

Supplementary Authorship: authorship appendix to “Global burden of adverse effects of medical treatment from 1990 to 2021: a Global Burden of Disease Study 2021”

This appendix provides further authorship detail for “Global burden of adverse effects of medical treatment from 1990 to 2021: a Global Burden of Disease Study 2021.”

GBD 2021 AEMT Collaborators

Yi Deun Jeong,^{1&} Seoyoung Park,^{2&} Wonwoo Jang,^{1&} Min Seo Kim,^{3,4&} Bhoomadevi A,⁵ Mohammad Amin Aalipour,⁶ Mohammed Altigani Abdalla,⁷ Meriem Abdoun,^{8,9} Auwal Abdullahi,^{10,11} Toufik Abdul-Rahman,¹² Armita Abedi,¹³ Richard Gyan Aboagye,^{14,15} Mohamed Abouzid,¹⁶ Dariush Abtahi,¹⁷ Bilyaminu Abubakar,^{18,19} Eman Abu-Gharbieh,^{20,21} Ahmad Y Abuhelwa,²² Salahdein Aburuz,^{23,24} Dina Abushanab,²⁵ Lisa C Adams,^{26,27} Kamoru Ademola Adedokun,^{28,29} Nurudeen A Adegoke,^{30,31} Olumide Thomas Adeleke,^{32,33} Juliana Bunmi Adetunji,³⁴ Temitayo Esther Adeyeoluwa,^{35,36} Mohd Adnan,³⁷ Prince Owusu Adoma,³⁸ David Adzrago,³⁹ Habeeb Abiodun Afolabi,⁴⁰ Vlad-Adrian Afrăsănie,^{41,42} Fatemeh Afrashteh,⁴³ Saira Afzal,^{44,45} Williams Agyemang-Duah,⁴⁶ Mahsa Ahadi,⁴⁷ Bright Opoku Ahinkorah,⁴⁸ Aqeel Ahmad,⁴⁹ Danish Ahmad,^{50,51} Muayyad M Ahmad,⁵² Sajjad Ahmad,^{53,54} Negar Sadat Ahmadi,⁵⁵ Ali Ahmed,^{56,57} Ayman Ahmed,^{58,59} Muktar Beshir Ahmed,^{60,61} Sindew Mahmud Ahmed,^{62,63} Syed Anees Ahmed,⁶⁴ Yazan Al-Ajlouni,^{65,66} Mostafa Alam,⁶⁷ Fahmi Y Al-Ashwal,^{68,69} Wafa A Aldhaleei,⁷⁰ Shereen M Aleidi,^{71,72} Ali M Alfalki,⁷³ Abdelazeem M Algammal,⁷⁴ Fadwa Naji Alhalaiqa,⁷⁵ Dari Alhuwail,^{76,77} Abid Ali,⁷⁸ Bassam R Ali,⁷⁹ Liaqat Ali,⁸⁰ Mohammad Daud Ali,⁸¹ Mohammed Usman Ali,^{82,83} Rafat Ali,⁸⁴ Syed Shujait Ali,⁸⁵ Morteza Alipour,⁸⁶ Samah W Al-Jabi,⁸⁷ Mohamad Aljofan,⁸⁸ Mustafa Alkhawam,⁸⁹ Mohammed Z Allouh,^{90,91} Sabah Al-Marwani,⁹² Joseph Uy Almazan,⁹³ Mohammad R Alqudimat,⁹⁴ Ahmad Rajeh Al-Qudimat,⁹⁵ Intima Alrimawi,⁹⁶ Mohammed A Alsabri,^{97,98} Najim Z Alshahrani,⁹⁹ Awais Altaf,^{100,101} Yaser Mohammed Al-Worafi,^{102,103} Mohammad Sharif Ibrahim Alyahya,⁹¹ Amr Amin,^{104,105} Alireza Amindarolzari,¹⁰⁶ Jimoh Amzat,^{107,108} Filippos Anagnostakis,^{109,110} Catalina Liliana Andrei,¹¹¹ Abdul-Azeez Adeyemi Anjorin,¹¹² Iyadunni Adesola Anuoluwa,¹¹³ Saeid Anvari,¹¹⁴ Saleha Anwar,^{115,116} Anayochukwu Edward Anyasodor,¹¹⁷ Jalal Arabloo,¹¹⁸ Mosab Arafat,¹¹⁹ Jorge Arias de la Torre,^{120,121} Ghazal Arjmand,¹²² Jesu Arockiaraj,¹²³ Anton A Artamonov,¹²⁴ Ashokan Arumugam,^{125,126} Syed Mohammed Basheeruddin Asdaq,¹²⁷ Mitra Ashrafi,¹²⁸ Dereje Zewdu Assefa,¹²⁹ Alok Atreya,¹³⁰ Julie Alaere Atta,¹³¹ Martin Amogre Ayanore,^{132,133} Haleh Ayatollahi,^{118,134} Arian Azadnia,¹³⁵ Ali Azargoonjahromi,¹³⁶ Fahad Khan Azeez,^{137,138} Sadat Abdulla Aziz,^{139,140} Ahmed Y Azzam,^{141,142} Hediyyeh Baghsheikhi,¹⁴³ Ovidiu Constantin Baltatu,^{144,145} Maciej Banach,^{146,147} Hansi Bansal,¹⁴⁸ Simachew Animen Bante,¹⁴⁹ Mainak Bardhan,¹⁵⁰ Amadou Barrow,^{151,152} Zarrin Basharat,¹⁵³ Mohammad-Mahdi Bastan,^{154,43} Abdul-Monim Batiha,¹⁵⁵ Kavita Batra,¹⁵⁶ Mahdis Bayat,^{157,158} Nebiyou Simegnew Bayleyegn,¹⁵⁹ Narasimha M Beeraka,¹⁶⁰ Gokce Belge Bilgin,¹⁶¹ Abiye Assefa Berihun,¹⁶² Amiel Nazer C Bermudez,¹⁶³ Akshaya Srikanth Bhagavathula,¹⁶⁴ Neeraj Bhala,^{165,166} Nikha Bhardwaj,¹⁶⁷ Pankaj Bhardwaj,¹⁶⁸ Sonu Bhaskar,^{169,170} Priyadarshini Bhattacharjee,¹⁷¹ Rajbir Bhatti,¹⁷² Raluca Bievel-Radulescu,¹⁷³ Cem Bilgin,^{174,175} Bruno Bizzozero-Peroni,^{176,177} Paria Bolourinejad,¹⁷⁸ Sri Harsha Boppana,¹⁷⁹ Alejandro Botero Carvajal,¹⁸⁰ Norma B Bulamu,¹⁸¹ Felix Busch,^{182,183} Yasser Bustanji,^{72,184} Rose Cairns,^{185,186} Mehtap Çakmak Barsbay,¹⁸⁷ Luis

Alberto Cámara,^{188,189} Si Cao,¹⁹⁰ Angelo Capodici,¹⁹¹ Andrea Carugno,¹⁹² Andre F Carvalho,¹⁹³ Márcia Carvalho,^{194,195} Joao Mauricio Castaldelli-Maia,¹⁹⁶ Muthia Cenderadewi,^{197,198} Pamela Roxana Chacón-Uscamaita,¹⁹⁹ Jeffrey Shi Kai Chan,^{200,201} Vijay Kumar Chattu,^{202,203} Lam Duc Chau,²⁰⁴ Sirshendu Chaudhuri,²⁰⁵ An-Tian Chen,²⁰⁶ Haowei Chen,²⁰⁷ Qingsong Chen,²⁰⁸ Xing Chen,²⁰⁹ Patrick R Ching,²¹⁰ Daniel Youngwhan Cho,²¹¹ Bryan Chong,²¹² Hitesh Chopra,²¹³ Shivani Chopra,²¹⁴ Sonali Gajanan Choudhari,²¹⁵ Dinh-Toi Chu,^{216,217} Isaac Sunday Chukwu,²¹⁸ Sunghyun Chung,²¹⁹ Alyssa Columbus,²²⁰ Joao Conde,²²¹ Omid Dadras,²²² Xiaochen Dai,^{223,224} Mayank Dalakoti,^{225,226} Giovanni Damiani,^{227,228} Emanuele D'Amico,²²⁹ Endalamaw Tesfa Damtie,²³⁰ Anh Kim Dang,²³¹ Samuel Demissie Darcho,²³² Latefa Ali Dardas,²³³ Paul I Dargan,^{234,235} Emina Dervišević,²³⁶ Vinoth Gnana Chellaiyan Devanbu,²³⁷ Pradeep Kumar Devarakonda,²³⁸ Kuldeep Dhama,²³⁹ Sameer Dhingra,²⁴⁰ Jingkai Di,²⁴¹ Diana Dias da Silva,^{242,243} Shirin Djalalinia,²⁴⁴ Huyen Phuc Do,^{245,246} Sushil Dohare,²⁴⁷ Neda Dolatkah,^{248,249} Mario D'Oria,^{250,251} Fariba Dorostkar,²⁵² Ojas Prakashbhai Doshi,²⁵³ Robert Kokou Dowou,²⁵⁴ Viola Savy Dsouza,²⁵⁵ Aster Dure Dumbullo,²⁵⁶ Senbagam Duraisamy,²⁵⁷ Sulagna Dutta,²⁵⁸ Abdel Rahman E'mar,²⁵⁹ Lamiaa Labieb Mahmoud Ebraheim,²⁶⁰ Ashkan Eighaei Sedeh,^{261,4} Michael Ekholuenetale,²⁶² Muhammed Elhadi,^{263,264} Mohamed Hassan Elnaem,²⁶⁵ Chadi Eltaha,²⁶⁶ Abdelgawad Salah Eltahawy,²⁶⁷ Amir Emami Zeydi,²⁶⁸ Elochukwu Ezenwankwo,²⁶⁹ Heidar Fadavian,²⁷⁰ Adeniyi Francis Fagbamigbe,^{271,272} Ayesha Fahim,²⁷³ Mohammad Fareed,²⁷⁴ Sara Farina,²⁷⁵ Ali Fatehizadeh,²⁷⁶ Alireza Feizkhal,²⁷⁷ Ginenus Fekadu,^{278,279} Ulrich Membe Femoe,^{280,281} Rodrigo Fernandez-Jimenez,^{282,283} Pietro Ferrara,^{284,285} Nuno Ferreira,²⁸⁶ Florian Fischer,²⁸⁷ Federica Fogacci,²⁸⁸ Behzad Foroutan,²⁸⁹ Takeshi Fukumoto,²⁹⁰ Dominic Dormenyo Gadeka,²⁹¹ Márió Gajdács,²⁹² Dingwei Gao,^{293,294} Xiang Gao,^{295,296} David Garcia-Azorin,^{297,298} Rupesh K Gautam,²⁹⁹ Miglas Welay Gebregergis,³⁰⁰ Delaram J Ghadimi,³⁰¹ Kazem Ghaffari,^{302,303} Arin Ghamkhar,³⁰⁴ Fariba Ghassemi,³⁰⁵ Zainab Gholami,³⁰⁶ Artyom Urievich Gil,³⁰⁷ Alem Abera Girmay,³⁰⁸ Mahaveer Golechha,³⁰⁹ Pouya Goleij,^{310,311} Mohsen Golkar,⁶⁷ Melika Golmohammadi,^{122,312} Nelson G M Gomes,^{313,195} Ayman Grada,²²⁸ Shi-Yang Guan,³¹⁴ Giovanni Guarducci,³¹⁵ Damitha Asanga Gunawardane,³¹⁶ Veer Bala Gupta,³¹⁷ Roberth Steven Gutiérrez-Murillo,³¹⁸ Parishma Guttoo,³¹⁹ Najah R Hadi,³²⁰ Pritam Halder,^{321,322} Sajid Hameed,³²³ Samer Hamidi,³²⁴ Harrison J Hansford,^{325,326} Mohammad Jahid Hasan,³²⁷ Syed Shahzad Hasan,^{328,329} Md Saquib Hasnain,³³⁰ Amr Hassan,³³¹ Muhammad Hassan,³³² Nageeb Hassan,³³³ Mahgol Sadat Hassan Zadeh Tabatabaei,³³⁴ Rasmus J Havmoeller,³³⁵ Khezar Hayat,^{336,337} Khedidja Hedna,^{338,339} Mohammad Heidari,³⁴⁰ Mojtaba Heydari,³⁴¹ Yuta Hiraike,³⁴² Alamgir Hossain,³⁴³ Sorin Hostiuc,^{344,345} Hanno Hoven,^{346,347} Guoqing Hu,³⁴⁸ Junjie Huang,³⁴⁹ Xiaojie Huang,³⁵⁰ Kiavash Hushmandi,³⁵¹ Bing-Fang Hwang,^{352,353} Olayinka Stephen Ilesanmi,^{354,355} Irena M Ilic,³⁵⁶ Milena D Ilic,³⁵⁷ Lalu Muhammad Irham,³⁵⁸ Abubakar Musa Isa,^{359,360} Sheikh Mohammed Shariful Islam,³⁶¹ Nahlah Elkudssiah Ismail,^{362,363} Haitham Jahrami,^{364,365} Anmol Jain,³⁶⁶ Nityanand Jain,³⁶⁷ Vikash Jaiswal,^{368,369} Ruchi Jakhmola-Mani,³⁷⁰ Mihajlo Jakovljevic,^{371,372} Armaan Jamal,³⁷³ Jerin James,³⁷⁴ Amirreza Javadi Mamaghani,^{375,376} Ruwan Duminda Jayasinghe,^{377,378} Felix K Jebasingh,^{379,380} Gwang Hun Jeong,^{381,382} Seongsong Jeong,³⁸³ Bijay Mukesh Mukesh Jeswani,³⁸⁴ Nitin Joseph,³⁸⁵ Charity Ehimwenma Joshua,³⁸⁶ Ashish Kumar Kakkar,³⁸⁷ Ashwin Kamath,³⁸⁸ Ramat T Kamorudeen,^{389,390} Saddam Fuad Kanaan,³⁹¹ Samuel Berchi Kankam,³⁹² Kehinde Kazeem Kanmodi,^{393,394} Rami S Kantar,^{395,396} Sujita Kumar Kar,³⁹⁷ Samad Karkhah,³⁹⁸ Mohamed Isaqali Karobari,³⁹⁹ Tomasz M M Karpiński,⁴⁰⁰ Joonas H Kauppila,^{401,402} Ariz Keshwani,⁴⁰³ Himanshu Khajuria,⁴⁰⁴ Mohammad Ali Khaksar,^{405,406} Sumaira Khalid-Ariturk,⁴⁰⁷ Ajmal Khan,⁴⁰⁸ Muhammad Mueed Khan,^{409,410} Ramsha Mushtaq Khan,⁴¹¹ Yusuf Saleem Khan,⁴¹² Zahid Khan,^{413,414} Sameer Uttamaro Khasbage,⁴¹⁵ Haitham Khatatbeh,⁴¹⁶ Moawiah Mohammad Khatatbeh,⁴¹⁷ Jagdish Khubchandani,⁴¹⁸ Adnan Kisa,^{419,420} Ali-Asghar Kolahi,⁴²¹ Farzad Kompani,⁴²² Oleksii Korzh,⁴²³ Sindhura Lakshmi Koulmane Laxminarayana,⁴²⁴ Irene Akwo Kretchy,⁴²⁵ Varun Krishna,⁴²⁶ Burcu Kucuk Bicer,⁴²⁷ Mohammed Kuddus,⁴²⁸ Mukhtar Kulimbet,^{429,430} Dian Kusuma,^{431,432} Ville Kytö,^{433,434} Lucie Laflamme,^{435,436} Savita Lasrado,⁴³⁷ Duc Huy Le,⁴³⁸ Thao Thi Thu Le,⁴³⁹ Caterina Ledda,⁴⁴⁰ Seung Won Lee,⁴⁴¹ Wei-Chen Lee,⁴⁴² Vasileios Leivaditis,^{443,444} Jing Li,⁴⁴⁵ Virendra S Ligade,⁴⁴⁶ Liangquan Lin,⁴⁴⁷ Xiaofeng Liu,^{448,449} Xuefeng Liu,^{450,451} Erand Llanaj,^{452,453} Platon D Lopukhov,⁴⁵⁴ Jaiilos Lubinda,^{455,456} Giancarlo Lucchetti,⁴⁵⁷ Raimundas Lunevicius,⁴⁵⁸ Peng Luo,⁴⁵⁹ Ellina Lytyvyak,^{460,461} Kevin Sheng-Kai Ma,⁴⁶² Seyed Ataollah Madinezad,¹²² Aurea Marilia Madureira-Carvalho,^{463,464} Sasikumar Mahalingam,⁴⁶⁵ Mehrdad Mahalleh,³⁰³ Samatar Abshir Mahamed,^{466,467} Nozad Hussein Mahmood,⁴⁶⁸ Farhad Mahmoudi,⁴⁶⁹ Venkatesh Maled,⁴⁷⁰

