁴, Sean Coffey MB³⁰⁰,
Alyssa Columbus MS³⁰¹, Joao Conde PhD³⁰², Sara Conti PhD³⁰³, Barbara Corso PhD³⁰⁴, Sandra Cortés DrPH^{305 306},
Paolo Angelo Cortesi PhD³⁰³, Vera Marisa Costa PhD²⁰⁴, Rosa A.S. Couto MD³⁰⁷, Emma Johnson Cowart BS¹²⁴,
Michael H. Criqui MD³⁰⁸, Jessica A. Cruz BS¹²⁴, Sriharsha Dadana MD³⁰⁹, Omid Dadras DrPH^{310 311}, Xiaochen Dai PhD^{124 125},
Zhaoli Dai PhD^{312 313}, Maxwell Ayindenaba Dalaba PhD³¹⁴, Albertino Antonio Moura Damasceno PhD³¹⁵,
Giovanni Damiani MD^{316 317}, Emanuele D'Amico MD⁴², Saswati Das MD³¹⁸, Subasish Das PhD³¹⁹, Mohsen Dashti MD³²⁰,
Mohammad Dashtkoobi MD^{321 322}, Maedeh Dastmardi MD^{323 324}, Kairat Davletov PhD³²⁵, Aklilu Tamire Debele MSc³²⁶,
Shayom Debopadhya BS³²⁷, Nicole K. DeCleene BS¹²⁴, Ivan Delgado-Enciso DSc^{328 329}, Juana Maria Delgado-Saborit PhD³³⁰,
Berecha Hundessa Demessa MPH³³¹, Andreas K. Demetriades MD^{332 333}, Xinlei Deng PhD³³⁴, Edgar Denova-Gutiérrez DSc³³⁵,
Nebiyu Dereje Dereje PhD^{336 337}, Awoke Masrie Asrat Derese MPH³³⁸, Hardik Dineshbhai Desai MD³³⁹, Rupak Desai MBBS³⁴⁰,
Vinoth Gnana Chellaiyan Devanbu MD³⁴¹, Syed Masudur Rahman Dewan PhD^{342 343}, Sourav Dey MPhil³⁴⁴,
Vishal R. Dhulipala MD³⁴⁵, Daniel Diaz PhD^{346 347}, Michael J. Diaz BS³⁴⁸, Delaney D. Ding BS³⁴⁹,
Ricardo Jorge Dinis-Oliveira PhD^{350 351}, Thanh Chi Do MD³⁵², Thao Huynh Phuong Do MD³⁵³, Saeid Doaei PhD^{354 355},
Sushil Dohare MD³⁵⁶, Wanyue Dong MD³⁵⁷, Mario D'Oria MD^{264 358}, Wendel Mombaqué dos Santos PhD^{359 360},
Abdel Douiri PhD³⁶¹, Robert Kokou Dowou Mphil³⁶², Ashel Chelsea Dsouza MBBS³⁶³, Haneil Larson Dsouza MD^{364 365},
Viola Dsouza MSc³⁶⁶, Mi Du MSc^{367 368}, Andre Rodrigues Duraes PhD^{369 370}, Oyewole Christopher Durojaiye MPH³⁷¹,
Sulagna Dutta PhD^{372 373}, Arkadiusz Marian Dziedzic DSc³⁷⁴, Alireza Ebrahimi MD³⁷⁵, Defi Efendi MSN^{376 377},
Ferry Efendi PhD³⁷⁸, Diyan Ermawan Effendi MA³⁷⁹, Ebrahim Eini DDS³⁸⁰, Michael Ekholuenetale MSc^{381 382},
Temitope Cyrus Ekundayo PhD³⁸³, Iman El Sayed PhD³⁸⁴, Maha El Tantawi PhD³⁸⁵, Iffat Elbarazi DrPH³⁸⁶,
Frank J. Elgar PhD³⁸⁷, Islam Y. Elgendy MD^{388 389}, Muhammed Elhadi MD³⁹⁰, Waseem El-Huneidi PhD³⁹¹,
Mehdi Emamverdi MD³⁹², Theophilus I. Emeto PhD³⁹³, Ryenchindorj Erkhembayar MD³⁹⁴, Tesfahun C. Eshetie PhD^{395 396},
Juan Espinosa-Montero PhD³⁹⁷, Farshid Etaee MD³⁹⁸, Natalia Fabin MD²⁹⁷, Ibtihal Fadhil PhD³⁹⁹,
Adeniyi Francis Fagbamigbe PhD^{381 400}, Luca Falzone PhD^{401 402}, Carla Sofia e Sá Farinha MSc^{403 404},
MoezAlIslam Ezzat Mahmoud Faris PhD⁴⁰⁵, Andre Faro PhD⁴⁰⁶, Mithila Faruque MPH¹⁷⁸, Medhat Farwati MD^{407 408},
Abidemi Omolara Fasanmi PhD^{409 410}, Ali Fatehizadeh PhD⁴¹¹, Pooria Fazeli MSc^{412 413}, Valery L. Feigin PhD^{414 124 415},
Xiaoqi Feng PhD^{312 416}, Seyed-Mohammad Fereshtehnejad PhD^{128 417}, Abdullah Hamid Feroze MD^{418 419}, Pietro Ferrara MD⁴²⁰,
Nuno Ferreira PhD⁴²¹, Irina Filip MD^{422 423}, Laura Fleszar MPH¹²⁴, David Flood MD^{424 425},
Morenike Oluwatoyin Folayan FWACS^{426 427}, Artem Alekseevich Fomenkov PhD⁴²⁸, Diogo A. Fonseca PhD^{429 430},
Carla Fornari PhD³⁰³, Matteo Foschi MD^{431 432}, Richard Charles Franklin PhD⁴³³, Takeshi Fukumoto PhD⁴³⁴, PhD. BlimaFux⁴³⁵,
Peter Andras Gaal PhD^{436 437}, Muktar A. Gadanya FMCPh^{438 439}, Shilpa Gaidhane PhD⁴⁴⁰, Abduzhappar Gaipov PhD⁴⁴¹,
Emmanuela Gakidou PhD^{124 125}, Yaseen Galali ResM^{442 443}, Silvano Gallus DSc⁴⁴⁴, Aravind P. Gandhi MD⁴⁴⁵,
Balasankar Ganesan PhD⁴⁴⁶, Rupesh K. Gautam PhD⁴⁴⁷, Miglas W.W. Gebregergis MSc⁴⁴⁸,
Kahsu Gebrekirstos Gebrekidan PhD⁴⁴⁹, Johanna M. Geleijnse PhD⁴⁵⁰, Urge Gerema MSc⁴⁵¹, Alireza Ghajar MD⁴⁵²,
Seyyed-Hadi Ghamari MD^{139 453}, MohammadReza Ghasemi PhD^{454 455}, Ghazal Ghasempour Dabaghi MD¹⁶¹,

[Afsaneh Ghasemzadeh MD](#)³²⁰, [Ramy Mohamed Ghazy PhD](#)⁴⁵⁶, [Maryam Gholamalizadeh PhD](#)⁴⁵⁷,
[Arun Digambarrao Ghuge MPhil](#)^{458 459}, [Paramjit Singh Gill DM](#)¹¹⁷, [Tiffany K. Gill PhD](#)⁴⁶⁰, [Richard F. Gillum MD](#)^{461 462},
[Elena V. Gnedovskaya PhD](#)⁴⁶³, [Ali Golchin PhD](#)^{464 465}, [Pouya Goleij MSc](#)^{466 467}, [Giuseppe Gorini MD](#)⁴⁶⁸,
[Alessandra C. Goulart PhD](#)⁴⁶⁹, [Anmol Goyal MD](#)⁴⁷⁰, [Kashish Goyal MBBS](#)⁴⁷¹, [Shi-Yang Guan MD](#)⁴⁷², [Giovanni Guarducci MD](#)⁴⁷³,
[Mesay Dechasa Gudeta MSc](#)⁴⁷⁴, [Avirup Guha MD](#)^{475 476}, [Stefano Guicciardi MD](#)^{477 478}, [David Gulisashvili MD](#)⁴⁷⁹,
[Damitha Asanga Gunawardane MD](#)⁴⁸⁰, [Cui Guo PhD](#)⁴⁸¹, [Anish Kumar Gupta PharmD](#)^{482 483}, [Bhawna Gupta PhD](#)⁴⁸⁴,
[Indarchand Ratanlal Gupta PhD](#)^{485 486}, [Kartik Gupta MD](#)⁴⁸⁷, [Mohak Gupta MD](#)⁴⁸⁸, [Rajat Das Gupta MPH](#)^{489 490},
[Rajeev Gupta MD](#)^{491 492}, [Renu Gupta MD](#)²²⁰, [Sapna Gupta MSc](#)⁴⁹³, [Veer Bala Gupta PhD](#)⁴⁹⁴, [Vijai Kumar Gupta PhD](#)⁴⁹⁵,
[Vivek Kumar Gupta PhD](#)⁴⁹⁶, [Lami Gurmessa MSc](#)⁴⁹⁷, [Reyna Alma Gutiérrez PhD](#)⁴⁹⁸, [Farrokh Habibzadeh MD](#)⁴⁹⁹,
[Mostafa Hadei PhD](#)⁵⁰⁰, [Helia Sadat Haeri Boroogeni DMD](#)⁵⁰¹, [Aram Halimi BSc](#)⁵⁰², [Sebastian Haller MD](#)^{503 504},
[Rabih Halwani PhD](#)^{20 49}, [Randah R. Hamadeh PhD](#)⁵⁰⁵, [Nadia M. Hamdy PhD](#)⁵⁰⁶, [Samer Hamidi DrPH](#)⁵⁰⁷, [Chieh Han BA](#)¹²⁴,
[Qiuxia Han PhD](#)⁵⁰⁸, [Graeme J. Hankey MD](#)^{509 510}, [Md. Abdul Hannan PhD](#)^{511 512}, [Arief Hargono DMD](#)¹³³,
[Josep Maria Haro MD](#)^{513 514}, [Faizul Hasan MSc](#)⁵¹⁵, [Ikramul Hasan MPharm](#)⁵¹⁶, [Hamidreza Hasani MD](#)⁵¹⁷,
[Maryam Hashemian PhD](#)^{518 519}, [Md Saquib Hasnain PhD](#)⁵²⁰, [Amr Hassan MD](#)⁶, [Ikrama Hassan MPH](#)^{521 522},
[Johannes Haubold MD](#)^{523 524}, [Rasmus J. Havmoeller PhD](#)⁵²⁵, [Simon I. Hay FMedSci](#)^{124 125}, [Khezhar Hayat MS](#)^{526 527},
[Youssef Hbid PhD](#)⁵²⁸, [Omar E. Hegazi BPharm](#)⁶³, [Tadele Yohannes Hegena MPH](#)³³⁶, [Mohammad Heidari PhD](#)⁵²⁹,
[Bartosz Helfer PhD](#)^{530 531}, [Brenda Yuliana Herrera-Serna PhD](#)⁵³², [Claudiu Herteliu PhD](#)^{533 534}, [Hamed Hesami MD](#)^{535 536},
[Kamran Hessami MD](#)^{537 538}, [Keyvan Heydari MD](#)⁵³⁹, [Kamal Hezam PhD](#)^{540 541}, [Yuta Hiraike PhD](#)⁵⁴²,
[Nguyen Quoc Hoan DDS](#)⁵⁴³, [Ramesh Holla MD](#)⁵⁴⁴, [Md Mahbub Hossain MPH](#)^{545 546}, [Md. Belal Hossain MSc](#)^{244 547},
[Hassan Hosseinzadeh PhD](#)¹⁴², [Mehdi Hosseinzadeh PhD](#)^{548 549}, [Mihaela Hostiuc PhD](#)⁵⁵⁰, [Sorin Hostiuc PhD](#)^{551 552},
[Mohamed Hsairi MPH](#)⁵⁵³, [Junjie Huang MD](#)⁵⁵⁴, [Michael Hultström PhD](#)^{555 556}, [Hong-Han Huynh BS](#)⁵⁵⁷,
[Bing-Fang Hwang PhD](#)^{558 559}, [Khalid S. Ibrahim PhD](#)⁵⁶⁰, [Oluwatope Olaniyi Idowu MSc](#)⁵⁶¹,
[Olayinka Stephen Ilesanmi PhD](#)^{562 563}, [Irena M. Ilic PhD](#)⁵⁶⁴, [Milena D. Ilic PhD](#)⁵⁶⁵, [Mustapha Immurana PhD](#)⁵⁶⁶,
[Leeberk Raja Inbaraj MD](#)⁵⁶⁷, [Muhammad Iqhrammullah PhD](#)⁵⁶⁸, [Sheikh Mohammed Shariful Islam PhD](#)^{569 570},
[Faisal Ismail PhD](#)^{571 572}, [Nahlah Elkudssiah Ismail PhD](#)^{573 574}, [Gaetano Isola PhD](#)⁵⁷⁵, [Masao Iwagami PhD](#)^{576 577},
[Linda Merin J BDS](#)⁵⁷⁸, [Jalil Jaafari PhD](#)⁵⁷⁹, [Louis Jacob MD](#)^{580 581}, [Abdollah Jafarzadeh PhD](#)^{582 583}, [Khushleen Jaggi MD](#)^{584 585},
[Haitham Jahrami PhD](#)^{586 587}, [Akhil Jain MD](#)⁵⁸⁸, [Nityanand Jain MD](#)⁵⁸⁹, [Ammar Abdulrahman Jairoun PhD](#)^{590 591},
[Mihajlo Jakovljevic PhD](#)^{592 593}, [Roland Dominic G. Jamora PhD](#)^{594 595}, [Nilofer Javadi MD](#)^{596 597}, [Sathish Kumar Jayapal PhD](#)⁵⁹⁸,
[Shubha Jayaram MD](#)⁵⁹⁹, [Rime Jebai MPH](#)⁶⁰⁰, [Rebuma Sorsa Jeben MSc](#)⁶⁰¹, [Sun Ha Jee PhD](#)⁶⁰², [Anil K. Jha MD](#)⁶⁰³,
[Ravi Prakash Jha MSc](#)^{604 605}, [Vivekanand Jha MD](#)^{606 607}, [Heng Jiang PhD](#)^{608 609}, [Yinzi Jin PhD](#)⁶¹⁰, [Yash B. Jobanputra MD](#)⁶¹¹,
[Catherine Owens Johnson PhD](#)¹²⁴, [Mohammad Jokar DVM](#)^{612 613}, [Tamas Joo PhD](#)^{436 614}, [Abel Joseph MD](#)⁶¹⁵, [Nitin Joseph MD](#)⁶¹⁶,
[Charity Ehimwenma Joshua BSc](#)⁶¹⁷, [Jacek Jerzy Jozwiak PhD](#)⁶¹⁸, [Mikk Jürisson PhD](#)⁶¹⁹, [Ali Kabir MD](#)⁶²⁰, [Zubair Kabir PhD](#)⁶²¹,
[Vidya Kadashetti MDS](#)²⁰¹, [Farima Kahe MD](#)⁶²², [Rizwan Kalani MD](#)⁶²³, [Laleh R. Kalankesh PhD](#)⁶²⁴, [Farnaz Kalantar BPharm](#)⁶²⁵,
[Yogeshwar Kalkonde MD](#)⁶²⁶, [Sanjay Kalra DM](#)^{627 628}, [Ashwin Kamath MD](#)⁵⁴⁴, [Sagarika Kamath MHA](#)⁶²⁹,
[Arun Kamireddy MD](#)¹⁰⁷, [Tanuj Kanchan MD](#)⁶³⁰, [Himal Kandel PhD](#)^{631 632}, [Arun R. Kanmanthareddy MD](#)^{633 634},
[Kehinde Kazeem Kanmodi MPH](#)^{635 636}, [Sushil Kumar Kansal PhD](#)⁶³⁷, [Daniel John Kapner PhD](#)¹²⁴, [Sitanshu Sekhar Kar MD](#)⁶³⁸,
[Paschalis Karakasis MSc](#)⁶³⁹, [Prabin Karki BHLthSci](#)⁶⁴⁰, [Faizan Zaffar Kashoo MS Neurophysiotherapy](#)⁶⁴¹,
[Hengameh Kasraei MD](#)^{642 643}, [Eskeziaw Abebe Kassahun MPH](#)⁶⁴⁴, [Nicholas J. Kassebaum MD](#)^{645 124 125},
[Patrick D.M. C. Katoto PhD](#)^{646 647}, [Neda Kaydi PhD](#)⁶⁴⁸, [Foad Kazemi MD](#)⁶⁴⁹, [Sina Kazemian MD](#)^{650 651}, [Sara Kazeminia MD](#)⁶⁵²,
[Jessica A. Kerr PhD](#)^{653 654}, [Emmanuelle Kesse-Guyot PhD](#)^{655 656}, [Mohammad Keykhaei MD](#)^{139 657},
[Mohamad Mehdi Khadembashiri MD](#)^{658 323}, [Mohammad Amin Khadembashiri MD](#)^{659 660}, [Morteza Abdullatif Khafaie PhD](#)⁶⁶¹,
[Himanshu Khajuria PhD](#)⁶⁶², [Amirmohammad Khalaji BS](#)^{195 196}, [Nauman Khalid PhD](#)⁶⁶³, [Alireza Khalilian PhD](#)⁶⁶⁴,
[Rovshan Khalilov PhD](#)^{665 666}, [Asaduzzaman Khan PhD](#)⁶⁶⁷, [Ejaz Ahmad Khan MPH](#)⁶⁶⁸, [Junaid Khan PhD](#)⁶⁶⁹,
[M Nuruzzaman Khan PhD](#)^{670 671}, [Maseer Khan MD](#)³⁵⁶, [Mohammad Jobair Khan MPH](#)¹³, [Muhammad Shahzeb Khan MD](#)^{672 673},
[Yusra H. Khan PhD](#)⁶⁷⁴, [Mahammed Ziauddin Khan suheb MD](#)⁶⁷⁵, [Shaghayegh Khanmohammadi MD](#)^{676 195},
[Khaled Khatab PhD](#)^{677 678}, [Sorour Khateri MD](#)⁶⁷⁹, [Hamid Reza Khayat Kashani MD](#)⁶⁸⁰, [Khalid A. Kheirallah PhD](#)⁶⁸¹,
[Feriha Fatima Khidri PhD](#)⁶⁸², [Saeid Kian MD](#)⁶⁸³, [Zemene Demelash Kifle MSc](#)⁶⁸⁴, [Ruth W. Kimokoti MD](#)⁶⁸⁵,
[Adnan Kisa PhD](#)^{686 687}, [Sezer Kisa PhD](#)⁶⁸⁸, [Ali-Asghar Kolahi MD](#)⁴⁵³, [Farzad Kompani MD](#)⁶⁸⁹, [Gerbrand Koren PhD](#)⁶⁹⁰,
[Ashwin Laxmikant Kotnis PhD](#)⁶⁹¹, [Parvaiz A. Koul MD](#)⁶⁹², [Ai Koyanagi MD](#)⁶⁹³, [Kewal Krishan PhD](#)⁶⁹⁴, [Hare Krishna MD](#)²²⁰,
[Vijay Krishnamoorthy MD](#)^{695 645}, [Yuvaraj Krishnamoorthy MD](#)⁶⁹⁶, [Md Abdul Kuddus PhD](#)⁶⁹⁷, [Mohammed Kuddus PhD](#)⁶⁹⁸,
[Mukhtar Kulimbet MSc](#)^{699 700}, [Vishnutheertha Kulkarni MS](#)⁷⁰¹, [Akshay Kumar MD](#)^{702 703}, [Ashish Kumar MD](#)⁷⁰⁴,
[Naveen Kumar PhD](#)⁷⁰⁵, [Nithin Kumar MD](#)⁶¹⁶, [Rahul Kumar PhD](#)^{706 707}, [Netsanet Bogale Kumsa MSc](#)⁷⁰⁸,
[Kunle Rotimi Kunle MSc](#)^{709 710}, [Dian Kusuma DSc](#)^{711 712}, [Ilias Kyriopoulos PhD](#)⁷¹³, [Carlo La Vecchia MD](#)⁷¹⁴, [Ben Lacey PhD](#)^{208 715},

