



“SCIENTIFIC CONTRIBUTION OF APHRS”

Young-Hoon KIM/Korea





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20 Countries/Regions

Australia	Cardiac Society of Australia and New Zealand
Brunei Darussalam	Brunei Cardiac Society
Cambodia	Cambodian Heart Association
Hong Kong	Hong Kong College of Cardiology
India	Indian Heart Rhythm Society
Islamic Republic of Pakistan	Pakistan Heart Rhythm Society
Japan	Japanese Heart Rhythm Society
Kingdom of Thailand	Heart Association of Thailand under the Royal Patronage of H.M. The King
Malaysia	National Heart Association of Malaysia
Mongolia	Mongolian Heart Rhythm Society
Myanmar	Cardiac Society of Myanmar Medical Association
New Zealand	Cardiac Society of Australia and New Zealand
People's Republic of China	Chinese Society of Pacing and Electrophysiology
Republic of Indonesia	Indonesian Heart Rhythm Society
Republic of Korea	Korean Heart Rhythm Society
Republic of Philippines	Philippine Heart Rhythm Society
Republic of Singapore	Singapore Cardiac Society
Sri Lanka	Sri Lanka Heart Association
Taiwan	Taiwan Heart Rhythm Society
Vietnam	Vietnam Heart Rhythm Society



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Annual Scientific Session Since 2008



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JOURNAL OF ARRHYTHMIA

Journal of Arrhythmia, the official journal of the Asia Pacific Heart Rhythm Society (APHRs) and the Japanese Heart Rhythm Society (JHRS), aims to provide a scientific platform on which to promote excellence and advancement in the study and care of patients with cardiac rhythm disorders.

The Journal publishes peer-reviewed original clinical and basic research articles, along with case reports on all aspects of cardiac pacing and cardiovascular electrophysiology devoted to the ongoing developments of diagnosis and treatment of arrhythmia. Also included are reviews, editorials, ECGs for students and associated professionals, EPS and related devices for resident physicians, and basic science information for clinicians. Much of the contributed material is requested, but unsolicited submissions are welcome and will be given full consideration.

Co-Editors-in-Chief: Shih-Ann Chen (Taiwan) and Kazuo Matsumoto (Japan)

Consensus documents/ Clinical Studies

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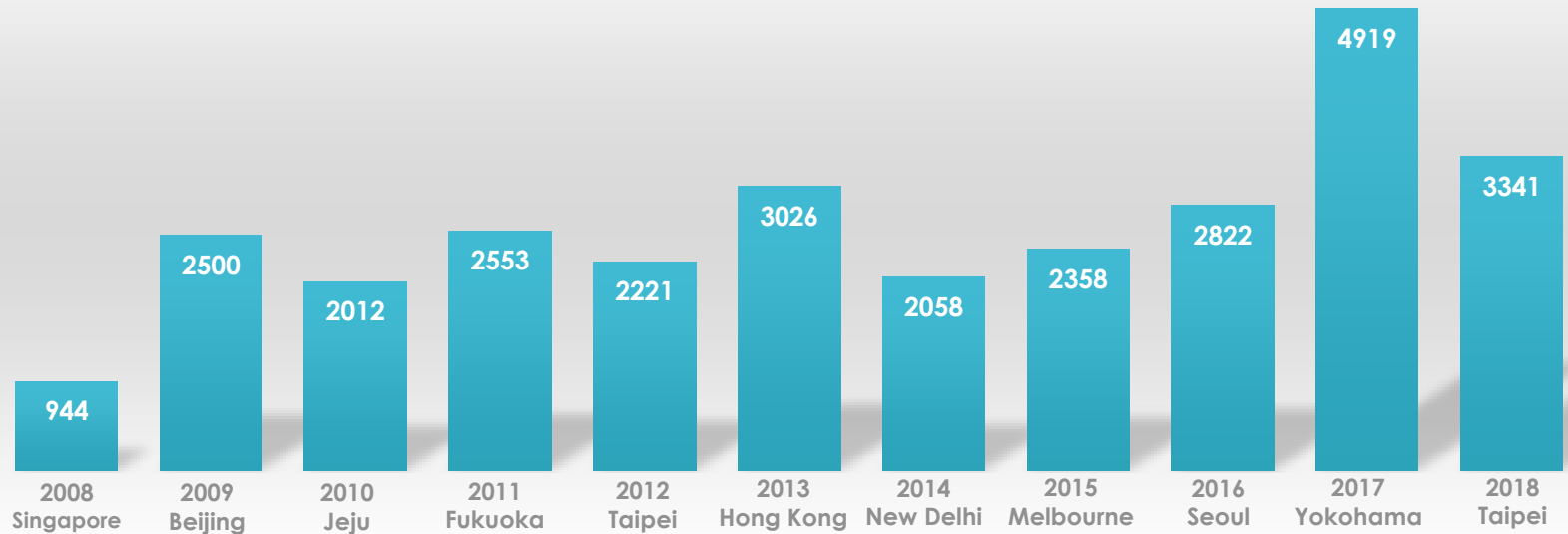
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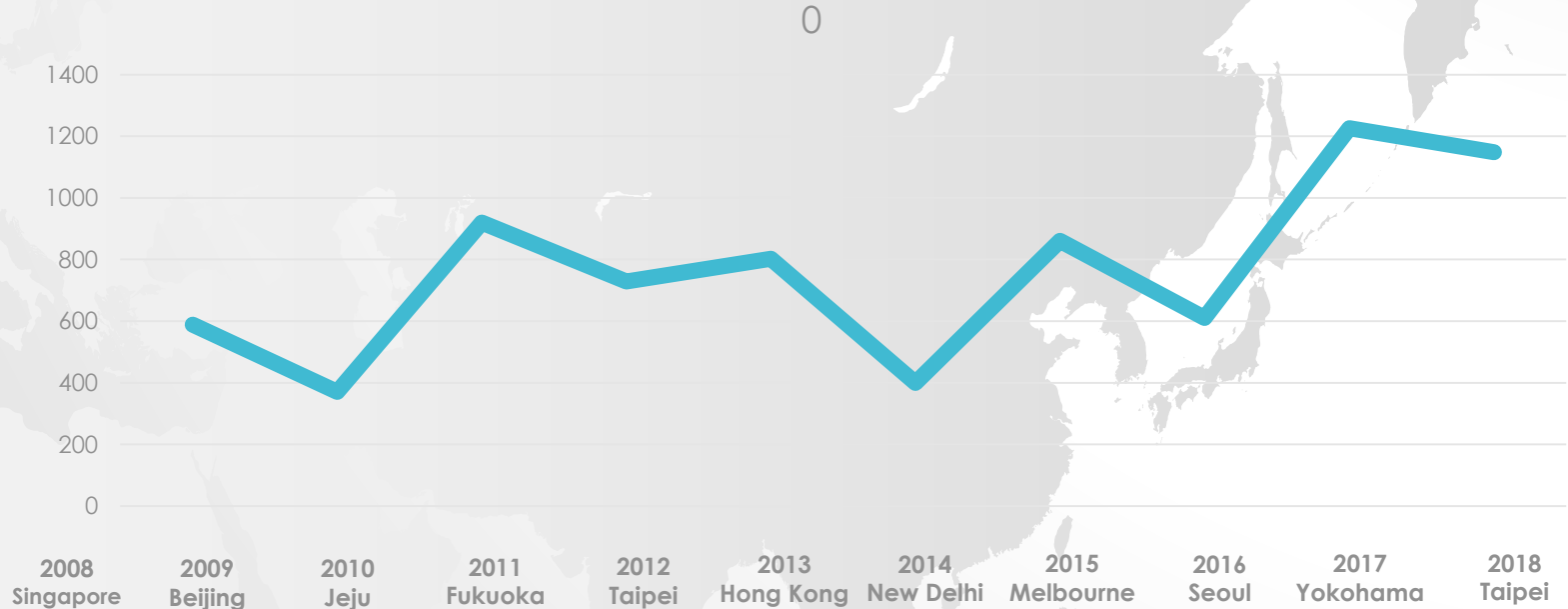
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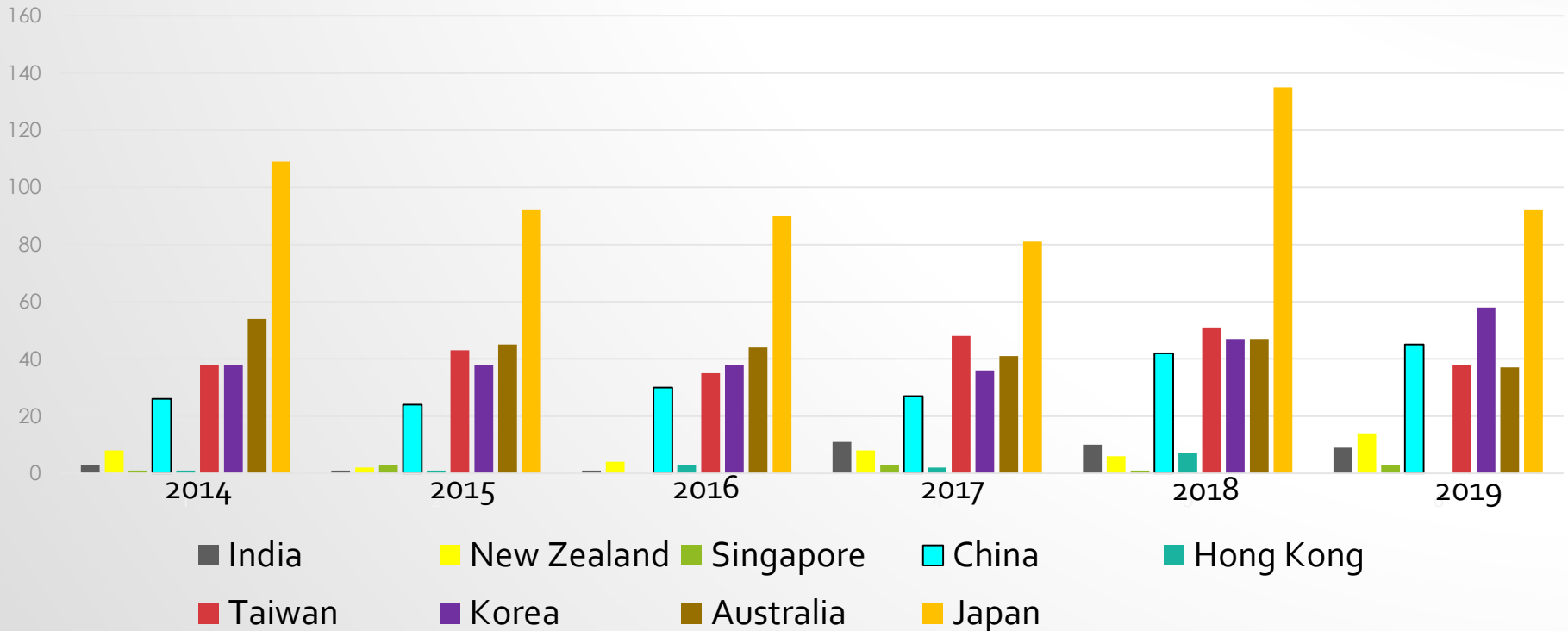


