

Supplementary file

Table S1. Primary cause of death distribution in patients who deceased throughout 2-years follow-up by baseline anticoagulation and reason anticoagulation was not used.

Cause of death	Patients on OAC (N = 2180 deaths)	Patients not on OAC	
		Patient refusal to take anticoagulants (N = 44 deaths)	Other reason for not taking anticoagulants (N = 707 deaths)
Primary cause of death			
Cardiovascular	786 (36.1)	20 (45.5)	245 (34.7)
Non-cardiovascular	805 (36.9)	15 (34.1)	313 (44.3)
Unknown primary cause	589 (27.0)	9 (20.4)	149 (21.1)

Table S2. List of potential predictors for the OAC refusal models

<p>Demographics</p> <ul style="list-style-type: none">• Sex• Age• Ethnicity• Country of enrolment (only for Model 2) <p>Medical and Cardiovascular History</p> <ul style="list-style-type: none">• Hypertension• Diabetes• Moderate to severe CKD• History of bleeding• Heart failure• Acute coronary syndromes• Carotid occlusive disease• Venous thromboembolism• Vascular disease• Prior stroke/TIA/SE• Hypercholesterolemia• Cirrhosis• Hyperthyroidism• Hypothyroidism• Dementia	<p>Lifestyle factors</p> <ul style="list-style-type: none">• Current smoking• Heavy alcohol consumption <p>Vital signs</p> <ul style="list-style-type: none">• BMI (kg/m²)• Pulse (bpm)• Systolic blood pressure (mmHG)• Diastolic blood pressure (mmHG) <p>Atrial fibrillation diagnosis</p> <ul style="list-style-type: none">• Type of atrial fibrillation <p>Care setting at diagnosis</p> <ul style="list-style-type: none">• Care setting specialty• Care setting location
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Table S3. Wald Chi-square – degrees of freedom (DF) for components of the OAC refusal model

Model components	Wald chi-square – DF	
	Model 1	Model 2
Country of enrolment	-	889
Type of AF	58	94
Care setting specialty	116	27
Pulse	34	14
VTE	11	13
Prior bleeding	7	13
Care setting location	32	8
Diastolic blood pressure	15	8
Prior stroke/TIA/SE	4	6
Vascular disease	100	4
Systolic blood pressure	5	-
Age at AF diagnosis	17	-
Ethnicity	99	-
<i>C-statistic (95% CI)</i>	<i>0.70 (0.68-0.71)</i>	<i>0.82 (0.81-0.84)</i>

Table S4. Missingness proportion for selected variables in the study population

Variable	N (%)
Country	0 (0.0)
Cohort	0 (0.0)
Sex	0 (0.0)
Race/ethnicity	854 (2.2)
Type of AF	0 (0.0)
Care setting location	0 (0.0)
Care setting specialty	0 (0.0)
Heart failure	0 (0.0)
Vascular disease	180 (0.5)
ACS	151 (0.4)
Carotid occlusive disease	293 (0.8)
Prior stroke/TIA/SE	0 (0.0)
Prior bleeding	55 (0.1)
VTE	58 (0.1)
Hypertension	18 (0.05)
Hypercholesterolaemia	1014 (2.7)
Diabetes	0 (0.0)
Cirrhosis	431 (1.3)
CKD	4086 (10.7)
Dementia	125 (0.3)
Hyperthyroidism	595 (1.6)
Hypothyroidism	604 (1.6)
Alcohol consumption	5566 (14.6)
Smoking status	3133 (8.2)
Antiplatelet therapy	0 (0.0)
Age	0 (0.0)
SBP	2269 (6.0)
DBP	2269 (6.0)
Pulse	2550 (6.7)

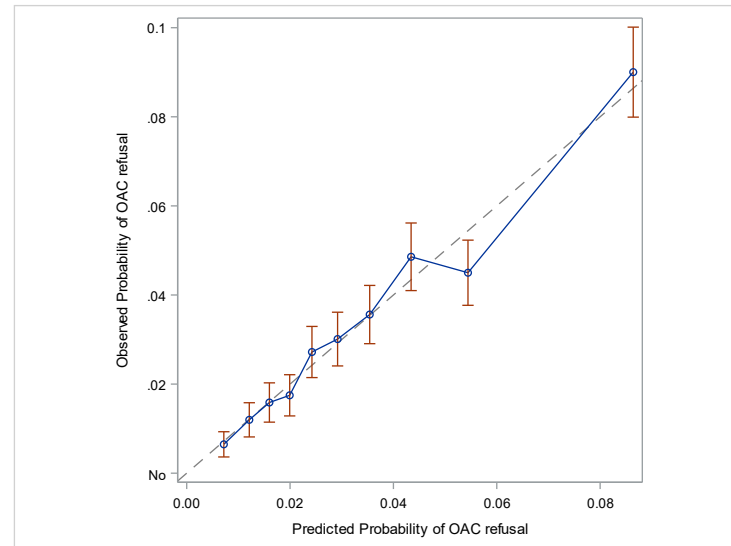
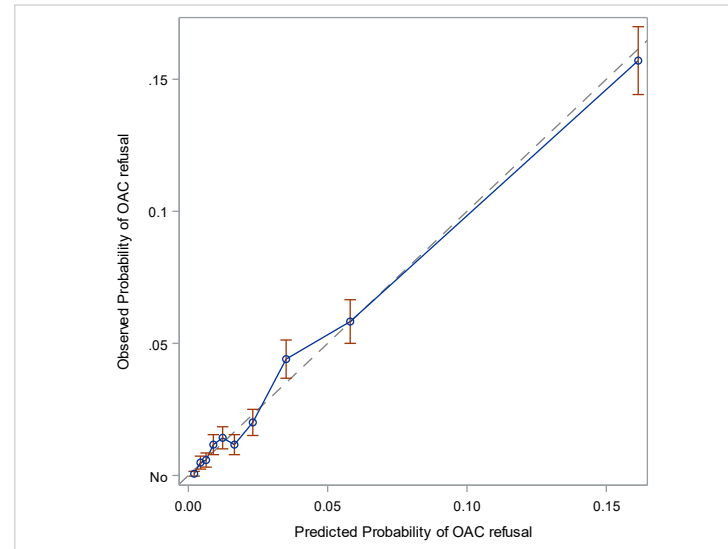
Figure S1. Calibration plots for OAC refusal model 1 (a) and model 2 (b)**(a) Model 1****(b) Model 2**