Muhammad Awwal Ladan PhD⁷¹⁶, Lucie Laflamme PhD^{717 718}, Chandrakant Lahariya MD^{719 720}, Arista Lahiri MD⁷²¹,
Daphne Teck Ching Lai PhD^{722 723}, Tea Lallukka PhD⁷²⁴, Qing Lan PhD⁷²⁵, Iván Landires MD^{726 727}, Francesco Lanfranchi MD⁷²⁸
, Bagher Larijani FACE⁷²⁹, Anders O. Larsson PhD^{730 731}, Savita Lasrado MS⁷³², MS Kamaluddin Latief Epidemiology^{733 734},
Kaveh Latifinaibin MD⁷³⁵, Jerrald Lau MPH⁷³⁶, Paolo Lauriola MD⁷³⁷, Khuong Le MSc⁷³⁸, Long Khanh Dao Le PhD⁷³⁹,
Nhi Huu Hanh Le MD^{740 741}, Thao Thi Thu Le MD⁷⁴², Trang Diep Thanh Le MD^{742 743}, Trang Thi Bich Le MD^{741 744},
Caterina Ledda PhD⁷⁴⁵, Munjae Lee PhD⁷⁴⁶, Paul H. Lee PhD⁷⁴⁷, Seung Won Lee MD⁷⁴⁸, Wei-Chen Lee PhD⁷⁴⁹,
Yo Han Lee PhD⁷⁵⁰, Kate E. LeGrand MPH¹²⁴, Mall Leinsalu PhD^{751 752}, Matilde Leonardi MD⁷⁵³, Temesgen L. Lerango MPH⁷⁵⁴,
An Li PhD^{755 756}, Ming-Chieh Li PhD⁷⁵⁷, Wei Li PhD⁷⁵⁸, Xiaopan Li PhD⁷⁵⁹, Yichong Li PhD⁷⁶⁰, Lee-Ling Lim MRCP^{761 762},
Stephen S. Lim PhD^{124 125}, Ro-Ting Lin PhD^{763 764}, Megan Lindstrom PhD¹²⁴, Shai Linn DrPH⁷⁶⁵, Gang Liu PhD^{766 767},
Simin Liu MD²¹⁴, Xiaofeng Liu PhD^{768 769}, Xuefeng Liu PhD^{770 771}, Katherine M. Livingstone PhD⁵⁶⁹, Erand Llanaj PhD^{772 773},
Platon D. Lopukhov, Cand of Sci (Med)⁷⁷⁴, Arianna Maever Loreche BS^{775 119}, László Lorenzovici MSc^{776 777},
Stefan Lorkowski PhD^{778 779}, Paulo A. Lotufo DrPH⁷⁸⁰, Giancarlo Lucchetti PhD⁷⁸¹, Alessandra Lugo PhD⁴⁴⁴,
Zheng Feei Ma PhD⁷⁸², Farzan Madadzadeh PhD⁷⁸³, Ralph Maddison PhD⁷⁸⁴, Javier A. Magaña Gómez PhD⁷⁸⁵,
Julien Magne PhD⁷⁸⁶, D. R. Mahadeshwara Prasad MD^{787 788}, Mehrdad Mahalleh MD⁸⁷, Mansour Adam Mahmoud PhD⁷⁸⁹,
Elham Mahmoudi MD⁸⁷, Behnaz Mahmoudvand MD⁷⁹⁰, Omar Mohamed Makram MD^{791 792}, Elaheh Malakan Rad MD⁷⁹³,
Reza Malekzadeh MD^{519 794}, Kashish Malhotra MBBS⁷⁹⁵, Iram Malik PhD⁷⁹⁶, Muhammad Sajeel Ahmed Malik PharmD⁷⁹⁷,
Tauqeer Hussain Mallhi PhD⁶⁷⁴, Deborah Carvalho Malta PhD⁷⁹⁸, Aseer Manilal PhD⁷⁹⁹, Yosef Manla MD⁹¹,
Yasaman Mansoori MD⁸⁰⁰, Borhan Mansouri PhD⁸⁰¹, Pejman Mansouri MD⁸⁷, Mohammad Ali Mansournia PhD⁸⁰²,
Hamid Reza Marateb PhD^{803 804}, Mirko Marino PhD⁸⁰⁵, Daniela Martini PhD⁸⁰⁶, Santi Martini PhD^{807 808},
Sharmeen Maryam PharmD⁸⁰⁹, Roy Rillera Marzo MD^{810 811}, Alireza Masoudi PhD⁸¹², Sahar Masoudi MSc⁵¹⁹,
Clara N. Matei PhD^{813 814}, Yasith Mathangasinghe MD^{815 816}, Elezebeth Mathews PhD⁸¹⁷, Manu Raj Mathur PhD^{818 819},
Jishanth Mattumpuram MD⁸²⁰, Richard James Maude PhD^{821 822}, Andrea Maugeri PhD⁸²³, Mahsa Mayeli MD¹⁹⁵,
Mohsen Mazidi PhD⁸²⁴, John J. McGrath MD^{825 826}, Steven M. McPhail PhD^{827 828}, Enkeleint A. Mechili PhD^{829 830},
John Robert Carabeo Medina MD^{213 831}, Jitendra Kumar Meena MD⁸³², Kamran Mehrabani-Zeinabad PhD⁸³³,
Max Alberto Mendez Mendez-Lopez PhD⁸³⁴, Walter Mendoza MD⁸³⁵, Ritesh G. Menezes MD⁸³⁶, Belayneh Mengist MPH⁸³⁷,
Sultan Ayoub Meo PhD⁸³⁸, Haftu Asmerom Meresa MSc⁸³⁹, Atte Meretoja MD^{840 841}, Tuomo J. Meretoja MD^{842 843},
Tomislav Mestrovic PhD^{844 124}, Kukulege Chamila Dinushi Mettananda PhD^{845 846}, Sachith Mettananda DPhil^{847 848},
Laurette Mhlanga PhD^{849 850}, Tianyue Mi PhD⁸⁵¹, Junmei Miao Jonasson PhD⁸⁵², Tomasz Miazgowski MD⁸⁵³,
Irmina Maria Michalek PhD^{854 855}, Ted R. Miller PhD^{856 291}, Le Huu Nhat Minh MD^{857 858}, Neema W. Minja MD^{859 860},
Pouya Mir Mohammad Sadeghi MD⁸⁶¹, Niloofar Mirdamadi MD^{729 862}, Andreea Mirica PhD⁵³³,
Erkin M. Mirrakhimov PhD^{863 864}, Moonis Mirza MD⁸⁶⁵, Mohammad Mirza-Aghazadeh-Attari MD^{320 866},
Prasanna Mithra MD⁶¹⁶, Zahra Moghimi MD⁸⁶⁷, Jama Mohamed MSc⁸⁶⁸, Mouhand F.H. Mohamed MSc⁸⁶⁹,
Nouh Saad Mohamed MSc^{870 871}, Soheil Mohammadi MD¹⁹⁵, Hussen Mohammed MPH⁸⁷², Mustapha Mohammed MSc^{873 874},
Salahuddin Mohammed PhD^{875 876}, Shafiu Mohammed PhD^{877 878}, Nagabhishek Moka MD^{879 880}, Ali H. Mokdad PhD^{124 125},
Hossein Molavi Vardanjani PhD⁸⁸¹, Sara Momtazmanesh MD^{195 139}, Lorenzo Monasta DSc⁸⁸², Fateme Montazeri MD^{139 883},
AmirAli Moodi Ghalibaf MD⁸⁸⁴, Yousef Moradi PhD⁸⁸⁵, Paula Moraga PhD⁸⁸⁶, Lidia Morawska PhD⁸⁸⁷,
Negar Morovatdar MD⁸⁸⁸, Shane Douglas Morrison MD⁸⁸⁹, Jakub Morze PhD⁸⁹⁰, Ebrahim Mostafavi PhD^{152 891},
Amirmahdi Mostofinejad MSc⁸⁹², Vincent Mouglin BS¹²⁴, Parsa Mousavi MD⁸⁹³, Seyed Ehsan Mousavi MD^{894 895},
Dariush Mozaffarian DrPH⁸⁹⁶, Ahmed Msherghi MD⁸⁹⁷, Lorenzo Muccioli MD⁴⁷⁸, Ulrich Otto Mueller MD^{898 899},
Sumoni Mukherjee PhD^{900 901}, Kavita Munjal PhD⁹⁰², Efrén Murillo-Zamora PhD^{903 904}, Ghulam Mustafa MD^{905 906},
Sathish Muthu MS^{907 908}, Julius C. Mwita MD⁹⁰⁹, Woojae Myung PhD⁹¹⁰, Ahamarshan Jayaraman Nagarajan MTech^{911 912},
Shankar Prasad Nagaraju DM⁹¹³, Ganesh R. Naik PhD^{914 915}, Gurudatta Naik MPH⁹¹⁶, Tapas Sadasivan Nair MD⁹¹⁷,
Mohammad Sadeq Najafi MD^{918 919}, Noureddin Nakhostin Ansari PhD^{920 921}, Vinay Nangia MD⁹²²,
Sreenivas Narasimha Swamy MD⁹²³, Shumaila Nargus PhD^{98 98}, Bruno Ramos Nascimento PhD^{924 925},
Gustavo G. Nascimento PhD⁹²⁶, Hadis Nasoori PharmD⁹²⁷, Zuhair S. Natto DrPH^{928 929}, Javid Nauman PhD^{930 931},
Muhammad Naveed PhD⁹³², Biswa Prakash Nayak PhD⁶⁶², Vinod C. Nayak MD¹⁶⁶, Hadush Negash MSc⁹³³,
Ionut Negoii PhD^{934 935}, Ruxandra Irina Negoii PhD^{936 937}, Reza Nejad Shahrokh Abadi MD⁹³⁸,
Seyed Aria Nejadghaderi MD^{883 676}, Chakib Nejari PhD^{939 940}, Mohammad Hadi Nematollahi PhD⁹⁴¹, Samata Nepal MD⁹⁴²,
Nawi Ng PhD^{852 943}, Dang H. Nguyen BS^{388 944}, Phat Tuan Nguyen MD⁹⁴⁵, Van Thanh Nguyen MD⁹⁴⁶,
Robina Khan Niazi PhD⁹⁴⁷, Shawn S. Nijjar MSc^{948 949}, Muhammad A. Nizam MD⁹⁵⁰, Efaq Ali Noman PhD^{951 952},
Shuheii Nomura PhD^{953 954}, Mamoona Noreen PhD⁹⁵⁵, Bo Norrving PhD⁹⁵⁶, Jean Jacques Noubiap MD⁹⁵⁷,
Chisom Adaobi Nri-Ezedi MD⁹⁵⁸, Mpiko Ntsekhe PhD^{959 960}, Dieta Nurrika PhD^{961 962}, Chimezie Igwegbe Nzopotam MPH⁹⁶³,
Ogochukwu Janet Nzopotam PhD^{964 965}, Kehinde O. Obamiro PhD⁹⁶⁶, Martin James O'Donnell PhD⁹⁶⁷,

[Onome Bright Oghenetega MSc](#)⁹⁶⁸, [Ayodipupo Sikiru Oguntade MSc](#)^{969 970}, [James Odhiambo Oguta MSc](#)⁹⁷¹,
[Sylvester Reuben Okeke PhD](#)^{972 973}, [Akinkunmi Paul Okekunle PhD](#)^{974 975}, [Lawrence Okidi MSc](#)⁹⁷⁶,
[Osaretin Christabel Okonji MSc](#)⁹⁷⁷, [Patrick Godwin Okwute MSc](#)^{978 979}, [Andrew T. Olagunju MD](#)^{980 981},
[Muideen Tunbosun Olaiya PhD](#)¹⁷¹, [Matifan Dereje Olana PhD](#)^{982 983}, [Matthew Idowu Olatubi PhD](#)⁹⁸⁴,
[Gláucia Maria Moraes Oliveira PhD](#)⁹⁸⁵, [Abdulahakeem Abayomi Olorukooba MSc](#)⁹⁸⁶, [Isaac Iyinoluwa Olufadewa MHS](#)^{987 382},
[Yinka Doris Oluwafemi PhD](#)⁹⁸⁸, [Gideon Olamilekan Oluwatunase MSc](#)^{989 990}, [Goran Latif Omer MD](#)^{991 992},
[Mohammad Mehdi Ommati PhD](#)⁹⁹³, [Kanyin Liane Ong PhD](#)¹²⁴, [Sokking Ong FAMS](#)^{994 995}, [Kenneth Ikenna Onyedibe PhD](#)⁹⁹⁶,
[Michal Ordak PhD](#)⁹⁹⁷, [Doris V. Ortega-Altamirano DrPH](#)⁹⁹⁸, [Alberto Ortiz MD](#)^{999 1000}, [Esteban Ortiz-Prado PhD](#)¹⁰⁰¹,
[Wael M.S. Osman PhD](#)¹⁰⁰², [Uchechukwu Levi Osugagwu PhD](#)^{1003 1004}, [Adrian Otoiu PhD](#)⁵³³, [Stanislav S. Otstavnov PhD](#)^{1005 1006},
[Mayowa O. Owolabi DrM](#)^{1007 969}, [Mahesh Padukudru P A DNB](#)¹⁰⁰⁸, [Alicia Padron-Monedero PhD](#)¹⁰⁰⁹,
[Jagadish Rao Padubidri MD](#)¹⁰¹⁰, [Mahsa Pahlavikhah Varnosfaderani MSc](#)¹⁰¹¹, [Tamás Palicz MD](#)^{436 1012},
[Raffaele Palladino MD](#)^{1013 1014}, [Feng Pan PhD](#)¹⁶⁹, [Hai-Feng Pan PhD](#)¹⁰¹⁵, [Seithikurippu R. Pandi-Perumal MSc](#)^{1016 1017},
[Paraskevi Papadopoulou PhD](#)^{1018 1019}, [Seoyeon Park MD](#)¹⁰²⁰, [Roberto Passera PhD](#)^{1021 1022}, [Jay Patel BSc](#)^{1023 1024},
[Shankargouda Patil PhD](#)^{1025 1026}, [Dimitrios Patoulas PhD](#)^{1027 1028}, [Venkata Suresh Patthipati MD](#)^{1029 1030},
[Shrikant Pawar PhD](#)¹⁰³¹, [Amy E. Peden PhD](#)^{1032 1033}, [Paolo Pedersini MSc](#)¹⁰³⁴, [Minjin Peng MPH](#)^{1035 1036},
[Veincent Christian Filipino Pepito MSc](#)¹⁰³⁷, [Emmanuel K. Peprah PhD](#)¹⁰⁵, [Marcos Pereira PhD](#)¹⁰³⁸, [Maria Odete Pereira PhD](#)¹⁰³⁹,
[Mario F.P. Peres MD](#)^{1040 1041}, [Arokiasamy Perianayagam PhD](#)¹⁰⁴², [Norberto Perico MD](#)¹⁰⁴³,
[Fanny Emily Petermann-Rocha PhD](#)^{1044 1045}, [Hoang Tran Pham MD](#)¹⁰⁴⁶, [Anil K. Philip PhD](#)¹⁰⁴⁷, [David M. Pigott PhD](#)^{124 125},
[Thomas Pilgrim MD](#)¹⁰⁴⁸, [Michael A. Piradov DSc](#)⁴¹⁵, [Evgenii Plotnikov PhD](#)^{1049 1050}, [Dimitri Poddighe PhD](#)^{1051 1052},
[Roman V. Polibin PhD](#)⁷⁷⁴, [Ramesh Poluru PhD](#)¹⁰⁵³, [Ghazaleh Pourali MD](#)^{1054 1055}, [Akram Pourshams MD](#)⁵¹⁹,
[Pranil Man Singh Pradhan MD](#)^{1056 1057}, [Manya Prasad MD](#)¹⁰⁵⁸, [Elton Junio Sady Prates BS](#)⁷⁹⁸, [Bharathi M. Purohit MDS](#)¹⁰⁵⁹,
[Jagadeesh Puvvula PhD](#)¹⁰⁶⁰, [Ibrahim Qattee MD](#)¹⁰⁶¹, [Gangzhen Qian MS](#)¹⁰⁶², [Maryam Faiz Qureshi MD](#)¹⁰⁶³,
[Mehrdad Rabiee rad MD](#)^{161 1064}, [Amir Radfar MD](#)¹⁰⁶⁵, [Seyedeh Niloufar Rafiei Alavi MD](#)¹⁰⁶⁶, [Ibrar Rafique PhD](#)¹⁰⁶⁷,
[Alberto Raggi PhD](#)¹⁰⁶⁸, [Fakher Rahim PhD](#)^{1069 1070}, [Md Jillur Rahim MA](#)^{1071 1072}, [Mehran Rahimi MD](#)¹⁰⁷³,
[Mosiur Rahman DrPH](#)¹⁰⁷⁴, [Muhammad Aziz Rahman PhD](#)^{1075 1076}, [Amir Masoud Rahmani PhD](#)¹⁰⁷⁷, [Bita Rahmani MSc](#)¹⁰⁷⁸,
[Shayan Rahmani MD](#)^{883 139}, [Vahid Rahmanian PhD](#)¹⁰⁷⁹, [Pramila Rai MPH](#)¹⁰⁸⁰, [Sathish Rajaa MD](#)⁶⁹⁶,
[Ali Rajabpour-Sanati MD](#)¹⁰⁸¹, [Prashant Rajput PhD](#)¹⁰⁸², [Pradhun Ram MD](#)¹⁰⁸³, [Prasanna Ram MS](#)¹⁰⁸⁴,
[Sudha Ramalingam MD](#)¹⁰⁸⁵, [Shakthi Kumaran Ramasamy MD](#)¹⁰⁸⁶, [Sheena Ramazanu PhD](#)¹⁰⁸⁷,
[Pushkal Sinduvadi Ramesh PhD](#)¹⁰⁸⁸, [Juwel Rana MPH](#)^{1089 1090}, [Kritika Rana PhD](#)¹⁰⁹¹, [Chhabi Lal Ranabhat PhD](#)^{1092 1093},
[Nemanja Rancic PhD](#)^{1094 1095}, [Ameey Rane MS](#)^{1096 1097}, [Shubham Ranjan MA](#)¹⁰⁹⁸, [Annemarei Ranta PhD](#)^{1099 1100},
[Indu Ramachandra Rao DM](#)⁹¹³, [Mithun Rao MD](#)¹¹⁰¹, [Sowmya J. Rao MDS](#)¹¹⁰², [Sina Rashedi MD](#)^{87 676}, [Vahid Rashedi PhD](#)¹¹⁰³,
[Ahmed Mustafa Rashid MD](#)¹¹⁰⁴, [Azad Rasul PhD](#)¹¹⁰⁵, [Zubair Ahmed Ratan MSc](#)^{1106 142}, [Giridhara Rathnaiah Babu PhD](#)^{1107 1108},
[Nakul Ravikumar MD](#)¹¹⁰⁹, [Salman Rawaf MD](#)^{1014 1110}, [Iman Razeghian-Jahromi PhD](#)¹¹¹¹, [Christian Razo PhD](#)¹²⁴,
[Murali Mohan Rama Krishna Reddy MD](#)²³⁶, [Elrashdy Moustafa Mohamed Redwan PhD](#)^{1112 1113}, [Giuseppe Remuzzi MD](#)¹⁰⁴³,
[Luis Felipe Reyes PhD](#)^{1114 1115}, [Nazila Rezaei MD](#)¹³⁹, [Mohsen Rezaeian PhD](#)¹¹¹⁶, [Antonio Luiz P. Ribeiro MD](#)^{243 1117},
[Daniela Ribeiro PhD](#)^{1118 1119}, [Reza Rikhtegar MD](#)¹¹²⁰, [Leonardo Roever PhD](#)^{1121 1122}, [Debby Syahrul Romadlon PhD](#)¹¹²³,
[Luca Ronfani PhD](#)⁸⁸², [Himanshu Sehar Sekhar Rout PhD](#)¹¹²⁴, [Nitai Roy PhD](#)¹¹²⁵, [Priyanka Roy PhD](#)¹¹²⁶,
[Andrzej Rynkiewicz PhD](#)¹¹²⁷, [Aly M.A. Saad MD](#)¹¹²⁸, [Zahra Saadatian PhD](#)^{1129 1130}, [Siamak Sabour PhD](#)¹¹³¹,
[Simona Sacco MD](#)¹¹³², [Rajesh Sachdeva MD](#)^{1133 1134}, [Basema Saddik PhD](#)¹¹³⁵, [Erfan Sadeghi PhD](#)⁸⁸¹, [Umar Saeed PhD](#)^{1136 1137},
[Fahimeh Safaeinejad PhD](#)¹¹³⁸, [Fatemeh Saheb Sharif-Askari PhD](#)¹¹³⁹, [Narjes Saheb Sharif-Askari PhD](#)²⁰,
[Amirhossein Sahebkar PhD](#)^{1140 1141}, [Soumya Swaroop Sahoo MD](#)¹¹⁴², [Seyed Aidin Sajedi MD](#)¹¹⁴³, [Mirza Rizwan Sajid PhD](#)¹¹⁴⁴,
[Joseph W. Sakshaug PhD](#)^{1145 1146}, [Nasir Salam PhD](#)⁸³, [Afeez Abolarinwa Salami BDS](#)^{1147 1148}, [Mohamed A. Saleh PhD](#)^{49 1149},
[Sana Salehi MD](#)¹¹⁵⁰, [Marwa Rashad Salem MD](#)¹¹⁵¹, [Mohammed Z.Y. Salem PhD](#)¹¹⁵², [Sara Samadzadeh MD](#)^{1153 1154},
[Saad Samargandy PhD](#)⁹⁷, [Vijaya Paul Samuel PhD](#)¹¹⁵⁵, [Abdallah M. Samy PhD](#)^{1156 1157}, [Juan Sanabria MD](#)^{1158 1159},
[Rama Krishna Sanjeev MD](#)¹¹⁶⁰, [Milena M. Santric-Milicevic PhD](#)^{564 1161}, [Muhammad Arif Nadeem Saqib PhD](#)^{1162 1163},
[Made Ary Sarasmita PharmD](#)^{1164 1165}, [Aswini Saravanan MD](#)^{1166 1167}, [Yaser Sarikhani PhD](#)^{1168 643}, [Tanmay Sarkar PhD](#)¹¹⁶⁹,
[Rodrigo Sarmiento-Suárez MPH](#)^{1170 1171}, [Gargi Sachin Sarode PhD](#)¹¹⁷², [Sachin C. Sarode PhD](#)¹¹⁷³,
[Thirunavukkarasu Sathish PhD](#)¹¹⁷⁴, [Anudeep Sathyanarayan MD](#)¹¹⁷⁵, [Monika Sawhney PhD](#)¹¹⁷⁶, [Mehdi Sayyah MD](#)¹¹⁷⁷,
[Nikolaos Scarmeas PhD](#)^{1178 1179}, [Benedikt Michael Schaarschmidt MD](#)⁵²³, [Art Schuermans BSc](#)^{1180 1181},
[Austin E. Schumacher PhD](#)¹²⁴, [Aletta Elisabeth Schutte PhD](#)^{1032 1182}, [David C. Schwebel PhD](#)¹¹⁸³, [Mansour Sedighi PhD](#)¹¹⁸⁴,
[Abdul-Aziz Seidu MPhil](#)^{1185 1186}, [Farbod Semnani BMedSc](#)¹¹⁸⁷, [Sabyasachi Senapati PhD](#)²²⁶, [Pallav Sengupta PhD](#)^{1188 1189},
[Subramanian Senthilkumaran MD](#)¹¹⁹⁰, [Sadaf G. Sepanlou MD](#)^{519 794}, [Yashendra Sethi MBBS](#)¹¹⁹¹, [Seyed Arsalan Seyedi MD](#)¹¹⁹²,
[Allen Seylani BS](#)¹¹⁹³, [Maryam Shabany PhD](#)^{1194 1195}, [Melika Shafeghat MD](#)¹⁹⁵, [Mahan Shafie MD](#)³²¹, [Pritik A. Shah MBBS](#)^{1196 1197},