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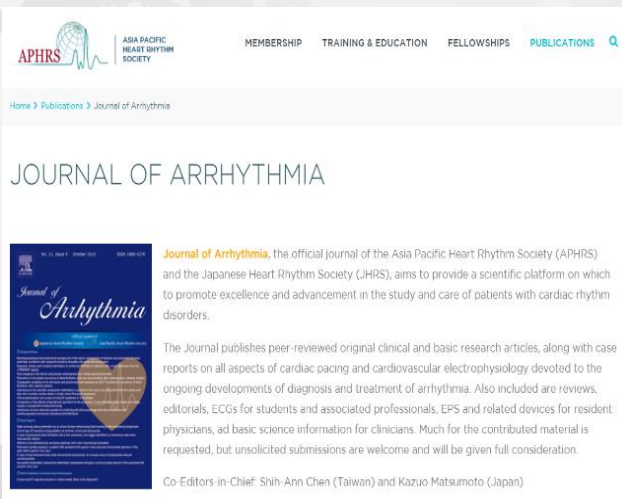
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APHRs ASIA PACIFIC HEART RHYTHM SOCIETY

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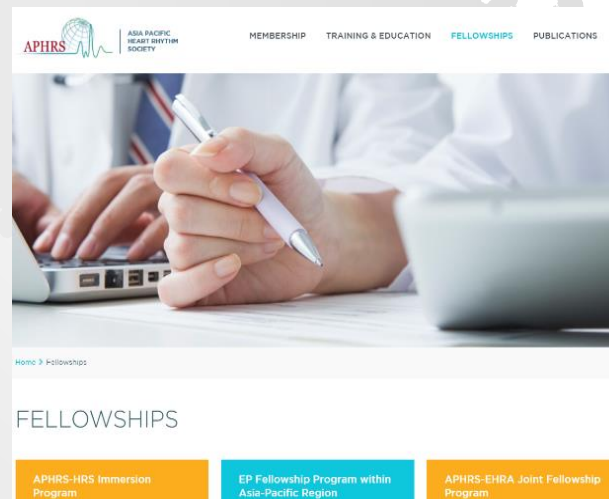
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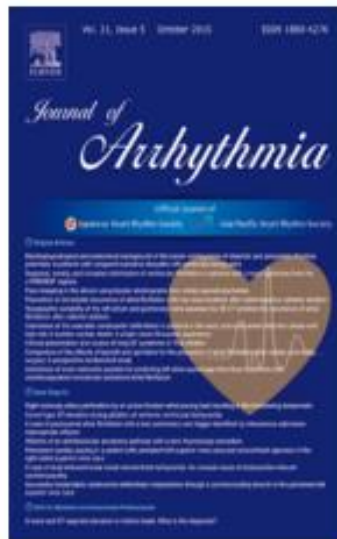
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JOURNAL OF ARRHYTHMIA