Figure S2. Balance of variables associated with OAC refusal (ref.: OAC-treated) at baseline before and after propensity score weighting

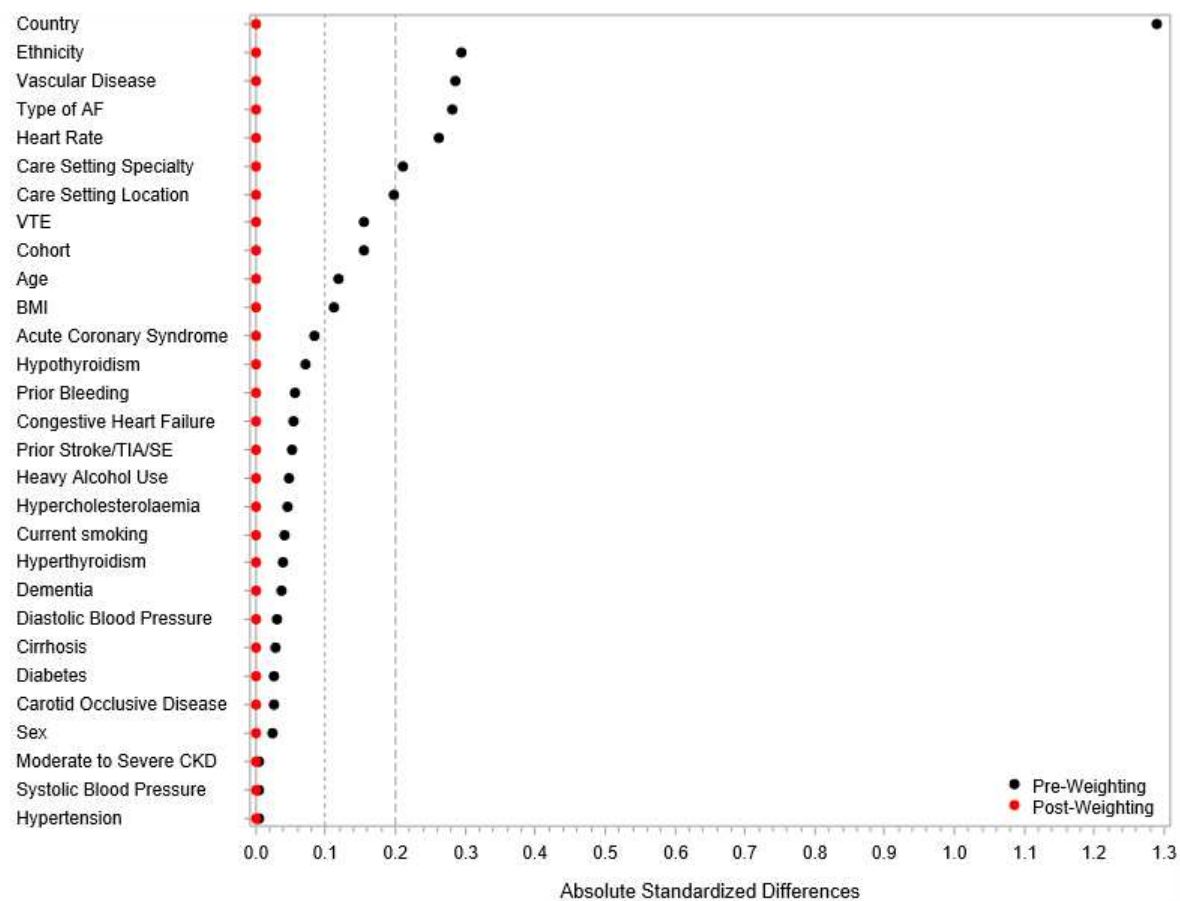


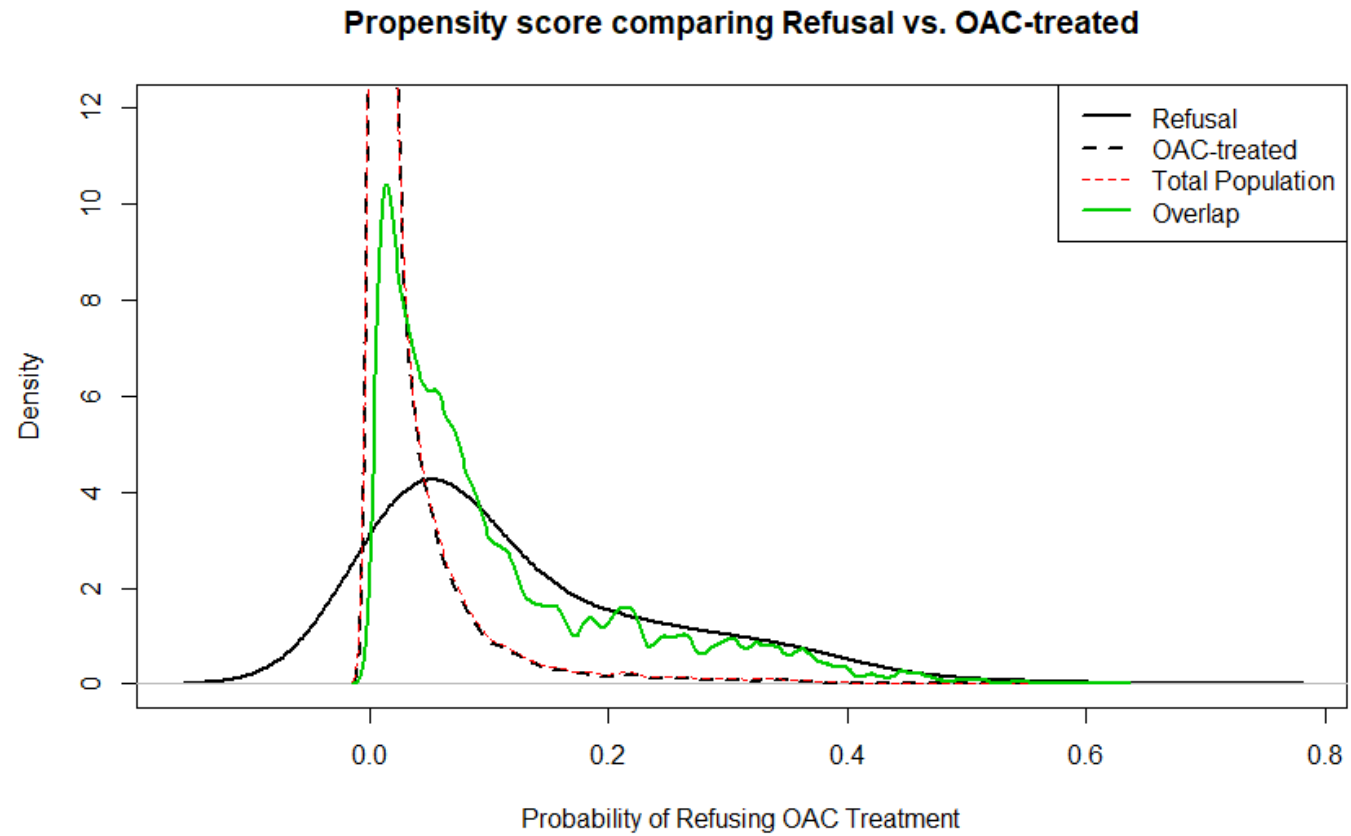
Figure S3. Propensity score comparing OAC refusal vs OAC-treated