[Ataollah Shahbandi MD](#)¹¹⁹⁸, [Izza Shahid MBBS](#)¹¹⁹⁹, [Samiah Shahid PhD](#)^{1200 1201}, [Wajeehah Shahid PhD](#)¹²⁰²,
[Moyad Jamal Shahwan PhD](#)¹²⁰³, [Masood Ali Shaikh MD](#)¹²⁰⁴, [Sunder Sham MD](#)¹²⁰⁵, [Muhammad Aaqib Shamim MBBS](#)¹¹⁵,
[Mohd Shanawaz MD](#)¹²⁰⁶, [Sadaf Sharfaei MD](#)^{1207 1208}, [Amin Sharifan PharmD](#)^{1209 1210}, [Javad Sharifi-Rad PhD](#)¹²¹¹,
[Purva Sharma MD](#)¹²¹², [Saurab Sharma PhD](#)^{1213 1214}, [Ujjawal Sharma PhD](#)¹²¹⁵, [Vishal Sharma PhD](#)¹²¹⁶, [Aziz Sheikh MD](#)^{1217 1218},
[Desalegn Shiferaw Shiferaw MPH](#)^{1219 54}, [Mika Shigematsu PhD](#)¹²²⁰, [Min-Jeong Shin PhD](#)¹²²¹, [Rahman Shiri PhD](#)¹²²²,
[Kawkab Shishani PhD](#)¹²²³, [Aminu Shittu MSc](#)¹²²⁴, [Ivy Shiue PhD](#)^{1225 1226}, [K.M. Shivakumar PhD](#)¹²²⁷, [Sunil Shrestha PharmD](#)¹²²⁸,
[Kerem Shuval PhD](#)¹²²⁹, [Migbar Mekonnen Sibhat MSc](#)¹²³⁰, [Inga Dora Sigfusdottir PhD](#)^{1231 1232}, [Colin R. Simpson PhD](#)^{1233 1234},
[Abhinav Singh MD](#)¹²³⁵, [Aditya Singh PhD](#)¹²³⁶, [Ambrish Singh MTech](#)¹⁶⁹, [Jasvinder A. Singh MD](#)^{1237 1238},
[Paramdeep Singh MD](#)¹²³⁹, [Rajat Singh PhD](#)¹²⁴⁰, [Surjit Singh MD](#)¹¹⁵, [Md Shahjahan Siraj MSc](#)¹²⁴¹,
[Valentin Yurievich Skryabin MD](#)^{1242 1243}, [Anna Aleksandrovna Skryabina MD](#)¹²⁴⁴, [David A. Sleet PhD](#)^{1245 1246},
[Hamidreza Soleimani MD](#)⁶⁷⁶, [Solikhah Solikhah DrPH](#)¹²⁴⁷, [Sameh S.M. Soliman PhD](#)¹²⁴⁸, [Juyeon Son PhD](#)¹²⁴⁹,
[Suhang Song PhD](#)¹²⁵⁰, [Yi Song PhD](#)¹²⁵¹, [Joan B. Soriano MD](#)^{1252 1253}, [Michael Spartalis PhD](#)¹²⁵⁴,
[Chandrashekar T. Sreeramareddy MD](#)¹²⁵⁵, [Lauryn K. Stafford BS](#)¹²⁴, [Benjamin A. Stark MA](#)¹²⁴, [Paschalis Steiropoulos MD](#)¹²⁵⁶,
[Stefan Stortecy MD](#)¹⁰⁴⁸, [Rizwan Suliankatchi Abdulkader MD](#)¹²⁵⁷, [Abida Sultana MD](#)^{1258 1259}, [Johan Sundström PhD](#)^{730 1182},
[Chandan Kumar Swain MPh](#)¹²⁶⁰, [Payam Tabaee Damavandi MD](#)¹²⁶¹, [Seyyed Mohammad Tabatabaei PhD](#)^{1262 1263},
[Ozra Tabatabaei Malazy PhD](#)⁷²⁹, [Seyed-Amir Tabatabaeizadeh PhD](#)^{1264 1265}, [Shima Tabatabai PhD](#)¹²⁶⁶, [Karen M. Tabb PhD](#)¹²⁶⁷,
[Mohammad Tabish MPharm](#)¹²⁶⁸, [Takahiro Tabuchi MD](#)¹²⁶⁹, [Fentaw Tadese MPH](#)¹²⁷⁰, [Yasaman Taheri Abkenar PharmD](#)¹²⁷¹,
[Jabeen Taiba MPH](#)¹²⁷², [Iman M. Talaat PhD](#)^{20 1273}, [Mircea Tampa PhD](#)^{813 1274}, [Jacques J.L. Lukenze Tamuzi MSc](#)^{1275 1276},
[Ker-Kan Tan PhD](#)⁷³⁶, [Haosu Tang PhD](#)¹²⁷⁷, [Elvis Enowbeyang Tarkang PhD](#)^{1278 150}, [Nathan Y. Tat MS](#)^{1279 1280},
[Seyed Mohammad Tavangar MD](#)¹²⁸¹, [Hadi Tehrani PhD](#)¹²⁸², [Mojtaba Teimoori MD](#)¹²⁸³, [Mohamad-Hani Temsah MD](#)¹²⁸⁴,
[Reem Mohamad Hani Temsah PharmD](#)¹²⁸⁵, [Masayuki Teramoto MD](#)¹²⁸⁶, [Pugazhenthan Thangaraju MD](#)¹²⁸⁷,
[Kavumpurathu Raman Thankappan MD](#)¹²⁸⁸, [Rajshree Thapa PhD](#)^{1289 1290}, [Rekha Thapar MD](#)⁶¹⁶,
[Aravind Thavamani MD](#)^{1291 1292}, [Rasiah Thayakaran PhD](#)^{1293 1294}, [Nikhil Kenny Thomas MD](#)¹²⁹⁵, [Jing Tian PhD](#)¹⁶⁹,
[Ales Tichopad PhD](#)¹²⁹⁶, [Tala Tillawi MD](#)¹²⁹⁷, [Marcello Tonelli MD](#)¹²⁹⁸, [Roman Topor-Madry PhD](#)^{1299 1300},
[Mathilde Touvier PhD](#)^{1301 1302}, [Marcos Roberto Tovani-Palone PhD](#)^{1303 1304}, [Jasmine T. Tran BS](#)¹³⁰⁵, [Nghia Minh Tran MD](#)¹³⁰⁶,
[Phu Van Tran BSc](#)¹³⁰⁷, [Indang Trihandini PhD](#)⁷¹², [Avnish Tripathi PhD](#)¹³⁰⁸, [Samuel Joseph Tromans PhD](#)^{747 1309},
[Vien T. Truong MD](#)¹³¹⁰, [Thien Tan Tri Tai Truyen MD](#)¹³¹¹, [Aristidis Tsatsakis DSc](#)¹³¹², [Guesh Mebrahtom Tsegay MSc](#)¹³¹³,
[Evangelia Eirini Tsermpini PhD](#)¹³¹⁴, [Munkhtuya Tumurkhuu PhD](#)¹³¹⁵, [Kang Tung PhD](#)¹³¹⁶, [Chukwudi S. Ubah MPH](#)^{1317 1318},
[Aniefiok John Udoakang PhD](#)¹³¹⁹, [Arit Udoh PhD](#)¹³²⁰, [Atta Ullah MS](#)¹³²¹, [Sana Ullah PhD](#)^{1322 1323}, [Muhammad Umair PhD](#)^{1324 1325},
[Tungki Pratama Umar MD](#)¹³²⁶, [Brigid Unim PhD](#)¹³²⁷, [Bhaskaran Unnikrishnan MD](#)¹³²⁸, [Era Upadhyay PhD](#)⁷⁰⁵,
[Jibrin Sammani Usman PhD](#)^{1329 13}, [Seyed Mohammad Vahabi MD](#)¹¹⁸⁷, [Asokan Govindaraj Vaithinathan MSc](#)¹³³⁰,
[Rohollah Valizadeh PhD](#)¹³³¹, [Jef Van den Eynde BSc](#)¹¹⁸¹, [Orsolya Varga PhD](#)¹³³², [Siddhartha Alluri Varma MDS](#)¹³³³,
[Priya Vart PhD](#)¹³³⁴, [Shoban Babu Varthya MD](#)¹¹⁵, [Tommi Juhani Vasankari MD](#)^{1335 1336}, [Balachandar Vellingiri PhD](#)^{1337 1338},
[Dominique Vervoort MD](#)¹³³⁹, [Jorge Hugo Villafañe PhD](#)¹⁰³⁴, [Francesco S. Violante MD](#)^{297 1340}, [Maria Viskadourou MD](#)¹³⁴¹,
[Simona Ruxandra Volovat PhD](#)^{1342 1343}, [Theo Vos PhD](#)^{124 125}, [Isidora S. Vujcic PhD](#)¹³⁴⁴, [Hatem A. Wafa MPH](#)¹³⁴⁵,
[Feras Wahab MSc](#)¹²⁴, [Cong Wang MPH](#)^{1346 1347}, [Fang Wang PhD](#)¹³⁴⁸, [Nelson Wang MD](#)^{1349 1350}, [Shu Wang MD](#)¹³⁵¹,
[Yanzhong Wang PhD](#)¹³⁴⁵, [Yuan-Pang Wang PhD](#)¹⁰⁴⁰, [Melissa Y. Wei MD](#)^{1352 1353}, [Andrea Werdecker PhD](#)¹³⁵⁴,
[Nuwan Darshana Wickramasinghe MD](#)¹³⁵⁵, [Tissa Wijeratne MD](#)^{1356 1357}, [Angga Wilandika Mkep](#)¹³⁵⁸, [Shadrach Wilson BS](#)¹²⁴,
[Charles D.A. Wolfe MD](#)^{1345 1359}, [Utoomporn Wongsin MS](#)¹³⁶⁰, [Zenghong Wu PhD](#)¹³⁶¹, [Hong Xiao PhD](#)^{1362 1363},
[Suowen Xu PhD](#)^{1364 1365}, [Xiaoyue Xu PhD](#)^{312 1366}, [Lalit Yadav PhD](#)^{1367 460}, [Yuichiro Yano MD](#)¹³⁶⁸, [Habib Yaribeygi PhD](#)¹³⁶⁹,
[Yuichi Yasufuku MSc](#)^{1370 1371}, [Iman Yazdani Nia MD](#)¹³⁷², [Pengpeng Ye MPH](#)^{1373 1374}, [Subah Abderehim Yesuf MSc](#)^{1375 1376},
[Saber Yezli PhD](#)¹³⁷⁷, [Arzu Yiğit PhD](#)¹³⁷⁸, [Vahit Yiğit PhD](#)¹³⁷⁸, [Mekdes Tigistu Yilma MPH](#)¹³⁷⁹, [Dong Keon Yon MD](#)¹³⁸⁰,
[Naohiro Yonemoto PhD](#)^{1381 1382}, [Zabihollah Yousefi PhD](#)¹³⁸³, [Laetitia Yperzeele PhD](#)^{1384 1385}, [Chuanhua Yu PhD](#)¹³⁸⁶,
[Ismaeel Yunusa PhD](#)¹³⁸⁷, [Nima Zafari MD](#)¹³⁸⁸, [Farbod Zahedi Tajrishi MD](#)¹³⁸⁹, [Fathiah Zakhm PhD](#)^{1390 1391},
[Mikhail Sergeevich Zastrozhin PhD](#)^{1392 1393}, [Mohammad A. Zeineddine MD](#)¹³⁹⁴, [Dawit T. Zemedikun PhD](#)^{1395 29},
[Youjie Zeng MD](#)¹³⁹⁶, [Chunxia Zhai MD](#)^{1397 1398}, [Chen Zhang MD](#)^{1399 1400}, [Haijun Zhang MS](#)^{1401 1402}, [Hongwei Zhang MD](#)¹⁴⁰³,
[Liqun Zhang MS](#)^{1404 1405}, [Ning Zhang PhD](#)¹⁴⁰⁶, [Yunquan Zhang PhD](#)^{1407 1408}, [Hanqing Zhao MD](#)¹⁴⁰⁹, [Peng Zheng PhD](#)^{124 125},
[Chenwen Zhong MD](#)⁵⁵⁴, [Shuduo Zhou PhD](#)^{610 1401}, [Bin Zhu PhD](#)¹⁴¹⁰, [Lei Zhu PhD](#)¹⁴¹¹, [Magdalena Zielińska MPharm](#)¹⁴¹²,
[Yossef Teshome Zikarg MSc](#)¹⁴¹³, [Mohammad Zmaili MD](#)¹⁴¹⁴, [Leo Zucker Zoeckler BA](#)¹²⁴, [Zhiyong Zou MD](#)¹²⁵¹,
[Alimuddin Zumla PhD](#)^{1415 1416}, [Elric Zweck MD](#)^{1417 188}, [Samer H. Zyoud PhD](#)^{1418 1419}, [Valentin Fuster MD](#)^{1420 1421},
[Christopher J.L. Murray DPhil](#)^{124 125}, [Gregory A. Roth MD](#)^{1422 124 125}

¹ Center for Translation Research and Implementation Science, National Institutes of Health, Bethesda, MD, USA

² Department of Medicine, University of Cape Town, Cape Town, South Africa

- 3 Department of Clinical Governance and Quality Improvement, Aleta Wondo Hospital, Aleta Wondo, Ethiopia
- 4 Department of Orthopedic Surgery, Harvard University, Boston, MA, USA
- 5 Department of Orthopaedic Surgery, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 6 Department of Neurology, Cairo University, Cairo, Egypt
- 7 Department of Cardiovascular Medicine, Johns Hopkins University, Baltimore, MD, USA
- 8 Department of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran
- 9 The Institute of Pharmaceutical Sciences (TIPS), Tehran University of Medical Sciences, Tehran, Iran
- 10 School of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran
- 11 Community and Maternity Nursing Unit, University of Duhok, Duhok, Iraq
- 12 Department of Physiotherapy, Bayero University Kano, Kano, Nigeria
- 13 Department of Rehabilitation Sciences, Hong Kong Polytechnic University, Hong Kong, China
- 14 Pediatrics Nursing Department, Debre Berhan University, Debre Berhan, Ethiopia
- 15 Department of Neurosurgery, University of Southern California, Los Angeles, CA, USA
- 16 Keck School of Medicine, University of Southern California, Los Angeles, CA, USA
- 17 Department of Emergency Medicine, Zanjan University of Medical Sciences, Zanjan, Iran
- 18 Department of Internal Medicine, Federal Medical Centre, Abuja, Nigeria
- 19 Department of Banking and Finance, University of Human Development, Sulaymaniyah, Iraq
- 20 Clinical Sciences Department, University of Sharjah, Sharjah, United Arab Emirates
- 21 Institute of Community and Public Health, Birzeit University, Ramallah, Palestine
- 22 Department of Therapeutics, United Arab Emirates University, Al Ain, United Arab Emirates
- 23 College of Pharmacy, University of Jordan, Amman, Jordan
- 24 Department of Internal Medicine, Yale School of Medicine, New Haven, CT, USA
- 25 Department of Medicine, Ain Shams University, Cairo, Egypt
- 26 Department of Surgery, Alfaisal University, Riyadh, Saudi Arabia
- 27 College of Graduate Health Sciences, University of Tennessee, Memphis, TN, USA
- 28 Department of Clinical and Psychosocial Epidemiology, University of Groningen, Groningen, Netherlands
- 29 Institute of Applied Health Research, University of Birmingham, Birmingham, UK
- 30 College of Medicine, University College Hospital, Ibadan, Ibadan, Nigeria
- 31 Khalifa University, Abu Dhabi, United Arab Emirates
- 32 Institute of Public Health, Walden University, Al Ain, United Arab Emirates
- 33 Department of Bioscience and Biotechnology, University of Medical Sciences, Ondo, Ondo city, Nigeria
- 34 Department of Veterinary Medicine, University of Ibadan, Ibadan, Nigeria
- 35 Department of Physiology, University of Medical Sciences, Ondo, Ondo City, Nigeria
- 36 Faculty of Medicine, Universitas Padjadjaran (Padjadjaran University), Bandung, Indonesia
- 37 Department of Medicine, Iran University of Medical Sciences, Tehran, Iran
- 38 Johns Hopkins Radiology Department, Jackson State University, Baltimore, MD, USA
- 39 Department of Community Medicine, King Edward Memorial Hospital, Lahore, Pakistan
- 40 Department of Public Health, Public Health Institute, Lahore, Pakistan
- 41 Department of Cardiovascular Medicine, Mayo Clinic, Scottsdale, AZ, USA
- 42 Department of Medical and Surgical Sciences and Advanced Technologies "GF Ingrassia", University of Catania, Catania, Italy
- 43 Unidad de Emergencia Adulto, Complejo Asistencial Dr. Sótero del Río, Santiago, Chile
- 44 Department of Geography and Planning, Queen's University, Kingston, ON, Canada
- 45 School of Public Health, University of Technology Sydney, Sydney, NSW, Australia
- 46 Department of Medical Biochemistry, Shaqra University, Shaqra, Saudi Arabia
- 47 School of Medicine and Psychology, Australian National University, Canberra, ACT, Australia
- 48 Public Health Foundation of India, Gandhinagar, India
- 49 College of Medicine, University of Sharjah, Sharjah, United Arab Emirates
- 50 Department of Clinical Nursing, University of Jordan, Amman, Jordan
- 51 Institute of Endemic Diseases, University of Khartoum, Khartoum, Sudan
- 52 Swiss Tropical and Public Health Institute, University of Basel, Basel, Switzerland
- 53 Department of Biosciences, COMSATS Institute of Information Technology, Islamabad, Pakistan
- 54 Department of Epidemiology, Jimma University, Jimma, Ethiopia
- 55 Australian Center for Precision Health, University of South Australia, Adelaide, SA, Australia
- 56 Brody School of Medicine, East Carolina University, Greenville, NC, USA
- 57 Department of Food and Nutrition Policy and Planning Research, National Institute of Nutrition, Tehran, Iran

- 58 National Nutrition and Food Technology Research Institute, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 59 Department of Internal Medicine, University of Patras, Patras, Greece
- 60 Internal Medicine and Infectious Diseases, University General Hospital of Patras, Patras, Greece
- 61 Department of Pharmacology, Tehran University of Medical Sciences, Tehran, Iran
- 62 Institute of Global Health, Heidelberg University, Heidelberg, Germany
- 63 Department of Clinical Sciences, Ajman University, Ajman, United Arab Emirates
- 64 John T. Milliken Department of Internal Medicine, Washington University in St. Louis, St. Louis, MO, USA
- 65 Clinical Epidemiology Center, US Department of Veterans Affairs (VA), St. Louis, MO, USA
- 66 Department of Public Health, Asian University for Women, Chittagong, Bangladesh
- 67 Asian University for Women, McGill University, Chittagong, Bangladesh
- 68 School of Nursing, Yarmouk University, Irbid, Jordan
- 69 School of Nursing and Midwifery, Western Sydney University, Sydney, NSW, Australia
- 70 Department of Internal Medicine, Texas Tech University Health Sciences Center, El Paso, OH, USA
- 71 Community and Mental Health Department, Al al-Bayt University, Mafraq, Jordan
- 72 Department of Molecular Biology and Genetics, Khalifa University, Abu Dhabi, United Arab Emirates
- 73 Department of Public Health, Aksum University, Axum, Ethiopia
- 74 Department of Global Health Entrepreneurship, Tokyo Medical and Dental University, Tokyo, Japan
- 75 Department of Epidemiology and Biostatistics, Bahir Dar University, Bahir Dar, Ethiopia
- 76 Epidemiology and Population Health, Australian National University, Canberra, ACT, Australia
- 77 Global Centre for Environmental Remediation, University of Newcastle, Newcastle, NSW, Australia
- 78 Cooperative Research Centre for Contamination Assessment and Remediation of the Environment, Newcastle, NSW, Australia
- 79 Department of Cardiac Sciences, King Saud University, Riyadh, Saudi Arabia
- 80 College of Nursing, Qatar University, Doha, Qatar
- 81 Psychological Sciences Association, Amman, Jordan
- 82 Department of Medical Rehabilitation (Physiotherapy), University of Maiduguri, Maiduguri, Nigeria
- 83 Department of Biosciences, Jamia Millia Islamia, New Delhi, India
- 84 Center for Biotechnology and Microbiology, University of SWAT, Swat, Pakistan
- 85 Department of Pathophysiology and Transplantation, Università degli Studi di Milano (University of Milan), Milan, Italy
- 86 Cystic Fibrosis Center, Fondazione IRCCS Ospedale Maggiore Policlinico (IRCCS "Ca' Granda Maggiore Policlinico" Hospital Foundation), Milan, Italy
- 87 Department of Cardiology, Tehran University of Medical Sciences, Tehran, Iran
- 88 Department of Health Policy and Management, Kuwait University, Kuwait, Kuwait
- 89 International Centre for Casemix and Clinical Coding, National University of Malaysia, Bandar Tun Razak, Malaysia
- 90 Bordeaux School of Public Health, University of Bordeaux, Bordeaux, France
- 91 Department of Cardiology, Heart, Vascular, and Thoracic Institute, Cleveland Clinic Abu Dhabi, Abu Dhabi, United Arab Emirates
- 92 College of Medicine and Health Sciences Academic Programs, Khalifa University, Abu Dhabi, United Arab Emirates
- 93 Department of Dentistry, Independent Consultant, Sana'a, Yemen
- 94 Department of Public Health and Community Medicine, Independent Consultant, Irbid, Jordan
- 95 Research Program of Epidemiology and Public Health, Pompeu Fabra University, Barcelona, Spain
- 96 Department of Experimental and Health Sciences, Biomedical Research Networking Center in Epidemiology and Public Health (CiberESP), Madrid, Spain
- 97 Department of Community Medicine, King Abdulaziz University, Jeddah, Saudi Arabia
- 98 University Institute of Public Health, The University of Lahore, Lahore, Pakistan
- 99 Research Group in Hospital Management and Health Policies, Universidad de la Costa (University of the Coast), Barranquilla, Colombia
- 100 Research Group in Health Economics, University of Cartagena, Cartagena, Colombia
- 101 Department of Economic Sciences, Universidad de la Costa (University of the Coast), Barranquilla, Colombia
- 102 National Health Observatory, National Institute of Health, Bogota, Colombia
- 103 Department of Clinical Pharmacology and Toxicology, Umm Al-Qura University, Makkah, Saudi Arabia
- 104 Department of Pediatrics, Cleveland Clinic, Cleveland, OH, USA
- 105 School of Global Public Health, New York University, New York, NY, USA
- 106 Public Health Department, Cairo University, Cairo, Egypt
- 107 Department of Radiology, Johns Hopkins University, Baltimore, MD, USA
- 108 Health Management and Economics Research Center, Isfahan University of Medical Sciences, Isfahan, Iran

- 109 Medicine, Quran and Hadith Research Center, Baqiyatallah University of Medical Sciences, Tehran, Iran
- 110 De Gasperis Cardio Center, Niguarda Hospital, Milano, Italy
- 111 Clinical Studies and Trials Unit, Indian Council of Medical Research, Delhi, India
- 112 Faculty of Pharmacy, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
- 113 Centre for Sensorimotor Performance, The University of Queensland, Brisbane, QLD, Australia
- 114 Neurology Department, Royal Brisbane and Women's Hospital, Brisbane, QLD, Australia
- 115 Department of Pharmacology, All India Institute of Medical Sciences, Jodhpur, India
- 116 All India Institute of Medical Sciences, Bhubaneswar, India
- 117 Warwick Medical School, University of Warwick, Coventry, UK
- 118 School of Dentistry and Medical Sciences, Charles Sturt University, Orange, NSW, Australia
- 119 School of Medicine and Public Health, Ateneo De Manila University, Pasig City, Philippines
- 120 Inter-Agency Committee on Environmental Health, Department of Health Philippines, City of Manila, Philippines
- 121 Health Management and Economics Research Center, Iran University of Medical Sciences, Tehran, Iran
- 122 College of Pharmacy, Al Ain University, Abu Dhabi, United Arab Emirates
- 123 Department of Applied Mathematics, University of Washington, Seattle, WA, USA
- 124 Institute for Health Metrics and Evaluation, University of Washington, Seattle, WA, USA
- 125 Department of Health Metrics Sciences, School of Medicine, University of Washington, Seattle, WA, USA
- 126 Department of Public Health, Birmingham City University, Birmingham, UK
- 127 Department of Cardiovascular, Endocrine-Metabolic Diseases and Aging, National Institute of Health, Rome, Italy
- 128 Department of Neurobiology, Care Sciences, and Society, Karolinska Institute, Stockholm, Sweden
- 129 School of Health and Social Studies, Dalarna University, Falun, Sweden
- 130 Department of Epidemiology and Public Health, Swiss Tropical and Public Health Institute, Basel, Switzerland
- 131 Department of Epidemiology and Public Health, University of Basel, Basel, Switzerland
- 132 Department of Biophysics, Russian Academy of Sciences, Moscow, Russia
- 133 Department of Epidemiology, Universitas Airlangga (Airlangga University), Surabaya, Indonesia
- 134 Department of Maternal and Child Health, Sultan Qaboos University, Muscat, Oman
- 135 Department of Electrical and Electronics Engineering Science, University of Johannesburg, Johannesburg, South Africa
- 136 Department of Physiotherapy, University of Sharjah, Sharjah, United Arab Emirates
- 137 Department of Community Medicine and Rehabilitation, Umeå University, Umeå, Sweden
- 138 Brigham and Women's Hospital, Harvard University, Boston, MA, USA
- 139 Non-communicable Diseases Research Center, Tehran University of Medical Sciences, Tehran, Iran
- 140 Cabrini Research, Cabrini Health, Malvern, VIC, Australia
- 141 School of Public Health and Preventative Medicine, Monash University, Melbourne, VIC, Australia
- 142 School of Health and Society, University of Wollongong, Wollongong, NSW, Australia
- 143 Menzies Centre for Health Policy, University of Sydney, Sydney, NSW, Australia
- 144 Department of Toxicology and Pharmacology, Tehran University of Medical Sciences, Tehran, Iran
- 145 Birjand University of Medical Sciences, Birjand University of Medical Sciences, Birjand, Iran
- 146 Department of Medical Genetics, Umm Al-Qura University, Makkah, Saudi Arabia
- 147 Science and Technology Unit, Umm Al-Qura University, Makkah, Saudi Arabia
- 148 Department of Forensic Medicine, Lumbini Medical College, Palpa, Nepal
- 149 Northumbria HealthCare NHS Foundation Trust, Newcastle upon Tyne, UK
- 150 School of Nursing and Public Health, University of KwaZulu-Natal, Durban, South Africa
- 151 School of Nursing, Hawassa University, Hawassa, Ethiopia
- 152 Department of Medicine, Stanford University, Palo Alto, CA, USA
- 153 Department of Neurovascular Research, Nested Knowledge, Inc., Saint Paul, MN, USA
- 154 Faculty of Medicine, October 6 University, 6th of October City, Egypt
- 155 Department of Physiotherapy, Manipal Academy of Higher Education, Manipal, India
- 156 Department of Medicine, University of Melbourne, Melbourne, VIC, Australia
- 157 Gomal Center of Biochemistry and Biotechnology, Gomal University, Dera Ismail Khan, Pakistan
- 158 Cleveland Clinic Lerner College of Medicine, Case Western Reserve University, Cleveland, OH, USA
- 159 Department of Forensic Science, Government Institute of Forensic Science, Nagpur, India
- 160 Department of Pediatrics, All India Institute of Medical Sciences, New Delhi, India
- 161 School of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran
- 162 Department of Environmental Health Engineering, Urmia University of Medical Sciences, Urmia, Iran
- 163 Department of Environmental Health Engineering, Tehran University of Medical Sciences, Hamadan, Iran
- 164 School of Public Affairs, Nanjing University of Science and Technology, Nanjing, China
- 165 Center for Clinical Research and Prevention, Bispebjerg University Hospital, Frederiksberg, Denmark