Co-Editor-in-Chief: Shih-Ann Chen and Kazuo Matsumoto



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Published Year	Title	Lead Society	APHRS Involvement	Year	Title	Lead Society	APHRS Involvement
2012	2012 HRS/EHRA/ECAS Expert Consensus Statement on Catheter and Surgical Ablation of Atrial Fibrillation: Recommendations for Patient Selection, Procedural Techniques, Patient Management and Follow-up, Definitions, Endpoints, and Research Trial Design	HRS	Endorsement	2016	European Heart Rhythm Association (EHRA) consensus document on the management of supraventricular arrhythmias, endorsed by Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRS), and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología (SOLEACE)	EHRA	Endorsement
2014	Management of antithrombotic therapy in atrial fibrillation patients presenting with acute coronary syndrome and/or undergoing percutaneous coronary or valve interventions: a joint consensus document of the European Society of Cardiology Working Group on Thrombosis, European Heart Rhythm Association (EHRA), European Association of Percutaneous Cardiovascular Interventions (EAPCI) and European Association of Acute Cardiac Care (ACCA) endorsed by the Heart Rhythm Society (HRS) and Asia-Pacific Heart Rhythm Society (APHRS)	EHRA	Endorsement	2017	Hypertension and cardiac arrhythmias: a consensus document from the European Heart Rhythm Association (EHRA) and ESC Council on Hypertension, endorsed by the Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRS) and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología (SOLEACE)	EHRA	Endorsement
2015	Antithrombotic management in patients undergoing electrophysiological procedures: a European Heart Rhythm Association (EHRA) position document endorsed by the ESC Working Group Thrombosis, Heart Rhythm Society (HRS) and Asia Pacific Heart Rhythm Society (APHRS)	EHRA	Endorsement	2017	Screening for atrial fibrillation: a European Heart Rhythm Association (EHRA) consensus document endorsed by the Heart Rhythm Society (HRS), Asia Pacific Heart Rhythm Society (APHRS), and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología (SOLEACE)	EHRA	Endorsement
2015	Chronic kidney disease in patients with cardiac rhythm disturbances or implantable electrical devices: significance and implications for decision making: a position paper of the European Heart Rhythm Association endorsed by the Heart Rhythm Society and the Asia Pacific Heart Rhythm Society			2017	Device-detected subclinical atrial tachyarrhythmias: a consensus document from the European Heart Rhythm Association, endorsed by Heart Rhythm Society (HRS) and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología (SOLEACE)	EHRA	Endorsement
2015	Cardiac tachyarrhythmias and patient values and preferences for their management: the European Heart Rhythm Association (EHRA) consensus document endorsed by the Heart Rhythm Society(HRS), Asia Pacific Heart Rhythm Society (APHRS), and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología(SOLEACE)	EHRA	Endorsement	2017	2017 HRS expert consensus statement on cardiovascular implantable electronic device lead management and extraction	HRS	Endorsement
2015	European Heart Rhythm Association/Heart Failure Association joint consensus document on arrhythmias in heart failure, endorsed by the Heart Rhythm Society and the Asia Pacific Heart Rhythm Society	EHRA	Endorsement	2017	2017 HRS expert consensus statement on magnetic resonance imaging and radiation exposure in patients with cardiovascular implantable electronic devices	HRS	Endorsement
2015	HRS Expert Consensus Statement on remote interrogation and monitoring for cardiovascular implantable electronic devices	HRS	Endorsement	2018	Antithrombotic therapy in atrial fibrillation associated with valvular heart disease: a joint consensus document from the European Heart Rhythm Association (EHRA) and European Society of Cardiology Working Group on Thrombosis, endorsed by the ESC Working Group on Valvular Heart Disease, Cardiac Arrhythmia Society of Southern Africa (CASSA), Heart Rhythm Society (HRS), Asia Pacific Heart Rhythm Society (APHRS), South African Heart (SA Heart) Association and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología (SOLEACE)	EHRA	Endorsement
2015	2015 HRS Expert Consensus Statement on the Diagnosis and Treatment of Postural Tachycardia Syndrome, Inappropriate Sinus Tachycardia, and Vasovagal Syncope	HRS	Endorsement	2018	Arrhythmias in congenital heart disease: a position paper of the European Heart Rhythm Association (EHRA), Association for European Paediatric and Congenital Cardiology (AEPCC), and the European Society of Cardiology (ESC) Working Group on Grown-up Congenital heart disease, endorsed by HRS, PACES, APHRS, and SOLAECE	EHRA	Endorsement
2016	European Heart Rhythm Association (EHRA)/European Association of Cardiovascular Prevention and Rehabilitation (EACPR) position paper on how to prevent atrial fibrillation endorsed by the Heart Rhythm Society (HRS) and Asia Pacific Heart Rhythm Society (APHRS)	EHRA	Endorsement	2018	Antiarrhythmic drugs—clinical use and clinical decision making: a consensus document from the European Heart Rhythm Association (EHRA) and European Society of Cardiology (ESC) Working Group on Cardiovascular Pharmacology, endorsed by the Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRS) and International Society of Cardiovascular Pharmacotherapy (ISCP)	EHRA	Endorsement
2016	Pre-participation cardiovascular evaluation for athletic participants to prevent sudden death: Position paper from the EHRA and the EACPR, branches of the ESC. Endorsed by APHRS, HRS, and SOLAECE	EHRA	Endorsement				

Consensus Documents



Consensus Documents

2018	Sex differences in cardiac arrhythmia: a consensus document of the European Heart Rhythm Association, endorsed by the Heart Rhythm Society and Asia Pacific Heart Rhythm Society	EHRA	Endorsement
2018	European Heart Rhythm Association (EHRA) consensus document on management of arrhythmias and cardiac electronic devices in the critically ill and post-surgery patient, endorsed by Heart Rhythm Society (HRS), Asia Pacific Heart Rhythm Society (APHRS), Cardiac Arrhythmia Society of Southern Africa (CASSA), and Latin American Heart Rhythm Society (LAHRS)	EHRA	Endorsement
	2018 Joint European consensus document on the management of antithrombotic therapy in atrial fibrillation patients presenting with acute coronary syndrome and/or undergoing percutaneous cardiovascular interventions: a joint consensus document of the European Heart Rhythm Association (EHRA), European Association of Percutaneous Cardiovascular Interventionalists (EAPCI), and European Association of Angiologists (EAA)		

Expected 2019	Consensus Statement on 3D Mapping to aid Ablation of Cardiac Arrhythmias	APHRS	Lead
In Progress	Consensus Statement on Atrial Arrhythmia Nomenclature	APHRS	Lead
In Progress	Consensus Statement on AF and Sleep Apnoea	APHRS	Lead

	(APHRS) and Latin American Heart Rhythm Society (LAHRS)		
2019	Management of asymptomatic arrhythmias: a European Heart Rhythm Association (EHRA) consensus document, endorsed by the Heart Failure Association (HFA), Heart Rhythm Society (HRS), Asia Pacific Heart Rhythm Society (APHRS), Cardiac Arrhythmia Society of Southern Africa (CASSA), and Latin America Heart Rhythm Society (LAHRS)	EHRA	Endorsement
2019	2019 HRS expert consensus statement on evaluation, risk stratification, and management of arrhythmogenic cardiomyopathy	HRS	Endorsement
2019	2019 HRS/EHRA/APHRS/LAHRs focused update to 2015 expert consensus statement on optimal implantable cardioverter-defibrillator programming and testing	HRS	Endorsement
Expected 2019	Consensus document on how to prevent, diagnose and treat Cardiac Implantable Electronic Device infections	EHRA	Endorsement
Expected 2019	Position paper on management of arrhythmias in elderly and frailty syndrome	EHRA	Endorsement
Expected 2019	EHRA consensus statement on analysis and presentation of observational studies	EHRA	Endorsement
In Progress	Expert Consensus Statement on the Management of Arrhythmias During Pregnancy	HRS	Endorsement