Ahmad Azam Malik,⁴⁷¹ Kamaruddeen Mannethodi,⁴⁷² Shaista Manzoor,⁴⁷³ Roy Rillera Marzo,^{474,475} Sammer Marzouk,⁴⁷⁶ Yasith Mathangasinghe,^{477,478} Fernanda Penido Matozinhos,⁴⁷⁹ Khurshid A Mattoo,⁴⁸⁰ Steven M McPhail,^{481,482} Rishi P Mediratta,⁴⁸³ Vini Mehta,⁴⁸⁴ Hadush Negash Meles,⁴⁸⁵ Ritesh G Menezes,⁴⁸⁶ Alexios-Fotios A Mentis,⁴⁸⁷ Atte Meretoja,^{488,489} Tuomo J Meretoja,^{490,491} Tomislav Mestrovic,^{492,223} Chamila Dinushi Kukulege Mettananda,^{493,494} Sachith Mettananda,^{495,496} GK Mini,^{497,498} Chaitanya Mittal,⁴⁹⁹ Natansh Deepak Modi,⁵⁰⁰ Yidnek Mogessie,^{501,502} Heba M Mohamed,⁵⁰³ Hebatalla Mohamed,⁵⁰⁴ Jama Mohamed,⁵⁰⁵ Mona Gamal Mohamed,^{506,507} Nouh Saad Mohamed,^{508,509} Khabab Abbasher Hussien Mohamed Ahmed,⁵¹⁰ Taj Mohammad,^{511,512} Abdollah Mohammadian-Hafshejani,⁵¹³ Shafiu Mohammed,^{514,515} Syam Mohan,^{516,517} Ali H Mokdad,^{223,224} Amirabbas Mollaei,⁵¹⁸ Mohammad Ali Moni,^{519,520} Francis Nanda Prakash Monteiro,⁵²¹ Anthony Kwame Morgan,⁵²² Mahmoud M Morsy,⁵²³ Seyed Ahmad Mousavi,⁵²⁴ Seyed Mohamad Sadegh Mousavi Kiasary,^{525,526} Kimia Mozahheb Yousefi,^{527,528} Sumaira Mubarik,^{529,530} Sumoni Mukherjee,^{531,532} Yanjinlkhm Munkhsaikhan,⁵³³ Ghulam Mustafa,^{49,534} Mubarak Taiwo Mustapha,⁵³⁵ Sathish Muthu,^{536,537} Muhammad Muzaffar,^{538,539} Ahamarshan Jayaraman Nagarajan,^{540,541} Amirhossein Naghibzadeh,⁵⁴² Ganesh R Naik,^{60,543} Hitendra Naik,⁵⁴⁴ Firzan Nainu,⁵⁴⁵ Gopal Nambi,⁵⁴⁶ Shumaila Nargus,⁵⁴⁷ Mahmoud Nassar,⁵⁴⁸ Zuhair S Natto,⁵⁴⁹ Nawsherwan NA,⁵⁵⁰ Biswa Prakash Nayak,⁴⁰⁴ Athare Nazri-Panjaki,⁵⁵¹ Abigia Ashenafi Negash,^{552,553} Ionut Negoii,^{554,555} Henok Biresaw Netsere,^{556,557} Cuong Tat Nguyen,²³¹ Long Nguyen,^{558,559} Nhien Ngoc Y Nguyen,^{560,561} Trang Nguyen,^{558,562} Van Thanh Nguyen,^{563,564} Ali Nikoobar,⁴²¹ Chisom Adaobi Nri-Ezedi,⁵⁶⁵ Ogochukwu Janet Nzopotam,^{566,567} Bogdan Oancea,^{568,569} Ramez M Odat,⁹¹ Oluwaseun Adeolu Ogundijo,⁵⁷⁰ Olusegun Olatunji Ojedoyin,⁵⁷¹ Hassan Okati-Aliabad,⁵⁷² Sylvester Reuben Okeke,^{573,574} Oluwaseyi Isaiah Olabisi,^{575,576} Andrew T Olagunju,^{577,578} Abdhakeem Abayomi Olorukooba,⁵⁷⁹ Folorunsho Bright Omage,^{580,581} Marcel Opitz,⁵⁸² Atakan Orselik,⁵⁸³ Augustus Osborne,⁵⁸⁴ Elham H Othman,⁵⁸⁵ Amel Ouyahia,^{586,587} Irene Amoakoh Owusu,⁵⁸⁸ Kolapo Oyebola,⁵⁸⁹ Yeganeh Pakbaz,⁵⁹⁰ Tamás Palicz,^{591,592} Ioannis Pantazopoulos,^{593,594} Giovanni Paolino,⁵⁹⁵ Shahina Pardhan,⁵⁹⁶ Amrita Parida,⁵⁹⁷ Ava Pashaei,⁵⁹⁸ Roberto Passera,^{599,600} Shiv Patel,⁴⁰³ Shankargouda Patil,⁶⁰¹ Shrikant Pawar,⁶⁰² Shubhadarshini Pawar,⁶⁰³ Hamidreza Pazoki Toroudi,^{604,605} Mario F P Peres,^{196,606} Anil K Philip,⁶⁰⁷ Zahra Zahid Piracha,^{608,609} Edoardo Pirera,⁶¹⁰ Evgenii Plotnikov,^{611,612} Roman V Polibin,⁴⁵⁴ Ville T Ponkilainen,⁶¹³ Sajjad Pourasghary,^{614,615} Farzad Pourghazi,⁶¹⁶ Mohsen Poursadeqian,⁶¹⁷ Akram Pourshams,⁶¹⁸ Nameer Hashim Qasim,^{619,620} Ibrahim Qattee,⁶²¹ Xiang Qi,⁶²² Zhipeng Qi,⁴⁴⁵ Jia-Yong Qiu,^{623,624} Venkatraman Radhakrishnan,⁶²⁵ Maja R Radojčić,⁶²⁶ Pankaja Raghav,⁶²⁷ Fakher Rahim,⁶²⁸ Vafa Rahimi-Movaghar,³³⁴ Fryad Majeed Rahman,^{629,630} Mohammad Hifz Ur Rahman,⁶³¹ Mosiur Rahman,⁶³² Muhammad Aziz Rahman,⁶³³ Adarsh Raja,⁶³⁴ Mahmoud Mohammed Ramadan,^{20,635} Shakthi Kumaran Ramasamy,⁶³⁶ Sheena Ramazanu,^{637,638} Nemanja Rancic,^{639,640} Devarajan Rathish,⁶⁴¹ David Laith Rawaf,^{642,643} Salman Rawaf,^{644,645} Andre M N Renzaho,^{646,647} Mina Rezaei,⁶⁴⁸ Nazila Rezaei,¹⁵⁴ Mohsen Rezaeian,⁶⁴⁹ Abanoub Riad,⁶⁵⁰ João Rocha Rocha-Gomes,⁶⁵¹ Jefferson Antonio Buendia Rodriguez,^{652,653} Leonardo Roever,^{654,655} Moustaq Karim Khan Rony,⁶⁵⁶ Himanshu Sekhar Rout,^{657,658} Chandan S N,⁶⁵⁹ Aly M A Saad,⁶⁶⁰ Cameron John Sabet,⁶⁶¹ Mohd Saeed,⁶⁶² Umar Saeed,^{663,664} Mehdi Safari,^{665,666} Morteza Saki,⁶⁶⁷ Afeez Abolarinwa Salami,^{668,669} Zikria Saleem,⁶⁷⁰ Mohamed A Saleh,^{104,671} Dauda Salihu,⁶⁷² Yoseph Leonardo Samodra,^{673,674} Abdallah M Samy,^{675,676} Milena M Santric-Milicevic,^{356,677} Aswini Saravanan,^{678,679} Mohammad Sarmadi,^{680,681} Gargi Sachin Sarode,⁶⁸² Sachin C Sarode,⁶⁸² Brijesh Sathian,^{683,684} Mukesh Kumar Sathya Narayanan,⁶⁸⁵ Maheswar Satpathy,^{686,687} Monika Sawhney,⁶⁸⁸ Christophe Schinckus,^{689,690} Mohammad H Semreen,^{71,691} Pallav Sengupta,⁶⁹² Subramanian Senthilkumaran,⁶⁹³ Yashendra Sethi,⁶⁹⁴ Allen Seylani,⁶⁹⁵ Moyad Jamal Shahwan,⁶⁹⁶ Masood Ali Shaikh,⁶⁹⁷ Muhammad Aaqib Shamim,⁶⁷⁸ Anas Shamsi,^{696,512} Alfiya Shamsutdinova,⁶⁹⁸ Dan Shan,^{699,700} Amin Sharifan,⁷⁰¹ Javad Sharifi Rad,⁷⁰² Shamee Shastry,⁷⁰³ Ramzi Shawahna,⁷⁰⁴ Rahim Ali Sheikhi,⁷⁰⁵ Samendra P Sherchan,^{706,707} B Suresh Kumar Shetty,⁷⁰⁸ Pavanchand H Shetty,⁷⁰⁸ Premalatha K Shetty,⁷⁰⁹ Md Monir Hossain Shimul,⁷¹⁰ Nebiyu Aniley Shitaye,⁷¹¹ Aminu Shittu,⁷¹² Sina Shool,^{713,334} Sunil Shrestha,^{714,715} Emmanuel Edwar Siddig,^{716,717} Ayesha Siddiqua,⁷¹⁸ Baljinder Singh,⁷¹⁹ Harmanjit Singh,⁷²⁰ Puneetpal Singh,⁷²¹ Surjit Singh,⁶⁷⁸ Valentin Yurievich Skryabin,⁷²² Anna Aleksandrovna Skryabina,⁷²³ Farrukh Sobia,²⁴⁷ Balamrit Singh Sokhal,^{724,725} Prashant Sood,⁷²⁶ Soroush Soraneh,^{614,727} Michael Spartalis,⁷²⁸ Bahadar S Srichawla,⁷²⁹ Manikandan Srinivasan,⁷³⁰ Devin Bailey Srivastava,⁴⁰³ Andy Stergachis,^{731,224} Omer Subasi,^{732,733} Aravindkumar Subramanian,⁷³⁴ Vetriselvan Subramaniyan,⁷³⁵ Thanigaivel Sundaram,¹²³