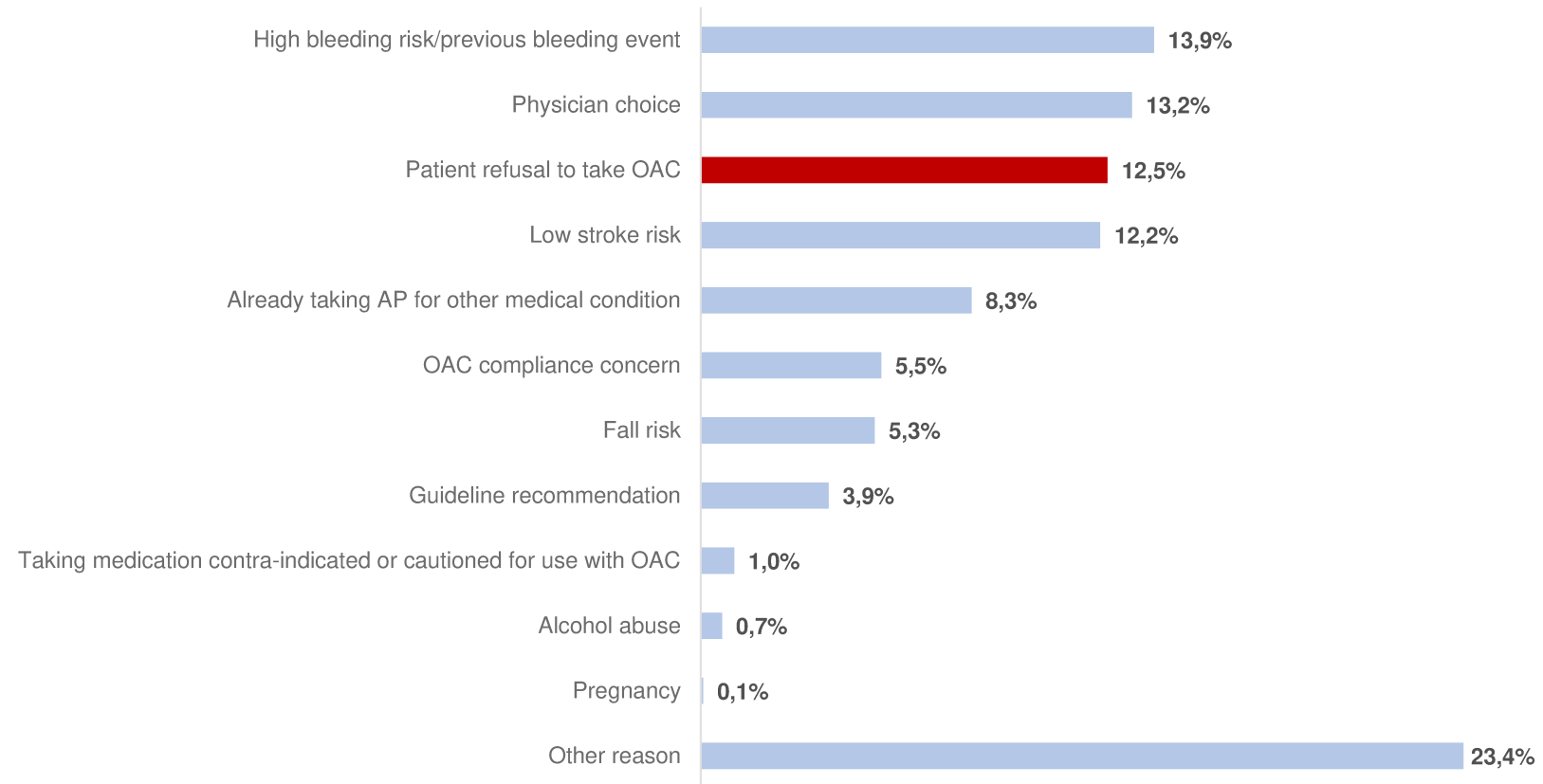
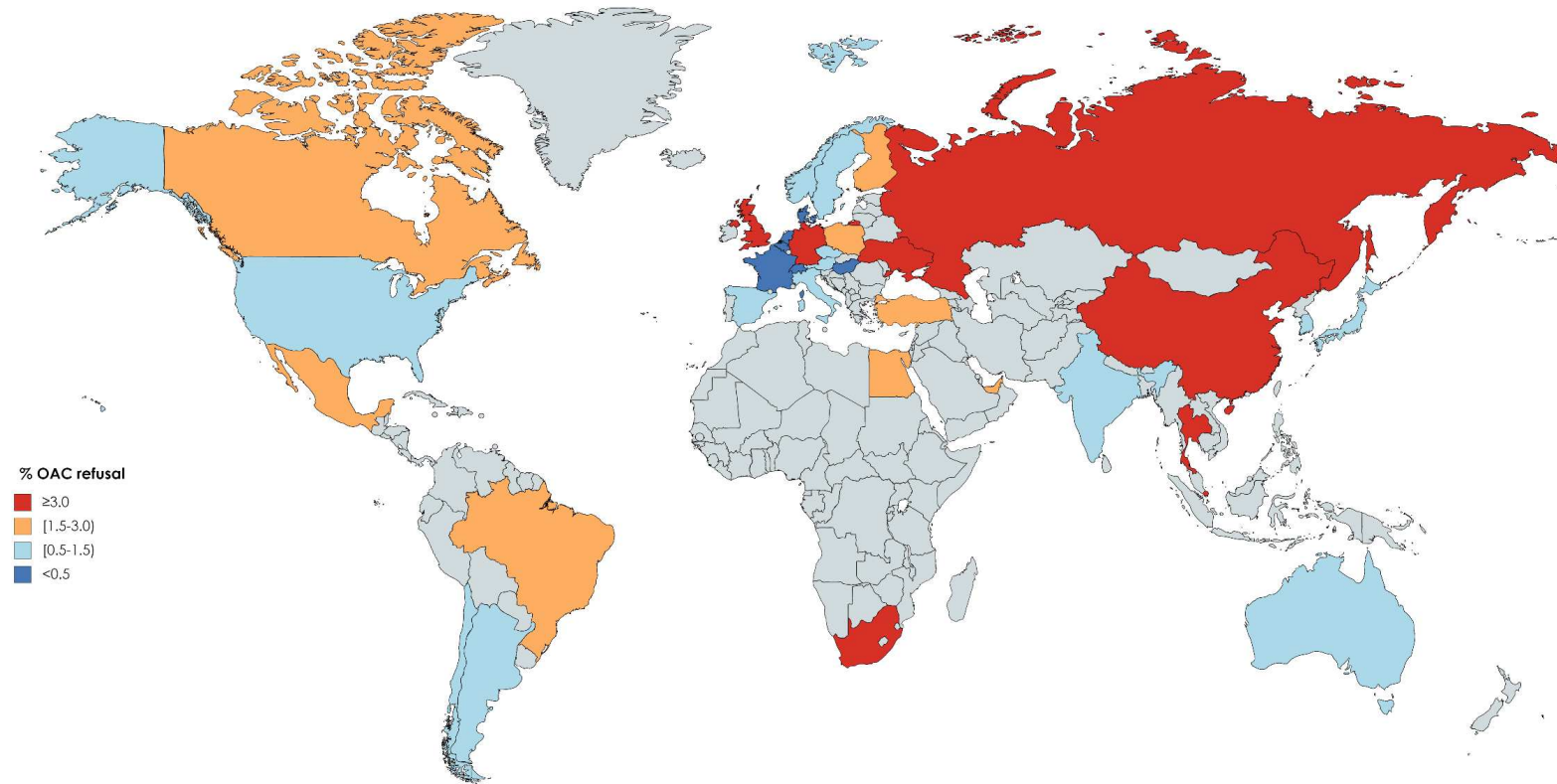
Figure S4. Distribution of reason for not taking anticoagulants among patients with available reason