2012 HRS/EHRA/ECAS Expert Consensus Statement on Catheter and Surgical Ablation of Atrial Fibrillation: Recommendations for Patient Selection, Procedural Techniques, Patient Management and Follow-up, Definitions, Endpoints, and Research Trial Design

A report of the Heart Rhythm Society (HRS) Task Force on Catheter and Surgical Ablation of Atrial Fibrillation. Developed in partnership with the European Heart Rhythm Association (EHRA), a registered branch of the European Society of Cardiology (ESC) and the European Cardiac Arrhythmia Society (ECAS); and in collaboration with the American College of Cardiology (ACC), American Heart Association (AHA), the Asia Pacific Heart Rhythm Society (APHRS), and the Society of Thoracic Surgeons (STS). Endorsed by the governing bodies of the American College of Cardiology Foundation, the American Heart Association, the European Cardiac Arrhythmia Society, the European Heart Rhythm Association, the Society of Thoracic Surgeons, the Asia Pacific Heart Rhythm Society, and the Heart Rhythm Society

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[Heart Rhythm.](#)

2012 Apr;9(4):632-696.

J Interv Card Electrophysiol.
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Mar;33(2):171-257.



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Guideline

2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of atrial fibrillation: Executive summary

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Europace (2013) 15, 1389–1406
doi:10.1093/europace/eut272

HRS/EHRA/APHSR CONSENSUS STATEMENT

Executive Summary: HRS/EHRA/APHSR Expert Consensus Statement on the Diagnosis and Management of Patients with Inherited Primary Arrhythmia Syndromes

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and
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Arthur Moss¹⁴, Peter J. Schwartz¹⁵, Wataru Shimizu¹⁶, Gordon Tomaselli^{17,†},
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Guideline

2015 HRS/EHRA/APHRS/SOLAECE expert consensus statement on optimal implantable cardioverter-defibrillator programming and testing ☆, ☆ ☆



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EHRA/HRS/APHRS/SOLAECE expert consensus on Atrial cardiomyopathies: Definition, characterisation, and clinical implication ☆, ☆ ☆

Andreas Goette, (EHRA chair)^{a,*}, Jonathan M. Kalman, (APHRS co-chair)^{b,**}, Luis Aguinaga, (SOLAECE co-chair)^{c,***,1}, Joseph Akar^d, Jose Angel Cabrera^e, Shih Ann Chen^f, Sumeet S. Chugh^g, Domenico Corradi^h, Andre D'Avilaⁱ, Dobromir Dobrev^j, Guilherme Fenelon^k, Mario Gonzalez^l, Stephane N. Hatem^m, Robert Helmⁿ, Gerhard Hindricks^o, Siew Yen Ho^p, Brian Hoit^q, Jose Jalife^r, Young-Hoon Kim^s, Gregory Y.H. Lip^t, Chang-Sheng Ma^u, Gregory M. Marcus^v, Katherine Murray^w, Akihiko Nogami^x, Prashanthan Sanders^y, William Uribe^z, David R. Van Wagoner^{aa}, Stanley Nattel, (HRS co-chair)^{ab,ac,***}

EHRA/HRS/APHRS/SOLAECE DOCUMENT-REVIEWERS 2016

EHRA/HRS/APHRS/SOLAECE expert consensus on atrial cardiomyopathies: Definition, characterization, and clinical implication ^e



Andreas Goette (EHRA chair)¹ Jonathan M. Kalman (APHRS co-chair)² Luis Aguinaga
(SOLAECE co-chair)³ Joseph Akar,⁴ Jose Angel Cabrera,⁵ Shih Ann Chen,⁶ Sumeet S. Chugh,⁷
Domenico Corradi,⁸ Andre D'Avila,⁹ Dobromir Dobrev,¹⁰ Guilherme Fenelon,¹¹
Mario Gonzalez,¹² Stephane N. Hatem,¹³ Robert Helm,¹⁴ Gerhard Hindricks,¹⁵ Siew Yen Ho,¹⁶
Brian Hoit,¹⁷ Jose Jalife,¹⁸ Young-Hoon Kim,¹⁹ Gregory Y.H. Lip,²⁰ Chang-Sheng Ma,²¹
Gregory M. Marcus,²² Katherine Murray,²³ Akihiko Nogami,²⁴ Prashanthan Sanders,²⁵
William Uribe,²⁶ David R. Van Wagoner,²⁷ Stanley Nattel (HRS co-chair)^{28,29}

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Guideline

2017 consensus of the Asia Pacific Heart Rhythm Society on stroke prevention in atrial fibrillation

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European Society of Cardiology

Europace (2017) 19, 1757–1758
doi:10.1093/europace/eux240

EHRA CONSENSUS DOCUMENT

Antithrombotic therapy in atrial fibrillation associated with valvular heart disease: a joint consensus document from the European Heart Rhythm Association (EHRA) and European Society of Cardiology Working Group on Thrombosis, endorsed by the ESC Working Group on Valvular Heart Disease, Cardiac Arrhythmia Society of Southern Africa (CASSA), Heart Rhythm Society (HRS), Asia Pacific Heart Rhythm Society (APHRS), South African Heart (SA Heart) Association and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología (SOLEACE)

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2019 HRS/EHRA/APHRS/LAHRs expert consensus statement on catheter ablation of ventricular arrhythmias

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2018 Joint European consensus document on the management of antithrombotic therapy in atrial fibrillation patients presenting with acute coronary syndrome and/or undergoing percutaneous cardiovascular interventions: a joint consensus document of the European Heart Rhythm Association (EHRA), European Society of Cardiology Working Group on Thrombosis, European Association of Percutaneous Cardiovascular Interventions (EAPCI), and European Association of Acute Cardiac Care (ACCA) endorsed by the Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRS), Latin America Heart Rhythm Society (LAHRS), and Cardiac Arrhythmia Society of Southern Africa (CASSA)

Joint Consensus Document

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Received 25 June 2018; editorial decision 28 June 2018; accepted 28 June 2018; online publish-ahead-of-print 21 July 2018



Europace (2015) **17**, 1747–1769
doi:10.1093/europace/euv233

EHRA POSITION PAPER

**Endorsed by
APHRs**

Cardiac tachyarrhythmias and patient values and preferences for their management: the European Heart Rhythm Association (EHRA) consensus document endorsed by the Heart Rhythm Society (HRS), Asia Pacific Heart Rhythm Society (APHRs), and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología (SOLEACE)

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EHRA Position paper

European Journal of
**Preventive
Cardiology**



European Journal of Preventive
Cardiology
2017, Vol. 24(1) 41–69
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Cardiology 2016
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DOI: 10.1177/2047487316676042
ejpc.sagepub.com



**Pre-participation cardiovascular
evaluation for athletic participants
to prevent sudden death: Position
paper from the EHRA and the
EACPR, branches of the ESC.
Endorsed by **APHRs**, HRS, and
SOLAECE**

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European Society
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Europace (2017) 19, 1556–1578
doi:10.1093/europace/eux163


EHRA CONSENSUS DOCUMENT

Device-detected subclinical atrial tachyarrhythmias: definition, implications and management—an European Heart Rhythm Association (EHRA) consensus document, endorsed by Heart Rhythm Society (HRS), Asia Pacific Heart Rhythm Society (APHRs) and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología (SOLEACE)

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Table 20 Recommendations on stroke prevention in subclinical atrial tachyarrhythmias

Recommendations	Class	Supporting references
The presence of AHRE >5 min is associated with an increased risk of stroke/SE especially in the presence of ≥ 2 stroke risk factors using the CHA ₂ DS ₂ -VASc score. Thus, OAC should be considered in such patients, whether as a NOAC or well controlled VKA with TTR>70%.		5, 38

AHRE, atrial high rate episode; NOAC, non-vitamin K antagonist oral anticoagulant; OAC, oral anticoagulation; SE, systemic embolism; TTR, time in the therapeutic ranges; VKA, vitamin K antagonist.