- 166 Department of Forensic Medicine and Toxicology, Manipal Academy of Higher Education, Manipal, India
- 167 Department of Neurosurgery, Houston Methodist Hospital, Houston, TX, USA
- 168 Maternal and Child Health Unit, Indian Council of Medical Research, New Delhi, India
- 169 Menzies Institute for Medical Research, University of Tasmania, Hobart, TAS, Australia
- 170 Center of Innovation, Technology and Education (CITE), Anhembi Morumbi University, Sao Jose dos Campos, Brazil
- 171 Department of Medicine, Monash University, Clayton, VIC, Australia
- 172 Department of Hypertension, Medical University of Lodz, Lodz, Poland
- 173 Polish Mothers' Memorial Hospital Research Institute, Lodz, Poland
- 174 Nuffield Department of Surgical Sciences, University of Oxford, Oxford, UK
- 175 Department of Neurosurgery, University of Southampton, Southampton, UK
- 176 Institute of Health and Wellbeing (IHW), Federation University Australia, Melbourne, VIC, Australia
- 177 Manna Institute, University of New England, Armidale, NSW, Australia
- 178 Department of Non-communicable Diseases, Bangladesh University of Health Sciences, Dhaka, Bangladesh
- 179 Department of Medicine, University of Massachusetts Medical School, Worcester, MA, USA
- 180 Department of Medicine, Saint Vincent Hospital, Worcester, MA, USA
- 181 Department of Epidemiology, Iran University of Medical Sciences, Tehran, Iran
- 182 Ageing Clinical and Experimental Research (ACER) Team, University of Aberdeen, Aberdeen, UK
- 183 Department of Biomedical Sciences, Humanitas University, Milan, Italy
- 184 Department of Epidemiology and Biostatistics, Western University, London, ON, Canada
- 185 Miami Cancer Institute, Baptist Health South Florida, Miami, FL, USA
- 186 School of Psychology, University of Auckland, Auckland, New Zealand
- 187 Heidelberg Institute of Global Health (HIGH), Heidelberg University, Heidelberg, Germany
- 188 T.H. Chan School of Public Health, Harvard University, Boston, MA, USA
- 189 Department of Translational Medicine, University of Eastern Piedmont, Novara, Italy
- 190 Heidelberg Institute of Global Health, Heidelberg University Hospital, Heidelberg, Germany
- 191 Health Information Management, Shiraz University of Medical Sciences, Shiraz, Iran
- 192 Health Human Resources Research Center, Shiraz University of Medical Sciences, Shiraz, Iran
- 193 Department of Surgery, Jimma University, Jimma, Ethiopia
- 194 Department of Basic Sciences, Khoy University of Medical Sciences, Khoy, Iran
- 195 School of Medicine, Tehran University of Medical Sciences, Tehran, Iran
- 196 Non-Communicable Diseases Research Center (NCDRC), Tehran, Iran
- 197 Department of Neurology, University Hospital of Dijon, Dijon, France
- 198 Dijon Stroke Registry, University of Burgundy, Dijon, France
- 199 College of Medicine and Health Sciences, Bahir Dar University, Bahir Dar, Ethiopia
- 200 Department of Medical Laboratory Science, Wollo University, Dessie, Ethiopia
- 201 Department of Oral and Maxillofacial Pathology, Krishna Vishwa Vidyapeeth (Deemed to be University), Karad, India
- 202 School of the Environment, Yale University, New Haven, CT, USA
- 203 Biological Sciences Department, University of Porto, Porto, Portugal
- 204 Research Unit on Applied Molecular Biosciences (UCIBIO), University of Porto, Porto, Portugal
- 205 Department of Industrial Engineering, Haliç University, Istanbul, Türkiye
- 206 Debakey Heart and Vascular Center, Houston Methodist Academic Institute, Houston, FL, USA
- 207 Department of Cardiovascular Surgery, Houston Methodist Hospital, Houston, TX, USA
- 208 Nuffield Department of Population Health, University of Oxford, Oxford, UK
- 209 Department of Internal Medicine, Universidade de São Paulo (University of São Paulo), São Paulo, Brazil
- 210 Heart and Vascular Center, Essentia Health, Duluth, MN, USA
- 211 Department of Gastroenterology and Hepatology, Indiana University School of Medicine, Indianapolis, IN, USA
- 212 Department of Medicine, Medical College of Georgia at Augusta University, Augusta, GA, USA
- 213 Department of Epidemiology and Biostatistics, University of the Philippines Manila, Manila, Philippines
- 214 Department of Epidemiology, Brown University, Providence, RI, USA
- 215 Department of Metabolomics, Baker Heart and Diabetes Institute, Melbourne, VIC, Australia
- 216 Department of Microbiology, Addis Ababa University, Addis Ababa, Ethiopia
- 217 School of Pharmacy, University of Auckland, Auckland, New Zealand
- 218 Department of Pharmaceutical and Administrative Sciences, University of Health Sciences and Pharmacy in St. Louis, St. Louis, MO, USA
- 219 Department of Public Health, North Dakota State University, Fargo, ND, USA
- 220 Department of Anatomy, All India Institute of Medical Sciences, Jodhpur, India
- 221 Department of Community and Family Medicine, All India Institute of Medical Sciences, Jodhpur, India

- 222 School of Public Health, All India Institute of Medical Sciences, Jodhpur, India
- 223 Department of Hematology Oncology, University of Massachusetts Medical School, Springfield, MA, USA
- 224 Department of Internal Medicine, St. John's National Academy of Health Sciences, Bangalore, India
- 225 Medical Lab Technology, Chandigarh University, Mohali, India
- 226 Department of Human Genetics and Molecular Medicine, Central University of Punjab, Bathinda, India
- 227 Scientific-Tools, Bergamo, Italy
- 228 Division of Infection, Immunity and Respiratory Medicine, University of Manchester, Manchester, UK
- 229 Department of Pulmonology, Semmelweis University, Budapest, Hungary
- 230 Department of Medicine, Division of Clinical Epidemiology, McGill University, Montreal, QC, Canada
- 231 Centre for Outcomes Research and Evaluation, Research Institute of the McGill University Health Centre, Montreal, QC, Canada
- 232 Department of Community and Family Medicine, All India Institute of Medical Sciences, Deoghar, India
- 233 Department of Biostatistics and Epidemiology, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran
- 234 Department of Computer Science, East Carolina University, Greenville, NC, USA
- 235 Health Promotion and Behavioural Science Department, Bahir Dar University, Bahir Dar, Ethiopia
- 236 Department of Internal Medicine, Manipal Academy of Higher Education, Mangalore, India
- 237 Urology Department, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 238 Internal Medicine Department of SBMU, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 239 School of Medicine, University of Washington, Seattle, WA, USA
- 240 General Medicine Service, Department of Veterans Affairs, Seattle, WA, USA
- 241 Department of Epidemiology, University of Florida, Gainesville, FL, USA
- 242 Cancer Population Sciences Program, University of Florida Health Cancer Center, Gainesville, FL, USA
- 243 Department of Internal Medicine, Federal University of Minas Gerais, Belo Horizonte, Brazil
- 244 School of Population and Public Health, University of British Columbia, Vancouver, BC, Canada
- 245 Institute for Medical Information Processing, Biometry, and Epidemiology, Ludwig Maximilian University of Munich, Munich, Germany
- 246 Institute of Epidemiology, Helmholtz Zentrum München German Research Center for Environmental Health, Neuherberg, Germany
- 247 Department of IT, Technologies in Biomedical Engineering for Research, Bauman Moscow State Technical University, Moscow, Russia
- 248 College of Nursing and Health Sciences, Flinders University, Adelaide, SA, Australia
- 249 Department of Biopharmaceutics and Clinical Pharmacy, The University of Jordan, Amman, Jordan
- 250 Department of Basic Biomedical Sciences, University of Sharjah, Sharjah, United Arab Emirates
- 251 School of Public Health and Health Systems, University of Waterloo, Waterloo, ON, Canada
- 252 Al Shifa School of Public Health, Al Shifa Trust Eye Hospital, Rawalpindi, Pakistan
- 253 Department of Clinical Pharmacy, University of Medicine and Pharmacy of Craiova, Craiova, Romania
- 254 Department of Ophthalmology, Capital Medical University, Beijing, China
- 255 Department of Health Care, Metropolitan Autonomous University, Mexico City, Mexico
- 256 Department of Epidemiology, Harvard University, Boston, MA, USA
- 257 Institute for Cancer Research, Prevention and Clinical Network, Florence, Italy
- 258 Department of Medical Epidemiology and Biostatistics, Karolinska Institute, Stockholm, Sweden
- 259 Faculty of Health Sciences, University Fernando Pessoa, Porto, Portugal
- 260 Department of Psychiatry, Universidade de São Paulo (University of São Paulo), São Paulo, Brazil
- 261 Colombian National Health Observatory, National Institute of Health, Bogota, Colombia
- 262 Epidemiology and Public Health Evaluation Group, National University of Colombia, Bogota, Colombia
- 263 Department of Public Health and Infectious Diseases, La Sapienza University, Rome, Italy
- 264 Department of Medical, Surgical, and Health Sciences, University of Trieste, Trieste, Italy
- 265 Public Health Unit, University Health Agency Giuliano-Isontina (ASUGI), Trieste, Italy
- 266 Mary MacKillop Institute for Health Research, Australian Catholic University, Melbourne, VIC, Australia
- 267 School of Public Health, University of Hong Kong, Hong Kong, China
- 268 Department of Internal Medicine, University of Washington, Seattle, WA, USA
- 269 Department of Cardiology, University of Washington, Seattle, WA, USA
- 270 Heart Failure and Structural Heart Disease Unit, Cardiovascular Analytics Group, Hong Kong, China
- 271 Department of Preventive Medicine (Nutrition), Astana Medical University, Nur-Sultan, Kazakhstan
- 272 Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore
- 273 Department of Medicine and Therapeutic, Prince of Wales Hospital, Hong Kong, China
- 274 Department of Public Health, Erasmus University Medical Center, Rotterdam, Netherlands

- 275 Temerty Faculty of Medicine, University of Toronto, Toronto, ON, Canada
- 276 Saveetha Dental College, Saveetha University, Chennai, India
- 277 Department of Cardiology, Peking Union Medical College, Beijing, China
- 278 Department of Computer Science, University of Texas Austin, Texas, TX, USA
- 279 Clinical Research Center, Southern Medical University, Guangzhou, China
- 280 Department of Hematology-Oncology, LSU Health Shreveport, Shreveport, LA, USA
- 281 Department of Cardiac Sciences, University of Calgary, Calgary, AB, Canada
- 282 Division of Cardiovascular Medicine, Harvard University, Boston, MA, USA
- 283 Division of Infectious Diseases, Virginia Commonwealth University, Richmond, VA, USA
- 284 Iraq Field Epidemiology Training Program (I-FETP), Ministry of Health, Baghdad, Iraq
- 285 Program in Medical and Population Genetics and the Cardiovascular Disease Initiative, Broad Institute of MIT and Harvard, Cambridge, MA, USA
- 286 Cardiovascular Research Center, Massachusetts General Hospital, Boston, MA, USA
- 287 Department of Clinical Oncology, Queen Elizabeth Hospital, Hong Kong, China
- 288 Department of Medicine, National University of Singapore, Singapore, Singapore
- 289 Chitkara College of Pharmacy, Chitkara University, Punjab, India
- 290 Department of Cardiology, All India Institute of Medical Sciences, Jodhpur, India
- 291 School of Public Health, Curtin University, Perth, WA, Australia
- 292 Department of Epidemiology and Preventative Medicine, Monash University, Melbourne, VIC, Australia
- 293 Florida International University, Florida International University, Miami, FL, USA
- 294 Department of Epidemiology, University of Bern, Bern, Switzerland
- 295 Center for Biomedicine and Community Health, VNU-International School, Hanoi, Viet Nam
- 296 Department of Paediatric Surgery, Federal Medical Centre, Umuahia, Nigeria
- 297 Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy
- 298 Department of Genetics, University of Pennsylvania, Philadelphia, PA, USA
- 299 Department of Food, Environmental and Nutritional Sciences (DEFENS), University of Milan, Università degli Studi di Milano, Italy
- 300 Department of Medicine, University of Otago, Dunedin, New Zealand
- 301 Department of Biostatistics, Johns Hopkins University, Baltimore, MD, USA
- 302 Nova Medical School, Nova University of Lisbon, Lisbon, Portugal
- 303 School of Medicine and Surgery, University of Milan Bicocca, Monza, Italy
- 304 Institute of Neuroscience, National Research Council, Pisa, Italy
- 305 Department of Public Health, Pontifical Catholic University of Chile, Santiago, Chile
- 306 Research Line in Environmental Exposures and Health Effects at Population Level, Centro de Desarrollo Urbano Sustentable (CEDEUS) (Advanced Center for Chronic Diseases [ACCDIS]), Santiago, Chile
- 307 Department of Chemical Sciences, University of Porto, Porto, Portugal
- 308 Department of Family Medicine and Public Health, University of California San Diego, La Jolla, CA, USA
- 309 Department of Internal Medicine, Cheyenne Regional Medical Center, Cheyenne, WY, USA
- 310 Department of Addiction Medicine, Haukland University Hospital, Bergen, Norway
- 311 Department of Global Public Health and Primary Care, University of Bergen, Bergen, Norway
- 312 School of Population Health, University of New South Wales, Sydney, NSW, Australia
- 313 School of Pharmacy and Charles Perkins Centre, University of Sydney, Sydney, Australia
- 314 Institute of Health and Allied Sciences, University of Health and Allied Sciences, Ho, Ghana
- 315 Faculty of Medicine, Eduardo Mondlane University, Maputo, Mozambique
- 316 IRCCS Istituto Ortopedico Galeazzi, Galeazzi Orthopedic Institute IRCCS (University of Milan), Milan, Italy
- 317 Department of Dermatology, Case Western Reserve University, Cleveland, OH, USA
- 318 Department of Biochemistry, Ministry of Health and Welfare, New Delhi, India
- 319 Ingram School of Engineering, Texas State University, San Marcos, TX, USA
- 320 Department of Radiology, Tabriz University of Medical Sciences, Tabriz, Iran
- 321 Department of Neurology, Tehran University of Medical Sciences, Tehran, Iran
- 322 Interdisciplinary Neuroscience Research Program, Tehran University of Medical Sciences, Tehran, Iran
- 323 Iran University of Medical Sciences, Tehran, Iran
- 324 Tehran University of Medical Science, Tehran University of Medical Sciences, Tehran, Iran
- 325 Health Research Institute, Asfendiyarov Kazakh National Medical University, Almaty, Kazakhstan
- 326 Department of Health Policy and Management, Haramaya University, Harar, Ethiopia
- 327 Medical College, Albany Medical College, Albany, NY, USA
- 328 School of Medicine, University of Colima, Colima, Mexico

- 329 Department of Research, Colima State Health Services, Colima, Mexico
330 Department of Medicine, Universitat Jaume I, Castellon, Spain
331 USAID-JSI, Jimma University, Addis Ababa, Ethiopia
332 Department of Neurosurgery, University of Edinburgh, Edinburgh, UK
333 Department of Neurosurgery, National Health Service (NHS) Scotland, Edinburgh, UK
334 Epidemiology Branch, National Institute of Health, Durham, NC, USA
335 Center for Nutrition and Health Research, National Institute of Public Health, Cuernavaca, Mexico
336 Department of Public Health, Wachemo University, Hossana, Ethiopia
337 School of Public Health, Addis Ababa University, Addis Ababa, Ethiopia
338 School of Public Health, Haramaya University, Harar, Ethiopia
339 Graduate Medical Education, Gujarat Adani Institute of Medical Sciences, Bhuj, India
340 Division of Cardiology, Atlanta Veterans Affairs Medical Center, Decatur, GA, USA
341 Department of Community Medicine, Chettinad Hospital and Research Institute, Chennai, India
342 Department of Pharmacy, University of Asia Pacific, Dhaka, Bangladesh
343 Pharmacology Department, Center for Life Sciences Research Bangladesh, Dhaka, Bangladesh
344 Department of Biostatistics and Epidemiology, International Institute for Population Sciences, Mumbai, India
345 The Zena and Michael A. Wiener Cardiovascular Institute, Icahn School of Medicine at Mount Sinai, New York, NY, USA
346 Center of Complexity Sciences, National Autonomous University of Mexico, Mexico City, Mexico
347 Faculty of Veterinary Medicine and Zootechnics, Autonomous University of Sinaloa, Culiacán Rosales, Mexico
348 College of Medicine, University of Florida, Gainesville, FL, USA
349 Department of Epidemiology, University of Florida, Gainesville, USA
350 Department of Public Health and Forensic Sciences, and Medical Education, University of Porto, Porto, Portugal
351 Department of Sciences, TOXRUN – Toxicology Research Unit, University Institute of Health Sciences, Advanced Polytechnic and University Cooperative (CESPU), CRL, Gandra, Portugal
352 Department of Medicine, Pham Ngoc Thach University of Medicine, Ho Chi Minh City, Viet Nam
353 Department of Medicine, Can Tho University of Medicine and Pharmacy, Can Tho, Viet Nam
354 School of Health, Guilan University of Medical Sciences, Rasht, Iran
355 Department of Community Nutrition, Shahid Beheshti University of Medical Sciences, Tehran, Iran
356 Department of Epidemiology, Jazan University, Jazan, Saudi Arabia
357 School of Elderly Care Services and Management, Nanjing University of Chinese Medicine, Nanjing, China
358 Cardio-Thoraco-Vascular Department, Azienda Sanitaria Universitaria Giuliano Isontina, Trieste, Italy
359 Responsabilidade Social, Oswaldo Cruz German Hospital, São Paulo, Brazil
360 Brazilian Centre for Evidence-based Healthcare, Joanna Briggs Institute, São Paulo, Brazil
361 Department of Population Health Sciences, King's College London, London, UK
362 Department of Epidemiology and Biostatistics, University of Health and Allied Sciences, Hohoe, Ghana
363 Department of General Medicine, Bangalore Medical College and Research Institute, Bangalore, India
364 Department of Forensic Medicine and Toxicology, Manipal Academy of Higher Education, Mangalore, India
365 Forensic Medicine and Toxicology Department, Kasturba Medical College Mangalore, Mangalore, India
366 Department of Health Policy, Manipal Academy of Higher Education, Manipal, India
367 School of Public Health, University of Adelaide, Adelaide, SA, Australia
368 Department of Periodontology, Shandong University, Jinan, China
369 School of Medicine, Federal University of Bahia, Salvador, Brazil
370 Department of Internal Medicine, Escola Bahiana de Medicina e Saúde Pública (Bahiana School of Medicine and Public Health), Salvador, Brazil
371 Department of Infection and Tropical Medicine, University of Sheffield, Sheffield, UK
372 Department of Oral Biology and Biomedical Sciences, MAHSA University, Jenjarom, Malaysia
373 Department of Medical Sciences, Bharath Institute of Higher Education and Research (BIHER), Chennai, India
374 Department of Conservative Dentistry with Endodontics, Medical University of Silesia, Katowice, Poland
375 Department of Orthopaedics, Massachusetts General Hospital, Boston, MA, USA
376 Department Pediatric Nursing, University of Indonesia, Depok, Indonesia
377 Neonatal Intensive Care Unit, University of Indonesia Hospital, Depok, Indonesia
378 Advanced Nursing Department, Universitas Airlangga, Surabaya, Indonesia
379 Research Center for Public Health and Nutrition, National Research and Innovation Agency Republic of Indonesia (BRIN), Jakarta, Indonesia
380 Department of Orthodontics, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran
381 Department of Epidemiology and Medical Statistics, University of Ibadan, Ibadan, Nigeria
382 Faculty of Public Health, University of Ibadan, Ibadan, Nigeria

- 383 Department of Biological Sciences, University of Medical Sciences, Ondo, Ondo, Nigeria
- 384 Biomedical Informatics and Medical Statistics Department, Alexandria University, Alexandria, Egypt
- 385 Pediatric Dentistry and Dental Public Health Department, Alexandria University, Alexandria, Egypt
- 386 Institute of Public Health, United Arab Emirates University, Al Ain, United Arab Emirates
- 387 School of Population and Global Health, McGill University, Montreal, QC, Canada
- 388 Division of Cardiology, Massachusetts General Hospital, Boston, MA, USA
- 389 Division of Cardiology, Harvard University, Boston, MA, USA
- 390 Faculty of Medicine, University of Tripoli, Tripoli, Libya
- 391 Department of Basic Medical Sciences, University of Sharjah, Sharjah, United Arab Emirates
- 392 Department of Ophthalmology, University of California Los Angeles, Los Angeles, CA, USA
- 393 Department of Public Health and Tropical Medicine, James Cook University, Townsville, QLD, Australia
- 394 Department of International Cyber Education, Mongolian National University of Medical Sciences, Ulaanbaatar, Mongolia
- 395 Registry of Senior Australians (ROSA), South Australian Health and Medical Research Institute, Adelaide, SA, Australia
- 396 UniSA Clinical and Health Sciences, University of South Australia, Adelaide, SA, Australia
- 397 Department of Obesity, Diabetes and Cardiovascular Risk, National Institute of Public Health, Cuernavaca, Mexico
- 398 Department of Internal Medicine, Yale University, New Haven, CT, USA
- 399 Division of Non-Communicable Diseases, Ministry of Public Health and Population, Dubai, United Arab Emirates
- 400 Research Centre for Healthcare and Community, Coventry University, Coventry, UK
- 401 Department of Biomedical and Biotechnological Sciences, University of Catania, Catania, Italy
- 402 Epidemiology and Biostatistics Unit IRCCS Pascale, IRCCS, Naples, Italy
- 403 Dissemination Division, National Institute of Statistics, Lisbon, Portugal
- 404 Activity Planning and Control Unit, Directorate-General of Health (DGS), Lisbon, Portugal
- 405 Department of Clinical Nutrition and Dietetics, University of Sharjah, Sharjah, United Arab Emirates
- 406 Department of Psychology, Federal University of Sergipe, São Cristóvão, Brazil
- 407 Internal Medicine Department, Cleveland Clinic, Cleveland, OH, USA
- 408 Department of Cardiovascular Medicine, Mayo Clinic, Rochester, MN, USA
- 409 Satcher Health Leadership Institute, Morehouse School of Medicine, Atlanta, GA, USA
- 410 School of Medicine, Emory University, Atlanta, GA, USA
- 411 Department of Environmental Health Engineering, Isfahan University of Medical Sciences, Isfahan, Iran
- 412 Trauma Research Center, Shiraz University of Medical Sciences, Shiraz, Iran
- 413 Department of Medical Immunology, Shiraz University of Medical Sciences, Shiraz, Iran
- 414 National Institute for Stroke and Applied Neurosciences, Auckland University of Technology, Auckland, New Zealand
- 415 Research Center of Neurology, Moscow, Russia
- 416 National Institute of Environmental Health, Chinese Center for Disease Control and Prevention, Beijing, China
- 417 Division of Neurology, University of Ottawa, Ottawa, ON, Canada
- 418 Department of Neurological Surgery, Harvard University, Boston, MA, USA
- 419 USA
- 420 Research Center on Public Health, National Research and Innovation Agency Republic of Indonesia (BRIN), Monza, Italy
- 421 Department of Social Sciences, University of Nicosia, Nicosia, Cyprus
- 422 Psychiatry Department, Kaiser Permanente, Fontana, CA, USA
- 423 School of Health Sciences, A.T. Still University, Mesa, AZ, USA
- 424 Center for Research in Indigenous Health, Maya Health Alliance, Tecpán, Guatemala
- 425 Department of Internal Medicine, University of Michigan, Ann Arbor, MI, USA
- 426 Department of Child Dental Health, Obafemi Awolowo University, Ile-Ife, Nigeria
- 427 Department of Clinical Science, Nigerian Institute of Medical Research, Yaba, Nigeria
- 428 Department of Cell Biology and Biotechnology, K.A. Timiryazev Institute of Plant Physiology, Moscow, Russia
- 429 Faculty of Pharmacy, University of Coimbra, Coimbra, Portugal
- 430 CIBB Centre for Innovative Biomedicine and Biotechnology, University of Coimbra, Coimbra, Portugal
- 431 Department of Biotechnological and Applied Clinical Sciences (DISCAB), Multiple Sclerosis Research Center, L'Aquila, Italy
- 432 Department of Neuroscience, Multiple Sclerosis Research Center, Ravenna, Italy
- 433 School of Public Health, Medical, and Veterinary Sciences, James Cook University, Douglas, QLD, Australia
- 434 Department of Dermatology, Kobe University, Kobe, Japan
- 435 Department of Pathology, Federal University of Espirito Santo, Vitória, Brazil
- 436 Health Services Management Training Centre, Semmelweis University, Budapest, Hungary
- 437 Department of Applied Social Sciences, Sapientia Hungarian University of Transylvania, Târgu-Mureș, Romania