Chandan Kumar Swain,⁶⁵⁷ Lukasz Szarpak,^{736,737} Fatemeh Sadat Tabatabaei,⁷³⁸ Seyed Shahaboddin Tabatabaei,⁷³⁹ Celine Tabche,⁶⁴⁴ Mohammad Tabish,^{740,49} Yasaman Taheri Abkenar,⁷⁴¹ Saba Tariq,^{742,743} Razieh Tavakoli Oliaee,⁷⁴⁴ Rahele Tavakoly,^{745,746} Mohamad-Hani Temsah,^{747,144} Wegen Beyene Tesfamariam,⁷⁴⁸ Hadiza Theyra-Enias,^{749,750} Jansje Henny Vera Ticoalu,⁷⁵¹ Tenaw Yimer Tiruye,^{752,753} Madi Tleshev,⁷⁵⁴ Sojit Tomo,⁷⁵⁵ Marcos Roberto Tovani-Palone,⁷⁵⁶ An Thien Tran,⁷⁵⁷ Tam Quoc Minh Tran,⁷⁵⁸ Nguyen Tran Minh Duc,⁷⁵⁹ Domenico Trico,⁷⁶⁰ Evangelia Eirini Tsermpini,⁷⁶¹ Lorraine Tudor Car,⁶⁴⁴ Aniefiok John Udoakang,⁷⁶² Atta Ullah,⁴⁰⁸ Himayat Ullah,^{49,763} Hauwa Onozasi Umar,⁷⁶⁴ Lawan Umar,^{765,766} Era Upadhyay,⁷⁶⁷ Jibrin Sammani Usman,^{768,769} Hande Uzunçubuk,⁷⁷⁰ Asokan Govindaraj Vaithinathan,⁷⁷¹ Balachandar Vellingiri,^{772,773} Qingzhi Wang,⁴⁴⁵ Wei Wang,⁴⁴⁵ Yanzhong Wang,⁷⁷⁴ Fei-Long Wei,^{775,776} Anggi Lukman Wicaksana,⁷⁷⁷ Nuwan Darshana Wickramasinghe,⁷⁷⁸ Samuel Wiebe,^{779,780} Marcin W Wojewodzic,^{781,782} Zenghong Wu,⁷⁸³ Lishun Xiao,⁴⁴⁵ Wanqing Xie,^{784,785} Mahnaz Yadollahi,⁷⁸⁶ Haibo Yang,⁷⁸⁷ Renjunal Yesodharan,⁷⁸⁸ Dehui Yin,⁷⁸⁹ Malede Berihun Yismaw,⁷⁹⁰ Naohiro Yonemoto,^{791,792} Chuanhua Yu,⁵³⁰ Deniz Yuce,⁷⁹³ Aurora Zanghi,⁷⁹⁴ Michael Zastrozhin,^{795,796} Mohammed Zawiah,⁷⁹⁷ Mohammed G M Zeariya,^{798,799} Sebastian Zensen,⁸⁰⁰ Tiansong Zhan,⁴⁴⁵ Xiaoyi Zhang,^{801,802} Zhongyi Zhao,⁸⁰³ Claire Chenwen Zhong,⁸⁰⁴ Abzal Zhumagaliuly,⁸⁰⁵ Sa'ed H Zyoud,^{87,806} Jae Il Shin,^{807*} Dong Keon Yon,^{808*} Lee Smith.⁸⁰⁹ ||

& Contributed equally as first authors

* Contributed equally as corresponding authors

|| Senior author

Affiliations

¹Department of Medicine, Kyung Hee University College of Medicine, Seoul, South Korea; ²Center for Digital Health, Kyung Hee University College of Medicine, Seoul, South Korea; ³Cardiovascular Disease Initiative, Broad Institute of MIT and Harvard, Cambridge, MA, USA; ⁴Massachusetts General Hospital, Boston, MA, USA; ⁵Amity Institute of Public Health, Amity University, Uttar Pradesh, India; ⁶Shahid Beheshti University of Medical Sciences, Tehran, Iran; ⁷Hull York Medical School, University of Hull, Hull, UK; ⁸Department of Medicine, University of Setif Algeria, Sétif, Algeria; ⁹Department of Health, University of Setif Algeria, Sétif, Algeria; ¹⁰Department of Physiotherapy, Bayero University Kano, Kano, Nigeria; ¹¹Department of Physiotherapy, Federal University Wukari, Wukari, Nigeria; ¹²Department of Research, Toufik's World Medical Association, Sumy, Ukraine; ¹³Department of Emergency Medicine, Zanjan University of Medical Sciences, Zanjan, Iran; ¹⁴Department of Family and Community Health, University of Health and Allied Sciences, Ho, Ghana; ¹⁵School of Population Health, University of New South Wales, Sydney, NSW, Australia; ¹⁶Department of Physical Pharmacy and Pharmacokinetics, Poznan University of Medical Sciences, Poznan, Poland; ¹⁷Department of Anesthesiology, Shahid Beheshti University of Medical Sciences, Tehran, Iran; ¹⁸Department of Pharmacology and Toxicology, Usmanu Danfodiyo University, Sokoto, Sokoto, Nigeria; ¹⁹Nigerian Institute of Medical Research, Lagos, Nigeria; ²⁰Department of Clinical Sciences, University of Sharjah, Sharjah, United Arab Emirates; ²¹Department of Biopharmaceutics and Clinical Pharmacy, The University of Jordan, Amman, Jordan; ²²Department Pharmacy Practice and Pharmacotherapeutics, University of Sharjah, Sharjah, United Arab Emirates; ²³Department of Pharmacology and Therapeutics, United Arab Emirates University, Al Ain, United Arab Emirates; ²⁴College of Pharmacy, The University of Jordan, Amman, Jordan; ²⁵Department of Pharmacy, Hamad Medical Corporation, Doha, Qatar; ²⁶Department of Diagnostic and Interventional Radiology,

Technical University of Munich, Munich, Germany; ²⁷Stanford University, Palo Alto, CA, USA; ²⁸Department of Immunology, Roswell Park Comprehensive Cancer Center, Buffalo, NY, USA; ²⁹Graduate Program Division, University at Buffalo, Buffalo, NY, USA; ³⁰Translational Research Team, The University of Sydney, Sydney, NSW, Australia; ³¹Melanoma Institute Australia, The University of Sydney, Sydney, NSW, Australia; ³²Department of Family Medicine, Bowen University, Iwo, Nigeria; ³³Department of Family Medicine, Bowen University Teaching Hospital, Ogbomoso, Nigeria; ³⁴Department of Biochemistry, Osun State University, Osogbo, Nigeria; ³⁵Department of Pharmacology and Therapeutics, University of Medical Sciences, Ondo, Ondo, Nigeria; ³⁶Department of Veterinary Medicine, University of Ibadan, Ibadan, Nigeria; ³⁷Department of Biology, College of Science, University of Ha'il, Saudi Arabia, University of Hail, Hail, Saudi Arabia; ³⁸Department of Health Administration and Education, University of Education Winneba, Winneba, Ghana; ³⁹School of Public Health, University of Texas Health Science Center at Houston, Houston, TX, USA; ⁴⁰Department of Statistics, Osun State University, Osogbo, Osogbo, Nigeria; ⁴¹Medical Oncology Department, University of Medicine and Pharmacy " Gr. T. Popa" Iași in Romania, Iasi, Romania; ⁴²Medical Oncology Department, Regional Institute of Oncology Iasi, Romania, Iasi, Romania; ⁴³School of Medicine, Iran University of Medical Sciences, Tehran, Iran; ⁴⁴Department of Community Medicine, King Edward Memorial Hospital, Lahore, Pakistan; ⁴⁵Department of Public Health, Public Health Institute, Lahore, Pakistan; ⁴⁶Department of Public Health Sciences, Queen's University, Kingston, ON, Canada; ⁴⁷Rajaie Trauma Research Center, Shiraz University of Medical Sciences, Shiraz, Iran; ⁴⁸School of Public Health, University of Technology Sydney, Sydney, NSW, Australia; ⁴⁹College of Medicine, Shaqra University, Shaqra, Saudi Arabia; ⁵⁰School of Medicine and Psychology, Australian National University, Canberra, ACT, Australia; ⁵¹Health Research Institute, University of Canberra, Canberra, NSW, Australia; ⁵²School of Nursing, The University of Jordan, Amman, Jordan; ⁵³Department of Health and Biological Sciences, Abasyn University, Peshawar, Pakistan; ⁵⁴Department of Natural Sciences, Lebanese American University, Beirut, Lebanon; ⁵⁵School of Medicine, Tehran University of Medical Sciences, Tehran, Iran; ⁵⁶Department of Pharmacy Practice, Riphah Institute of Pharmaceutical Sciences, Islamabad, Pakistan; ⁵⁷Division of Infectious Diseases and Global Public Health (IDGPH), University of California San Diego, San Diego, CA, USA; ⁵⁸Institute of Endemic Diseases, University of Khartoum, Khartoum, Sudan; ⁵⁹Pan-African One Health Institute (PAOHI), Kigali, Rwanda; ⁶⁰College of Medicine and Public Health, Flinders University, Adelaide, SA, Australia; ⁶¹Faculty of Public Health, Jimma University, Jimma, Ethiopia; ⁶²Department of Public Health Epidemiology, Debre Berhan University, Debre Birhan, Ethiopia; ⁶³Menelik II Medical and Health Science College, EpiMetrics, Inc., Addis Ababa, Ethiopia; ⁶⁴Brody School of Medicine, East Carolina University, Greenville, NC, USA; ⁶⁵Department of Rehabilitation, Montefiore Medical Center, Bronx, NY, USA; ⁶⁶Department of Epidemiology, Columbia University, New York, NY, USA; ⁶⁷Department of Oral and Maxillofacial Surgery, Shahid Beheshti University of Medical Sciences, Tehran, Iran; ⁶⁸Department of Clinical Pharmacy, Al-Ayen Iraqi University, Thi-Qar, Iraq; ⁶⁹Department of Clinical Pharmacy and Pharmacy Practice, University of Science and Technology, Sana'a, Yemen; ⁷⁰Division of Gastroenterology and Hepatology, Mayo Clinic, Rochester, MN, USA; ⁷¹College of Pharmacy, University of Sharjah, Sharjah, United Arab Emirates; ⁷²School of Pharmacy, The University of Jordan, Amman, Jordan; ⁷³Department of Epidemiology and Biostatistics, University of South Carolina, Columbia, SC, USA; ⁷⁴Department of Bacteriology, Immunology, and Mycology, Suez Canal University, Ismailia, Egypt; ⁷⁵College of Nursing, Qatar University, Doha, Qatar; ⁷⁶Information Science Department, Kuwait University, Sabah Alsalem University City, Kuwait; ⁷⁷Health Informatics Unit and Geohealth Lab, Dasman Diabetes Institute, Dasman, Kuwait; ⁷⁸Department of Zoology, Abdul Wali Khan University Mardan, Mardan, Pakistan; ⁷⁹College of Medicine and Health Sciences, United Arab Emirates University, Al Ain, United Arab Emirates; ⁸⁰Department of Biological Sciences, National University of Medical Sciences (NUMS), Rawalpindi, Pakistan; ⁸¹Department of Pharmacy, Mohammed Al-Mana College for Medical Sciences, Dammam, Saudi Arabia; ⁸²Department of Medical Rehabilitation (Physiotherapy), University of Maiduguri, Maiduguri, Nigeria; ⁸³Nethersole School of Nursing, The Chinese University of Hong Kong, Hong Kong, China; ⁸⁴Department of Biosciences, Jamia Millia Islamia, New Delhi, India; ⁸⁵Center for Biotechnology and Microbiology, University of Swat, Swat, Pakistan; ⁸⁶Biomedical Physics Group, Department of Physics, University of

Hamburg, Hamburg, Germany; ⁸⁷Department of Clinical and Community Pharmacy, An-Najah National University, Nablus, Palestine; ⁸⁸Department of Biomedical Sciences, Nazarbayev University, Astana, Kazakhstan; ⁸⁹Cardiovascular Division, University of Alabama, Birmingham, AL, USA; ⁹⁰Department of Anatomy, College of Medicine and Health Sciences, United Arab Emirates University, Al Ain, United Arab Emirates; ⁹¹Faculty of Medicine, Jordan University of Science and Technology, Irbid, Jordan; ⁹²Independent Consultant, Amman, Jordan; ⁹³Department of Medicine, Nazarbayev University, Astana, Kazakhstan; ⁹⁴American University of the Middle East, Egaila, Kuwait; ⁹⁵Surgical Research Section, Hamad Medical Corporation, Doha, Qatar; ⁹⁶Department of Nursing, Georgetown University, Washington, DC, USA; ⁹⁷Department of Emergency Medicine, Sana'a University, Sanaa, Yemen; ⁹⁸Pediatric Emergency Medicine Department, Drexel University, Philadelphia, PA, USA; ⁹⁹Department of Family and Community Medicine, University of Jeddah, Jeddah, Saudi Arabia; ¹⁰⁰Institute of Molecular Biology and Biotechnology, The University of Lahore, Lahore, Pakistan; ¹⁰¹Faculty of Health Sciences, Equator University of Science and Technology, Uganda, Masaka, Uganda; ¹⁰²Fakeeh College for Medical Sciences, Jeddah, Saudi Arabia; ¹⁰³College of Medical Sciences, Azal University for Human Development, Sana'a, Yemen; ¹⁰⁴College of Medicine, University of Sharjah, Sharjah, United Arab Emirates; ¹⁰⁵Summer Program, University of Chicago, Chicago, IL, USA; ¹⁰⁶Department of Radiology and Radiological Science, University of Maryland, Baltimore, MD, USA; ¹⁰⁷Department of Sociology, Usmanu Danfodiyo University, Sokoto, Sokoto, Nigeria; ¹⁰⁸Department of Sociology, University of Johannesburg, Johannesburg, South Africa; ¹⁰⁹Center for Biomedical Image Computing & Analytics, University of Pennsylvania, Philadelphia, PA, USA; ¹¹⁰University of Bologna, Bologna, Italy; ¹¹¹Department of Cardiology, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania; ¹¹²Department of Microbiology, Lagos State University, Ojo, Nigeria; ¹¹³Department of Microbiology, University of Medical Sciences, Ondo, Ondo, Nigeria; ¹¹⁴Regenerative Medicine, Organ Procurement and Transplantation Multi-disciplinary Center, Guilan University of Medical Sciences, Rasht, Iran; ¹¹⁵Centre for Interdisciplinary Research in Basic Sciences (CIRBSc), Jamia Millia Islamia, New Delhi, India; ¹¹⁶School of Chemical and Life Sciences (SCLS), Jamia Hamdard, New Delhi, India; ¹¹⁷Rural Health Research Institute, Charles Sturt University, Orange, NSW, Australia; ¹¹⁸Health Management and Economics Research Center, Iran University of Medical Sciences, Tehran, Iran; ¹¹⁹College of Pharmacy, Al Ain University, Abu Dhabi, United Arab Emirates; ¹²⁰Care in Long Term Conditions Research Division, King's College London, London, UK; ¹²¹CIBER Epidemiology and Public Health (CIBERESP), Madrid, Spain; ¹²²School of Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran; ¹²³Department of Biotechnology, Sri Ramaswamy Memorial Institute of Science and Technology, Kattankulathur, India; ¹²⁴Institute for Biomedical Problems, Russian Academy of Sciences, Moscow, Russia; ¹²⁵Department of Physiotherapy, University of Sharjah, Sharjah, United Arab Emirates; ¹²⁶Department of Physiotherapy, Manipal Academy of Higher Education, Manipal, India; ¹²⁷Department of Pharmacy Practice, AlMaarefa University, Riyadh, Saudi Arabia; ¹²⁸School of Medicine, Zanjan University of Medical Sciences, Zanjan, Iran; ¹²⁹Monash Addiction Research Center, Monash University, Melbourne, VIC, Australia; ¹³⁰Department of Forensic Medicine, Lumbini Medical College, Palpa, Nepal; ¹³¹Management Policy and Community Health, University of Texas, Houston, TX, USA; ¹³²Department of Health Policy Planning and Management, University of Health and Allied Sciences, Ho, Ghana; ¹³³Department of Health Economics, Centre for Health Policy Advocacy Innovation & Research in Africa (CHPAIR-Africa), Accra, Ghana; ¹³⁴Department of Health Information Management, Iran University of Medical Sciences, Tehran, Iran; ¹³⁵Research and Technology Deputy, Kurdistan University of Medical Sciences, Sanandaj, Iran; ¹³⁶Department of Nursing, Shiraz University of Medical Sciences, Shiraz, Iran; ¹³⁷Department of Health Informatics, Jazan University, Jazan, Saudi Arabia; ¹³⁸Department of Community Health, National University of Malaysia, Kuala Lumpur, Malaysia; ¹³⁹University of Sulaimani, Sulaymaniyah, Iraq; ¹⁴⁰Cihan University-Sulaimaniya, Sulaymaniyah, Iraq; ¹⁴¹ASIDE Healthcare, Lewes, DE, USA; ¹⁴²Faculty of Medicine, October 6 University, 6th of October City, Egypt; ¹⁴³Department of Environmental Pediatrics, New York University, New York, NY, USA; ¹⁴⁴College of Medicine, Alfaisal University, Riyadh, Saudi Arabia; ¹⁴⁵Center of Innovation, Technology and Education (CITE), Anhembi Morumbi University, São José dos Campos, Brazil; ¹⁴⁶Department of Hypertension, Medical University of Lodz, Lodz, Poland; ¹⁴⁷Polish Mothers' Memorial Hospital Research Institute, Lodz, Poland; ¹⁴⁸Department