European Heart Rhythm Association (EHRA)/European Association of Cardiovascular Prevention and Rehabilitation (EACPR) position paper on **how to prevent atrial fibrillation endorsed by the Heart Rhythm Society (HRS) and Asia Pacific Heart Rhythm Society (APHRS)**

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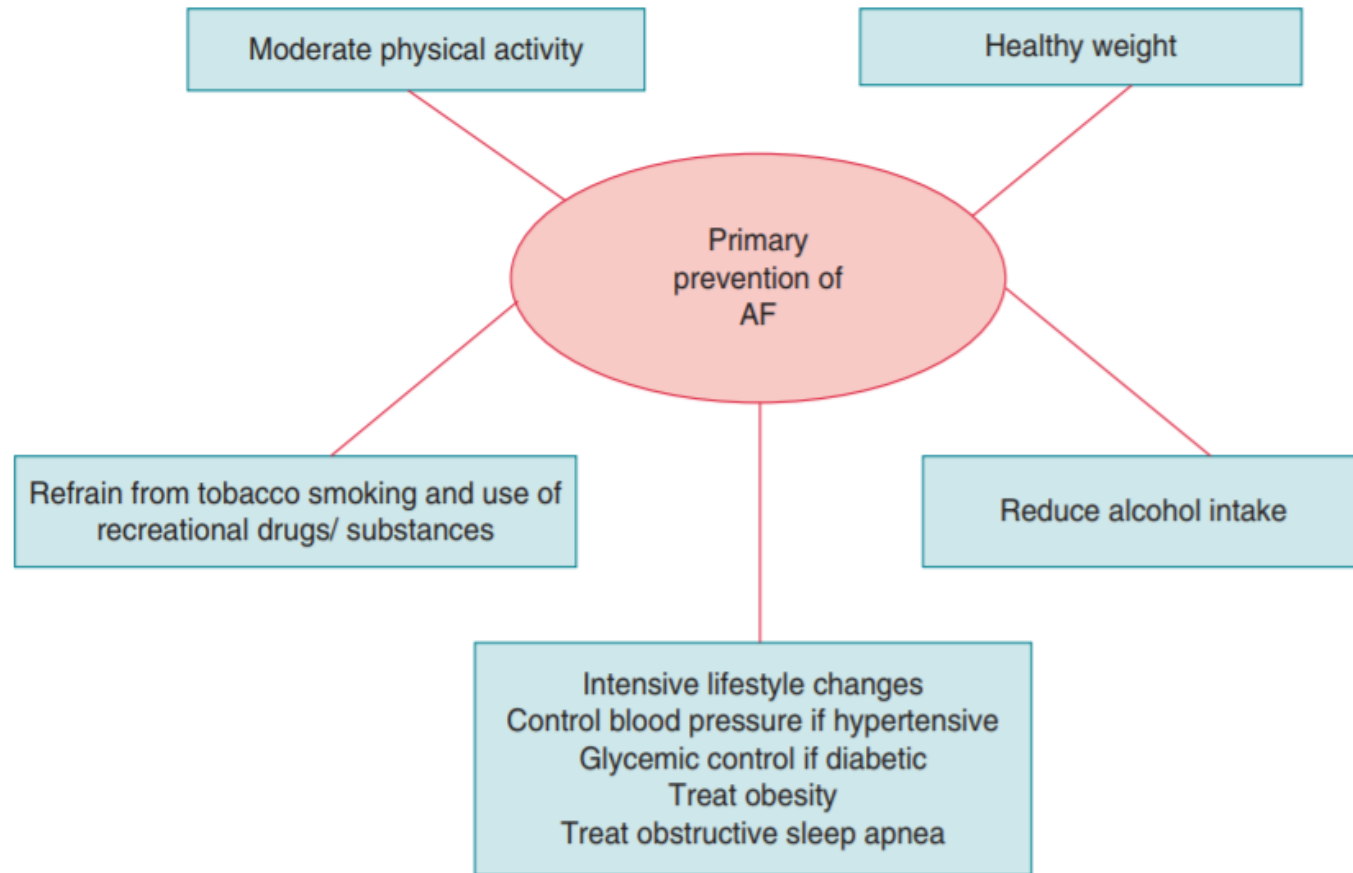


Figure 3 Lifetime approach to primary prevention of AF. AF, atrial fibrillation.

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Europace (2017) 19, 465–511
doi:10.1093/europace/euw301

EHRA POSITION PAPER

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European Heart Rhythm Association (EHRA) consensus document on the management of

supraventricular arrhythmias, endorsed by Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRS), and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología (SOLAECE)

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[Europace](#). 2019 Mar 18. pii: euz046. doi: 10.1093/europace/euz046. [Epub ahead of print]

Management of asymptomatic arrhythmias: a European Heart Rhythm Association (EHRA) consensus document, endorsed by the Heart Failure Association (HFA), Heart Rhythm Society (HRS), **Asia Pacific Heart Rhythm Society (APHRS)**, Cardiac Arrhythmia Society of Southern Africa (CASSA), and Latin America Heart Rhythm Society (LAHRS).

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European Heart Rhythm Association (EHRA) consensus document on management of arrhythmias and cardiac electronic devices in the critically ill and post-surgery patient, endorsed by Heart Rhythm Society (HRS), Asia Pacific Heart Rhythm Society (APHR), Cardiac Arrhythmia Society of Southern Africa (CASSA), and Latin American Heart Rhythm Society (LAHRS)

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Europace (2018) 20, 1217
doi:10.1093/europace/euy050

EHRA CONSENSUS DOCUMENT

2018 EHRA expert consensus statement on lead extraction: recommendations on definitions, endpoints, research trial design, and data collection requirements for clinical scientific studies and registries: endorsed by **APHRs/HRS/LAHRs**

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Europace (2018) 20, 895–896
doi:10.1093/europace/euy051

EHRA CONSENSUS DOCUMENT

European Heart Rhythm Association (EHRA) position paper on arrhythmia management and device therapies in endocrine disorders, endorsed by Asia Pacific Heart Rhythm Society (APHRS) and Latin American Heart Rhythm Society (LAHRS)

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Antiarrhythmic drugs—clinical use and clinical decision making: a consensus document from the European Heart Rhythm Association (EHRA) and European Society of Cardiology (ESC) Working Group on Cardiovascular Pharmacology, endorsed by the Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRs) and International Society of Cardiovascular Pharmacotherapy (ISCP)

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Europace (2017) 19, 1589–1623
doi:10.1093/europace/eux177