- 438 Community Medicine Department, Bayero University Kano, Kano, Nigeria
- 439 Department of Community Medicine, Aminu Kano Teaching Hospital, Kano, Nigeria
- 440 Department of Medicine, Datta Meghe Institute of Medical Sciences, Wardha, India
- 441 Department of Medicine, Nazarbayev University School of Medicine, Astana, Kazakhstan
- 442 Food Technology Department, Salahaddin University-Erbil, Erbil, Iraq
- 443 Department of Nutrition and Dietetics, Cihan University-Erbil, Erbil, Iraq
- 444 Department of Environmental Health Sciences, Mario Negri Institute for Pharmacological Research, Milan, Italy
- 445 Department of Community Medicine, ESIC Medical College & Hospital, Hyderabad, India
- 446 Institute of Health and Wellbeing, Federation University, Churchill, VIC, Australia
- 447 Department of Pharmacology, Indore Institute of Pharmacy, Indore, India
- 448 Department of Midwifery, Adigrat University, Adigrat, Ethiopia
- 449 Department of Nursing, Mekelle University, Mekelle, Ethiopia
- 450 Division of Human Nutrition and Health, Wageningen University & Research, Wageningen, Netherlands
- 451 Department of Public Health, Jimma University, Jimma, Ethiopia
- 452 Mount Auburn Hospital, Harvard Medical School, Cambridge, MA, USA
- 453 Social Determinants of Health Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 454 Department of Medical Genetics, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 455 Center for Comprehensive Genetic Services, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 456 Tropical Health Department, Alexandria University, Alexandria, Egypt
- 457 Cancer Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 458 Department of Forensic Biology, Government Institute of Forensic Science, Aurangabad, India
- 459 Department of Clinical Research, National Institute For Research In Reproductive and Child Health, Mumbai, India
- 460 Adelaide Medical School, University of Adelaide, Adelaide, SA, Australia
- 461 Division of General Internal Medicine, Howard University, Washington, DC, USA
- 462 Department of Community and Family Medicine, Howard University, Washington, DC, USA
- 463 Third Department of Neurology, Research Center of Neurology, Moscow, Russia
- 464 Department of Applied Cell Sciences, Urmia University of Medical Sciences, Urmia, Iran
- 465 Cellular and Molecular Medicine Institute, Urmia University of Medical Sciences, Urmia, Iran
- 466 Department of Genetics, Sana Institute of Higher Education, Sari, Iran
- 467 Universal Scientific Education and Research Network (USERN), Kermanshah University of Medical Sciences, Kermanshah, Iran
- 468 Oncological Network, Prevention and Research Institute, Institute for Cancer Research, Prevention and Clinical Network, Florence, Italy
- 469 Department of Epidemiology, Universidade de São Paulo (University of São Paulo), São Paulo, Brazil
- 470 Blood and Marrow Transplantation and Cellular Therapy Program, Stanford University, Palo Alto, CA, USA
- 471 Department of Internal Medicine, Sharda University, Noida, India
- 472 Department of Epidemiology and Biostatistics, Anhui Medical University, Hefei, China
- 473 Post Graduate School of Public Health, University of Siena, Siena, Italy
- 474 Department of Clinical Pharmacy, Haramaya University, Harar, Ethiopia
- 475 Harrington Heart and Vascular Institute, Case Western Reserve University, Cleveland, OH, USA
- 476 Division of Cardiovascular Medicine, Ohio State University, Columbus, OH, USA
- 477 Health Directorate, Local Health Authority of Bologna, Bologna, Italy
- 478 Department of Biomedical and Neuromotor Sciences, University of Bologna, Bologna, Italy
- 479 Diagnostic Radiology and Nuclear Medicine, University of Maryland, Baltimore, MD, USA
- 480 Department of Community Medicine, University of Peradeniya, Kandy, Sri Lanka
- 481 Department of Urban Planning and Design, University of Hong Kong, Hong Kong Island, China
- 482 Department of Internal Medicine, Shree Guru Gobind Singh Tricentenary University, Gurugram, India
- 483 Non-communicable Division (NCD), Indian Council of Medical Research, Delhi, India
- 484 Department of Public Health, Torrens University Australia, Melbourne, VIC, Australia
- 485 Department of Biotechnology, Government Institute of Science, Aurangabad, India
- 486 Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati, India
- 487 Department of Medicine, Henry Ford Health System, Detroit, MI, USA
- 488 Department of Internal Medicine, Cleveland Clinic, Cleveland, OH, USA
- 489 Department of Epidemiology and Biostatistics, University of South Carolina, Columbia, SC, USA
- 490 Centre for Noncommunicable Diseases and Nutrition, BRAC University, Dhaka, Bangladesh
- 491 Department of Preventive Cardiology, Eternal Heart Care Centre & Research Institute, Jaipur, India
- 492 Department of Medicine, Mahatma Gandhi University Medical Sciences, Jaipur, India

- 493 Toxicology Department, Shriram Institute for Industrial Research, Delhi, India
- 494 School of Medicine, Deakin University, Geelong, VIC, Australia
- 495 Biorefining and Advanced Materials Research Center, Scotland's Rural College (SRUC), Edinburgh, UK
- 496 Faculty of Medicine Health and Human Sciences, Macquarie University, Sydney, NSW, Australia
- 497 Department of Nursing, Wollega University, Nekemte, Ethiopia
- 498 Department of Epidemiology and Psychosocial Research, Ramón de la Fuente Muñiz National Institute of Psychiatry, Mexico City, Mexico
- 499 Global Virus Network, Middle East Region, Shiraz, Iran
- 500 Department of Health in Emergencies and Disasters, Tehran University of Medical Sciences, Tehran, Iran
- 501 Oral and Maxillofacial Surgery Department, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 502 Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 503 Department of Infectious Disease Epidemiology, Robert Koch Institute, Berlin, Germany
- 504 Department of Public Health, Charité Institute of Public Health, Berlin, Germany
- 505 Department of Family and Community Medicine, Arabian Gulf University, Manama, Bahrain
- 506 Biochemistry Department, Ain Shams University, Cairo, Egypt
- 507 School of Health and Environmental Studies, Hamdan Bin Mohammed Smart University, Dubai, United Arab Emirates
- 508 Department of Nephrology, Capital Medical University, Beijing, China
- 509 Centre for Neuromuscular and Neurological Disorders, University of Western Australia, Perth, WA, Australia
- 510 Perron Institute for Neurological and Translational Science, Perth, WA, Australia
- 511 Department of Biochemistry and Molecular Biology, Bangladesh Agricultural University, Mymensingh, Bangladesh
- 512 Department of Anatomy, Dongguk University, Gyeongju, South Korea
- 513 Research Unit, University of Barcelona, Barcelona, Spain
- 514 Biomedical Research Networking Center for Mental Health Network (CiberSAM), Barcelona, Spain
- 515 Department of Nursing, Taipei Medical University, Taipei, Taiwan
- 516 Department of Pharmaceutical Technology, University of Dhaka, Dhaka, Bangladesh
- 517 Department of Ophthalmology, Iran University of Medical Sciences, Karaj, Iran
- 518 Biology Department, Utica University, Utica, NY, USA
- 519 Digestive Diseases Research Institute, Tehran University of Medical Sciences, Tehran, Iran
- 520 Pharmacy Department, Palamau Institute of Pharmacy, Daltonganj, India
- 521 Department of Public Health, Dalhatu Araf Specialist Hospital, Lafia, Nigeria
- 522 Department of Public Health, Federal University of Lafia, Lafia, Nigeria
- 523 Department of Diagnostic and Interventional Radiology and Neuroradiology, University Hospital Essen, Essen, Germany
- 524 Institute of Artificial Intelligence in Medicine, University Hospital Essen, Essen, Germany
- 525 Skaane University Hospital, Skaane County Council, Malmoe, Sweden
- 526 Institute of Pharmaceutical Sciences, University of Veterinary and Animal Sciences, Lahore, Pakistan
- 527 Department of Pharmacy Administration and Clinical Pharmacy, Xian Jiaotong University, Xian, China
- 528 School of Life Course & Population Sciences, King's College London, London, UK
- 529 Community-Oriented Nursing Midwifery Research Center, Shahrekord University of Medical Sciences, Shahrekord, Iran
- 530 Institute of Psychology, University of Wrocław, Wrocław, Poland
- 531 Meta Research Centre, University of Wrocław, Wrocław, Poland
- 532 Departamento de Salud Oral (Department of Oral Health), Universidad Autónoma de Manizales (Autonomous University of Manizales), Manizales, Colombia
- 533 Department of Statistics and Econometrics, Bucharest University of Economic Studies, Bucharest, Romania
- 534 School of Business, London South Bank University, London, UK
- 535 Urology and Nephrology Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 536 Ophthalmic Research Centre, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 537 Maternal Fetal Care Center, Harvard University, Boston, MA, USA
- 538 Maternal Fetal Medicine Research Center, Shiraz University of Medical Sciences, Shiraz, Iran
- 539 Gastrointestinal Cancer Research Center, Mazandaran University of Medical Sciences, Sari, Iran
- 540 Department of Microbiology, Taiz University, Taiz, Yemen
- 541 School of Medicine, Nankai University, Tianjin, China
- 542 Division for Health Service Promotion, University of Tokyo, Tokyo, Japan
- 543 School of Dentistry, Hanoi Medical University, Hanoi, Viet Nam
- 544 Kasturba Medical College, Mangalore, Manipal Academy of Higher Education, Manipal, India
- 545 Department of Social and Environmental Health Research, Nature Study Society of Bangladesh, Khulna, Bangladesh
- 546 Department of Health Promotion and Community Health Sciences, Texas A&M University, College Station, TX, USA

- 547 James P Grant School of Public Health, BRAC University, Dhaka, Bangladesh
548 Institute of Research and Development, Duy Tan University, Da Nang, Viet Nam
549 Department of Computer Science, University of Human Development, Sulaymaniyah, Iraq
550 Internal Medicine Department, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
551 Department of Legal Medicine and Bioethics, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
552 Clinical Legal Medicine Department, National Institute of Legal Medicine Mina Minovici, Bucharest, Romania
553 Faculty of Medicine of Tunis, University Tunis El Manar, Tunis, Tunisia
554 Jockey Club School of Public Health and Primary Care, The Chinese University of Hong Kong, Hong Kong, China
555 Department of Surgical Sciences, Anaesthesiology and Intensive Care Medicine, Uppsala University, Uppsala, Sweden
556 Department of Medical Cell Biology, Uppsala University, Uppsala, Sweden
557 School of Biotechnology, Tan Tao University, Long An, Viet Nam
558 Department of Occupational Safety and Health, China Medical University, Taichung, Taiwan
559 Department of Occupational Therapy, Asia University, Taichung, Taiwan
560 Department of Biology, University of Zakho, Zakho, Iraq
561 Department of Chemistry, University of Medical Sciences, Ondo, Ondo, Nigeria
562 Department of Community Medicine, University of Ibadan, Ibadan, Nigeria
563 Department of Community Medicine, University College Hospital, Ibadan, Ibadan, Nigeria
564 Faculty of Medicine, University of Belgrade, Belgrade, Serbia
565 Department of Epidemiology, University of Kragujevac, Kragujevac, Serbia
566 Institute of Health Research, University of Health and Allied Sciences, Ho, Ghana
567 Department of Health Research, ICMR National Institute for Research in Tuberculosis, Chennai, India
568 Faculty of Public Health, Universitas Muhammadiyah Aceh, Banda Aceh, Indonesia
569 Institute for Physical Activity and Nutrition, Deakin University, Burwood, VIC, Australia
570 Sydney Medical School, University of Sydney, Sydney, NSW, Australia
571 Clinical Laboratory Department, Tobruk University, Tobruk, Libya
572 Blood Transmitted Diseases, National Center for Disease Control, Tobruk, Libya
573 Department of Clinical Pharmacy & Pharmacy Practice, Asian Institute of Medicine, Science and Technology, Kedah, Malaysia
574 Malaysian Academy of Pharmacy, Puchong, Malaysia
575 Department of General Surgery and Surgical-Medical Specialties, University of Catania, Catania, Italy
576 Department of Health Services Research, University of Tsukuba, Tsukuba, Japan
577 Department of Non-Communicable Disease Epidemiology, London School of Hygiene & Tropical Medicine, London, UK
578 Department of Orthodontics & Dentofacial Orthopedics, Dr. D. Y. Patil University, Pune, India
579 Department of Environmental Health Engineering, Guilan University of Medical Sciences, Rasht, Iran
580 Research and Development Unit, Biomedical Research Networking Center for Mental Health Network (CiberSAM), Sant Boi de Llobregat, Spain
581 Faculty of Medicine, University of Versailles Saint-Quentin-en-Yvelines, Montigny-le-Bretonneux, France
582 Department of Immunology, Kerman University of Medical Sciences, Kerman, Iran
583 Department of Immunology, Rafsanjan University of Medical Sciences, Rafsanjan, Iran
584 Department of Nephrology, San Mateo Medical Center, San Mateo, CA, USA
585 Department of Nephrology, Mills Peninsula Medical Center, Burlingame, CA, USA
586 College of Medicine and Medical Sciences, Arabian Gulf University, Manama, Bahrain
587 Ministry of Health, Ministry of Health, Manama, Bahrain
588 Department of Leukemia, The University of MD Anderson Cancer Center, Houston, Texas, USA
589 Statistics Unit, Riga Stradins University, Riga, Latvia
590 Department of Clinical Pharmacy, University of Science Malaysia, Penang, Malaysia
591 Department of Health and Safety, United Arab Emirates University, Dubai, United Arab Emirates
592 Institute of Advanced Manufacturing Technologies, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia
593 Institute of Comparative Economic Studies, Hosei University, Tokyo, Japan
594 Department of Neurosciences, University of the Philippines Manila, Manila, Philippines
595 Institute for Neurosciences, St. Luke's Medical Center, Bonifacio Global City, Philippines
596 Student Research Committee, Isfahan University of Medical Sciences, Isfahan, Iran
597 Department of Pediatrics, Isfahan University of Medical Sciences, Isfahan, Iran
598 Centre of Studies and Research, Ministry of Health, Muscat, Oman
599 Department of Biochemistry, Government Medical College, Mysuru, India
600 Department of Epidemiology, Florida International University, Miami, FL, USA

- 601 Department of Biomedical Sciences, Jimma University, Jimma, Ethiopia
- 602 Department of Epidemiology and Health Promotion, Yonsei University, Seoul, South Korea
- 603 Department of Cardiovascular Medicine, Saint Vincent Hospital, Worcester, MA, USA
- 604 Department of Community Medicine, Dr. Baba Saheb Ambedkar Medical College & Hospital, Delhi, India
- 605 Department of Community Medicine, Banaras Hindu University, Varanasi, India
- 606 The George Institute for Global Health, New Delhi, India
- 607 Manipal Academy of Higher Education, Manipal, India
- 608 Department of Public Health, La Trobe University, Melbourne, VIC, Australia
- 609 Melbourne School of Population and Global Health, University of Melbourne, Melbourne, VIC, Australia
- 610 Department of Global Health, Peking University, Beijing, China
- 611 Department of Medicine, University of Miami, Atlantis, FL, USA
- 612 Zoonoses Research Center, Islamic Azad University, Karaj, Iran
- 613 Department of Clinical Sciences, Jahrom University of Medical Sciences, Jahrom, Iran
- 614 Hungarian Health Management Association, Budapest, Hungary
- 615 Department of Gastroenterology and Hepatology, Stanford University, Stanford, CA, USA
- 616 Department of Community Medicine, Manipal Academy of Higher Education, Mangalore, India
- 617 Department of Economics, National Open University, Benin City, Nigeria
- 618 Department of Family Medicine and Public Health, University of Opole, Opole, Poland
- 619 Institute of Family Medicine and Public Health, University of Tartu, Tartu, Estonia
- 620 Minimally Invasive Surgery Research Center, Iran University of Medical Sciences, Tehran, Iran
- 621 School of Public Health, University College Cork, Cork, Ireland
- 622 Department of Internal Medicine, Wayne State University, Detroit, MI, USA
- 623 Department of Neurology, University of Washington, Seattle, WA, USA
- 624 Social Determinants of Health Research Center, Gonabad University of Medical Sciences, Gonabad, Iran
- 625 Department of Pharmaceutical Sciences, Faran Shimi Pharmaceutical Company, Tehran, Iran
- 626 Public Health Division, National Research and Innovation Agency Republic of Indonesia (BRIN), Gadchiroli, India
- 627 Department of Endocrinology, Bharti Hospital Karnal, Karnal, India
- 628 University Centre for Research and Development, Chandigarh University, Mohali, India
- 629 Manipal Institute of Management, Manipal Academy of Higher Education, Manipal, India
- 630 Department of Forensic Medicine and Toxicology, All India Institute of Medical Sciences, Jodhpur, India
- 631 Save Sight Institute, University of Sydney, Sydney, NSW, Australia
- 632 Sydney Eye Hospital, South Eastern Sydney Local Health District, Sydney, NSW, Australia
- 633 Department of Cardiovascular Medicine, Creighton University, Omaha, NE, USA
- 634 Department of Public Health, University of Nebraska Medical Center, Omaha, NE, USA
- 635 Faculty of Dentistry, University of Puthisastra, Phnom Penh, Cambodia
- 636 Office of the Executive Director, Cephas Health Research Initiative Inc, Ibadan, Nigeria
- 637 Dr. S S Bhatnagar University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, India
- 638 Department of Preventive & Social Medicine, Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India
- 639 Second Cardiology Department, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 640 Central Department of Public Health, Institute of Medicine, Kathmandu, Nepal
- 641 Department of Physical Therapy and Health Rehabilitation, Majmaah University, Majmaah, Saudi Arabia
- 642 Eye Research Center, Iran University of Medical Sciences, Tehran, Iran
- 643 Health Policy Research Center, Shiraz University of Medical Sciences, Shiraz, Iran
- 644 Department of Reproductive Health, Woldia University, Woldia, Ethiopia
- 645 Department of Anesthesiology and Pain Medicine, University of Washington, Seattle, WA, USA
- 646 Centre for Tropical Diseases and Global Health, Catholic University of Bukavu, Bukavu, Democratic Republic of the Congo
- 647 Department of Global Health, Stellenbosch University, Cape Town, South Africa
- 648 Environmental Technologies Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran
- 649 Department of Neurosurgery, Johns Hopkins University, Baltimore, MD, USA
- 650 Cardiac Primary Prevention Research Center, Tehran University of Medical Sciences, Tehran, Iran
- 651 Department of Cardiac Electrophysiology, Tehran University of Medical Sciences, Tehran, Iran
- 652 Department of HTN and Nephrology, Mayo Clinic, Rochester, MN, USA
- 653 Centre for Adolescent Health, Murdoch Childrens Research Institute, Melbourne, VIC, Australia
- 654 Department of Psychological Medicine, University of Otago, Christchurch, New Zealand

- 655 Department of Human Nutrition, National Research Institute for Agriculture, Food and Environment, Jouy-en-Josas, France
- 656 Sorbonne Paris Nord University, Bobigny, France
- 657 Students' Scientific Research Center (SSRC), Tehran University of Medical Sciences, Tehran, Iran
- 658 Tehran University of Medical Sciences, Tehran, Iran
- 659 Students' Scientific Research Center, Tehran University of Medical Sciences, Tehran, Iran
- 660 Neuro Musculoskeletal Research Center, Iran University of Medical Sciences, Tehran, Iran
- 661 Department of Public Health, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran
- 662 Amity Institute of Forensic Sciences, Amity University, Noida, India
- 663 College of Health Sciences, Abu Dhabi University, Abu Dhabi, United Arab Emirates
- 664 Department of Biostatistics, Mazandaran University of Medical Sciences, Mazandaran, Iran
- 665 Department of Biophysics and Biochemistry, Baku State University, Baku, Azerbaijan
- 666 Azerbaijan State University of Economics (UNEC), Baku, Azerbaijan
- 667 School of Health and Rehabilitation Sciences, The University of Queensland, Brisbane, QLD, Australia
- 668 Department of Epidemiology and Biostatistics, Health Services Academy, Islamabad, Pakistan
- 669 Department of Population Studies, International Institute for Population Sciences, Mumbai, India
- 670 Population Science Department, Jatiya Kabi Kazi Nazrul Islam University, Mymensingh, Bangladesh
- 671 Department of Public Health, University of Sydney, Sydney, NSW, Australia
- 672 Department of Internal Medicine, John H. Stroger, Jr. Hospital of Cook County, Chicago, IL, USA
- 673 Department of Internal Medicine, Dow University of Health Sciences, Karachi, Pakistan
- 674 Department of Clinical Pharmacy, Jouf University, Sakaka, Saudi Arabia
- 675 Department of Critical Care Medicine, St. Luke's Aurora Medical Center, Milwaukee, WI, USA
- 676 Department of Epidemiology, Non-Communicable Diseases Research Center (NCDRC), Tehran, Iran
- 677 College of Health, Wellbeing and Life Sciences, Sheffield Hallam University, Sheffield, UK
- 678 College of Arts and Sciences, Ohio University, Zanesville, OH, USA
- 679 School of Medicine, Kurdistan University of Medical Sciences, Sanandaj, Iran
- 680 Department of Neurosurgery, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 681 Department of Public Health, Jordan University of Science and Technology, Irbid, Jordan
- 682 Department of Molecular Biology and Genetics, Liaquat University Of Medical and Health Sciences, Jamshoro, Pakistan
- 683 Department of Cognition and Neuroscience, University of Texas, Dallas, TX, USA
- 684 Department of Pharmacology, University of Gondar, Gondar, Ethiopia
- 685 Department of Nutrition, Simmons University, Boston, MA, USA
- 686 School of Health Sciences, Kristiania University College, Oslo, Norway
- 687 Department of International Health and Sustainable Development, Tulane University, New Orleans, LA, USA
- 688 Department of Nursing and Health Promotion, Oslo Metropolitan University, Oslo, Norway
- 689 Children's Medical Center, Tehran University of Medical Sciences, Tehran, Iran
- 690 Copernicus Institute of Sustainable Development, Utrecht University, Utrecht, Netherlands
- 691 Department of Biochemistry, All India Institute of Medical Sciences, Bhopal, India
- 692 Department of Internal and Pulmonary Medicine, Sheri Kashmir Institute of Medical Sciences, Srinagar, India
- 693 San Juan de Dios Sanitary Park, Barcelona, Spain
- 694 Department of Anthropology, Panjab University, Chandigarh, India
- 695 Department of Anesthesiology, Duke University, Durham, NC, USA
- 696 Department of Community Medicine, Employees' State Insurance Model Hospital, Chennai, India
- 697 Department of Mathematics, University of Rajshahi, Rajshahi, Bangladesh
- 698 Department of Biochemistry, University of Hail, Hail, Saudi Arabia
- 699 Department of Health Research, Kazakh National Medical University, Almaty, Kazakhstan
- 700 Atchabarov Scientific Research Institute of Fundamental and Applied Medicine, Kazakh National Medical University, Almaty, Kazakhstan
- 701 Department of Medicine, Queensland Health, Brisbane, QLD, Australia
- 702 Department of Cardiothoracic Surgery, UN Mehta Institute of Cardiology and Research Center, Ahmedabad, India
- 703 Department of Cardiothoracic Surgery, Medanta Hospital, Gurugram, India
- 704 Department of Internal Medicine, Cabrini Institute, Akron, OH, USA
- 705 Amity Institute of Biotechnology, Amity University Rajasthan, Jaipur, India
- 706 Department of Chemistry, Indian Institute of Technology Madras, Chennai, India
- 707 Biodesign Center for Environmental Health Engineering, Arizona State University, Tempe, AZ, USA
- 708 Department of Clinical and Health Sciences, University of South Australia, Adelaide, SA, Australia
- 709 Department of Public Health, Malaria Consortium, Abuja, Nigeria