Figure S5. Distribution of patients who refused anticoagulation in the whole study population¹ by country



¹% OAC refusal is the number of patients who refused OAC divided by the total number of patients (on and off OAC at baseline), in each country.
OAC = anticoagulation

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Hugo ten Cate, J.H. Ruiter, Andreas Lucassen, Henk Adriaansen, Maarten Bongaerts, Mathijs Pieterse, Coen van Guldener, Johannes Herrman, S.H.K. P.R. Nierop, Pieter Hoogslag, Walter Hermans, B.E. Groenemeijer, W. Terpstra, Cees Buiks, L.V.A. Boersma.

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Poland

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Spain

Xavier Vinolas, Pere Alvarez Garcia, Maria Fernanda Lopez Fernandez, Luis Tercedor Sanchez, Salvador Tranche Iparraguirre, Pere Toran Monserrat, Emilio Marquez Contreras, Jordi Isart Rafecas, Juan Motero Carrasco, Pablo Garcia Pavia, Casimiro Gomez Pajuelo, Luis Miguel Rincon Diaz, Luis Fernando Iglesias Alonso, Angel Grande Ruiz, Jordi Merce Klein, Jose Ramon Gonzalez Juanatey, Ines Monte Collado, Herminia Palacin Piquero, Carles Brotons Cuixart, Esther Fernandez Escobar, Joan Bayo i Llibre, Cecilia Corros Vicente, Manuel Vida Gutierrez, Francisco Epelde Gonzalo, Carlos Alexandre Almeida Fernandez, Encarnacion Martinez Navarro, Jordi Isart Rafecas, Juan Jose Montero Alia, Maria Barreda Gonzalez, Maria Angels Moleiro Oliva, Jose Iglesias Sanmartin, Mercedes Jimenez Gonzalez, Maria del Mar Rodriguez Alvarez, Juan Herreros Melenchon, Tomas Ripoll Vera, Manuel Jimenez Navarro, Maria Vazquez Caamano, Maria Fe Arcocha Torres, Gonzalo Marcos Gomez, Andres Iniguez Romo, Miguel Angel Prieto Diaz.

Sweden

Mårten Rosenqvist, Alexander Wirdby, Centrumkliniken, Jan Lindén, Kerstin Henriksson, Micael Elmersson, Arnor Egilsson, Ulf Börjesson, Gunnar Svärd, Bo Liu, Anders Lindh, Lars-Bertil Olsson, Mikael Gustavsson, Lars Andersson, Lars Benson, Claes Bothin, Ali Hajimirsadeghi, Björn Martinsson, Marianne Ericsson, Åke Ohlsson, Håkan Lindvall, Peter Svensson, Katarina Thörne, Hans Händel, Pyotr Platonov, Fredrik Bernsten, Ingar Timberg, Milita Crisby, Jan-Erik Karlsson, Agneta Andersson, Lennart Malmqvist, Johan Engdahl, Jörgen Thulin, Aida Hot-Bjelak, Steen Jensen, Per Stalby.

Switzerland

Jan Steffel, Johann Debrunner, Juerg H. Beer, Dipen Shah.

Ukraine

Iurii Rudyk, Vira Tseluyko, Oleksandr Karpenko, Svitlana Zhurba, Igor Kraiz, Oleksandr Parkhomenko, Iryna Kupnovytska, Nestor Seredyuk, Yuriy Mostovoy, Oleksiy Ushakov, Olena Koval, Igor Kovalskiy, Yevgeniya Svyshchenko, Oleg Sychov, Mykola Stanislavchuk, Andriy Yagensky, Susanna Tykhonova, Ivan Fushthey.