of Forensic Science, Government Institute of Forensic Science, Nagpur, Nagpur, India; ¹⁴⁹Department of Midwifery, Bahir Dar University, Bahir Dar, Ethiopia; ¹⁵⁰Miller School of Medicine, University of Miami, Miami, FL, USA; ¹⁵¹Department of Public and Environmental Health, University of The Gambia, Banjul, The Gambia; ¹⁵²Department of Epidemiology, University of Florida, Gainesville, FL, USA; ¹⁵³Alpha Genomics Private Limited, Islamabad, Pakistan; ¹⁵⁴Non-communicable Diseases Research Center, Tehran University of Medical Sciences, Tehran, Iran; ¹⁵⁵Faculty of Nursing, King Khalid University, Mahyil Asir, Saudi Arabia; ¹⁵⁶Department of Medical Education, University of Nevada Las Vegas, Las Vegas, NV, USA; ¹⁵⁷Cancer Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran; ¹⁵⁸Pastor Institute, Tehran University of Medical Sciences, Tehran, Iran; ¹⁵⁹Department of Surgery, Jimma University, Jimma, Ethiopia; ¹⁶⁰Department of Human Anatomy and Histology, I.M. Sechenov First Moscow State Medical University, Moscow, Russia; ¹⁶¹Department of Radiology, Mayo Clinic, Rochester, MN, USA; ¹⁶²School of Public Health, Johns Hopkins University, Baltimore, MD, USA; ¹⁶³Department of Epidemiology and Biostatistics, University of the Philippines Manila, Manila, Philippines; ¹⁶⁴Department of Public Health, North Dakota State University, Fargo, ND, USA; ¹⁶⁵Institute of Applied Health Research, University of Nottingham, Nottingham, UK; ¹⁶⁶Institute of Applied Health Research, University of Birmingham, Birmingham, UK; ¹⁶⁷Department of Anatomy, All India Institute of Medical Sciences, Jodhpur, India; ¹⁶⁸National Institute for Implementation Research on Non Communicable Diseases, Indian Council of Medical Research, Jodhpur, India; ¹⁶⁹Global Health Neurology Lab, NSW Brain Clot Bank, Sydney, NSW, Australia; ¹⁷⁰Division of Cerebrovascular Medicine and Neurology, National Cerebral and Cardiovascular Center, Suita, Japan; ¹⁷¹Translational and Clinical Research Institute, Newcastle University, Newcastle upon Tyne, UK; ¹⁷²Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; ¹⁷³Fondazione Banca Degli Occhi Del Veneto, Carol Davila University of Medicine and Pharmacy, Venice, Italy; ¹⁷⁴Department of Radiology, Mayo Clinic College of Medicine, Rochester, MN, USA; ¹⁷⁵Neurovascular Research Laboratory, Mayo Clinic College of Medicine, Rochester, MN, USA; ¹⁷⁶Department of Neurobiology, Care Sciences and Society, Karolinska Institute, Stockholm, Sweden; ¹⁷⁷Department of Physical Education and Health, Universidad de la República, Rivera, Uruguay; ¹⁷⁸Isfahan University of Medical Sciences, Isfahan, Iran; ¹⁷⁹Department of Anesthesia and Critical Care Medicine, Johns Hopkins University, Baltimore, MD, USA; ¹⁸⁰Facultad de Salud (Faculty of Health), Universidad Santiago de Cali, Cali, Colombia; ¹⁸¹Flinders Health and Medical Research Institute, Flinders University, Adelaide, SA, Australia; ¹⁸²School of Medicine and Health, Technical University of Munich, Munich, Germany; ¹⁸³Department of Radiology, University of Cambridge, Cambridge, UK; ¹⁸⁴Department of Basic Biomedical Sciences, University of Sharjah, Sharjah, United Arab Emirates; ¹⁸⁵Faculty of Medicine and Health, University of Sydney, Sydney, NSW, Australia; ¹⁸⁶The Children's Hospital at Westmead, New South Wales Poisons Information Centre, Sydney, NSW, Australia; ¹⁸⁷Faculty of Health Sciences Healthcare Management Department, Ankara University, Ankara, Türkiye; ¹⁸⁸Department of Internal and Geriatric Medicine, Hospital Italiano de Buenos Aires (Italian Hospital of Buenos Aires), Buenos Aires, Argentina; ¹⁸⁹Board of Directors, Argentine Society of Medicine, Buenos Aires, Argentina; ¹⁹⁰Department of Anesthesiology, Third Xiangya Hospital of Central South University, Changsha, China; ¹⁹¹Interdisciplinary Research Center for Health Science, Sant'Anna School of Advanced Studies, Pisa, Italy; ¹⁹²Department of Medicine and Surgery, University of Insubria, Varese, Italy; ¹⁹³IMPInstitute for Mental and Physical Health and Clinical Translation (IMPACT), Deakin University, Geelong, VIC, Australia; ¹⁹⁴Faculty of Health Sciences, University Fernando Pessoa, Porto, Portugal; ¹⁹⁵Associated Laboratory for Green Chemistry (LAQV), University of Porto, Porto, Portugal; ¹⁹⁶Department of Psychiatry, University of São Paulo, São Paulo, Brazil; ¹⁹⁷College of Public Health, Medical, and Veterinary Sciences, James Cook University, Townsville, QLD, Australia; ¹⁹⁸Department of Public Health, University of Mataram, Mataram, Indonesia; ¹⁹⁹Posgrado de Medicina, Facultad de Ciencias de la Salud, Universidad Científica del Sur, Lima, Peru; ²⁰⁰Cardio-Oncology Research Unit, Cardiovascular Analytics Group, Canterbury, UK; ²⁰¹School of Nursing and Health Studies, Hong Kong Metropolitan University, Hong Kong, China; ²⁰²Department of Epidemiology and Biostatistics, Semey Medical University (SMU), Semey, Kazakhstan; ²⁰³Department of Community Medicine, Datta Meghe Institute of Medical Sciences, Sawangi, India; ²⁰⁴Department of Epidemiology, The University of Texas Health Science Center at Houston (UTHealth Houston) School of

Public Health, Houston, TX, USA; ²⁰⁵Department of Public Health, Indian Institute of Public Health, Hyderabad, India; ²⁰⁶Peking Union Medical College Hospital, Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing, China; ²⁰⁷Clinical Research Center, Zhujiang Hospital of Southern Medical University, Guangzhou, China; ²⁰⁸Department of Traumatology, Chongqing Medical University, Chongqing, China; ²⁰⁹Shanghai Institute of Infectious Diseases and Biosecurity, Fudan University, Shanghai, China; ²¹⁰Division of Infectious Diseases, Virginia Commonwealth University, Richmond, VA, USA; ²¹¹Division of Plastic Surgery, University of Wisconsin, Madison, WI, USA; ²¹²Department of Medicine, National University of Singapore, Singapore, Singapore; ²¹³Centre for Research Impact & Outcome, Chitkara University, Rajpura, India; ²¹⁴Department of Biosciences, Saveetha University, Chennai, India; ²¹⁵Department of Community Medicine, Jawaharlal Nehru Medical College, Wardha, India; ²¹⁶The Interdisciplinary Research Group on Biomedicine and Health, VNU International School (VNUIS), Hanoi, Viet Nam; ²¹⁷Faculty of Applied Sciences, VNU International School (VNUIS), Hanoi, Viet Nam; ²¹⁸Department of Paediatric Surgery, Federal Medical Centre, Umuahia, Nigeria; ²¹⁹Department of Health Behavior, Texas A&M University, College Station, TX, USA; ²²⁰Department of Biostatistics, Johns Hopkins University, Baltimore, MD, USA; ²²¹Nova Medical School, Nova University of Lisbon, Lisbon, Portugal; ²²²Department of Health, Northern Territory Government, Darwin, SA, Australia; ²²³Institute for Health Metrics and Evaluation, University of Washington, Seattle, WA, USA; ²²⁴Department of Health Metrics Sciences, School of Medicine, University of Washington, Seattle, WA, USA; ²²⁵Department of Public Health and Primary Care, University of Cambridge, Cambridge, UK; ²²⁶Cardiovascular Metabolic Translational Research Program, National University of Singapore, Singapore, Singapore; ²²⁷IRCCS Istituto Ortopedico Galeazzi (Galeazzi Orthopedic Institute IRCCS), University of Milan, Milan, Italy; ²²⁸Department of Dermatology, Case Western Reserve University, Cleveland, OH, USA; ²²⁹Department of Medical and Surgical Sciences and Advanced Technologies "GF Ingrassia", University of Catania, Catania, Italy; ²³⁰Department of Biochemistry, Bahir Dar University, Bahir Dar, Ethiopia; ²³¹Institute for Global Health Innovations, Duy Tan University, Hanoi, Viet Nam; ²³²Department of Public Health, Haramaya University, Harar, Ethiopia; ²³³The University of Jordan, Amman, Jordan; ²³⁴Department of Clinical Toxicology, Guy's and St. Thomas' NHS Foundation Trust, London, UK; ²³⁵Faculty of Life Sciences and Medicine, King's College London, London, UK; ²³⁶Department of Forensic Medicine, University of Sarajevo, Sarajevo, Bosnia and Herzegovina; ²³⁷Chettinad Hospital & Research Institute, Chettinad Academy of Research and Education, Chennai, India; ²³⁸Department of Cardiology, Icahn School of Medicine at Mount Sinai, New York, NY, USA; ²³⁹Division of Pathology, ICAR-Indian Veterinary Research Institute, Bareilly, India; ²⁴⁰Department of Pharmacy Practice, National Institute of Pharmaceutical Education and Research Hajipur, Hajipur, India; ²⁴¹Department of Orthopedics, Second Hospital of Shanxi Medical University, Taiyuan, China; ²⁴²Escola Superior de Saúde (Higher School of Health), Instituto Politécnico do Porto (Polytechnic Institute of Porto), Porto, Portugal; ²⁴³UCIBIO Applied Molecular Biosciences Unit, University of Porto, Porto, Portugal; ²⁴⁴Development of Research and Technology Center, Ministry of Health and Medical Education, Tehran, Iran; ²⁴⁵College of Health Sciences, VinUniversity, Hanoi, Viet Nam; ²⁴⁶Institute of Health Economics and Technology (iHEAT), Hanoi, Viet Nam; ²⁴⁷Department of Public Health, Jazan University, Jazan, Saudi Arabia; ²⁴⁸Research Center for Nutritional Sciences, Iran University of Medical Sciences, Tehran, Iran; ²⁴⁹Department of Nutrition, School of Public Health, Iran University of Medical Sciences, Tehran, Iran; ²⁵⁰Department of Medical, Surgical, and Health Sciences, University of Trieste, Trieste, Italy; ²⁵¹Cardio-Thoraco-Vascular Department, Azienda Sanitaria Universitaria Giuliano Isontina, Trieste, Italy; ²⁵²Department of Medical Laboratory Sciences, Iran University of Medical Sciences, Tehran, Iran; ²⁵³Independent Consultant, Bridgewater, NJ, USA; ²⁵⁴Department of Epidemiology and Biostatistics, University of Health and Allied Sciences, Ho, Ghana; ²⁵⁵Faculty of Health, Medicine and Life Sciences (FHML), Maastricht University, Maastricht, Netherlands; ²⁵⁶school of nursing, ArbaMinch university, Arbaminch, Ethiopia; ²⁵⁷Faculty of Science and Humanities, SRM Institute of Science and Technology, Kattankulathur, India; ²⁵⁸College of Medicine, Ajman University, Ajman, United Arab Emirates; ²⁵⁹Department of Pediatrics, Cleveland Clinic, Cleveland, OH, USA; ²⁶⁰Histology Department, Zagazig University, Zagazig, Egypt; ²⁶¹Isenberg School of Management, University of Massachusetts Amherst, Amherst, MA, USA; ²⁶²Faculty of Science and Health, University of