- 710 Public Health Pharmacy, West African Postgraduate College of Pharmacists, Lagos, Nigeria
- 711 Department of Health Services Research and Management, City University of London, London, UK
- 712 Faculty of Public Health, University of Indonesia, Depok, Indonesia
- 713 Department of Health Policy, London School of Economics and Political Science, London, UK
- 714 Department of Clinical Sciences and Community Health, University of Milan, Milan, Italy
- 715 National Institute for Health Research (NIHR) Oxford Biomedical Research Centre, Oxford, UK
- 716 Department of Nursing Science, Bayero University Kano, Kano, Nigeria
- 717 Department of Global Public Health, Karolinska Institute, Stockholm, Sweden
- 718 Institute for Social and Health Sciences, University of South Africa, Pretoria, South Africa
- 719 Department of Health Policy and Strategy, Foundation for People-centric Health Systems, New Delhi, India
- 720 SD Gupta School of Public Health, Indian Institute of Health Management Research University, Jaipur, India
- 721 Dr. B. C. Roy Multi Specialty Medical Research Centre, Indian Institute of Technology Kharagpur, Kharagpur, India
- 722 School of Digital Science, Universiti Brunei Darussalam, Gadong, Brunei
- 723 Institute of Applied Data Analytics, Universiti Brunei Darussalam, Gadong, Brunei
- 724 Department of Public Health, University of Helsinki, Helsinki, Finland
- 725 Division of Cancer Epidemiology and Genetics, National Cancer Institute, Rockville, MD, USA
- 726 Unit of Genetics and Public Health, Institute of Medical Sciences, Las Tablas, Panama
- 727 Ministry of Health, Herrera, Panama
- 728 Department of Health Sciences (DISSAL), University of Genoa, Genoa, Italy
- 729 Endocrinology and Metabolism Research Institute, Tehran University of Medical Sciences, Tehran, Iran
- 730 Department of Medical Sciences, Uppsala University, Uppsala, Sweden
- 731 Department of Clinical Chemistry and Pharmacology, Uppsala University Hospital, Uppsala, Sweden
- 732 Department of Otorhinolaryngology, Father Muller Medical College, Mangalore, India
- 733 Centre for Family Welfare, University of Indonesia, Depok, Indonesia
- 734 Department of Global Health and Health Security, Taipei Medical University, Taipei, Taiwan
- 735 Department of Anesthesiology, Iran University of Medical Sciences, Tehran, Iran
- 736 Department of Surgery, National University of Singapore, Singapore, Singapore
- 737 International Society Doctors for the Environment, Arezzo, Italy
- 738 Department of Psychology, National Yang-Ming University, Ho Chi Minh city, Viet Nam
- 739 Health Economics Division, Monash University, Burwood, VIC, Australia
- 740 Faculty of Medicine, University of Medicine and Pharmacy at Ho Chi Minh City, Ho Chi Minh City, Viet Nam
- 741 Cardiovascular Research Department, Methodist Hospital, Merrillville, IN, USA
- 742 University of Medicine and Pharmacy at Ho Chi Minh City, Ho Chi Minh City, Viet Nam
- 743 Independent Consultant, Ho Chi Minh City, Viet Nam
- 744 Internal Medicine Department, University of Medicine and Pharmacy at Ho Chi Minh City, Ho Chi Minh City, Viet Nam
- 745 Department of Clinical and Experimental Medicine, University of Catania, Catania, Italy
- 746 Department of Medical Science, Ajou University School of Medicine, Suwon, South Korea
- 747 Department of Health Sciences, University of Leicester, Leicester, UK
- 748 Department of Precision Medicine, Sungkyunkwan University, Suwon-si, South Korea
- 749 Department of Internal Medicine, University of Texas, Galveston, TX, USA
- 750 Department of Preventive Medicine, Korea University, Seoul, South Korea
- 751 School of Social Sciences, Södertörn University, Huddinge, Sweden
- 752 Department of Epidemiology and Biostatistics, National Institute for Health Development, Tallinn, Estonia
- 753 UO Neurologia, Salute Pubblica e Disabilità (Neurology, Public Health and Disability Unit), Fondazione IRCCS Istituto Neurologico Carlo Besta, Milan, Italy
- 754 School of Public Health, Dilla University, Dilla, Ethiopia
- 755 Center for Dentistry and Oral Hygiene, University of Groningen, Groningen, Netherlands
- 756 Stomatological Hospital, Southern Medical University, Guangzhou, China
- 757 Department of Health Promotion and Health Education, National Taiwan Normal University, Taipei, Taiwan
- 758 Department of Psychiatry, Yale University, New Haven, CT, USA
- 759 Department of Health Management Center, Fudan University, Shanghai, China
- 760 National Clinical Research Center for Cardiovascular Diseases, Chinese Academy of Medical Sciences, Shenzhen, China
- 761 Department of Medicine, University of Malaya, Kuala Lumpur, Malaysia
- 762 Department of Medicine and Therapeutics, The Chinese University of Hong Kong, Shatin, China
- 763 College of Public Health, China Medical University, Taichung, Taiwan
- 764 Asbestos Diseases Research Institute, Concord, NSW, Australia
- 765 School of Public Health, University of Haifa, Haifa, Israel

- 766 School of Life Sciences, University of Technology Sydney, Ultimo, NSW, Australia
- 767 Centre for Inflammation, Centenary Institute, Camperdown, NSW, Australia
- 768 Department of Radiology and Data Science, Harvard University, Boston, MA, USA
- 769 Department of Radiology, Massachusetts General Hospital, Boston, MA, USA
- 770 Lerner Research Institute, Cleveland Clinic, Cleveland, OH, USA
- 771 Department of Quantitative Health Science, Case Western Reserve University, Cleveland, OH, USA
- 772 Department of Molecular Epidemiology, German Institute of Human Nutrition Potsdam-Rehbrücke, Potsdam, Germany
- 773 German Center for Diabetes Research (DZD), München-Neuherberg, Germany
- 774 Department of Epidemiology and Evidence-Based Medicine, I.M. Sechenov First Moscow State Medical University, Moscow, Russia
- 775 National Institutes of Health, University of the Philippines Manila, Manila, Philippines
- 776 Department of Health Economics, Syreon Research Romania, Targu Mures, Romania
- 777 Department of Doctoral Studies, George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Targu Mures, Târgu-Mureș, Romania
- 778 Institute of Nutritional Sciences, Friedrich Schiller University Jena, Jena, Germany
- 779 Competence Cluster for Nutrition and Cardiovascular Health (nutriCARD), Jena, Germany
- 780 Department of Medicine, University of Sao Paulo, São Paulo, Brazil
- 781 School of Medicine, Federal University of Juiz de Fora, Juiz de Fora, Brazil
- 782 Centre for Public Health and Wellbeing, University of the West of England, Bristol, UK
- 783 Department of Biostatistics and Epidemiology, Yazd University of Medical Sciences, Yazd, Iran
- 784 Institute for Physical Activity and Nutrition, Deakin University, Melbourne, VIC, Australia
- 785 Department of Human Nutrition Research, Autonomous University of Sinaloa, Culiacán, Mexico
- 786 Faculty of Medicine, University of Limoges, Limoges, France
- 787 Department of Forensic Medicine & Toxicology, Mysore Medical College & Research Institute, Mysooru, India
- 788 Department of Health and Family Welfare, Government of Karnataka, Bangalore, India
- 789 Department of Clinical and Hospital Pharmacy, Taibah University, Al-Madinah Al-Munawwarrah, Saudi Arabia
- 790 Student Research Committee, Iran University of Medical Sciences, Tehran, Iran
- 791 Center for Health & Nature, Houston Methodist Hospital, Houston, Texas, USA
- 792 Department of Cardiology, October 6 University, Cairo, Egypt
- 793 Department of Pediatric Cardiology, Tehran University of Medical Sciences, Tehran, Iran
- 794 Non-communicable Disease Research Center, Shiraz University of Medical Sciences, Shiraz, Iran
- 795 Department of Internal Medicine, Dayanand Medical College and Hospital, Ludhiana, India
- 796 Electrical Engineering Department, Prince Sattam bin Abdulaziz University, Al Kharj, Saudi Arabia
- 797 Department of Pharmacy, The University of Lahore, Lahore, Pakistan
- 798 Department of Maternal and Child Nursing and Public Health, Federal University of Minas Gerais, Belo Horizonte, Brazil
- 799 Department of Medical Laboratory Sciences, Arba Minch University, Arba Minch, Ethiopia
- 800 Shiraz University of Medical Sciences, Shiraz, Iran
- 801 Substance Abuse Prevention Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran
- 802 Department of Epidemiology and Biostatistics, Tehran University of Medical Sciences, Tehran, Iran
- 803 Biomedical Engineering Research Center (CREB), Universitat Politècnica de Catalunya, Barcelona, Spain
- 804 Department of Biomedical Engineering, University of Isfahan, Isfahan, Iran
- 805 Department of Food, Environmental and Nutritional Sciences (DEFENS), University of Milan, Milano, Italy
- 806 Department of Food, Environmental and Nutritional Sciences (DEFENS), University of Milan, Milan, Italy
- 807 Faculty of Public Health, Universitas Airlangga (Airlangga University), Surabaya, Indonesia
- 808 Indonesian Public Health Association, Surabaya, Indonesia
- 809 Department of Pharmacy, Bahauddin Zakariya university, Multan, Pakistan
- 810 Department of Public Health, Management and Science University, Shah Alam, Malaysia
- 811 Jeffrey Cheah School of Medicine and Health Sciences, Monash University, Subang Jaya, Malaysia
- 812 Department of Pharmacology, Shahroud University of Medical Sciences, Shahroud, Iran
- 813 Department of Dermatology, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
- 814 Board Director, Association of Resident Physicians, Bucharest, Romania
- 815 Department of Anatomy, Genetics and Biomedical Informatics, University of Colombo, Colombo, Sri Lanka
- 816 Australian Regenerative Medicine Institute, Monash University, Clayton, VIC, Australia
- 817 Department of Public Health and Community Medicine, Central University of Kerala, Kasaragod, India
- 818 Health Policy Research, Public Health Foundation of India, Gurugram, India
- 819 Institute of Population Health Sciences, University of Liverpool, Liverpool, UK
- 820 Department of Medicine, University of Louisville, Louisville, KY, USA

- 821 Epidemiology Department, Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand
- 822 Nuffield Department of Medicine, University of Oxford, Oxford, UK
- 823 Department GF Ingrassia, University of Catania, Catania, Italy
- 824 Department of Twin Research and Genetic Epidemiology, King's College London, London, UK
- 825 Queensland Brain Institute, The University of Queensland, Brisbane, QLD, Australia
- 826 National Centre for Register-based Research, Aarhus University, Aarhus, Denmark
- 827 Australian Centre for Health Services Innovation, Queensland University of Technology, Kelvin Grove, QLD, Australia
- 828 Digital Health and Informatics Directorate, Queensland Health, Brisbane, QLD, Australia
- 829 Department of Healthcare, University of Vlora, Vlora City, Albania
- 830 Clinic of Social and Family Medicine, University of Crete, Heraklion, Greece
- 831 Department of Global Health, University of the Ryukyus, Nishihara, Japan
- 832 Department of Preventive Oncology, All India Institute of Medical Sciences, New Delhi, India
- 833 Cardiac Rehabilitation Research Center, Isfahan University of Medical Sciences, Isfahan, Iran
- 834 Department of Medical Oncology and Hematology, Kantonsspital St. Gallen, St. Gallen, Switzerland
- 835 Peru Country Office, United Nations Population Fund (UNFPA), Lima, Peru
- 836 Forensic Medicine Division, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia
- 837 Department of Public Health, Debre Markos University, Debre Markos, Ethiopia
- 838 Department of Physiology, King Saud University, Riyadh, Saudi Arabia
- 839 Department of Medical Laboratory Sciences, Haramaya University, Harar, Ethiopia
- 840 Neurology Unit, Helsinki University Hospital, Helsinki, Finland
- 841 School of Health Sciences, University of Melbourne, Melbourne, VIC, Australia
- 842 Breast Surgery Unit, Helsinki University Hospital, Helsinki, Finland
- 843 University of Helsinki, Helsinki, Finland
- 844 University Centre Varazdin, University North, Varazdin, Croatia
- 845 Department of Pharmacology, University of Kelaniya, Ragama, Sri Lanka
- 846 Department of Clinical Medicine, Colombo North Teaching Hospital, Ragama, Sri Lanka
- 847 Department of Paediatrics, University of Kelaniya, Ragama, Sri Lanka
- 848 University Paediatrics Unit, Colombo North Teaching Hospital, Ragama, Sri Lanka
- 849 Department of Preventive Medicine, Northwestern University, Chicago, IL, USA
- 850 South African Centre for Epidemiological Modelling and Analysis (SACEMA), Stellenbosch University, Cape Town, South Africa
- 851 Department of Health Promotion, Education, and Behavior, University of South Carolina, Columbia, SC, USA
- 852 School of Public Health and Community Medicine, University of Gothenburg, Gothenburg, Sweden
- 853 Department of Propedeutics of Internal Diseases & Arterial Hypertension, Pomeranian Medical University, Szczecin, Poland
- 854 Department of Epidemiology, Maria Sklodowska-Curie National Research Institute of Oncology, Warsaw, Poland
- 855 National Cancer Registry, Maria Sklodowska-Curie National Research Institute of Oncology, Warsaw, Poland
- 856 Pacific Institute for Research & Evaluation, Calverton, MD, USA
- 857 International Ph.D. Program in Medicine, Taipei Medical University, Taipei, Taiwan
- 858 Research Center for Artificial Intelligence in Medicine, Taipei Medical University, Taipei, Taiwan
- 859 Department of Global Health, University of Washington, Seattle, WA, USA
- 860 Department of Clinical Research, Kilimanjaro Clinical Research Centre (KCRI), Moshi, Tanzania
- 861 Department of General Surgery, Isfahan University of Medical Sciences, Isfahan, Iran
- 862 Sports and Exercise Medicine Research Center, Tehran University of Medical Sciences, Tehran, Iran
- 863 Internal Medicine Programme, Kyrgyz State Medical Academy, Bishkek, Kyrgyzstan
- 864 Department of Atherosclerosis and Coronary Heart Disease, National Center of Cardiology and Internal Disease, Bishkek, Kyrgyzstan
- 865 Department of Hospital Administration, All India Institute of Medical Sciences, Bathinda, India
- 866 Social Determinants of Health Center, Urmia University of Medical Sciences, Urmia, Iran
- 867 Bloomberg school of public health, Johns Hopkins University, Baltimore, MD, USA
- 868 College of Applied and Natural Science, University of Hargeisa, Hargeisa, Somalia
- 869 Internal Medicine, Brown University, Providence, RI, USA
- 870 Molecular Biology Unit, Sirius Training and Research Centre, Khartoum, Sudan
- 871 Bio-Statistical and Molecular Biology Department, Sirius Training and Research Centre, Khartoum, Sudan
- 872 Department of Public Health, Dire Dawa University, Dire Dawa, Ethiopia
- 873 Department of Clinical Pharmacy and Pharmacy Practice, Ahmadu Bello University, Zaria, Nigeria
- 874 School of Pharmaceutical Sciences, University of Science Malaysia, Penang, Malaysia

- 875 Department of Pharmaceutical Sciences, Notre Dame of Maryland University, Baltimore, MD, USA
876 Department of Pharmacy, Mizan-Tepi University, Mizan, Ethiopia
877 Health Systems and Policy Research Unit, Ahmadu Bello University, Zaria, Nigeria
878 Department of Health Care Management, Technical University of Berlin, Berlin, Germany
879 Oncology Department, Appalachian Regional Healthcare, Hazard, KY, USA
880 Department of Internal Medicine, University of Kentucky, Lexington, KY, USA
881 Department of Biostatistics, Shiraz University of Medical Sciences, Shiraz, Iran
882 Clinical Epidemiology and Public Health Research Unit, Burlo Garofolo Institute for Maternal and Child Health, Trieste, Italy
883 School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran
884 Medicine, Birjand University of Medical Sciences, Birjand, Iran
885 Department of Epidemiology and Biostatistics, Kurdistan University of Medical Sciences, Sanandaj, Iran
886 Computer, Electrical, and Mathematical Sciences and Engineering Division, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
887 International Laboratory for Air Quality and Health, Queensland University of Technology, Brisbane, QLD, Australia
888 Clinical Research Development Unit, Mashhad University of Medical Sciences, Mashhad, Iran
889 Division of Plastic and Reconstructive Surgery, University of Washington, Seattle, WA, USA
890 Department of Cardiology and Cardiac Surgery, University of Warmia and Mazury, Olsztyn, Poland
891 Stanford Cardiovascular Institute, Stanford University, Palo Alto, CA, USA
892 Mechanical and Industrial Engineering, University of Toronto, Toronto, ON, Canada
893 Non-communicable Disease Research Center, Tehran University of Medical Sciences, Tehran, Iran
894 Department of Community Medicine, Tabriz University of Medical Sciences, Tabriz, Iran
895 Epidemiology Department, Aging Research Institute, Tabriz, Iran
896 Friedman School of Nutrition Science and Policy, Tufts University, Boston, MA, USA
897 Department of Radiology, University of Tripoli, Tripoli, Libya
898 Federal Institute for Population Research, Wiesbaden, Germany
899 Center for Population and Health, Wiesbaden, Germany
900 Knowledge Management, Prahlad Omkarwati Foundation (POF), Mumbai, India
901 Independent Consultant, New Delhi, India
902 Amity Institute of Pharmacy, Amity University, Noida, India
903 Clinical Epidemiology Research Unit, Mexican Institute of Social Security, Villa de Alvarez, Mexico
904 Postgraduate in Medical Sciences, Universidad de Colima, Colima, Mexico
905 Department of Pediatrics, Shaqra University, Shaqra, Saudi Arabia
906 Department of Pediatrics & Pediatric Pulmonology, Institute of Mother & Child Care, Multan, Pakistan
907 Department of Research Methodology, Orthopaedic Research Group, Coimbatore, India
908 Department of Biotechnology, Karpagam Academy of Higher Education, Coimbatore, India
909 Internal Medicine, University of Botswana, Gaborone, Botswana
910 s, Seoul National University, Seongnam-si, South Korea
911 Research and Analytics Department, Initiative for Financing Health and Human Development, Chennai, India
912 Department of Research and Analytics, Bioinsilico Technologies, Chennai, India
913 Department of Nephrology, Manipal Academy of Higher Education, Manipal, India
914 College of Medicine and Public Health, Flinders University, Adelaide, SA, Australia
915 Department of Engineering, Western Sydney University, Sydney, NSW, Australia
916 Comprehensive Cancer Center, University of Alabama at Birmingham, Birmingham, AL, USA
917 Department of Community Medicine, MOSC Medical College, Kolenchery, India
918 Tehran Heart Center, Tehran University of Medical Sciences, Tehran, Iran
919 Research Center for Advanced Technologies in Cardiovascular Medicine, Tehran University of Medical Sciences, Tehran, Iran
920 Department of Physiotherapy, Tehran University of Medical Sciences, Tehran, Iran
921 Research Center for War-affected People, Tehran University of Medical Sciences, Tehran, Iran
922 Suraj Eye Institute, Nagpur, India
923 Mysore Medical College and Research Institute, Government Medical College, Mysore, India
924 Department of Clinical Medicine, Federal University of Minas Gerais, Belo Horizonte, Brazil
925 Clinical Hospital, Federal University of Minas Gerais, Belo Horizonte, Brazil
926 National Dental Research Institute Singapore, Duke-NUS Medical School, Singapore, Singapore
927 Department of Pharmacology and Toxicology, Islamic Azad University, Tehran, Iran
928 Department of Dental Public Health, King Abdulaziz University, Jeddah, Saudi Arabia

- 929 Department of Health Policy and Oral Epidemiology, Harvard University, Boston, MA, USA
- 930 College of Medicine and Health Sciences, United Arab Emirates University, Al Ain, United Arab Emirates
- 931 Department of Circulation and Medical Imaging, Norwegian University of Science and Technology, Trondheim, Norway
- 932 Department of Biotechnology, University of Central Punjab, Lahore, Pakistan
- 933 Department of Medical Laboratory Sciences, Adigrat University, Adigrat, Ethiopia
- 934 Department of General Surgery, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
- 935 Department of General Surgery, Emergency Hospital of Bucharest, Bucharest, Romania
- 936 Department of Anatomy and Embryology, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania
- 937 Department of Cardiology, Cardio-Aid, Bucharest, Romania
- 938 Research Center, Mashhad University of Medical Sciences, Mashhad, Iran
- 939 Faculty of Medicine, Euromed University of Fes, Fez, Morocco
- 940 Faculty of Medicine, University Sidi Mohammed Ben Abdellah, Fez, Morocco
- 941 Department of Clinical Biochemistry, Kerman University of Medical Sciences, Kerman, Iran
- 942 Department of Community Medicine, Kathmandu University, Palpa, Nepal
- 943 Department of Epidemiology and Global Health, Umeå University, Umeå, Sweden
- 944 Department of Medical Engineering, University of South Florida, Tampa, FL, USA
- 945 Department of Surgery, Danang Family Hospital, Danang, Viet Nam
- 946 Department of General Medicine, University of Medicine and Pharmacy at Ho Chi Minh City, Ho Chi Minh City, Viet Nam
- 947 International Islamic University Islamabad, Islamabad, Pakistan
- 948 School of Medicine, Harvard University, Cambridge, MA, USA
- 949 School of Engineering, Massachusetts Institute of Technology, Cambridge, MA, USA
- 950 Internal Medicine, Ziauddin University, Karachi, Pakistan
- 951 Department of Applied Microbiology, Taiz University, Taiz, Yemen
- 952 Faculty of Applied Sciences and Technology, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia
- 953 Department of Health Policy and Management, Keio University, Tokyo, Japan
- 954 Department of Global Health Policy, University of Tokyo, Tokyo, Japan
- 955 Microbiology and Molecular Genetics, The Women University Multan, Multan, Pakistan
- 956 Department of Clinical Sciences, Lund University, Lund, Sweden
- 957 Centre for Heart Rhythm Disorders, University of Adelaide, Adelaide, SA, Australia
- 958 Department of Paediatrics, Nnamdi Azikiwe University, Awka, Nigeria
- 959 Division of Cardiology, University of Cape Town, Cape Town, South Africa
- 960 The Cardiac Clinic, Groote Schuur Hospital, Cape Town, South Africa
- 961 Public Health Department, Banten School of Health Science, South Tangerang, Indonesia
- 962 Ministry of Research, Technology and Higher Education, Higher Education Service Institutions (LL-DIKTI) Region IV, Bandung, Indonesia
- 963 Center of Excellence in Reproductive Health Innovation (CERHI), University of Benin, Benin City, Nigeria
- 964 Department of Physiology, University of Benin, Edo, Nigeria
- 965 Department of Physiology, Benson Idahosa University, Benin City, Nigeria
- 966 James Cook University, Townsville, QLD, Australia
- 967 Department of Medicine, National University of Ireland Galway, Galway, Ireland
- 968 Department of Obstetrics and Gynecology, University of Ibadan, Ibadan, Nigeria
- 969 Department of Medicine, University College Hospital, Ibadan, Ibadan, Nigeria
- 970 Institute of Cardiovascular Science, University College London, London, UK
- 971 School of Health and Related Research, University of Sheffield, Sheffield, UK
- 972 Centre for Social Research in Health, University of New South Wales, Sydney, NSW, Australia
- 973 Independent Consultant, Sydney, NSW, Australia
- 974 Department of Food and Nutrition, Seoul National University, Seoul, South Korea
- 975 College of Medicine, University of Ibadan, Ibadan, Nigeria
- 976 Department of Food Science and Postharvest Technology, Gulu University, Gulu, Uganda
- 977 School of Pharmacy, University of the Western Cape, Cape Town, South Africa
- 978 Department of Medical Physiology, Babcock University, Ilisan-Remo, Nigeria
- 979 Department of Medical Physiology, University of Lagos, Lagos, Nigeria
- 980 Department of Psychiatry and Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada
- 981 Department of Psychiatry, University of Lagos, Lagos, Nigeria
- 982 Department of Microbiology, Immunology and Parasitology, Addis Ababa University, Addis Ababa, Ethiopia
- 983 Medical Laboratory Sciences, Ambo University, Ambo, Ethiopia
- 984 Department of Nursing Science, Bowen University, Iwo, Nigeria