United Kingdom

Will Murdoch, Naresh Chauhan, Daryl Goodwin, Louise Lumley, Ramila Patel, Philip Saunders, Bennett Wong, Alex Cameron, Philip Saunders, Niranjana Patel, P Jhittay, Andrew Ross, M S Kainth, Karim Ladha, Kevin Douglas, Gill Pickavance, Joanna McDonnell, Laura Handscombe, Trevor Gooding, Helga Wagner, Cumberlidge, Colin Bradshaw, Catherine Bromham, Kevin Jones, Shoeb Suryani, Richard Coates, Bhupinder Sarai, W Willcock, S Sircar, John Cairns, A Gilliland, Roman Bilas, E Strieder, Peter Hutchinson, Anne Wakeman, Michael Stokes, Graham Kirby, Bhaskar Vishwanathan, Nigel Bird, Paul Evans, M Clark, John Bisatt, Jennifer Litchfield, E Fisher, Tim Fooks, Richard Kelsall, Neil Paul, Elizabeth Alborough, Michael Aziz, C Ramesh, Pete Wilson, Simon Franklin, Sue Fairhead, Julian Thompson, Hasan Chowan, Gary Taylor, Dawn Tragen, Matt Parfitt, Claire Seemark, Carolyn Paul, Mark Richardson, Angus Jefferies, Helen Sharp, Hywel Jones, Claire Giles, Matthew Bramley, Philip Williams, Jehad Aldegather, Simon Wetherell, William Lumb, Phil Evans, Frances Scouller, Neil Macey, Stephen Rogers, Yvette Stipp, Richard West, Philip Pinney, Paul Wadson, John Matthews, Preeti Pandya, Andrew Gallagher, T Railton, Emyr Davies, Jonathan McClure, Marc Jacobs, Claire Hutton, R Thompson, Bijoy Sinha, Keith Butter, Susan Barrow, Helen Little, David Russell, Ulka Choudhary, Ikram Haq, Paul Ainsworth, Claire Jones, Phil Weeks, Jane Eden, Lisa Gibbons, Janet Glencross, Alison MacLeod, K Poland, Conor Mulolland, A Warke, Paul Conn, D Burns, R Smith, R Kamath, Jonathan Webster, Ian Hodgins, Stephen Vercoe, Paul Roome, Hilary Pinnock, Jayesh Patel, Amar Ali, Nigel Hart, Richard Davies, Nigel De-Sousa, Catherine Neden, Mark Danielsen, Purnima Sharma, Sophia Galloway, Charlotte Hawkins, Raife Oliver, Martin Aylward, Mira Pattni, Gordon Irvine, Shahid Ahmad, Catherine Rothwell, Fiaz Choudhary, Sabrina Khalaque, Stephanie Short, Sharon Peters, Warwick Coulson, Neil Roberts, Amy Butler, Steven Coates, Ben Ward, Daniel Jackson, Steve Walton, Diane Shepherd, Toh Wong, Mark Boon, Melanie Deacon, David Cornelius, Sarah Davies, Ben Frankel, Nick Hargreaves, Henry Choi, Jon Sumner, Tim Myhill, Salah Estifanos, Diane Geatch, Justin Wilkinson, Richard Veale, Karen Forshaw, Rob Hirst, Kashif Zaman, Catherine Liley, Rebecca Wastling, Paul McEleny, Andre Beattie, Philip Cooke, Mike Wong, Mark Pugsley, Chaminda Doldeniya, Greg Rogers, James Bennett, Polly Jacobs, Rajesh Muvva, Matthew Adam, Robin Fox, Nicolas Thomas, Simon Cartwright, Rory Reed, Simon Randfield, Christine A'Court, Ann Flynn, Andrew Halpin, Shoeb Suryani, Simon Dobson, Louise Lomax, Minnal Nadaph, Iain Munro, Jane Goram, Helen Stoddart, Phil Simmons, John Shewring, Emma Bowen-Simpkins, Mark Rickenbach, Polly Jacobs.

Australia

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John Eikelboom, Robert Luton, Milan Gupta, Amritanshu Shekhar Pandey, Stephen Cheung, Rolland Leader, Philippe Beaudry, Félix Ayala-Paredes, Joseph Berlingieri, John Heath, Germain Poirier, Miranda du Preez, Bradley Schweitzer, Reginald Nadeau, Ripple Dhillon, Tomasz Hruczkowski, Andrea Lavoie, Ratika Parkash, James Cha, Benoit Coutu, Paul MacDonald, Brian Ramjattan, Jorge Bonet, Saul Vize, Paul Angaran, Sameh Fikry.

Egypt

Ahmed Mowafy, Azza Katta, Mazen Tawfik, Moustafa Nawar, Mohamed Sobhy, Seif Kamal Abou Seif, Tarek Khairy, Ahmed Abd El-Aziz, Nasser Taha, Ashraf Reda, Atef Elbahry, Mohamed Setiha, Mohamed Gamal El Din, Magdi Elkhadem, Adel El-Etreby.

South Africa

David Kettles, Junaid Bayat, Heidi Siebert, Adrian Horak, Ynez Kelfkens, Riaz Garda, Barry Jacobson, Thayabran Pillay, Michele Guerra, Louis van Zyl, Hendrik Theron, Andrew Murray, Rikus Louw, Deon Greyling, Pindile Mntla, Siddique Ismail, Fayzal Ahmed, Johannes Engelbrecht, Shambu Maharajh, Wessel Oosthuysen, Rehana Loghdey, Veronica Ueckermann.

United Arab Emirates

Wael Al Mahmeed, Abdullah Al Naeemi, Ghazi Yousef, Nooshin Bazargani, Munther AlOmairi, Rajan Maruthanayagam, Rupesh Singh, Ahmed Naguib, Mohamed Ibrahim, Amrish Agrawal, Mukesh Nathani, Ehab M. Esheiba, Adel Wassef, Rajeev Gupta.

United States

Michael Cox, Scott Beach, Peter Duffy, Stephen Falkowski, Kevin Ferrick, Miguel Franco, W. Michael Kutayli, Annette Quick, Niraj Sharma, Vance Wilson, Stephen Miller, Mark Alberts, Edwin Blumberg, Roddy Canosa, Ted Gutowski, Rodney Ison, Jorge Garcia, Paul Mullen, Howard Noveck, Pamela Rama, Rajneesh Reddy, Marcus Williams, Daniel Nishijima, Keith Ferdinand, Ihsan Haque, Robert Mendelson, Sridevi Pitta, Daniel Theodoro, Charles Treasure, Moustafa Moustafa, Cas Cader, Walter Pharr, Alisha Oropallo, George Platt, Jaspal Gujral, James Welker, Firas Koura.