Portsmouth, Hampshire, UK; ²⁶³College of Medicine, Korea University, Seoul, South Korea; ²⁶⁴Houston Methodist Hospital, Houston, TX, USA; ²⁶⁵School of Pharmacy and Pharmaceutical Sciences, Ulster University, Coleraine, UK; ²⁶⁶Department of Pediatrics, University of Texas, Dallas, TX, USA; ²⁶⁷Faculty of Veterinary Medicine, Damanhour University, Damanhur, Egypt; ²⁶⁸Department of Medical-Surgical Nursing, Mazandaran University of Medical Sciences, Sari, Iran; ²⁶⁹Drexel Dornsife School of Public Health, Drexel University, Philadelphia, PA, USA; ²⁷⁰Department of Electrical and Computer Engineering, Tarbiat Modares University, Tehran, Iran; ²⁷¹Department of Epidemiology and Medical Statistics, University of Ibadan, Ibadan, Nigeria; ²⁷²Research Centre for Healthcare and Community, Coventry University, Coventry, UK; ²⁷³Department of Oral Biology, Riphah International University, Islamabad, Pakistan; ²⁷⁴College of Medicine, AlMaarefa University, Riyadh, Saudi Arabia; ²⁷⁵Department of Life Science and Public Health, Section of Hygiene, Università Cattolica del Sacro Cuore di Roma, Rome, Italy; ²⁷⁶School of Engineering, Edith Cowan University, Joondalup, WA, Australia; ²⁷⁷Department of Social Medicine and Epidemiology, Guilan University of Medical Sciences, Rasht, Iran; ²⁷⁸Department of Infectious Diseases and Public Health, City University of Hong Kong, Hong Kong, China; ²⁷⁹Department of Pharmacy, Wollega University, Nekemte, Ethiopia; ²⁸⁰Department of Pathobiology, University of Pennsylvania, Philadelphia, PA, USA; ²⁸¹Department of Microbiology and Physiology, Tulane University, New Orleans, LA, USA; ²⁸²Cardiovascular Health and Imaging Laboratory, Centro Nacional de Investigaciones Cardiovasculares (CNIC) (National Centre for Cardiovascular Disease Research), Madrid, Spain; ²⁸³Department of Cardiology, Hospital Clinico San Carlos, IdISSC, Madrid, Spain; ²⁸⁴Center for Public Health Research, University of Milan Bicocca, Monza, Italy; ²⁸⁵Laboratory of Public Health, IRCCS Istituto Auxologico Italiano, Milan, Italy; ²⁸⁶Department of Social Sciences, University of Nicosia, Nicosia, Cyprus; ²⁸⁷Institute of Public Health, Charité Universitätsmedizin Berlin (Charité Medical University Berlin), Berlin, Germany; ²⁸⁸Medical and Surgical Sciences Department, University of Bologna, Bologna, Italy; ²⁸⁹Department of Pharmacology, Iranshahr University of Medical Sciences, Iranshahr, Iran; ²⁹⁰Department of Dermatology, Kyoto Prefectural University of Medicine, Kyoto, Japan; ²⁹¹School of Public Health, University of Ghana, Legon-Accra, Ghana; ²⁹²Department of Public Health, University of Szeged, Szeged, Hungary; ²⁹³Clinical Nuclear Medicine Center, Shanghai Tenth People's Hospital, Shanghai, China; ²⁹⁴Department of Nuclear Medicine, Tongji University Tenth People's Hospital, Shanghai, China; ²⁹⁵Department of Biostatistics, Xuzhou Medical University, Xuzhou, China; ²⁹⁶Key Lab of Environment and Health, Xuzhou Medical University, Xuzhou, China; ²⁹⁷Department of Medicine, University of Valladolid, Valladolid, Spain; ²⁹⁸Department of Neurology, Hospital Universitario Rio Hortega, Valladolid, Spain; ²⁹⁹Centre for Pharmacology, Amity Institute of Pharmacy, Noida, India; ³⁰⁰Department of Midwifery, Adigrat University, Adigrat, Ethiopia; ³⁰¹Mayo Clinic, rochester, MN, USA; ³⁰²Department of Laboratory Sciences, Khomein University of Medical Sciences, Khomein, Iran; ³⁰³Tehran University of Medical Sciences, Tehran, Iran; ³⁰⁴Research Committee of Qom University of Medical Sciences, Qom University of Medical Sciences, Qom, Iran; ³⁰⁵Department of Ophthalmology, Tehran University of Medical Sciences, Tehran, Iran; ³⁰⁶Department of Physics, University of Zanjan, Zanjan, Iran; ³⁰⁷Country Office, World Health Organization (WHO), Astana, Kazakhstan; ³⁰⁸Department of Nursing, Aksum University, Aksum, Ethiopia; ³⁰⁹Department of Health Systems and Policy Research, Indian Institute of Public Health, Gandhinagar, India; ³¹⁰Department of Genetics, Sana Institute of Higher Education, Sari, Iran; ³¹¹Universal Scientific Education and Research Network (USERN), Kermanshah University of Medical Sciences, Kermanshah, Iran; ³¹²Research Institute for Endocrine Sciences, Tehran, Iran; ³¹³Laboratório de Farmacognosia, REQUIMTE/LAQV, Porto, Portugal; ³¹⁴Department of Epidemiology and Biostatistics, Anhui Medical University, Hefei, China; ³¹⁵Medical Directorate, Local Health Authority of Ferrara, Ferrara, Italy; ³¹⁶Department of Community Medicine, University of Peradeniya, Kandy, Sri Lanka; ³¹⁷School of Medicine, Deakin University, Geelong, VIC, Australia; ³¹⁸Doctoral Program in Biomedical Gerontology, Pontifical Catholic University of Rio Grande do Sul, Porto Alegre, Brazil; ³¹⁹Department of Population and Quantitative Sciences, Case Western Reserve University, Cleveland, OH, USA; ³²⁰Department of Clinical Pharmacology and Medicine, University of Kufa, Najaf, Iraq; ³²¹Department of Community Medicine, Post Graduate Institute of Medical Education and Research, Chandigarh, India; ³²²Centre for Community Medicine, All India Institute of Medical Sciences, New Delhi,

India; ³²³Department of Public Health, Green International University, Lahore, Lahore, Pakistan; ³²⁴School of Health and Environmental Studies, Hamdan Bin Mohammed Smart University, Dubai, United Arab Emirates; ³²⁵Faculty of Medicine and Health, University of New South Wales, Sydney, NSW, Australia; ³²⁶Centre for Pain IMPACT, Neuroscience Research Australia, Sydney, NSW, Australia; ³²⁷Department of Public Health, Tropical Disease and Health Research Center, Dhaka, Bangladesh; ³²⁸Department of Pharmacy, University of Huddersfield, Huddersfield, UK; ³²⁹School of Biomedical Sciences and Pharmacy, University of Newcastle, Newcastle, NSW, Australia; ³³⁰Department of Pharmaceutical Technology, Adamas University, Kolkata, India; ³³¹Department of Neurology, Cairo University, Cairo, Egypt; ³³²University College of Dentistry, The University of Lahore, Lahore, Pakistan; ³³³Ajman University, Ajman, United Arab Emirates; ³³⁴Sina Trauma and Surgery Research Center, Tehran University of Medical Sciences, Tehran, Iran; ³³⁵Skaane University Hospital, Skaane County Council, Malmö, Sweden; ³³⁶Institute of Pharmaceutical Sciences, University of Veterinary and Animal Sciences, Lahore, Pakistan; ³³⁷Department of Pharmacy Administration and Clinical Pharmacy, Xian Jiaotong University, Xian, China; ³³⁸Department of Neuropsychiatric Epidemiology, Neuroscience and Physiology, University of Gothenburg, Gothenburg, Sweden; ³³⁹School of Environmental and Health Studies, Hamdan Bin Mohammed Smart University, Dubai, United Arab Emirates; ³⁴⁰Community-Oriented Nursing Midwifery Research Center, Shahrekord University of Medical Sciences, Shahrekord, Iran; ³⁴¹Poostchi Ophthalmology Research Center, Shiraz University of Medical Sciences, Shiraz, Iran; ³⁴²Graduate School of Medicine, University of Tokyo, Tokyo, Japan; ³⁴³Department of Physics, University of Rajshahi, Rajshahi, Bangladesh; ³⁴⁴Department of Legal Medicine and Bioethics, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania; ³⁴⁵Department of Clinical Legal Medicine, National Institute of Legal Medicine Mina Minovici, Bucharest, Romania; ³⁴⁶Centre for Global Health Inequalities Research (CHAIN), Norwegian University of Science and Technology, Trondheim, Norway; ³⁴⁷Institute for Occupational and Maritime Medicine (ZfAM), University Medical Center Hamburg-Eppendorf (UKE), Hamburg, Germany; ³⁴⁸Department of Epidemiology and Health Statistics, Central South University, Changsha, China; ³⁴⁹Faculty of Medicine, The Chinese University of Hong Kong, Hong Kong, China; ³⁵⁰Department of Gastroenterology Endoscopy, Fujian Provincial Second People's Hospital, Fuzhou, China; ³⁵¹Nephrology and Urology Research Center, Baqiyatallah University of Medical Sciences, Tehran, Iran; ³⁵²Department of Occupational Safety and Health, China Medical University, Taiwan, Taichung, Taiwan; ³⁵³Department of Occupational Therapy, Asia University, Taiwan, Taichung, Taiwan; ³⁵⁴West Africa RCC, Africa Centre for Disease Control and Prevention, Abuja, Nigeria; ³⁵⁵Department of Community Medicine, University College Hospital, Ibadan, Ibadan, Nigeria; ³⁵⁶Faculty of Medicine, University of Belgrade, Belgrade, Serbia; ³⁵⁷Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia; ³⁵⁸Faculty of Pharmacy, Universitas Ahmad Dahlan, Yogyakarta, Indonesia; ³⁵⁹Malaria Consortium, Abuja, Nigeria; ³⁶⁰Federal Medical Centre, Birnin Kudu, Nigeria; ³⁶¹Department of Nutrition, Texas Tech University, Lubbock, TX, USA; ³⁶²Department of Clinical Pharmacy & Pharmacy Practice, Asian Institute of Medicine, Science and Technology, Bedong, Malaysia; ³⁶³Malaysian Academy of Pharmacy, Puchong, Malaysia; ³⁶⁴College of Medicine and Health Sciences, Arabian Gulf University, Manama, Bahrain; ³⁶⁵Government Hospitals, Manama, Bahrain; ³⁶⁶Department of Hospital Administration, All India Institute of Medical Sciences, New Delhi, India; ³⁶⁷Statistics Unit, Riga Stradins University, Riga, Latvia; ³⁶⁸Endeavor Center for Cardiovascular Intervention Outcomes Research and Evaluation (ECCORE), Endeavor Health Cardiovascular Institute, Glenview, IL, USA; ³⁶⁹Department of Medicine, AMA School of Medicine, Makati, Philippines; ³⁷⁰Amity Institute of Biotechnology, Amity University, Noida, India; ³⁷¹UNESCO-TWAS Section of Economic & Social Sciences, Humanities & Arts, The World Academy of Sciences UNESCO-TWAS, Trieste, Italy; ³⁷²Shaanxi University of Technology, Hanzhong, China; ³⁷³Department of Public Health Sciences, University of Chicago, Chicago, IL, USA; ³⁷⁴SRM Medical College Hospital and Research Centre, Sri Ramaswamy Memorial Institute of Science and Technology, Kattankulathur, India; ³⁷⁵Department of Parasitology, Shahid Beheshti University of Medical Sciences, Tehran, Iran; ³⁷⁶Department of Parasitology, Tabriz University of Medical Sciences, Tabriz, Iran; ³⁷⁷Department of Oral Medicine and Periodontology, University of Peradeniya, Peradeniya, Sri Lanka; ³⁷⁸Department of Oral Medicine and Periodontology, Saveetha University, Chennai, India; ³⁷⁹Department of Endocrinology, Diabetes and Metabolism, Christian