- 985 Cardiology Department, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil
- 986 Department of Community Medicine, Ahmadu Bello University, Zaria, Nigeria
- 987 Slum and Rural Health Initiative Research Academy, Slum and Rural Health Initiative, Ibadan, Nigeria
- 988 Department of Microbiology, University of Medical Sciences, Ondo, Ondo City, Nigeria
- 989 Department of Anatomy, University of Medical Sciences, Ondo, Ondo City, Nigeria
- 990 Department of Anatomy, Olabisi Onabanjo University, Sagamu, Nigeria
- 991 Surgery Department, Sulaimani University, Sulaimani, Iraq
- 992 ENT Department, Tor Vergata University of Rome, Rome, Italy
- 993 College of Animal Science and Technology, Henan University of Science and Technology, Henan, China
- 994 Non-communicable Disease Prevention Unit, Ministry of Health, Bandar Seri Begawan, Brunei
- 995 Early Detection & Cancer Prevention Services, Pantai Jerudong Specialist Centre, Bandar Seri Begawan, Brunei
- 996 Department of Biomedical Sciences, Mercer University School of Medicine, Macon, GA, USA
- 997 Department of Pharmacotherapy and Pharmaceutical Care, Medical University of Warsaw, Warsaw, Poland
- 998 Health Systems Research Center, National Institute of Public Health, Cuernavaca, Mexico
- 999 Department of Medicine, Autonomous University of Madrid, Madrid, Spain
- 1000 Department of Nephrology and Hypertension, The Institute for Health Research Foundation Jiménez Díaz University Hospital, Madrid, Spain
- 1001 One Health Global Research Group, Universidad de las Americas, Quito, Ecuador
- 1002 Department of Biology, Khalifa University, Abu Dhabi, United Arab Emirates
- 1003 School of Medicine, Western Sydney University, Campbelltown, NSW, Australia
- 1004 Department of Optometry and Vision Science, University of KwaZulu-Natal, KwaZulu-Natal, South Africa
- 1005 Laboratory of Public Health Indicators Analysis and Health Digitalization, Moscow Institute of Physics and Technology, Dolgoprudny, Russia
- 1006 Department of Project Management, National Research University Higher School of Economics, Moscow, Russia
- 1007 Department of Medicine, University of Ibadan, Ibadan, Nigeria
- 1008 Department of Respiratory Medicine, Jagadguru Sri Shivarathreeswara University, Mysore, India
- 1009 National School of Public Health, Institute of Health Carlos III, Madrid, Spain
- 1010 Department of Forensic Medicine and Toxicology, Kasturba Medical College, Mangalore, Mangalore, India
- 1011 Systems and Information Engineering, University of Virginia, Charlottesville, VA, USA
- 1012 Hungarian Health Management Association, Hungarian Health Management Association, Budapest, Hungary
- 1013 Department of Public Health, University of Naples Federico II, Naples, Italy
- 1014 Department of Primary Care and Public Health, Imperial College London, London, UK
- 1015 Epidemiology and Biostatistics, Anhui Medical University, Hefei, China
- 1016 Saveetha Medical College and Hospitals, Saveetha University, Chennai, India
- 1017 Division of Research and Development, Lovely Professional University, Phagwara, India
- 1018 Department of Science and Mathematics, Deree-The American College of Greece, Athens, Greece
- 1019 Department of Biophysics, University of Athens, Athens, Greece
- 1020 Yonsei University College of Medicine, Seodaemun-gu, South Korea
- 1021 Department of Medical Sciences, University of Torino, Torino, Italy
- 1022 Department of Imaging, AOU Città della Salute e della Scienza di Torino, Torino, Italy
- 1023 Global Health Governance Programme, University of Edinburgh, Edinburgh, UK
- 1024 School of Dentistry, University of Leeds, Leeds, UK
- 1025 College of Dental Medicine, Roseman University of Health Sciences, South Jordan, UT, USA
- 1026 Centre of Molecular Medicine and Diagnostics (COMMAND), Saveetha University, Chennai, India
- 1027 Second Department of Internal Medicine, European Interbalkan Medical Center, Thessaloniki, Greece
- 1028 Second Department of Cardiology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 1029 Department of Internal Medicine, Advent Health, Palm Coast, FL, USA
- 1030 Hospital Medicine, Sound Physicians, Palm Coast, FL, USA
- 1031 Department of Genetics, Yale University, New Haven, CT, USA
- 1032 School of Public Health and Community Medicine, University of New South Wales, Sydney, NSW, Australia
- 1033 College of Public Health, Medical, and Veterinary Sciences, James Cook University, Townsville, QLD, Australia
- 1034 Clinical Research Department, IRCCS Fondazione Don Carlo Gnocchi, Milan, Italy
- 1035 Department of Infection Control, Taihe Hospital, Shiyan, China
- 1036 The First Clinical College, Hubei University of Medicine, Shiyan, China
- 1037 Center for Research and Innovation, Ateneo De Manila University, Pasig City, Philippines
- 1038 Institute of Collective Health, Federal University of Bahia, Salvador, Brazil
- 1039 Department of Applied Nursing, Federal University of Minas Gerais, Belo Horizonte, Brazil

- 1040 Department of Psychiatry, University of São Paulo, São Paulo, Brazil
- 1041 International Institute for Educational Planning (IIEP), Albert Einstein Hospital, São Paulo, Brazil
- 1042 Department of Development Studies, International Institute for Population Sciences, Mumbai, India
- 1043 Mario Negri Institute for Pharmacological Research, Bergamo, Italy
- 1044 Facultad de Medicina, Universidad Diego Portales (Faculty of Medicine, Diego Portales University), Santiago, Chile
- 1045 School of Cardiovascular and Metabolic Health, University of Glasgow, Glasgow, UK
- 1046 Medical School, Pham Ngoc Thach University of Medicine, Ho Chi Minh City, Viet Nam
- 1047 School of Pharmacy, University of Nizwa, Nizwa, Oman
- 1048 Department of Cardiology, University of Bern, Bern, Switzerland
- 1049 Research School of Chemistry and Applied Biomedical Sciences, Tomsk Polytechnic University, Tomsk, Russia
- 1050 Mental Health Research Institute, Tomsk National Research Medical Center of the Russian Academy of Sciences, Tomsk, Russia
- 1051 Department of Medicine, Nazarbayev University, Astana, Kazakhstan
- 1052 Clinical Academic Department of Pediatrics, University Medical Center (UMC), Astana, Kazakhstan
- 1053 Department of Data Management and Analysis, The INCLEN Trust International, New Delhi, India
- 1054 Metabolic Syndrome Research Center, Mashhad University of Medical Sciences, Mashhad, Iran
- 1055 International UNESCO Center for Health-related Basic Sciences and Human Nutrition, Mashhad University of Medical Sciences, Mashhad, Iran
- 1056 Department of Community Medicine, Tribhuvan University, Kathmandu, Nepal
- 1057 Harvard T.H. Chan School of Public Health, Harvard University, Boston, MA, USA
- 1058 Department of Clinical Research and Epidemiology, Institute of Liver and Biliary Sciences, New Delhi, New Delhi, India
- 1059 Centre for Dental Education and Research, All India Institute of Medical Sciences, New Delhi, India
- 1060 Department of Biostatistics Epidemiology and Informatics, University of Pennsylvania, Philadelphia, PA, USA
- 1061 Department of Neonatology, Case Western Reserve University, Cleveland, OH, USA
- 1062 Department of Cardiology, Third Military Medical University, Chongqing, China
- 1063 Medical Sciences Education Department, Western University of Health Sciences, Pomona, CA, USA
- 1064 Cardiovascular Research Center, Isfahan Cardiovascular Research Institute, Isfahan, Iran
- 1065 College of Medicine, University of Central Florida, Orlando, FL, USA
- 1066 Department of Radiology, University of California Irvine, Irvine, CA, USA
- 1067 Research and Development Coordination, Health Research Institute National Institutes of Health, Islamabad, Pakistan
- 1068 UO Neurologia, Salute Pubblica e Disabilità, Fondazione IRCCS Istituto Neurologico Carlo Besta (Neurology, Public Health and Disability Unit, Carlo Besta Neurological Institute), Milan, Italy
- 1069 Department of Health Sciences, Cihan University Sulaimaniya, Sulaymaniyah, Iraq
- 1070 Cihan University Sulaimaniya Research Center (CUSRC), Sulaymaniyah, Iraq
- 1071 Department of Health Policy & Organization, University of Alabama at Birmingham, Birmingham, AL, USA
- 1072 Department of Health Services Administration, University of Alabama at Birmingham, Birmingham, AL, USA
- 1073 Cardiovascular Research Center, Tabriz University of Medical Sciences, Tabriz, Iran
- 1074 Department of Population Science and Human Resource Development, University of Rajshahi, Rajshahi, Bangladesh
- 1075 Institute of Health and Wellbeing, Federation University Australia, Berwick, VIC, Australia
- 1076 School of Nursing and Midwifery, La Trobe University, Melbourne, VIC, Australia
- 1077 Future Technology Research Center, National Yunlin University of Science and Technology, Yunlin, Taiwan
- 1078 Department of Nutrition, Qazvin University of Medical Sciences, Qazvin, Iran
- 1079 Department of Public Health, Torbat Jam Faculty of Medical Sciences, Torbat Jam, Iran
- 1080 School of Public Health and Preventive Medicine, Monash University, Melbourne, VIC, Australia
- 1081 Faculty of Medicine, Birjand University of Medical Sciences, Birjand, Iran
- 1082 Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi, India
- 1083 Department of Cardiology, Emory University, Atlanta, GA, USA
- 1084 Department of Urology, All India Institute of Medical Sciences, Bhubaneswar, India
- 1085 Department of Community Medicine, PSG Institute of Medical Sciences and Research, Coimbatore, India
- 1086 Department of Radiology, Stanford University, Stanford, CA, USA
- 1087 Leadership Institute for Global Health Transformation (LIGHT), National University of Singapore, Singapore, Singapore
- 1088 Department of Biochemistry, JSS Academy of Higher Education & Research, Mysore, India
- 1089 Department of Epidemiology, Biostatistics and Occupational Health, McGill University, Montreal, QC, Canada
- 1090 Research and Innovation Division, South Asian Institute for Social Transformation (SAIST), Dhaka, Bangladesh
- 1091 Translation Health Research Institute, Western Sydney University, Campbelltown, NSW, Australia
- 1092 Research Department, Policy Research Institute, Kathmandu, Nepal
- 1093 Health and Public Policy Department, Global Center for Research and Development, Kathmandu, Nepal

- 1094 Centre for Clinical Pharmacology, University of Defence in Belgrade, Belgrade, Serbia
- 1095 Centre for Clinical Pharmacology, Medical College of Georgia at Augusta University, Belgrade, Serbia
- 1096 Health Economics and Outcomes Research, Agios Pharmaceuticals, Cambridge, MA, USA
- 1097 Department of Pharmaceutical Economics and Policy, Massachusetts College of Pharmacy and Health Sciences, Boston, MA, USA
- 1098 School of Humanities and Social Sciences, Indian Institute of Technology Mandi, Mandi, India
- 1099 Department of Medicine, University of Otago, Wellington, New Zealand
- 1100 Department of Neurology, Capital & Coast District Health Board, Wellington, New Zealand
- 1101 Community Medicine, Manipal Academy of Higher Education, Mangalore, India
- 1102 Department of Oral Pathology, Sharavathi Dental College and Hospital, Shimogga, India
- 1103 University of Social Welfare and Rehabilitation Sciences, Tehran, Iran
- 1104 Department of Medicine, Jinnah Sindh Medical University, Karachi, Pakistan
- 1105 Department of Geography, Soran University, Soran, Iraq
- 1106 Department of Biomedical Engineering, Khulna University of Engineering and Technology, Khulna, Bangladesh
- 1107 Department of Population Medicine, Qatar University, Doha, Qatar
- 1108 Lifecourse Epidemiology, Public Health Foundation of India, Bengaluru, India
- 1109 Pulmonary Critical Care, University of Chicago, Chicago, IL, USA
- 1110 Academic Public Health England, Public Health England, London, UK
- 1111 Cardiovascular Research Center, Shiraz University of Medical Sciences, Shiraz, Iran
- 1112 Department Biological Sciences, King Abdulaziz University, Jeddah, Egypt
- 1113 Department of Protein Research, Research and Academic Institution, Alexandria, Egypt
- 1114 Unisabana Center for Translational Science, Universidad de La Sabana, Chia, Colombia
- 1115 Critical Care Department, Clinica Universidad De La Sabana, Chia, Colombia
- 1116 Department of Epidemiology and Biostatistics, Rafsanjan University of Medical Sciences, Rafsanjan, Iran
- 1117 Centre of Telehealth, Federal University of Minas Gerais, Belo Horizonte, Brazil
- 1118 Associated Laboratory for Green Chemistry (LAQV), University of Porto, Porto, Portugal
- 1119 Faculty of Agrarian Sciences and Environment, University of the Azores, Angra do Heroísmo, Portugal
- 1120 Institute of Diagnostic and Interventional Radiology and Neuroradiology, Essen University Hospital, Essen, Germany
- 1121 Department of Clinical Research, Federal University of Uberlândia, Uberlândia, Brazil
- 1122 Gilbert and Rose-Marie Chagoury School of Medicine, Lebanese American University, Beirut, Lebanon
- 1123 Faculty of Nursing, Chulalongkorn University, Bangkok, Thailand
- 1124 Analytical and Applied Economics, Utkal University, Bhubaneswar, India
- 1125 Department of Biochemistry and Food Analysis, Patuakhali Science and Technology University, Patuakhali, Bangladesh
- 1126 Department of Labour, Directorate of Factories, Government of West Bengal, Kolkata, India
- 1127 Department of Cardiology and Internal Medicine, University of Warmia and Mazury, Olsztyn, Poland
- 1128 Cardiovascular Department, Zagazig University, Zagazig, Egypt
- 1129 Faculty of Medicine, Gonabad University of Medical Sciences, Gonabad, Iran
- 1130 Infectious Diseases Research Center, Gonabad University of Medical Sciences, Gonabad, Iran
- 1131 Department of Epidemiology, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 1132 Department of Neurology, University of L'Aquila, L'Aquila, Italy
- 1133 Department of Cardiology, Department of Veterans Affairs, Decatur, GA, USA
- 1134 Department of Cardiology, Medical College of Georgia at Augusta University, Augusta, GA, USA
- 1135 Sharjah Institute for Medical Research, University of Sharjah, Sharjah, United Arab Emirates
- 1136 Multidisciplinary Laboratory Foundation University School of Health Sciences (FUSH), Foundation University, Islamabad, Pakistan
- 1137 International Center of Medical Sciences Research (ICMSR), Islamabad, Pakistan
- 1138 Traditional Medicine and Materia Medica Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 1139 Sharjah Institute of Medical Sciences, University of Sharjah, Sharjah, United Arab Emirates
- 1140 Applied Biomedical Research Center, Mashhad University of Medical Sciences, Mashhad, Iran
- 1141 Biotechnology Research Center, Mashhad University of Medical Sciences, Mashhad, Iran
- 1142 Department of Community and Family Medicine, All India Institute of Medical Sciences, Bathinda, India
- 1143 Neurology Department, Golestan University of Medical Sciences, Gorgan, Iran
- 1144 Department of Statistics, University of Gujrat, Pakistan, Gujrat, Pakistan
- 1145 Ludwig Maximilian University of Munich, Munich, Germany
- 1146 Institute for Employment Research, Nuremberg, Germany
- 1147 Department of Oral and Maxillofacial Surgery, University College Hospital, Ibadan, Ibadan, Nigeria

- 1148 Campaign for Health and Neck Cancer Education (CHANCE) Programme, Cephas Health Research Initiative Inc, Ibadan, Nigeria
- 1149 Faculty of Pharmacy, Mansoura University, Mansoura, Egypt
- 1150 Mark and Mary Stevens Neuroimaging and Informatics Institute, University of Southern California, Los Angeles, CA, USA
- 1151 Public Health and Community Medicine Department, Cairo University, Giza, Egypt
- 1152 Technology Management Department, University College of Applied Sciences, Gaza, Palestine
- 1153 Department of Neurology, Charité University Medical Center Berlin, Berlin, Germany
- 1154 Department of Neurology, University of Southern Denmark, Odense, Denmark
- 1155 Department of Anatomy, Ras Al Khaimah Medical and Health Sciences University, Ras Al Khaimah, United Arab Emirates
- 1156 Department of Entomology, Ain Shams University, Cairo, Egypt
- 1157 Medical Ain Shams Research Institute (MASRI), Ain Shams University, Cairo, Egypt
- 1158 Department of Surgery, Marshall University, Huntington, WV, USA
- 1159 Department of Nutrition and Preventive Medicine, Case Western Reserve University, Cleveland, OH, USA
- 1160 Department of Pediatrics, Pravara Institute of Medical Sciences, Loni, India
- 1161 School of Public Health and Health Management, University of Belgrade, Belgrade, Serbia
- 1162 Research Development Coordination Section, Pakistan Health Research Council, Islamabad, Pakistan
- 1163 School of Sciences, University of Management and Technology, Lahore, Pakistan
- 1164 Pharmacy Study Program, Udayana University, Badung, Indonesia
- 1165 Department of Clinical Pharmacy, Taipei Medical University, Taipei, Taiwan
- 1166 Department of Pharmacology and Research, All India Institute of Medical Sciences, Jodhpur, India
- 1167 Indira Gandhi Medical College and Research Institute, Puducherry, India
- 1168 Department of Public Health, Jahrom University of Medical Sciences, Jahrom, Iran
- 1169 Department of Food Processing Technology, West Bengal State Council of Technical Education, Malda, India
- 1170 Department of Health and Society, University of Applied and Environmental Sciences, Bogota, Colombia
- 1171 National School of Public Health, Carlos III Health Institute, Madrid, Spain
- 1172 Department of Oral Pathology and Microbiology, Dr. D.Y. Patil University, Pune, India
- 1173 Department of Oral Pathology and Microbiology, Dr. D.Y. Patil Dental College and Hospital, Pune, India
- 1174 Department of Family and Preventive Medicine, Emory University, Atlanta, GA, USA
- 1175 Department of Medicine, Bangalore Medical College and Research Institute, Bangalore, India
- 1176 Department of Public Health Sciences, University of North Carolina at Charlotte, Charlotte, NC, USA
- 1177 Education Development Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran
- 1178 Department of Neurology, National and Kapodistrian University of Athens, Athens, Greece
- 1179 Department of Neurology, Columbia University, New York, NY, USA
- 1180 Cardiovascular Research Center, Massachusetts General Hospital, Cambridge, MA, USA
- 1181 Department of Cardiovascular Sciences, Katholieke Universiteit Leuven, Leuven, Belgium
- 1182 The George Institute for Global Health, Sydney, NSW, Australia
- 1183 Department of Psychology, University of Alabama at Birmingham, Birmingham, AL, USA
- 1184 Department of Microbiology, Kurdistan University of Medical Sciences, Sanandaj, Iran
- 1185 Department of Population and Health, University of Cape Coast, Cape Coast, Ghana
- 1186 College of Public Health, Medical and Veterinary Sciences, James Cook University, Townsville, QLD, Australia
- 1187 Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran
- 1188 Faculty of Medicine, Bioscience and Nursing, MAHSA University, Jenjarom, Malaysia
- 1189 Department of Medical Sciences, Bharath Institute of Higher Education and Learning (BIHER), Chennai, India
- 1190 Emergency Department, Manian Medical Centre, Erode, India
- 1191 Department of Medicine and Surgery, Government Doon Medical College, Dehradun, India
- 1192 Endocrinology and Metabolism Research Center (EMRC), Tehran University of Medical Sciences, Tehran, Iran
- 1193 National Heart, Lung, and Blood Institute, National Institute of Health, Rockville, MD, USA
- 1194 Department of Community Health, Aja University of Medical Sciences, Tehran, Iran
- 1195 Sina Trauma Research Center, Tehran University of Medical Sciences, Tehran, Iran
- 1196 Department of Infectious Diseases and Microbiology, Rajiv Gandhi University of Health Sciences, Bangalore, India
- 1197 HepatoPancreatoBiliary Surgery and Liver Transplant Department, Healthcare Global Limited Cancer Care Hospital, Bangalore, India
- 1198 Department of Medicine, Tehran University of Medical Sciences, Tehran, Iran
- 1199 Division of Preventive Cardiology, Houston Methodist Academic Institute, Houston, TX, USA
- 1200 Institute of Molecular Biology and Biotechnology (IMBB), The University of Lahore, Lahore, Pakistan

- 1201 Research Centre for Health Sciences (RCHS), The University of Lahore, Lahore, Pakistan
- 1202 Department of Physics, The University of Lahore, Lahore, Pakistan
- 1203 Department of Clinical Sciences, Al-Quds University, Ajman, United Arab Emirates
- 1204 Independent Consultant, Karachi, Pakistan
- 1205 Department of Pathology and Laboratory Medicine, Northwell Health, New York City, NY, USA
- 1206 Department of Health Education and Promotion, Jazan University, Jazan, Saudi Arabia
- 1207 Department of Clinical Review and Safety, Baim Institute for Clinical Research, Boston, MA, USA
- 1208 Beth Israel Deaconess Medical Center, Harvard University, Boston, MA, USA
- 1209 Department of Pharmaceutical Care, Tehran University of Medical Sciences, Tehran, Iran
- 1210 Research Center for Rational Use of Drugs, Tehran University of Medical Sciences, Tehran, Iran
- 1211 Facultad de Medicina, Universidad del Azuay (Faculty of Medicine, University of Azuay), Cuenca, Ecuador
- 1212 Department of Medical Oncology, Kent Hospital, Warwick, RI, USA
- 1213 Faculty of Medicine and Health, University of New South Wales, Sydney, NSW, Australia
- 1214 Department of Physiotherapy, Kathmandu University, Dhulikhel, Nepal
- 1215 Human Genetics and Molecular Medicine, Central University of Punjab, Bathinda, India
- 1216 Institute of Forensic Science & Criminology, Panjab University, Chandigarh, India
- 1217 Centre for Medical Informatics, University of Edinburgh, Edinburgh, UK
- 1218 Division of General Internal Medicine, Harvard University, Boston, MA, USA
- 1219 Department of Public Health, Dambi Dollo University, Dembi Dollo, Ethiopia
- 1220 National Institute of Infectious Diseases, Tokyo, Japan
- 1221 Korea University, Seoul, South Korea
- 1222 Finnish Institute of Occupational Health, Helsinki, Finland
- 1223 Washington State University, Pullman, WA, USA
- 1224 Department of Veterinary Public Health and Preventive Medicine, Usmanu Danfodiyo University, Sokoto, Sokoto, Nigeria
- 1225 Center for Environmental and Respiratory Health Research, University of Oulu, Oulu, Finland
- 1226 National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, Taiwan
- 1227 Department of Public Health Dentistry, Krishna Vishwa Vidyapeeth (Deemed to be University), Karad, India
- 1228 School of Pharmacy, Monash University, Selangor Darul Ehsan, Malaysia
- 1229 The Cooper Institute, Dallas, TX, USA
- 1230 Department of Pediatrics and Child Health Nursing, Dilla University, Dilla, Ethiopia
- 1231 Department of Psychology, Reykjavik University, Reykjavik, Iceland
- 1232 Department of Health and Behavior Studies, Columbia University, New York, NY, USA
- 1233 School of Health, Victoria University of Wellington, Wellington, New Zealand
- 1234 Usher Institute, University of Edinburgh, Edinburgh, UK
- 1235 Department of Dentistry, All India Institute of Medical Sciences, Bhopal, India
- 1236 Department of Geography, Banaras Hindu University, Varanasi, India
- 1237 School of Medicine, University of Alabama at Birmingham, Birmingham, AL, USA
- 1238 Medicine Service, US Department of Veterans Affairs (VA), Birmingham, AL, USA
- 1239 Department of Radiodiagnosis, All India Institute of Medical Sciences, Bathinda, India
- 1240 Department of Food Science and Technology, Dr YSP College of Horticulture and Forestry, Solan, India
- 1241 Maternal and Child Health Division, International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh
- 1242 Clinical Branch, Moscow Research and Practical Centre on Addictions, Moscow, Russia
- 1243 Addiction Psychiatry Department, Russian Medical Academy of Continuous Professional Education, Moscow, Russia
- 1244 Department of Infectious Diseases and Epidemiology, Pirogov Russian National Research Medical University, Moscow, Russia
- 1245 Division of Injury Prevention, The Bizzell Group, Atlanta, GA, USA
- 1246 Rollins School of Public Health, Emory University, Atlanta, GA, USA
- 1247 Faculty of Public Health, Universitas Ahmad Dahlan, Yogyakarta, Indonesia
- 1248 Department of Medicinal Chemistry, University of Sharjah, Sharjah, United Arab Emirates
- 1249 Sociology Department, University of Wisconsin Oshkosh, Oshkosh, WI, USA
- 1250 Department of Health Policy and Management, University of Georgia College of Public Health, Athens, GA, USA
- 1251 Institute of Child and Adolescent Health, Peking University, Beijing, China
- 1252 Hospital Universitario de La Princesa (Princess University Hospital), Autonomous University of Madrid, Madrid, Spain
- 1253 Centro de Investigación Biomédica en Red Enfermedades Respiratorias (CIBERES) (Center for Biomedical Research in Respiratory Diseases Network), Madrid, Spain