EHRA CONSENSUS DOCUMENT

Screening for atrial fibrillation: a European Heart Rhythm Association (EHRA) consensus document endorsed by the Heart Rhythm Society (HRS), Asia Pacific Heart Rhythm Society (APHR), and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología (SOLAECE)

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Europace (2017) 19, 891–911
doi:10.1093/europace/eux091

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CONSENSUS DOCUMENT

Hypertension and cardiac arrhythmias: a consensus document from the European Heart Rhythm Association (EHRA) and ESC Council on Hypertension, endorsed by the Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRs) and Sociedad Latinoamericana de Estimulación Cardíaca y Electrofisiología (SOLEACE)

Gregory Y.H. Lip^{1,2}, Antonio Coca³, Thomas Kahan^{4,5}, Giuseppe Boriani⁶, Antonis S. Manolis⁷, Michael Hecht Olsen⁸, Ali Oto⁹, Tatjana S. Potpara¹⁰, Jan Steffel¹¹, Francisco Marín¹², Márcio Jansen de Oliveira Figueiredo¹³, Giovanni de Simone¹⁴, Wendy S. Tzou¹⁵, Chern-En Chiang¹⁶ and Bryan Williams¹⁷

Reviewers: Gheorghe-Andrei Dan¹⁸, Bulent Gorenek¹⁹, Laurent Fauchier²⁰, Irina Savelieva²¹, Robert Hatala²², Isabelle van Gelder²³, Jana Brguljan-Hitij²⁴, Serap Erdine²⁵, Dragan Lović²⁶, Young-Hoon Kim²⁷, Jorge Salinas-Arce²⁸, Michael Field²⁹



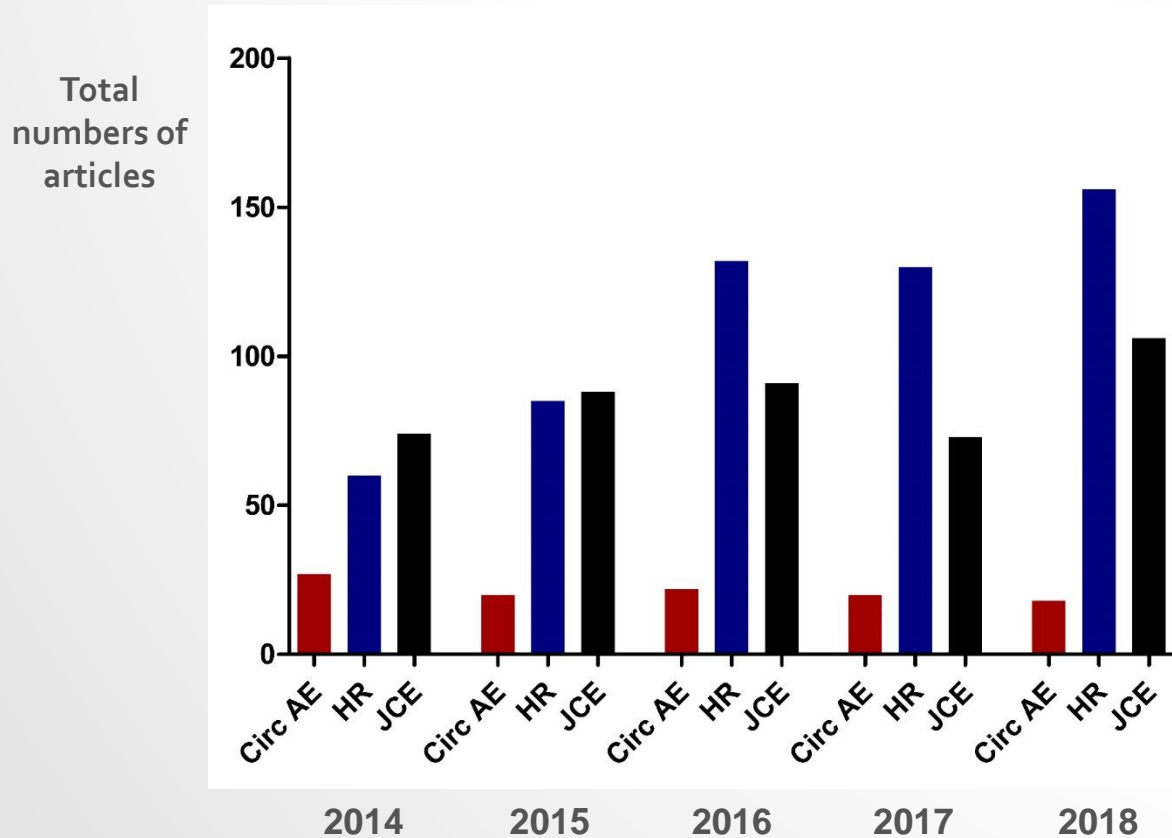
“SCIENTIFIC CONTRIBUTION OF APHR”

Publications of Free Papers



“SCIENTIFIC CONTRIBUTION OF APHRS”

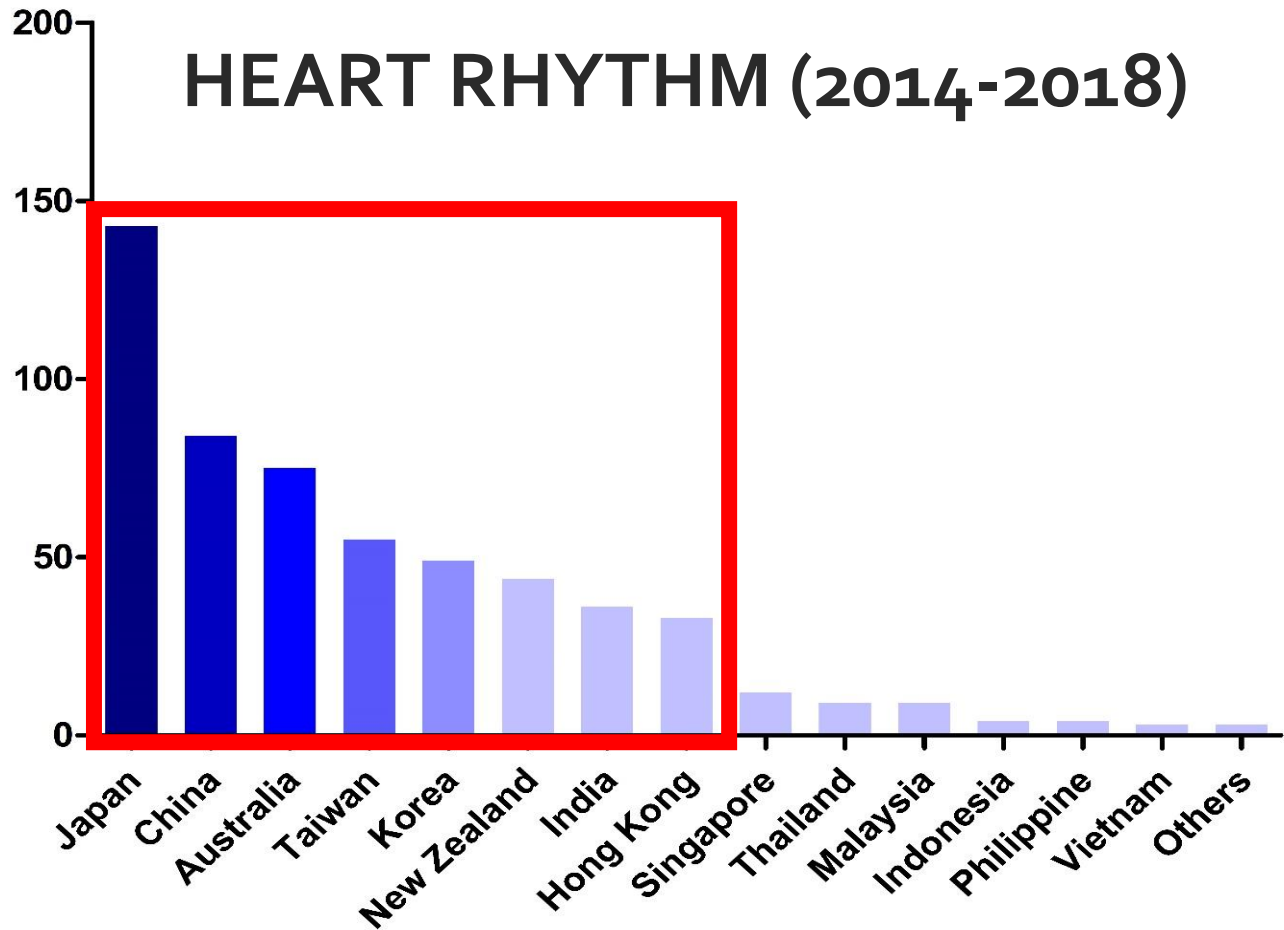
Total Numbers of Articles Published in 3 EP Journals,
from APHRS Member Countries/Region (2014-2018)