Medical College and Hospital (CMC), Vellore, India; ³⁸⁰Department of Medicine, University of Melbourne, Melbourne, VIC, Australia; ³⁸¹Seoul National University Hospital, Seoul, South Korea; ³⁸²Department of Public Health Sciences, Graduate School of Public Health, Seoul National University, Seoul, South Korea; ³⁸³Department of Biomedical Informatics, Korea University, Seoul, South Korea; ³⁸⁴School of Medicine, Johns Hopkins University, Baltimore, MD, USA; ³⁸⁵Department of Community Medicine, Manipal Academy of Higher Education, Mangalore, India; ³⁸⁶Department of Economics, National Open University, Benin City, Nigeria; ³⁸⁷Department of Pharmacology, Post Graduate Institute of Medical Education and Research, Chandigarh, India; ³⁸⁸Kasturba Medical College Mangalore, Manipal Academy of Higher Education, Manipal, India; ³⁸⁹Department of Public Health, South Wales University, Treforest, UK; ³⁹⁰Osun State Hospital Management Board, ; ³⁹¹Department of Rehabilitation Sciences, Qatar University, Doha, Qatar; ³⁹²T. H. Chan School of Public Health, Harvard University, Boston, MA, USA; ³⁹³Office of the Executive Director, Cephas Health Research Initiative Inc, Ibadan, Nigeria; ³⁹⁴College of Health Sciences, Caleb Univeristy, Imota, Nigeria; ³⁹⁵The Hansjörg Wyss Department of Plastic and Reconstructive Surgery, NYU Langone Health, New York, NY, USA; ³⁹⁶Cleft Lip and Palate Surgery Division, Global Smile Foundation, Norwood, MA, USA; ³⁹⁷Department of Psychiatry, King George's Medical University, Lucknow, India; ³⁹⁸Department of Medical-Surgical Nursing, Guilan University of Medical Sciences, Rasht, Iran; ³⁹⁹Saveetha Medical College and Hospital, Saveetha University, Chennai, India; ⁴⁰⁰Chair and Department of Medical Microbiology, Poznan University of Medical Sciences, Poznan, Poland; ⁴⁰¹Surgery Research Unit, University of Oulu, Oulu, Finland; ⁴⁰²Department of Molecular Medicine and Surgery, Karolinska Institute, Stockholm, Sweden; ⁴⁰³Feinberg School of Medicine, Northwestern University, Chicago, IL, USA; ⁴⁰⁴Amity Institute of Forensic Sciences, Amity University, Noida, India; ⁴⁰⁵Cancer and Cardiovascular Research Building, Moffitt Cancer Center, Minneapolis, MN, USA; ⁴⁰⁶Cellular and Molecular Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran; ⁴⁰⁷College of Health Professions, Marshall University, Huntington, WV, USA; ⁴⁰⁸Natural and Medical Sciences Research Center, University of Nizwa, Nizwa, Oman; ⁴⁰⁹Center for Atmospheric Particle Studies (CAPS), Carnegie Mellon University, Pittsburgh, PA, USA; ⁴¹⁰Department of Mechanical Engineering (MechE), Carnegie Mellon University, Pittsburgh, PA, USA; ⁴¹¹Department of Community and Preventive Medicine, King Edward Medical University, Lahore, Pakistan; ⁴¹²College of Medicine, University of Hail, Hail, Saudi Arabia; ⁴¹³Department of Cardiology, University of South Wales, Treforest, UK; ⁴¹⁴Department of Cardiology, University of Buckingham, Buckingham, UK; ⁴¹⁵Department of Pharmacology, All India Institute of Medical Sciences, Raipur, India; ⁴¹⁶Faculty of Nursing, Yarmouk University, Irbid, Jordan; ⁴¹⁷Department of Basic Medical Sciences, Yarmouk University, Irbid, Jordan; ⁴¹⁸Department of Public Health, New Mexico State University, Las Cruces, NM, USA; ⁴¹⁹School of Health Sciences, Kristiania University College, Oslo, Norway; ⁴²⁰Department of International Health and Sustainable Development, Tulane University, New Orleans, LA, USA; ⁴²¹Social Determinants of Health Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran; ⁴²²Children's Medical Center, Tehran University of Medical Sciences, Tehran, Iran; ⁴²³Department of General Practice and Family Medicine, Kharkiv National Medical University, Kharkiv, Ukraine; ⁴²⁴Kasturba Medical College, Manipal, Manipal Academy of Higher Education, Udipi, India; ⁴²⁵School of Pharmacy, University of Ghana, Legon, Ghana; ⁴²⁶Department of Forensic Medicine and Toxicology, Pondicherry University, Puducherry, India; ⁴²⁷Department of Medical Education and Informatics, Gazi University Faculty of Medicine, Ankara, Türkiye; ⁴²⁸Department of Biochemistry, University of Hail, Hail, Saudi Arabia; ⁴²⁹Research and Publication Activity Division, Kazakh National Medical University, Almaty, Kazakhstan; ⁴³⁰Center of Medicine and Public Health, Asfendiyarov Kazakh National Medical University, Almaty, Kazakhstan; ⁴³¹Department of Public Health and Epidemiology, Khalifa University of Science and Technology, Abu Dhabi, United Arab Emirates; ⁴³²Faculty of Public Health, University of Indonesia, Depok, Indonesia; ⁴³³Clinical Research Center, Turku University Hospital, Turku, Finland; ⁴³⁴Heart Center, University of Turku and Turku University Hospital, Turku, Finland; ⁴³⁵Department of Global Public Health, Karolinska Institute, Stockholm, Sweden; ⁴³⁶Institute for Social and Health Sciences, University of South Africa, Pretoria, South Africa; ⁴³⁷Department of Otorhinolaryngology, Father Muller Medical College, Mangalore, India; ⁴³⁸Department of Epidemiology, Vanderbilt University, Nashville, TN, USA; ⁴³⁹University of Medicine and Pharmacy at

Ho Chi Minh City, Ho Chi Minh City, Viet Nam; ⁴⁴⁰Department of Clinical and Experimental Medicine, University of Catania, Catania, Italy; ⁴⁴¹Department of Precision Medicine, Sungkyunkwan University, Suwon-si, South Korea; ⁴⁴²Department of Family Medicine, University of Texas Medical Branch, Galveston, TX, USA; ⁴⁴³Department of Cardiothoracic and Vascular Surgery, Westpfalz Klinikum, Kaiserslautern, Germany; ⁴⁴⁴Department of Cardiothoracic Surgery, University of Patras, Patras, Greece; ⁴⁴⁵School of Public Health, Xuzhou Medical University, Xuzhou, China; ⁴⁴⁶Department of Pharmaceutical Regulatory Affairs and Management, Manipal Academy of Higher Education, Manipal, India; ⁴⁴⁷School of Humanities and Social Sciences, Chinese Academy of Medical Sciences, Beijing, China; ⁴⁴⁸Department of Radiology and Biomedical Imaging, Yale University, New Haven, CT, USA; ⁴⁴⁹Department of Radiology, Massachusetts General Hospital, Boston, MA, USA; ⁴⁵⁰Lerner Research Institute, Cleveland Clinic, Cleveland, OH, USA; ⁴⁵¹Department of Quantitative Health Science, Case Western Reserve University, Cleveland, OH, USA; ⁴⁵²Department of Molecular Epidemiology, German Institute of Human Nutrition Potsdam-Rehbrücke, Potsdam, Germany; ⁴⁵³German Center for Diabetes Research (DZD), München-Neuherberg, Germany; ⁴⁵⁴Department of Epidemiology and Evidence-Based Medicine, I.M. Sechenov First Moscow State Medical University, Moscow, Russia; ⁴⁵⁵Geospatial Health and Development Team-Child Health Analytics, Telethon Kids Institute, Perth, WA, Australia; ⁴⁵⁶Scientific Research and Surveillance Systems, Macha Research Trust, Choma, Zambia; ⁴⁵⁷School of Medicine, Federal University of Juiz de Fora, Juiz de Fora, Brazil; ⁴⁵⁸Department of Emergency General and Trauma Surgery, NHS University Hospitals of Liverpool Group, Aintree Hospital, Liverpool, UK; ⁴⁵⁹Zhujiang Hospital of Southern Medical University, Southern Medical University, Guangzhou, China; ⁴⁶⁰Department of Medicine, University of Alberta, Edmonton, AB, Canada; ⁴⁶¹Tulane University, New Orleans, LA, USA; ⁴⁶²Center for Global Health, University of Pennsylvania, Philadelphia, PA, USA; ⁴⁶³Associate Laboratory i4HB, University Institute of Health Sciences - CESPU, Gandra, Portugal; ⁴⁶⁴UCIBIO Research Unit on Applied Molecular Biosciences, University Institute of Health Sciences, Gandra, Portugal; ⁴⁶⁵Department of Emergency Medicine, Sri Lakshmi Narayana Institute of Medical Science, Puducherry, Pondicherry, India; ⁴⁶⁶Department of One Health in Tropical Infectiousness Diseases, Jigjiga University, Jigjiga, Ethiopia; ⁴⁶⁷College of Health Science, Amoud University, Borama, Somalia; ⁴⁶⁸Research Center, Cihan University-Sulaimaniya, Sulaymaniyah, Iraq; ⁴⁶⁹Neurology Department, University of Miami, Miami, FL, USA; ⁴⁷⁰Department of Forensic Medicine, Shri Dharmasthala Manjunatheshwara University, Dharwad, India; ⁴⁷¹Rabigh Faculty of Medicine, King Abdulaziz University, Jeddah, Saudi Arabia; ⁴⁷²Corporate Nursing and Midwifery Research Department, Hamad Medical Corporation, Doha, Qatar; ⁴⁷³Research Institute for Medical and Health Science, University of Sharjah, Sharjah, United Arab Emirates; ⁴⁷⁴Faculty of Humanities and Health Sciences, Curtin University, Sarawak, Malaysia; ⁴⁷⁵Jeffrey Cheah School of Medicine and Health Sciences, Monash University, Subang Jaya, Malaysia; ⁴⁷⁶Medical Scientist Training Program, Northwestern University, Chicago, IL, USA; ⁴⁷⁷Department of Anatomy and Developmental Biology, Monash University, Clayton, VIC, Australia; ⁴⁷⁸Department of Anatomy, Genetics and Biomedical Informatics, University of Colombo, Colombo, Sri Lanka; ⁴⁷⁹Department of Maternal-Child Nursing and Public Health, Federal University of Minas Gerais, Belo Horizonte, Brazil; ⁴⁸⁰Department of Prosthetic Dental Sciences, Jazan University, Jazan, Saudi Arabia; ⁴⁸¹Australian Centre for Health Services Innovation, Queensland University of Technology, Kelvin Grove, QLD, Australia; ⁴⁸²Digital Health and Informatics Directorate, Queensland Health, Brisbane, QLD, Australia; ⁴⁸³Division of Pediatric Hospital Medicine, Stanford University, Palo Alto, CA, USA; ⁴⁸⁴Department of Dental Research Cell, Dr. D. Y. Patil University, Pune, India; ⁴⁸⁵Department of Medical Laboratory Sciences, Adigrat University, Adigrat, Ethiopia; ⁴⁸⁶Department of Pathology - Forensic Medicine Division, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia; ⁴⁸⁷International Dx Department, BGI Genomics, Copenhagen, Denmark; ⁴⁸⁸General Administration Department, Helsinki University Hospital, Helsinki, Finland; ⁴⁸⁹School of Health Sciences, University of Melbourne, Melbourne, VIC, Australia; ⁴⁹⁰Comprehensive Cancer Center, Helsinki University Hospital, Helsinki, Finland; ⁴⁹¹University of Helsinki, Helsinki, Finland; ⁴⁹²University Centre Varazdin, University North, Varazdin, Croatia; ⁴⁹³Department of Pharmacology, University of Kelaniya, Ragama, Sri Lanka; ⁴⁹⁴Clinical Medicine Department, Colombo North Teaching Hospital, Ragama, Sri Lanka; ⁴⁹⁵Department of Paediatrics, University of Kelaniya, Ragama, Sri Lanka; ⁴⁹⁶University Paediatrics Unit, Colombo North

Teaching Hospital, Ragama, Sri Lanka; ⁴⁹⁷Department of Public Health Dentistry, Saveetha Institute of Medical and Technical Sciences (SIMATS), Chennai, India; ⁴⁹⁸Global Institute of Public Health, Ananthapuri Hospitals and Research Institute, Trivandrum, India; ⁴⁹⁹Department of Forensic Medicine and Toxicology, All India Institute of Medical Sciences, Patna, India; ⁵⁰⁰Clinical and Health Sciences, University of South Australia, Adelaide, SA, Australia; ⁵⁰¹Department of Surgery, Johns Hopkins University, Baltimore, MD, USA; ⁵⁰²St. Paul's Hospital Millennium Medical College, Addis Ababa, Ethiopia; ⁵⁰³Faculty of Pharmacy Cairo University, Cairo University, Cairo, Egypt; ⁵⁰⁴Department of Global Health & Population, Harvard University, Boston, MA, USA; ⁵⁰⁵College of Applied and Natural Science, University of Hargeisa, Hargeisa, Somalia; ⁵⁰⁶RAK College of Nursing, RAK Medical and Health Sciences University, Ras Alkhima, United Arab Emirates; ⁵⁰⁷Nursing College, Sohag University, Sohag, Egypt; ⁵⁰⁸Molecular Biology Unit, Sirius Training and Research Centre, Khartoum, Sudan; ⁵⁰⁹Bio-Statistical and Molecular Biology Department, Sirius Training and Research Centre, Khartoum, Sudan; ⁵¹⁰Faculty of Medicine, University of Khartoum, Khartoum, Sudan; ⁵¹¹Department of Biophysics, All India Institute of Medical Sciences, New Delhi, India; ⁵¹²Centre For Interdisciplinary Research In Basic Sciences (CIRBSc), Jamia Millia Islamia, New Delhi, India; ⁵¹³Modeling in Health Research Center, Shahrekord University of Medical Sciences, Shahrekord, Iran; ⁵¹⁴Health Systems and Policy Research Unit, Ahmadu Bello University, Zaria, Nigeria; ⁵¹⁵Heidelberg Institute of Global Health (HIGH), Heidelberg University, Heidelberg, Germany; ⁵¹⁶Department of Pharmacology, Dale View College of Pharmacy and Research Centre, Thruvananthapuram, India; ⁵¹⁷School of Health Sciences, University of Petroleum and Energy Studies, Dehradun, India; ⁵¹⁸Department Medical-Surgical Nursing, Golestan University of Medical Sciences, Gorgan, Iran; ⁵¹⁹AI & Cyber Futures Institute, Charles Sturt University, Bathurst, NSW, Australia; ⁵²⁰The University of Queensland, Brisbane, QLD, Australia; ⁵²¹Forensic Medicine Department, Manipal University College Malaysia, Melaka, Malaysia; ⁵²²Department of Applied Social Sciences, Hong Kong Polytechnic University, Kowloon, China; ⁵²³Faculty of Medicine, October 6 University, Giza, Egypt; ⁵²⁴Department of Stem Cells and Developmental Biology, Royan Institute, Tehran, Iran; ⁵²⁵Department of Physical and Environmental Sciences, Texas A&M University, Corpus Christi, TX, USA; ⁵²⁶Shiraz University of Medical Sciences, Shiraz, Iran; ⁵²⁷Antimicrobial Resistance Research Center, Iran University of Medical Sciences, Tehran, Iran; ⁵²⁸Hazrat-e Rasool General Hospital, Iran University of Medical Sciences, Tehran, Iran; ⁵²⁹Unit of Pharmacotherapy, Epidemiology and Economics, University of Groningen (Rijksuniversiteit Groningen), Groningen, Netherlands; ⁵³⁰Department of Epidemiology and Biostatistics, Wuhan University, Wuhan, China; ⁵³¹Knowledge Management Department, Prahlad Omkarwati Foundation (POF), Mumbai, India; ⁵³²Changescape Consulting, Independent Consultant, New Delhi, India; ⁵³³Department of Community and Global Health, The University of Tokyo, Tokyo, Japan; ⁵³⁴Department of Pediatrics & Pediatric Pulmonology, Institute of Mother & Child Care, Multan, Pakistan; ⁵³⁵Operational Research Center in Healthcare, Near East University, Nicosia, Cyprus; ⁵³⁶Department of Research Methods, Orthopaedic Research Group, Coimbatore, India; ⁵³⁷Central Research Laboratory, Meenakshi Medical College Hospital and Research Institute, Chennai, India; ⁵³⁸Department of Technology, The University of Lahore, Lahore, Pakistan; ⁵³⁹Research Centre for Health Sciences (RCHS), The University of Lahore, Lahore, Pakistan; ⁵⁴⁰Research and Analytics Department, Initiative for Financing Health and Human Development, Chennai, India; ⁵⁴¹Department of Research and Analytics, Bioinsilico Technologies, Chennai, India; ⁵⁴²Research Committee, Kermanshah University of Medical Sciences, Kermanshah, Iran; ⁵⁴³Department of Computer Science and IT, Torrens University, Adelaide, SA, Australia; ⁵⁴⁴Department of Medicine, University of British Columbia, Vancouver, BC, Canada; ⁵⁴⁵Faculty of Pharmacy, Hasanuddin University, Makassar, Indonesia; ⁵⁴⁶Department of Health and Rehabilitation Sciences, Prince Sattam bin Abdulaziz University, Al Kharj, Saudi Arabia; ⁵⁴⁷University Institute of Public Health, The University of Lahore, Lahore, Pakistan; ⁵⁴⁸Division of Endocrinology and Diabetes, University of Vermont, South Burlington, VT, USA; ⁵⁴⁹Department of Dental Public Health, King Abdulaziz University, Jeddah, Saudi Arabia; ⁵⁵⁰Xiamen Cardiovascular Hospital of Xiamen University, Fujian Branch of National Clinical Research Center for Cardiovascular Diseases, Xiamen, China; ⁵⁵¹Department of Health Promotion, Zahedan University of Medical Sciences, Zahedan, Iran; ⁵⁵²Department of Public Health, Johns Hopkins University, Baltimore, MD, USA; ⁵⁵³MyungSung Medical College, Addis Ababa, Ethiopia;