- 1254 3rd Department of Cardiology, University of Athens, Athens, Greece
- 1255 Division of Community Medicine, International Medical University, Kuala Lumpur, Malaysia
- 1256 Department of Medicine, Democritus University of Thrace, Alexandroupolis, Greece
- 1257 National Institute of Epidemiology, Indian Council of Medical Research, Chennai, India
- 1258 Mental Health Research, Independent Consultant, Khulna, Bangladesh
- 1259 Division of Global Mental Health, EviSyn Health, Khulna, Bangladesh
- 1260 Analytical and Applied Economics Department, Utkal University, Bhubaneswar, India
- 1261 Department of Neurology, Università degli Studi di Milano Bicocca, Monza, Italy
- 1262 Department of Medical Informatics, Mashhad University of Medical Sciences, Mashhad, Iran
- 1263 Clinical Research Development Unit, Mashhad University of Medical Sciences, Mashhad, Iran
- 1264 Department of Basic Medical Sciences, Islamic Azad University, Mashhad, Iran
- 1265 Department of Internal Medicine, Islamic Azad University, Mashhad, Iran
- 1266 Department of Medical Education, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 1267 School of Social Work, University of Illinois, Urbana, IL, USA
- 1268 Department of Pharmacology, Shaqra University, Shaqra, Saudi Arabia
- 1269 Cancer Control Center, Osaka International Cancer Institute, Osaka, Japan
- 1270 Department of Epidemiology and Biostatistics, Wollo University, Dessie, Ethiopia
- 1271 Living Systems Institute, University of Exeter, Exeter, UK
- 1272 Department of Environmental, Agricultural and Occupational Health, University of Nebraska Medical Center, Omaha, NE, USA
- 1273 Pathology Department, Alexandria University, Alexandria, Egypt
- 1274 Department of Dermato-Venereology, Dr. Victor Babes Clinical Hospital of Infectious Diseases and Tropical Diseases, Bucharest, Romania
- 1275 Department of Epidemiology, Stellenbosch University, Cape Town, South Africa
- 1276 Department of Medicine, Northlands Medical Group, Omuthiya, Namibia
- 1277 State Key Laboratory of Numerical Modeling for Atmospheric Sciences and Geophysical Fluid Dynamics (LASG), Chinese Academy of Sciences, Beijing, China
- 1278 Department of Population and Behavioural Sciences, University of Health and Allied Sciences, Ho, Ghana
- 1279 Department of Economics, Rice University, Houston, TX, USA
- 1280 Department of Research and Innovation, Enventure Medical Innovation, Houston, TX, USA
- 1281 Department of Pathology, Tehran University of Medical Sciences, Tehran, Iran
- 1282 Department of health Education & Health Promotion, Mashhad University of Medical Sciences, Mashhad, Iran
- 1283 Department of Urology, Sabzevar University of Medical Sciences, Sabzevar, Iran
- 1284 Pediatric Intensive Care Unit, King Saud University, Riyadh, Saudi Arabia
- 1285 College of Pharmacy, Alfaisal University, Riyadh, Saudi Arabia
- 1286 Department of Epidemiology and Biostatistics, University of California San Francisco, San Francisco, CA, USA
- 1287 Department of Pharmacology, All India Institute of Medical Sciences, Raipur, India
- 1288 Public Health Department, Amrita Institute of Medical Sciences, Kochi, India
- 1289 Department of Medicine, Monash Health, Melbourne, VIC, Australia
- 1290 Monitoring and Evaluation, Nepal Development Society, Kathmandu, Nepal
- 1291 Department of Pediatrics, University Hospitals Rainbow Babies & Children's Hospital, Cleveland, OH, USA
- 1292 Division of Pediatric Gastroenterology, Case Western Reserve University, Cleveland, OH, USA
- 1293 Institute of Applied Health Research, University of Birmingham, Birmingham, UK, UK
- 1294 Faculty of Medicine, University of Southampton, Southampton, UK
- 1295 Department of Gastroenterology, PSG Institute of Medical Sciences and Research, Coimbatore, India
- 1296 Faculty of Biomedical Engineering, Czech Technical University, Prague, Czech Republic
- 1297 Nuffield Department of Primary Care Health Sciences, Oxford University, Oxford, UK
- 1298 Department of Medicine, University of Calgary, Calgary, AB, Canada
- 1299 Institute of Public Health, Jagiellonian University Medical College, Kraków, Poland
- 1300 Agency for Health Technology Assessment and Tariff System, Warsaw, Poland
- 1301 Nutritional Epidemiology Research Team EREN, National Institute for Health and Medical Research INSERM, Paris, France
- 1302 Department of Health, Medicine and Human Biology, Sorbonne Paris Nord University, Bobigny, France
- 1303 Saveetha Dental College and Hospitals, Saveetha Institute of Medical and Technical Sciences (SIMATS), Chennai, India
- 1304 SRM College of Pharmacy, SRM Institute of Science and Technology (SRMIST), Chennai, India
- 1305 School of Medicine, Indiana University, Indianapolis, IN, USA
- 1306 Department of Health, Children's Hospital 1, Ho Chi Minh City, Viet Nam

- 1307 Department of Medicine, Tra Vinh University, Tra Vinh City, Viet Nam
- 1308 Division of Cardiovascular Medicine, University of Louisville, Louisville, KY, USA
- 1309 Adult Learning Disability Service, Leicestershire Partnership National Health Service Trust, Leicester, UK
- 1310 Internal Medicine Department, Nazareth Hospital, Philadelphia, PA, USA
- 1311 School of Medicine, Nam Can Tho University, Can Tho, Viet Nam
- 1312 Department of Medicine, University of Crete, Heraklion, Greece
- 1313 Department of Nursing, Aksum University, Aksum, Ethiopia
- 1314 Department of Psychiatry, Dalhousie University, Halifax, NS, Canada
- 1315 Department of Physiology, East Carolina University, Greenville, NC, USA
- 1316 Diabetes & Obesity Institute and physiology, East Carolina University, Greenville, NC, USA
- 1317 Department of Public Health, East Carolina University, Greenville, NC, USA
- 1318 College of Public Health, Temple University, Philadelphia, PA, USA
- 1319 Department of Biosciences and Biotechnology, University of Medical Sciences, Ondo, Ondo, Nigeria
- 1320 Department of Health and Community Sciences, University of Exeter, Exeter, UK
- 1321 Natural and Medical Sciences Research Center, University of Nizwa Oman, Nizwa, Oman, Oman
- 1322 Department of Zoology, University of Education, Lahore, Lahore, Pakistan
- 1323 Division of Science and Technology, University of Education, Lahore, Lahore, Pakistan
- 1324 Medical Genomics Research Department, King Abdullah International Medical Research Center, Riyadh, Saudi Arabia
- 1325 Department of Life Sciences, University of Management and Technology, Lahore, Pakistan
- 1326 Division of Surgery and Interventional Science, University College London, London, UK
- 1327 Department of Cardiovascular, Endocrine-metabolic Diseases and Aging, National Institute of Health, Rome, Italy
- 1328 Kasturba Medical College, Manipal Academy of Higher Education, Mangalore, India
- 1329 Department of Physiotherapy, Bayero University, Kano, Kano, Nigeria
- 1330 College of Health and Sport Sciences, University of Bahrain, Salmanya, Bahrain
- 1331 Urmia University of Medical Sciences, Urmia, Iran
- 1332 Department. of Public Health and Epidemiology, University of Debrecen, Debrecen, Hungary
- 1333 Department of Periodontology, Krishna Vishwa Vidyapeeth (Deemed to be University), Karad, India
- 1334 Department of Internal Medicine, University of Groningen, Groningen, Netherlands
- 1335 UKK Institute, Tampere, Finland
- 1336 Faculty of Medicine and Health Technology, Tampere University, Tampere, Finland
- 1337 Department of Zoology, Central University of Punjab, Bathinda, India
- 1338 Department of Human Genetics & Molecular Biology, Bharathiar University, Coimbatore, India
- 1339 Department of Health Policy and Management, Johns Hopkins University, Baltimore, MD, USA
- 1340 Occupational Health Unit, Sant'Orsola Malpighi Hospital, Bologna, Italy
- 1341 Division of Cardiology, Johns Hopkins University, Baltimore, MD, USA
- 1342 Department of Medical Oncology, University of Medicine and Pharmacy "Grigore T Popa" Iasi, Iași, Romania
- 1343 Department of Medical Oncology, Regional Institute of Oncology, Iași, Romania
- 1344 Faculty of Medicine Institute of Epidemiology, University of Belgrade, Belgrade, Serbia
- 1345 School of Population Health and Environmental Sciences, King's College London, London, UK
- 1346 Brown School, Washington University in St. Louis, St. Louis, MO, USA
- 1347 Department of Surgery, Washington University in St. Louis, St. Louis, MO, USA
- 1348 School of Public Health, Xuzhou Medical University, Xuzhou, China
- 1349 Cardiovascular Department, The George Institute for Global Health, Sydney, NSW, Australia
- 1350 Cardiology Department, University of Sydney, Sydney, NSW, Australia
- 1351 Department of Neurosurgery, Capital Medical University, Beijing, China
- 1352 General Internal Medicine and Health Services Research, University of California Los Angeles, Los Angeles, CA, USA
- 1353 Department of Medicine, Greater Los Angeles VA Healthcare System, Los Angeles, CA, USA
- 1354 Demographic Change and Aging Research Area, Federal Institute for Population Research, Wiesbaden, Germany
- 1355 Department of Community Medicine, Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka
- 1356 Department of Neurology, University of Melbourne, Melbourne, VIC, Australia
- 1357 Department of Medicine, University of Rajarata, Saliyapura Anuradhapuraya, Sri Lanka
- 1358 Department of Nursing, Universitas Aisyiyah Bandung, Bandung, Indonesia
- 1359 NIHR Biomedical Research Centre, Guy's and St. Thomas' Hospital and Kings College London, London, UK
- 1360 Global Health and Health Security department, Taipei Medical University, Taipei, Taiwan
- 1361 Division of Gastroenterology, Huazhong University of Science and Technology, Wuhan, China
- 1362 School of Public Health, Zhejiang University, Zhejiang, China
- 1363 Department of Public Health Science, Fred Hutchinson Cancer Research Center, Seattle, WA, USA

- 1364 Department of Endocrinology, University of Science and Technology of China, Hefei, China
- 1365 School of Medicine, University of Rochester, Rochester, NY, USA
- 1366 Cardiovascular Program, The George Institute for Global Health, Sydney, NSW, Australia
- 1367 Australian Institute of Health Innovation, Macquarie University, Macquarie Park, NSW, Australia
- 1368 Department of Family Medicine and Community Health, Duke University, Durham, IL, USA
- 1369 Research Center of Physiology, Semnan University of Medical Sciences, Semnan, Iran
- 1370 Department of Social Preventive Medical Sciences, Chiba University, Chiba, Japan
- 1371 Department of Gerontological Evaluation, National Center for Geriatrics and Gerontology, Obu, Japan
- 1372 The Russell H. Morgan Department of Radiology and Radiological Science, Johns Hopkins University, Baltimore, MD, USA
- 1373 National Center for Chronic and Non-communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention, Beijing, China
- 1374 The George Institute for Global Health, University of New South Wales, Sydney, NSW, Australia
- 1375 Department of Family Medicine, St. Peter's Specialized Hospital, Addis Ababa, Ethiopia
- 1376 Independent Consultant, Addis Ababa, Ethiopia
- 1377 Biostatistics, Epidemiology, and Science Computing Department, King Faisal Specialist Hospital & Research Center, Riyadh, Saudi Arabia
- 1378 Department of Health Management, Süleyman Demirel Üniversitesi (Süleyman Demirel University), Isparta, Türkiye
- 1379 Department of Public Health, Wollega University, Nekemte, Ethiopia
- 1380 Department of Pediatrics, Kyung Hee University, Seoul, South Korea
- 1381 Department of Neuropsychopharmacology, National Center of Neurology and Psychiatry, Kodaira, Japan
- 1382 Department of Public Health, Juntendo University, Tokyo, Japan
- 1383 Department of Environmental Health, Mazandaran University of Medical Sciences, Sari, Iran
- 1384 Department of Neurology, University Hospital Antwerp, Antwerp, Belgium
- 1385 Faculty of Medicine and Health Sciences, University of Antwerp, Antwerp, Belgium
- 1386 Department of Epidemiology and Biostatistics, Wuhan University, Wuhan, China
- 1387 Department of Clinical Pharmacy and Outcomes Sciences, University of South Carolina, Columbia, SC, USA
- 1388 Department of Medical Genetics, Mashhad University of Medical Sciences, Mashhad, Iran
- 1389 Department of Pulmonary and Critical Care Medicine, Tehran University of Medical Sciences, Baltimore, MD, USA
- 1390 Faculty of Medicine and Health Sciences, Hodeidah University, Hodeidah, Yemen
- 1391 Department of Virology, University of Helsinki, Helsinki, Finland
- 1392 Department of Bioengineering and Therapeutic Sciences, University of California San Francisco, San Francisco, CA, USA
- 1393 Addictology Department, Russian Medical Academy of Continuous Professional Education, Moscow, Russia
- 1394 Department of GI Medical Oncology, University of Texas, Houston, FL, USA
- 1395 School of Population and Global Health, University of Western Australia, Perth, WA, Australia
- 1396 Department of Anesthesiology, Central South University, Changsha, China
- 1397 Department of Epidemiology and Biostatistics, Ministry of Public Health, Hefei, China
- 1398 Department of Oncology, The First Affiliated Hospital of Anhui Medical University, Hefei, China
- 1399 Department of Neurology, Capital Medical University, Beijing, China
- 1400 National Center for Neurological Diseases, Capital Medical University, Beijing, China
- 1401 School of Public Health, Peking University, Beijing, China
- 1402 Department of International Health, Johns Hopkins University, Baltimore, MD, USA
- 1403 Cardiovascular Diseases Centre, China Academy of Chinese Medical Sciences, Beijing, China
- 1404 Medical Oncology Department of Gastrointestinal Cancer, Cancer Hospital of Dalian University of Technology, Shenyang, China
- 1405 School of Biomedical Engineering, Faculty of Medicine, Dalian University of Technology, Dalian, China
- 1406 School of Public Policy and Administration, Xi'an Jiaotong University, Xi'an, China
- 1407 School of Public Health, Wuhan University of Science and Technology, Wuhan, China
- 1408 Hubei Province Key Laboratory of Occupational Hazard Identification and Control, Wuhan University of Science and Technology, Wuhan, China
- 1409 College of Traditional Chinese Medicine, Hebei University, Baoding, China
- 1410 School of Public Health and Emergency Management, Southern University of Science and Technology, Shenzhen, China
- 1411 School of Life Sciences, Yunnan University, Kunming, China
- 1412 Department of Biochemistry and Pharmacogenomics, Medical University of Warsaw, Warsaw, Poland
- 1413 Department of Anatomy, Addis Ababa University, Addis Ababa, Ethiopia
- 1414 Heart and Vascular Institute, Cleveland Clinic, Cleveland, OH, USA
- 1415 Department of Infection, University College London, London, UK

- ¹⁴¹⁶ NIHR-Biomedical Research Centre (NIHR-BRC), University College London Hospitals, London, UK
- ¹⁴¹⁷ Department of Cardiology, Pulmonology, and Vascular Medicine, University Hospital Duesseldorf, Medical Faculty, Heinrich-Heine-University, Duesseldorf, Germany
- ¹⁴¹⁸ Center of Medical and Bio-Allied Health Sciences Research (CMBHSR), Ajman University, Ajman, United Arab Emirates
- ¹⁴¹⁹ School of Physics, Universiti Sains Malaysia, Penang, Malaysia
- ¹⁴²⁰ Mount Sinai Fuster Heart Hospital, Icahn School of Medicine at Mount Sinai, New York, NY, USA
- ¹⁴²¹ Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain
- ¹⁴²² Division of Cardiology, University of Washington, Seattle, WA, USA

^a Center for Translation Research and Implementation Science, National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, Maryland, USA

^b Mount Sinai Heart, Icahn School of Medicine at Mount Sinai, New York, New York, USA

^c Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain

^d Department of Health Metrics Sciences, Institute for Health Metrics and Evaluation, School of Medicine, University of Washington, Seattle, Washington, USA

^e Division of Cardiology, Department of Medicine, University of Washington, Seattle, Washington, USA

Available online 11 December 2023, Version of Record 11 December 2023.



Show less ^

Share Cite

<https://doi.org/10.1016/j.jacc.2023.11.007>

[Get rights and content](#)

Section snippets

Background

The Global Burden of Diseases, Injuries, and Risk Factors Study (GBD) is a multinational collaborative research study with >10,000 collaborators around the world. GBD generates a time series of summary measures of health, including prevalence, cause-specific mortality (CSMR), years of life lost (YLLs), years lived with disability (YLDs), and disability-adjusted life years (DALYs) to provide a comprehensive view of health burden for a wide range of stakeholders including clinicians, public and...

Funding Support and Author Disclosures

Funding was provided by the Bill and Melinda Gates Foundation, and the American College of Cardiology Foundation. The authors have reported that they have no relationships relevant to the contents of this paper to disclose. The contents and views expressed in this report are those of the authors and do not necessarily reflect the official views of the National Institutes of Health, the Department of Health and Human Services, the U.S. Government, or the affiliated institutions....

First page preview

GLOBAL BURDEN OF DISEASES

Global Burden of Cardiovascular Diseases and Risks, 1990-2022



George A. Mensah, MD,¹ Valentin Fuster, MD, PhD,^{1,c} Christopher J.L. Murray, MD, DPM,⁴
 Gregory A. Roth, MD, MPH,^{2,d} on behalf of the Global Burden of Cardiovascular Diseases and Risks Collaborators*

FUNDING SUPPORT AND AUTHOR DISCLOSURES

Funding was provided by the Bill and Melinda Gates Foundation, and the American College of Cardiology Foundation. The authors have reported that they have no relationships relevant to the contents of this paper to disclose. The contents and views expressed in this report are those of the authors and do not necessarily reflect the official views of the National Institutes of Health, the Department of Health and Human Services, the U.S. Government, or the affiliated institutions.

APPENDIX For a complete list of the Global Burden of Cardiovascular Diseases and Risks Collaborators, please see pages 1 to 35 of the Supplemental Appendix, available in the online version of this paper. Please see pages 36 to 47 of the Supplemental Appendix for more detailed information about individual author contributions to the research, divided into the following categories: providing data or critical feedback on data sources; developing methods or computational machinery; providing critical feedback on methods or results; drafting the manuscript or revising it critically for important intellectual content; and managing the estimation or publications process. For author disclosures, please see pages 48 to 56 of the Supplemental Appendix.

ADDRESS FOR CORRESPONDENCE: Dr Gregory A. Roth, Institute for Health Metrics and Evaluation, 3980 15th Avenue NE, UW Campus Box #351615, Seattle, Washington 98195, USA. E-mail: rothg@uw.edu, #GBDstudy, @IHME_UW, @NHLBI.Translate.

From the ¹Center for Translation Research and Implementation Science, National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, Maryland, USA; ²Mount Sinai Heart, Icahn School of Medicine at Mount Sinai, New York, New York, USA; ³Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain; ⁴Department of Health Metrics Sciences, Institute for Health Metrics and Evaluation, School of Medicine, University of Washington, Seattle, Washington, USA; and the ⁵Division of Cardiology, Department of Medicine, University of Washington, Seattle, Washington, USA. *For a complete list of the Global Burden of Cardiovascular Diseases and Risks Collaborators as well as information about their relationships as they pertain to the contents of this paper, please see the Supplemental Appendix.

The authors attest they are in compliance with human studies committees and animal welfare regulations of the authors' institutions and Food and Drug Administration guidelines, including patient consent where appropriate. For more information, visit the [Author Center](#).

ISSN 0735-1097/\$36.00

<https://doi.org/10.1016/j.jacc.2023.11.007>

View PDF

[Special issue articles](#) [Recommended articles](#)

References (25)

G.A. Stevens *et al.*

[Guidelines for accurate and transparent health estimates reporting: the GATHER statement](#)

The Lancet (2016)

G.L. Raff *et al.*

[SCCT guidelines for the interpretation and reporting of coronary computed tomographic angiography](#)

J Cardiovasc Comput Tomogr (2009)

C.M. Otto *et al.*

[2020 ACC/AHA guideline for the management of patients with valvular heart disease: a report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines](#)

J Am Coll Cardiol (2021)

E.M. Isselbacher *et al.*

[2022 ACC/AHA guideline for the diagnosis and management of aortic disease: a report of the American Heart Association/American College of Cardiology Joint Committee on Clinical Practice Guidelines](#)

J Am Coll Cardiol (2022)

C.J.L. Murray

Protocol for the Global Burden Of Diseases, Injuries, And Risk Factors Study (GBD)

H. Wang *et al.*

Global age-sex-specific fertility, mortality, healthy life expectancy (HALE), and population estimates in 204 countries and territories, 1950–2019: a comprehensive demographic analysis for the Global Burden of Disease Study 2019

The Lancet (2020)

G. Gibson *et al.*

Universal Definition and Classification of Heart Failure: A Step in the Right Direction from Failure to Function

S.C. Johnson *et al.*

Public health utility of cause of death data: applying empirical algorithms to improve data quality

T. Vos *et al.*

Global burden of 369 diseases and injuries in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019

The Lancet (2020)

P. Zheng *et al.*

Trimmed constrained mixed effects models: formulations and algorithms

Journal of Computational and Graphical Statistics (2021)



View more references

Cited by (1)

[A Heart-Healthy and Stroke-Free World: Using Data to Inform Global Action](#)

2023, Journal of the American College of Cardiology

The authors attest they are in compliance with human studies committees and animal welfare regulations of the authors' institutions and Food and Drug Administration guidelines, including patient consent where appropriate. For more information, visit the [Author Center](#).

* For a complete list of the Global Burden of Cardiovascular Diseases and Risks Collaborators as well as information about their relationships as they pertain to the contents of this paper, please see the Supplemental Appendix.

[View full text](#)



All content on this site: Copyright © 2023 Elsevier B.V., its licensors, and contributors. All rights are reserved, including those for text and data mining, AI training, and similar technologies. For all open access content, the Creative Commons licensing terms apply.