“SCIENTIFIC CONTRIBUTION OF APHRS”

Total
numbers of
articles





“SCIENTIFIC CONTRIBUTION OF APHRS”

APHRS-EHRA Joint Session at EHRA 2018 (Barcelona)

Recurrences of atrial fibrillation after repeated catheter ablation

March 19, 2018 (14:00 - 15:30)

Chair	Isabelle C Van Gelder	Netherland	
	Shu Zhang	China	
Speaker	Tom De Potter	Belgium	Introductory case
	Lin Yee Chen	USA	Lifestyle modification
	Robert Hatala	Sloval Republic	Adding previsouly ineffective drugs
	Shinsuke Miyazaki	Japan	Re-do ablation? How many?
	Tom De Potter	Belgium	What else?

APHRS-HRS Joint Session at HRS 2018 (Boston)

Fighting Against the Global Burden of Stroke and AF

May 11, 2018 (10:30 - 12:00)

Chair	Jonathan Kalman	Australia	
	Shu Zhang	China	
Speaker	Hung-Fat Tse	Hong Kong	Improving disease awareness and diagnosis of AF
	Wee Siong Teo	Singapore	Emerging role implanted device for AF detection
	Hui-Nam Pak	Korea	LAA occlusion or ligation for stroke prevention
	Tze-Fan Chao	Taiwan	Balance the risk and benefit of NOAC in high risk population



“SCIENTIFIC CONTRIBUTION OF APHRS”

APHRS-EHRA Joint Session at EHRA 2019 (Lisbon)

State of the Art review of paroxysmal supraventricular tachycardia from a clinician's point of view

March 19, 2019 (11:00-12:30)

Chair	A. Auricchio	Lugano, CH	
	J.M. Kalman	Victoria, AU	
Speaker	D. Katritsis	Athens, GR	Supraventricular tachycardia management in 2019
	C.K. Ching	Singapore, SG	Approaches to difficult supra ventricular tachycardia ablation
	J.M. Almendral Garrote	Madrid, ES	Asymptomatic Wolff-Parkinson-White syndrome - When not to ablate
	H.N. Pak	Seoul, KR	Approach to mapping and ablation of focal atrial tachycardia

APHRS-HRS Joint Session at HRS 2019 (San Francisco)

From Pathophysiology to Practice

May 10, 2019 (16:30-18:00)

Chair	Chu-Pak Lau	Hong Kong	
	Jonathan Kalman	Australia	
Speaker	Minglong Chen	China	Isolated atrial cardiomyopathy: fact or fiction?
	Carlos A. Morillo	Canada	Post STAR AF2: Is There Still a Role for Substrate Modification?
	Shinsuke Miyazaki	Japan	Fire or ICE: How different are they?
	Nassir F. Marrouche	United States	Substrate Identification with MRI: Implications for Ablation Strategy?



“SCIENTIFIC CONTRIBUTION OF APHR”

- **Asian-Pacific Brugada Registry**
- **Long QTS, ARVC, CPVT, IVF**
- **MVP, HCM, MVD**
- **VAs associated with MI/CAD**
- **AF/VT Ablation Registry**
- **Lead infection/extraction registry**
- **Vasospastic angina, etc.**



“SCIENTIFIC CONTRIBUTION OF APHRS”

Annual Scientific Session Since 2008



Publication
(JOA)

Home > Publications > Journal of Arrhythmia

JOURNAL OF ARRHYTHMIA

Journal of Arrhythmia, the official journal of the Asia Pacific Heart Rhythm Society (APHRS) and the Japanese Heart Rhythm Society (JHRS), aims to provide a scientific platform on which to promote excellence and advancement in the study and care of patients with cardiac rhythm disorders.

The Journal publishes peer-reviewed original clinical and basic research articles, along with case reports on all aspects of cardiac pacing and cardiovascular electrophysiology devoted to the ongoing developments of diagnosis and treatment of arrhythmia. Also included are reviews, editorials, ECGs for students and associated professionals, EPS and related devices for resident physicians, and basic science information for clinicians. Much of the contributed material is requested, but unsolicited submissions are welcome and will be given full consideration.

Co-Editors-in-Chief: Shih-Ann Chen (Taiwan) and Kazuo Matsumoto (Japan)

Consensus documents/
Clinical Studies

Home > Fellowships

FELLOWSHIPS

- APHRS-JHRS Immersion Program
- EP Fellowship Program within Asia-Pacific Region
- APHRS-EHRA Joint Fellowship Program

Training &
Education

Home > Training & Education > For Physicians

TRAINING & EDUCATION

- For Physicians
- For Surgeons
- For Allied Professionals
- For Patients
- E-learning

APHRS Physician Education

The Interventional EP Ablation Curriculum



- Containing 3 modules: **SVT / AF / VT**
- This program, sponsored by Abbott Medical is designed to offer a systematic approach to current and innovative techniques in electrophysiology
- The Interventional EP Ablation Curriculum provides training on signal interpretation, diagnosis, and comprehensive approach to ablation techniques
- It includes theory, case discussions and hands-on practices, providing a platform for interactions with faculty of experts