⁵⁵⁴Department of General Surgery, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania; ⁵⁵⁵Department of General Surgery, Emergency University Hospital Bucharest, Bucharest, Romania; ⁵⁵⁶School of Nursing, University of Gondar, Gondar, Ethiopia; ⁵⁵⁷College of Medicine and Health Sciences, Bahir Dar University, Bahir Dar, Ethiopia; ⁵⁵⁸Faculty of Public Health, VNU University of Medicine and Pharmacy, Hanoi, Viet Nam; ⁵⁵⁹International Institute for Training and Research (INSTAR), VNU University of Medicine and Pharmacy, Hanoi, Viet Nam; ⁵⁶⁰Department of General Medicine, Pham Ngoc Thach University of Medicine, Ho Chi Minh City, Viet Nam; ⁵⁶¹Faculty of Medicine, Pham Ngoc Thach University of Medicine, Ho Chi Minh City, Viet Nam; ⁵⁶²Faculty of Medicine, Duy Tan University, Da Nang, Viet Nam; ⁵⁶³Tuberculosis Group, Oxford University Clinical Research Unit, Vietnam, Ho Chi Minh City, Viet Nam; ⁵⁶⁴Department of General Medicine, University of Medicine and Pharmacy at Ho Chi Minh City, Ho Chi Minh City, Viet Nam; ⁵⁶⁵Department of Paediatrics, Nnamdi Azikiwe University, Awka, Nigeria; ⁵⁶⁶Department of Physiology, University of Benin, Edo, Nigeria; ⁵⁶⁷Department of Physiology, Benson Idahosa University, Benin City, Nigeria; ⁵⁶⁸Department of Applied Economics and Quantitative Analysis, University of Bucharest, Bucharest, Romania; ⁵⁶⁹Bioinformatics Department, National Institute of Research and Development for Biological Sciences, Bucharest, Romania; ⁵⁷⁰Department of Veterinary Public Health and Preventive Medicine, University of Ibadan, Ibadan, Nigeria; ⁵⁷¹Department of Physiotherapy, The Redeemed Christian Church of God, Ede, Nigeria; ⁵⁷²Health Promotion Research Center, Zahedan University of Medical Sciences, Zahedan, Iran; ⁵⁷³Centre for Social Research in Health, University of New South Wales, Sydney, NSW, Australia; ⁵⁷⁴University of Sydney, Sydney, NSW, Australia; ⁵⁷⁵College of Health Sciences, Bowen University, Iwo, Nigeria; ⁵⁷⁶College of Medicine, University of Ibadan, Ibadan, Nigeria; ⁵⁷⁷Department of Psychiatry and Behavioural Neurosciences, McMaster University, Hamilton, ON, Canada; ⁵⁷⁸Department of Psychiatry, University of Lagos, Lagos, Nigeria; ⁵⁷⁹Department of Community Medicine, Ahmadu Bello University, Zaria, Nigeria; ⁵⁸⁰Institute of Chemistry, Universidade Estadual de Campinas (State University of Campinas), Campinas, Brazil; ⁵⁸¹Department of Computational Biology, Brazilian Agricultural Research Institute (EMBRAPA), Campinas, Brazil; ⁵⁸²Institute of Diagnostic and Interventional Radiology and Neuroradiology, University Hospital Essen, Essen, Germany; ⁵⁸³Department of Neurosurgery, University of California San Francisco, San Francisco, CA, USA; ⁵⁸⁴Department of Biological Sciences, Njala University, Freetown, Sierra Leone; ⁵⁸⁵Faculty of Nursing, Applied Science Private University, Amman, Jordan; ⁵⁸⁶Faculty of Medicine, University Ferhat Abbas of Setif, Setif, Algeria; ⁵⁸⁷Division of Infectious Diseases, University Hospital of Setif, Setif, Algeria; ⁵⁸⁸West African Center for Cell Biology of Infectious Pathogens, University of Ghana, Legon-Accra, Ghana; ⁵⁸⁹Department of Biochemistry and Nutrition, Nigerian Institute of Medical Research, Lagos, Nigeria; ⁵⁹⁰Breast Health and Cancer Research Center, Iran University of Medical Sciences, Tehran, Iran; ⁵⁹¹Health Services Management Training Centre, Semmelweis University, Budapest, Hungary; ⁵⁹²Hungarian Health Management Association, Budapest, Hungary; ⁵⁹³Department of Emergency Medicine, University of Thessaly, Larissa, Greece; ⁵⁹⁴Department of Emergency Medicine, University of Bern, Bern, Switzerland; ⁵⁹⁵Unit of Dermatology, IRCCS Ospedale San Raffaele, Milan, Italy; ⁵⁹⁶Vision and Eye Research Institute, Anglia Ruskin University, Cambridge, UK; ⁵⁹⁷Department of Pharmacology, Manipal Academy of Higher Education, Manipal, India; ⁵⁹⁸School of Nursing, University of British Columbia, Vancouver, BC, Canada; ⁵⁹⁹Department of Medical Sciences, University of Torino, Torino, Italy; ⁶⁰⁰Department of Imaging, AOU Città della Salute e della Scienza di Torino (AOU City of Health and Science of Turin), Torino, Italy; ⁶⁰¹College of Dental Medicine, Roseman University of Health Sciences, South Jordan, UT, USA; ⁶⁰²Department of Genetics, Yale University, New Haven, CT, USA; ⁶⁰³Department of Interventional Cardiology, Cedars Sinai Medical Center, Los Angeles, CA, USA; ⁶⁰⁴Physiology Research Center, Iran University of Medical Sciences, Tehran, Iran; ⁶⁰⁵Department of Physiology, Iran University of Medical Sciences, Tehran, Iran; ⁶⁰⁶International Institute for Educational Planning (IIEP), Albert Einstein Hospital, São Paulo, Brazil; ⁶⁰⁷School of Pharmacy, University of Nizwa, Nizwa, Oman; ⁶⁰⁸International Center of Medical Sciences Research, Islamabad, Pakistan; ⁶⁰⁹Riphah International University, Islamabad, Pakistan; ⁶¹⁰Department of Promoting Health, Maternal-Infant, Excellence and Internal and Specialized Medicine (PROMISE) G. D'Alessandro, University of Palermo, Palermo, Italy; ⁶¹¹Mental Health Research Institute, Tomsk National Research Medical Center, Tomsk, Russia; ⁶¹²Siberian State Medical University,

Tomsk, Russia; ⁶¹³Department of Ortopedics and Traumatology, University of Tampere, Tampere, Finland; ⁶¹⁴School of Medicine, Urmia University of Medical Sciences, Urmia, Iran; ⁶¹⁵Drug Applied Research Center, Tabriz University of Medical Sciences, Tabriz, Iran; ⁶¹⁶Department of Physiology and Biomedical Engineering, Mayo Clinic, Rochester, MN, USA; ⁶¹⁷Department of Occupational Health and Safety Engineering, Ardabil University of Medical Science, Ardabil, Iran; ⁶¹⁸Digestive Diseases Research Institute, Tehran University of Medical Sciences, Tehran, Iran; ⁶¹⁹Department of Medical Instrumentation Techniques Engineering, Al-Rafidain University College, Baghdad, Iraq; ⁶²⁰Department of Cybersecurity, Kyiv National University of Construction and Architecture, Kyiv, Ukraine; ⁶²¹Department of Neonatology, Case Western Reserve University, Akron, OH, USA; ⁶²²Rory Meyers College of Nursing, New York University, New York, NY, USA; ⁶²³Guangdong Cardiovascular Institute, Guangdong Provincial People's Hospital, Guangdong Academy of Medical Sciences, Guangzhou, China; ⁶²⁴Department of Respiratory and Critical Care Medicine, The First Affiliated Hospital, and College of Clinical Medicine of Henan University of Science and Technology, Luoyang, China; ⁶²⁵Department of Medical Oncology, Cancer Institute (W.I.A), Chennai, India; ⁶²⁶Division of Psychology and Mental Health, University of Manchester, Manchester, UK; ⁶²⁷Department of Community Medicine and Family Medicine, All India Institute of Medical Sciences, Jodhpur, India; ⁶²⁸Department of Medical Biology, Kocaeli University, Izmit, Türkiye; ⁶²⁹College of Health Sciences, Cihan University-Sulaimaniya, Sulaymaniyah, Iraq; ⁶³⁰Department of Biology, College of Science, University of Sulaimani, Sulaymaniyah, Iraq; ⁶³¹College of Medicine and Health Sciences, National University of Science and Technology, Sohar, Oman; ⁶³²Department of Population Science and Human Resource Development, University of Rajshahi, Rajshahi, Bangladesh; ⁶³³Institute of Health and Wellbeing, Federation University Australia, Berwick, VIC, Australia; ⁶³⁴Department of Cardiology, Dow University of Health Sciences, Karachi, Pakistan; ⁶³⁵Department of Cardiology, Mansoura University, Mansoura, Egypt; ⁶³⁶Department of Radiology, Stanford University, Stanford, CA, USA; ⁶³⁷School of Nursing & Health Sciences, Hong Kong Metropolitan University, Hong Kong, China; ⁶³⁸Saw Swee Hock School of Public Health, National University of Singapore, Singapore; ⁶³⁹Centre for Clinical Pharmacology, University of Defence in Belgrade, Belgrade, Serbia; ⁶⁴⁰Medical Faculty of Military Medical Academy, University of Defence, Belgrade, Serbia; ⁶⁴¹Department of Family Medicine, Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka; ⁶⁴²WHO Collaborating Centre for Public Health Education and Training, Imperial College London, London, UK; ⁶⁴³Inovus Medical, St Helens, UK; ⁶⁴⁴Department of Primary Care and Public Health, Imperial College London, London, UK; ⁶⁴⁵Academic Public Health England, Public Health England, London, UK; ⁶⁴⁶School of Medicine, Western Sydney University, Campbelltown, NSW, Australia; ⁶⁴⁷Translational Health Research Institute, Western Sydney University, Campbelltown, NSW, Australia; ⁶⁴⁸School of Environment, Tehran University, Tehran, Iran; ⁶⁴⁹Department of Epidemiology and Biostatistics, Rafsanjan University of Medical Sciences, Rafsanjan, Iran; ⁶⁵⁰Department of Public Health, Masaryk University, Brno, Czech Republic; ⁶⁵¹Faculty of Medicine, University of Porto, Porto, Portugal; ⁶⁵²Department of Pharmacology and Toxicology, University of Antioquia, Medellin, Colombia; ⁶⁵³Warwick Medical School, University of Warwick, Coventry, UK; ⁶⁵⁴Department of Clinical Research, University of São Paulo, Ribeirão Preto, Brazil; ⁶⁵⁵Gilbert and Rose-Marie Chagoury School of Medicine, Lebanese American University, Beirut, Lebanon; ⁶⁵⁶Miyan Research Institute, International University of Business Agriculture and Technology, Dhaka, Bangladesh; ⁶⁵⁷Department of Analytical and Applied Economics, Utkal University, Bhubaneswar, India; ⁶⁵⁸RUSA Centre of Excellence in Public Policy and Governance, Utkal University, Bhubaneswar, India; ⁶⁵⁹Department of Oral and Maxillofacial Surgery, Jagadguru Sri Shivarathreeswara University, Mysore, India; ⁶⁶⁰Cardiovascular Department, Zagazig University, Zagazig, Egypt; ⁶⁶¹Department of Medicine, Georgetown University, Washington, DC, USA; ⁶⁶²Department of Biology, University of Hail, Hail, Saudi Arabia; ⁶⁶³Széchenyi István University, Győr, Hungary; ⁶⁶⁴Operational Research Center in Healthcare, Near East University, Cyprus, Türkiye; ⁶⁶⁵Department of Health, Shahid Beheshti University of Medical Sciences, Tehran, Iran; ⁶⁶⁶Safety Promotion and Injury Prevention Research Center - Research Institute for Health Sciences and Environment, Shahid Beheshti University of Medical Sciences, Tehran, Iran; ⁶⁶⁷Department of Microbiology, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran; ⁶⁶⁸Department of Oral and Maxillofacial Surgery, University College Hospital, Ibadan, Ibadan, Nigeria;