GARFIELD-AF Ethics Committee List

Sponsor	Protocol #	Project Code	Region	Sub-Region	Country	Submission Requirement Type	Authority/Committee Name
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Argentina	CEC	Comite Independiente de Etica
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Argentina	CEC	Comite Independiente de Etica
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Argentina	CEC	Comite Independiente de Etica
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Argentina	CEC	Comite Independiente de Etica
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Argentina	RA	CCIS Comision Conjunta de Investigacion en Salud
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Argentina	CEC	Comite Independiente de Etica
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Argentina	RA	CCIS Comision Conjunta de Investigacion en Salud
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Argentina	RA	CCIS Comision Conjunta de Investigacion en Salud
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Argentina	RA	CCIS Comision Conjunta de Investigacion en Salud
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Argentina	CEC	Comite Independiente de Etica
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Argentina	Others	
Thrombosis Research Institute	TRI08888	IPAA4663	Asia Pacific	Australia & New Zealand	Australia	Central IRB	Metro South Health Service District Human Research Ethics Committee
Thrombosis Research Institute	TRI08888	IPAA4663	Asia Pacific	Australia & New Zealand	Australia	Central IRB	University of Wollongong & Illawarra HREC
Thrombosis Research Institute	TRI08888	IPAA4663	Asia Pacific	Australia & New Zealand	Australia	Central IRB	
Thrombosis Research Institute	TRI08888	IPAA4663	Asia Pacific	Australia & New Zealand	Australia	Central IRB	Metro South Health Service District Human Research Ethics Committee
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Austria	CEC	Ethikkommission der Medizinischen Universität Graz

Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Belgium	CEC	Ethisch Comité UZA
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Belgium	CEC	Ethisch Comité UZA
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Belgium	CEC	Ethisch Comité UZA
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Belgium	CEC	Ethisch Comité UZA
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Belgium	CEC	Ethisch Comité UZA
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Belgium	CEC	Ethisch Comité UZA
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Belgium	CEC	Ethisch Comité UZA
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Belgium	CEC	Ethisch Comité UZA
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Belgium	CEC	Ethisch Comité UZA
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Belgium	CEC	Ethisch Comité UZA
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Brazil	CEC	
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Brazil	CEC	
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Brazil	CEC	
Thrombosis Research Institute	TRI08888	IPAA4663	USA/Canada	Canada	Canada	Central IRB	WIRB
Thrombosis Research Institute	TRI08888	IPAA4663	USA/Canada	Canada	Canada	Central IRB	WIRB
Thrombosis Research Institute	TRI08888	IPAA4663	USA/Canada	Canada	Canada	Central IRB	WIRB

Thrombosis Research Institute	TRI08888	IPAA4663	USA/Canada	Canada	Canada	Central IRB	WIRB
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	South America	Chile	RA	Instituto de Salud Pública de Chile
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Czech Republic	RA	Statni ustav pro kontrolu leciv
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Czech Republic	RA	Statni ustav pro kontrolu leciv
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Denmark	CEC	De Videnskabetiske Komitéer for Region Hovedstaden
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Denmark	CEC	De Videnskabetiske Komitéer for Region Hovedstaden
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Denmark	CEC	De Videnskabetiske Komitéer for Region Hovedstaden
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Denmark	CEC	De Videnskabetiske Komitéer for Region Hovedstaden
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Denmark	CEC	De Videnskabetiske Komitéer for Region Hovedstaden
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Denmark	CEC	De Videnskabetiske Komitéer for Region Hovedstaden
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Denmark	CEC	De Videnskabetiske Komitéer for Region Hovedstaden
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Denmark	CEC	De Videnskabetiske Komitéer for Region Hovedstaden
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Finland	CEC	Pirkanmaan sairaanhoitopiirin eettinen toimikunta
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Finland	CEC	Pirkanmaan sairaanhoitopiirin eettinen toimikunta
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Finland	CEC	Pirkanmaan sairaanhoitopiirin eettinen toimikunta
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Finland	CEC	Pirkanmaan sairaanhoitopiirin eettinen toimikunta
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	France	CEC	Comité Consultatif sur le Traitement de l'information Recherche/Santé

Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	France	CEC	Comité Consultatif sur le Traitement de l'information Recherche/Santé
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	France	CEC	Comité Consultatif sur le Traitement de l'information Recherche/Santé
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	France	CEC	Comité Consultatif sur le Traitement de l'information Recherche/Santé
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	France	CEC	Comité Consultatif sur le Traitement de l'information Recherche/Santé
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	France	CEC	Comité Consultatif sur le Traitement de l'information Recherche/Santé
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	France	CEC	Comité Consultatif sur le Traitement de l'information Recherche/Santé
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	France	CEC	Comité Consultatif sur le Traitement de l'information Recherche/Santé
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	France	CEC	Comité Consultatif sur le Traitement de l'information Recherche/Santé
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	CEC	Egeszsegugyi Tudományos Tanács Tudományos és Kutatásaitikai Bizottság
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	CEC	Egeszsegugyi Tudományos Tanács Tudományos és Kutatásaitikai Bizottság
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	RA	Országos Gyógyszerészeti és Elelmezés-egszsegugyi Intezet
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	CEC	Egeszsegugyi Tudományos Tanács Tudományos és Kutatásaitikai Bizottság
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	RA	Országos Gyógyszerészeti és Elelmezés-egszsegugyi Intezet
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	CEC	Egeszsegugyi Tudományos Tanács Tudományos és Kutatásaitikai Bizottság
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	RA	Országos Gyógyszerészeti és Elelmezés-egszsegugyi Intezet

Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	CEC	Egeszseguyi Tudomanyos Tanacs Tudomanyos es Kutatasetikai Bizottsag
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	RA	Orszagos Gyogyszereszteti es Elelmezes-egszseguyi Intezet
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	RA	Orszagos Gyogyszereszteti es Elelmezes-egszseguyi Intezet
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	RA	Orszagos Gyogyszereszteti es Elelmezes-egszseguyi Intezet
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	CEC	Egeszseguyi Tudomanyos Tanacs Tudomanyos es Kutatasetikai Bizottsag
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	CEC	Egeszseguyi Tudomanyos Tanacs Tudomanyos es Kutatasetikai Bizottsag
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	CEC	Egeszseguyi Tudomanyos Tanacs Tudomanyos es Kutatasetikai Bizottsag
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	RA	Orszagos Gyogyszereszteti es Elelmezes-egszseguyi Intezet
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	RA	Orszagos Gyogyszereszteti es Elelmezes-egszseguyi Intezet
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	RA	Orszagos Gyogyszereszteti es Elelmezes-egszseguyi Intezet
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Hungary	RA	Orszagos Gyogyszereszteti es Elelmezes-egszseguyi Intezet
Thrombosis Research Institute	TRI08888	IPAA4663	Asia Pacific	India Region	India	RA	Directorate General of Health Services (India)
Thrombosis Research Institute	TRI08888	IPAA4663	Asia Pacific	India Region	India	RA	Directorate General of Health Services (India)

Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Italy	CEC	Comitato Etico delle Aziende Sanitarie dell'Umbria di Perugia
Thrombosis Research Institute	TRI08888	IPAA4663	Japan	Japan	Japan	RA	
Thrombosis Research Institute	TRI08888	IPAA4663	Japan	Japan	Japan	RA	
Thrombosis Research Institute	TRI08888	IPAA4663	Asia Pacific	Southeast Asia	Korea, Republic of	RA	
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)

Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Latin America	Central America	Mexico	RA	COFEPRIS - Comision de Autorizacion Sanitaria (Mexico)
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Netherlands	CEC	
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Norway	CEC	REK Sør-øst
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Norway	CEC	REK Sør-øst
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Poland	CEC	Terenowa Komisja Bioetyczna przy Instytucie Kardiologii
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Poland	CEC	Terenowa Komisja Bioetyczna przy Instytucie Kardiologii
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Poland	CEC	Terenowa Komisja Bioetyczna przy Instytucie Kardiologii

Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Poland	CEC	Terenowa Komisja Bioetyczna przy Instytucie Kardiologii
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Poland	CEC	Terenowa Komisja Bioetyczna przy Instytucie Kardiologii
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Poland	CEC	Terenowa Komisja Bioetyczna przy Instytucie Kardiologii
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Poland	CEC	Terenowa Komisja Bioetyczna przy Instytucie Kardiologii
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Russian Federation	CEC	IIC of Ethic Assessment of Clinical Researches
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Russian Federation	CEC	IIC of Ethic Assessment of Clinical Researches
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Russian Federation	CEC	IIC of Ethic Assessment of Clinical Researches
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Russian Federation	CEC	IIC of Ethic Assessment of Clinical Researches
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Russian Federation	CEC	IIC of Ethic Assessment of Clinical Researches
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Russian Federation	CEC	IIC of Ethic Assessment of Clinical Researches
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Russian Federation	CEC	IIC of Ethic Assessment of Clinical Researches
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Russian Federation	CEC	IIC of Ethic Assessment of Clinical Researches
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Russian Federation	CEC	IIC of Ethic Assessment of Clinical Researches
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Russian Federation	CEC	IIC of Ethic Assessment of Clinical Researches
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Russian Federation	CEC	IIC of Ethic Assessment of Clinical Researches
Thrombosis Research Institute	TRI08888	IPAA4663	Asia Pacific	Southeast Asia	Singapore	RA	
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Africa	South Africa	RA	MCC - Medicines Control Council (South Africa)
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Africa	South Africa	RA	MCC - Medicines Control Council (South Africa)

Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Africa	South Africa	RA	MCC - Medicines Control Council (South Africa)
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Spain	CEC	CEIC Hospital Universitario Virgen de la Victoria
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Spain	CEC	CEIC Hospital Universitario Virgen de la Victoria
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm

Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Sweden	CEC	Regionala etikprövningsnämnden i Stockholm
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Western Europe	Switzerland	RA	
Thrombosis Research Institute	TRI08888	IPAA4663	Asia Pacific	Southeast Asia	Thailand	RA	
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Turkey	CEC	Malatya Klinik Arastirmalar Etik Kurulu
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Turkey	RA	Turkish Ministry of Health
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Turkey	CEC	Malatya Klinik Arastirmalar Etik Kurulu
Thrombosis Research Institute	TRI08888	IPAA4663	Europe/Middle East/Africa-EMEA	Eastern Europe/Middle East	Ukraine	CEC	Central Ethics Commission of the Ministry of Health of Ukraine

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