⁶⁶⁹Faculty of Dentistry, University of Puthisastra, Phnom Penh, Cambodia; ⁶⁷⁰Department of Pharmacy Practice, Qassim University, Buraydah, Saudi Arabia; ⁶⁷¹Faculty of Pharmacy, Mansoura University, Mansoura, Egypt; ⁶⁷²Department of Psychiatric and Mental Health, and Community Health, Qassim University, Buraydah, Saudi Arabia; ⁶⁷³Institute of Epidemiology and Preventive Medicine, National Taiwan University, Taipei, Taiwan; ⁶⁷⁴Benang Merah Research Center, Benang Merah Research Center (BMRC), Minahasa Utara, Indonesia; ⁶⁷⁵Department of Entomology, Ain Shams University, Cairo, Egypt; ⁶⁷⁶Medical Ain Shams Research Institute (MASRI), Ain Shams University, Cairo, Egypt; ⁶⁷⁷School of Public Health and Health Management, University of Belgrade, Belgrade, Serbia; ⁶⁷⁸Department of Pharmacology, All India Institute of Medical Sciences, Jodhpur, India; ⁶⁷⁹Indira Gandhi Medical College and Research Institute, Puducherry, India; ⁶⁸⁰Faculty of Science, Queensland University of Technology, Brisbane, QLD, Australia; ⁶⁸¹Health Sciences Research Center, Torbat Heydariyeh University of Medical Sciences, Torbat Heydariyeh, Iran; ⁶⁸²Department of Oral Pathology and Microbiology, Dr. D. Y. Patil Vidyapeeth, Pune (Deemed to be University), Pune, India; ⁶⁸³Department of Geriatric and Long Term Care, Hamad Medical Corporation, Doha, Qatar; ⁶⁸⁴Faculty of Health & Social Sciences, Bournemouth University, Bournemouth, UK; ⁶⁸⁵Department of Epidemiology, National Institute for Research in Tuberculosis, Chennai, India; ⁶⁸⁶UGC Centre of Advanced Study in Psychology, Utkal University, Bhubaneswar, India; ⁶⁸⁷Udyam-Global Association for Sustainable Development, Bhubaneswar, India; ⁶⁸⁸Department of Public Health Sciences, University of North Carolina at Charlotte, Charlotte, NC, USA; ⁶⁸⁹Faculty of Business and Computing, University of the Fraser Valley, Abbotsford, BC, Canada; ⁶⁹⁰Graduate School of Business, ESAN University, Lima, Peru; ⁶⁹¹Research Institute of Medical & Health Sciences, University of Sharjah, Sharjah, United Arab Emirates; ⁶⁹²Department of Biomedical Sciences, Gulf Medical University, Ajman, United Arab Emirates; ⁶⁹³Emergency Department, Manian Medical Centre, Erode, India; ⁶⁹⁴Department of Medicine, Swami Vivekanand Subharti University, Meerut, India; ⁶⁹⁵National Heart, Lung, and Blood Institute, National Institutes of Health, Rockville, MD, USA; ⁶⁹⁶Center for Medical and Bio-Allied Health Sciences Research, Ajman University, Ajman, United Arab Emirates; ⁶⁹⁷Independent Consultant, Karachi, Pakistan; ⁶⁹⁸Science Department, Kazakh National Medical University, Almaty, Kazakhstan; ⁶⁹⁹Lancaster University, Lancaster, UK; ⁷⁰⁰Columbia University, New York, NY, USA; ⁷⁰¹Department for Evidence-based Medicine and Evaluation, University for Continuing Education Krems, Krems, Austria; ⁷⁰²Universidad Espíritu Santo, Samborondón, Ecuador; ⁷⁰³Kasturba Medical College, Manipal, Manipal Academy of Higher Education, Manipal, India; ⁷⁰⁴Department of Physiology, Pharmacology, and Toxicology, An-Najah National University, Nablus, Palestine; ⁷⁰⁵Department of Health in Disasters and Emergencies, Shahrekord University of Medical Sciences, Shahrekord, Iran; ⁷⁰⁶Department of Biology, Morgan State University, Baltimore, MD, USA; ⁷⁰⁷Department of Environmental Health Sciences, Tulane University, New Orleans, LA, USA; ⁷⁰⁸Department of Forensic Medicine and Toxicology, Manipal Academy of Higher Education, Mangalore, India; ⁷⁰⁹Manipal College of Dental Sciences, Mangalore, Manipal Academy of Higher Education, Manipal, India; ⁷¹⁰Department of Public Health, Daffodil International University, Dhaka, Bangladesh; ⁷¹¹Department of Surgery, Bahir Dar University, Bahir Dar, Ethiopia; ⁷¹²Department of Veterinary Public Health and Preventive Medicine, Usmanu Danfodiyo University, Sokoto, Sokoto, Nigeria; ⁷¹³Center for Technology and Innovation in Cardiovascular Informatics, Iran University of Medical Sciences, Tehran, Iran; ⁷¹⁴Department of Research and Academics, Kathmandu Cancer Center, Bhaktapur, Nepal; ⁷¹⁵Person-Centered Research, Monash University, Box Hill, VIC, Australia; ⁷¹⁶Unit of Basic Medical Sciences, University of Khartoum, Khartoum, Sudan; ⁷¹⁷Department of Medical Microbiology and Infectious Diseases, Erasmus University, Rotterdam, Netherlands; ⁷¹⁸Quaid-e-Azam Medical College, University of Health Sciences, Bahawalpur, Pakistan; ⁷¹⁹Department of Biochemistry, Central University of Punjab, Bathinda, India; ⁷²⁰Department of Pharmacology, Government Medical College and Hospital, Chandigarh, India; ⁷²¹Department of Human Genetics, Punjabi University Patiala, Patiala, India; ⁷²²Books Committee, Royal College of Psychiatrists, London, UK; ⁷²³Department of Infectious Diseases and Epidemiology, Pirogov Russian National Research Medical University, Moscow, Russia; ⁷²⁴School of Medicine, Keele University, Stoke-On-Trent, UK; ⁷²⁵University Hospitals North Midlands, Stoke-on-Trent, UK; ⁷²⁶Independent Consultant, New Delhi, India; ⁷²⁷School of Medicine, Babol University of Medical Sciences, Babol, Iran; ⁷²⁸3rd Department of Cardiology,

University of Athens, Athens, Greece; ⁷²⁹Department of Neurology, University of Massachusetts Medical School, Worcester, MA, USA; ⁷³⁰JIPMER International School of Public Health, Jawaharlal Institute of Postgraduate Medical Education and Research, Pondicherry, India; ⁷³¹Department of Pharmacy, University of Washington, Seattle, WA, USA; ⁷³²Department of Orthopaedics, Massachusetts General Hospital, Boston, MA, USA; ⁷³³Department of Orthopaedics, Harvard University, Cambridge, MA, USA; ⁷³⁴Saveetha Dental College and Hospital, Saveetha Institute of Medical and Technical Sciences, Saveetha University, Chennai, India; ⁷³⁵Department of Medical Sciences, Sunway University, Subang Jaya, Malaysia; ⁷³⁶Department of Clinical Research and Development, LUXMED Group, Warsaw, Poland; ⁷³⁷Collegium Medicum, John Paul II Catholic University of Lublin, Lublin, Poland; ⁷³⁸Department of Medicine, Harvard University, Boston, MA, USA; ⁷³⁹Neurology Department, Shahid Beheshti University of Medical Sciences, Tehran, Iran; ⁷⁴⁰Saveetha Medical College and Hospital, Saveetha Institute of Medical and Technical Sciences (SIMATS), Chennai, India; ⁷⁴¹Living Systems Institute, University of Exeter, Exeter, UK; ⁷⁴²Department of Pharmacology and Therapeutics, The University of Faisalabad, Faisalabad, Pakistan; ⁷⁴³Patient Safety Research Fellow, Department of Metabolism and Systems Science, University of Birmingham, Birmingham, UK; ⁷⁴⁴Basic Sciences in Infectious Diseases Research Center, Shiraz University of Medical Sciences, Shiraz, Iran; ⁷⁴⁵Institute of General Practice and Interprofessional Care, University Hospital Tübingen, Tübingen, Germany; ⁷⁴⁶Robert Bosch Center for Integrative Medicine and Health, Bosch Health Campus, Stuttgart, Germany; ⁷⁴⁷Pediatric Intensive Care Unit, King Saud University, Riyadh, Saudi Arabia; ⁷⁴⁸Faculty of Medical Laboratory Sciences, Mekelle University, Mekelle, Ethiopia; ⁷⁴⁹School of Public Health, University of Texas, Houston, TX, USA; ⁷⁵⁰Department of Radiology, Kaduna State University, Kaduna, Nigeria; ⁷⁵¹Faculty of Public Health, Universitas Sam Ratulangi (Sam Ratulangi University), Manado, Indonesia; ⁷⁵²Department of Allied Health and Human Performance, University of South Australia, Adelaide, SA, Australia; ⁷⁵³Public Health Department, Debre Markos University, Debre Markos, Ethiopia; ⁷⁵⁴Department of Prosthetic Dentistry, Kazakh National Medical University, Almaty, Kazakhstan; ⁷⁵⁵Department of Biochemistry, All India Institute of Medical Sciences, Jodhpur, India; ⁷⁵⁶Saveetha Dental College and Hospitals, Saveetha University, Chennai, India; ⁷⁵⁷Department of Medicine, Pham Ngoc Thach University of Medicine, Ho Chi Minh City, Viet Nam; ⁷⁵⁸John T. Milliken Department of Medicine, Washington University in St. Louis, Saint Louis, MO, USA; ⁷⁵⁹Research and Advocacy Initiative, ALS Vietnam, Quang Ngai, Viet Nam; ⁷⁶⁰Department of Clinical and Experimental Medicine, University of Pisa, Pisa, Italy; ⁷⁶¹Department of Psychiatry, Dalhousie University, Halifax, NS, Canada; ⁷⁶²Department of Biosciences and Biotechnology, University of Medical Sciences, Ondo, Ondo, Nigeria; ⁷⁶³Hayatabad Medical Complex, Postgraduate Medical Institute, Peshawar, Pakistan; ⁷⁶⁴Department of Human Anatomy, Federal University Dutse, Dutse, Nigeria; ⁷⁶⁵Department of Physiotherapy, Federal Ministry of Health, Azare, Nigeria; ⁷⁶⁶Federal University of Health Sciences Teaching Hospital Azare, Azare, Nigeria; ⁷⁶⁷Amity Institute of Biotechnology, Amity University Rajasthan, Jaipur, India; ⁷⁶⁸Department of Physiotherapy, Bayero University, Kano, Nigeria; ⁷⁶⁹Department of Rehabilitation Sciences, Hong Kong Polytechnic University, Hong Kong, China; ⁷⁷⁰Department of Orthodontics, University of Trakya, Edirne, Türkiye; ⁷⁷¹College of Health and Sport Sciences, University of Bahrain, Zallaq, Bahrain; ⁷⁷²Department of Zoology, Central University of Punjab, Bathinda, India; ⁷⁷³Department of Human Genetics & Molecular Biology, Bharathiar University, Coimbatore, India; ⁷⁷⁴School of Life Course and Population Sciences, King's College London, London, UK; ⁷⁷⁵Department of Orthopaedics, General Hospital of Central Theater Command, Wuhan, China; ⁷⁷⁶Fourth Military Medical University, Xi'an, China; ⁷⁷⁷Department of Medical Surgical Nursing, Gadjah Mada University, Yogyakarta, Indonesia; ⁷⁷⁸Department of Community Medicine, Rajarata University of Sri Lanka, Anuradhapura, Sri Lanka; ⁷⁷⁹Department of Clinical Neurosciences, University of Calgary, Calgary, AB, Canada; ⁷⁸⁰Department of Community Health Sciences, University of Calgary, Calgary, AB, Canada; ⁷⁸¹Department of Research, Cancer Registry of Norway, Oslo, Norway; ⁷⁸²Department of Chemical Toxicology, Norwegian Institute of Public Health, Oslo, Norway; ⁷⁸³Division of Gastroenterology, Huazhong University of Science and Technology, Wuhan, China; ⁷⁸⁴Department of Intelligent Medical Engineering, Anhui Medical University, Anhui, China; ⁷⁸⁵Department of Surgery, The First Affiliated Hospital of Anhui Medical University, Hefei, Anhui, China; ⁷⁸⁶Trauma Research Center, Shiraz University of Medical Sciences, Shiraz, Iran;

⁷⁸⁷Department of Public Health Administration, Linyi People's Hospital, Linyi, China; ⁷⁸⁸Manipal College of Nursing, Manipal Academy of Higher Education, Udupi, India; ⁷⁸⁹Department of Epidemiology, Xuzhou Medical University, Xuzhou, China; ⁷⁹⁰Department of Pharmacy, Bahir Dar University, Bahir Dar, Ethiopia; ⁷⁹¹Department of Biostatistics, University of Toyama, Toyama, Japan; ⁷⁹²Department of Public Health, Juntendo University, Tokyo, Japan; ⁷⁹³Cancer Institute, Hacettepe University, Ankara, Türkiye; ⁷⁹⁴Sant'Elia Hospital, University of Catania, Caltanissetta, Italy; ⁷⁹⁵Department of Bioengineering and Therapeutical Sciences, University of California San Francisco, San Francisco, CA, USA; ⁷⁹⁶Department of Administration, PGxAI, San Francisco, CA, USA; ⁷⁹⁷Department of Clinical Practice, Northern Border University, Rafha, Saudi Arabia; ⁷⁹⁸Department of Public Health, University of Hail, Hail, Saudi Arabia; ⁷⁹⁹Department of Zoology and Entomology, Al-Azhar University, Cairo, Egypt; ⁸⁰⁰Institute of Diagnostic and Interventional Radiology and Neuroradiology, University of Duisburg-Essen, Essen, Germany; ⁸⁰¹Department of Internal Medicine, Jacobi Medical Center, Bronx, NY, USA; ⁸⁰²Department of Internal Medicine, Albert Einstein College of Medicine, Bronx, NY, USA; ⁸⁰³Department of Health Management, Shengjing Hospital of China Medical University, Shenyang, China; ⁸⁰⁴Jockey Club School of Public Health and Primary Care, The Chinese University of Hong Kong, Hong Kong, China; ⁸⁰⁵Atchabarov Scientific-Research Institute of Fundamental and Applied Medicine, Kazakh National Medical University, Almaty, Kazakhstan; ⁸⁰⁶Clinical Research Centre, An-Najah National University Hospital, Nablus, Palestine; ⁸⁰⁷Department of Pediatrics, Yonsei University, Seoul, South Korea; ⁸⁰⁸Department of Pediatrics, Kyung Hee University, Seoul, South Korea; ⁸⁰⁹Faculty of Science and Engineering, Anglia Ruskin University, Cambridge, UK.