Training Activities



Live case demonstration



Lecture



Group discussion



Experienced faculty

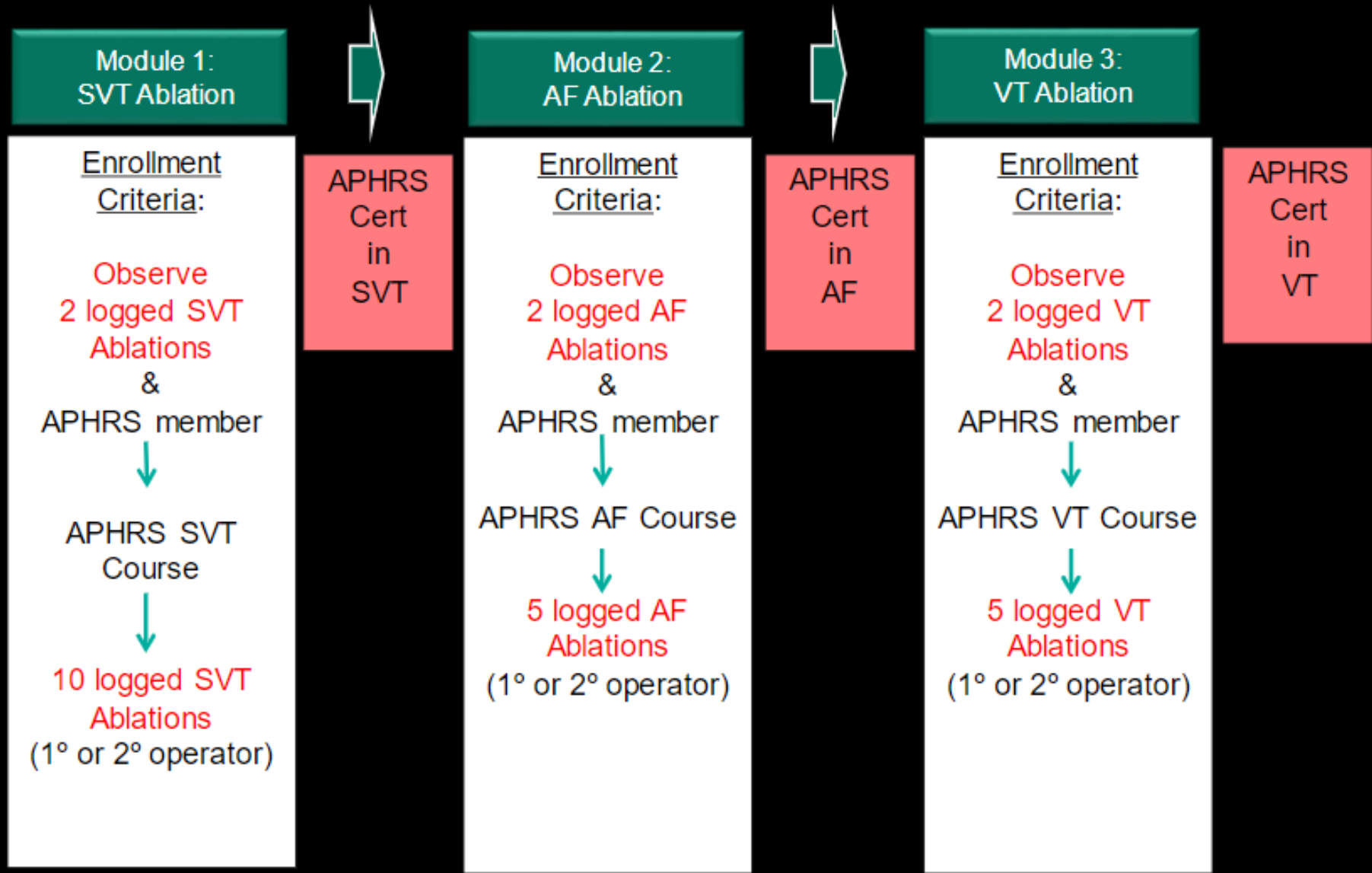


Virtual Reality Simulator Workshop



Pig Heart Dissection

APHRS Interventional EP Ablation Curriculum Overview



Attendance

- 28 EP courses conducted since 2012
- 474 physicians from 18 countries attended training

Country	SVT (8)	AF (13)	VT (7)
Taiwan	2	19	13
Malaysia	14	3	2
HK	4	3	3
Thailand	11	12	12
Korea	8	57	28
China	16	67	40
India	12	11	4
Indonesia	6	5	9
Macau	0	0	0
Vietnam	34	16	9
Bangladesh	0	0	2
Philippines	6	5	2
Singapore	14	2	5
Japan	0	2	0
Australia	2	1	0
Myanmar	9	1	0
Pakistan	0	0	0
Mongolia	0	2	0
Cambodia	1	0	0
Total	139	206	129

VT Module 3G: June 15-16, 2018



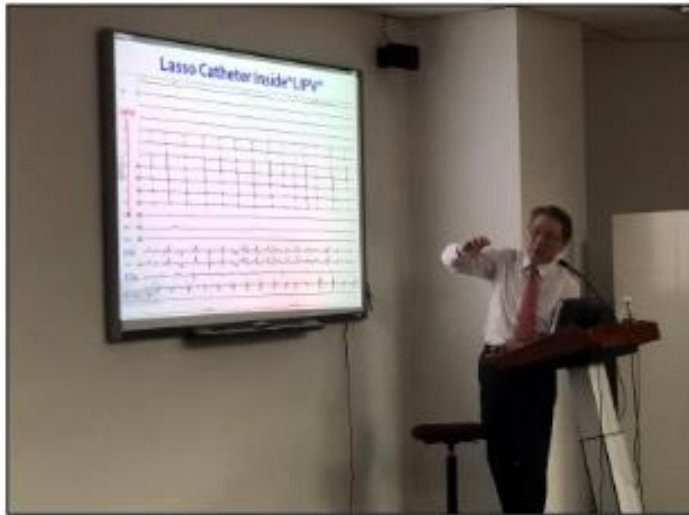
VT Module 3G: June 15-16, 2018



AF Module 2K: July 7-8, 2018



AF Module 2K: July 7-8, 2018





“SCIENTIFIC CONTRIBUTION OF APHRS”

Training & Education



“COUNTRY TO COUNTRY MATCHING EP AID PROJECT”

“COUNTRY TO COUNTRY MATCHING EP AID PROJECT”

Eligibility:

This project is open to the following countries:

- Bangladesh
- Cambodia
- India
- Indonesia
- Laos
- Mongolia
- Myanmar
- Pakistan
- Philippines
- Vietnam

Tentative Matching:

- Korea – Cambodia/Mongolia
- Taiwan – Myanmar
- Japan – Philippines
- Singapore – Laos
- Australia – Indonesia
- China – Vietnam/Pakistan
- New Zealand – Fiji Island



“COUNTRY TO COUNTRY MATCHING EP AID PROJECT”

Project Objective:

To assist the development of EP field in less developed countries in AP region and to make the standard of science equivalent within the region.

Project Information:

1. Onsite Training by APHRS Proctor

- APHRS proctor will visit the assigned country to assist/tutor complex cases on a regular basis (maybe quarterly)
- The visiting team should consist of a proctor, junior physician(s) & allied professional(s) – RN & Medical Technician
- To support local EP/arrhythmia conferences or workshops
- To collect interesting cases and support publications



“COUNTRY TO COUNTRY MATCHING EP AID PROJECT”

Project Information [Cont'd]:

2. Fellowship Training at the Centre of Excellence

- 1 or 2 fellow(s) from the assigned country will then be attached to the proctor's centre for a 1 year fellowship program

3. Infrastructure Support between Countries

- Second-hand EP equipment/catheters from the proctor's centre/country to be donated to the assigned country



“COUNTRY TO COUNTRY MATCHING EP AID PROJECT”

- Ulaanbaatar/Mongolia, Feb, 2017
- The first AF ablation in Mongolia
- The first EP Conference

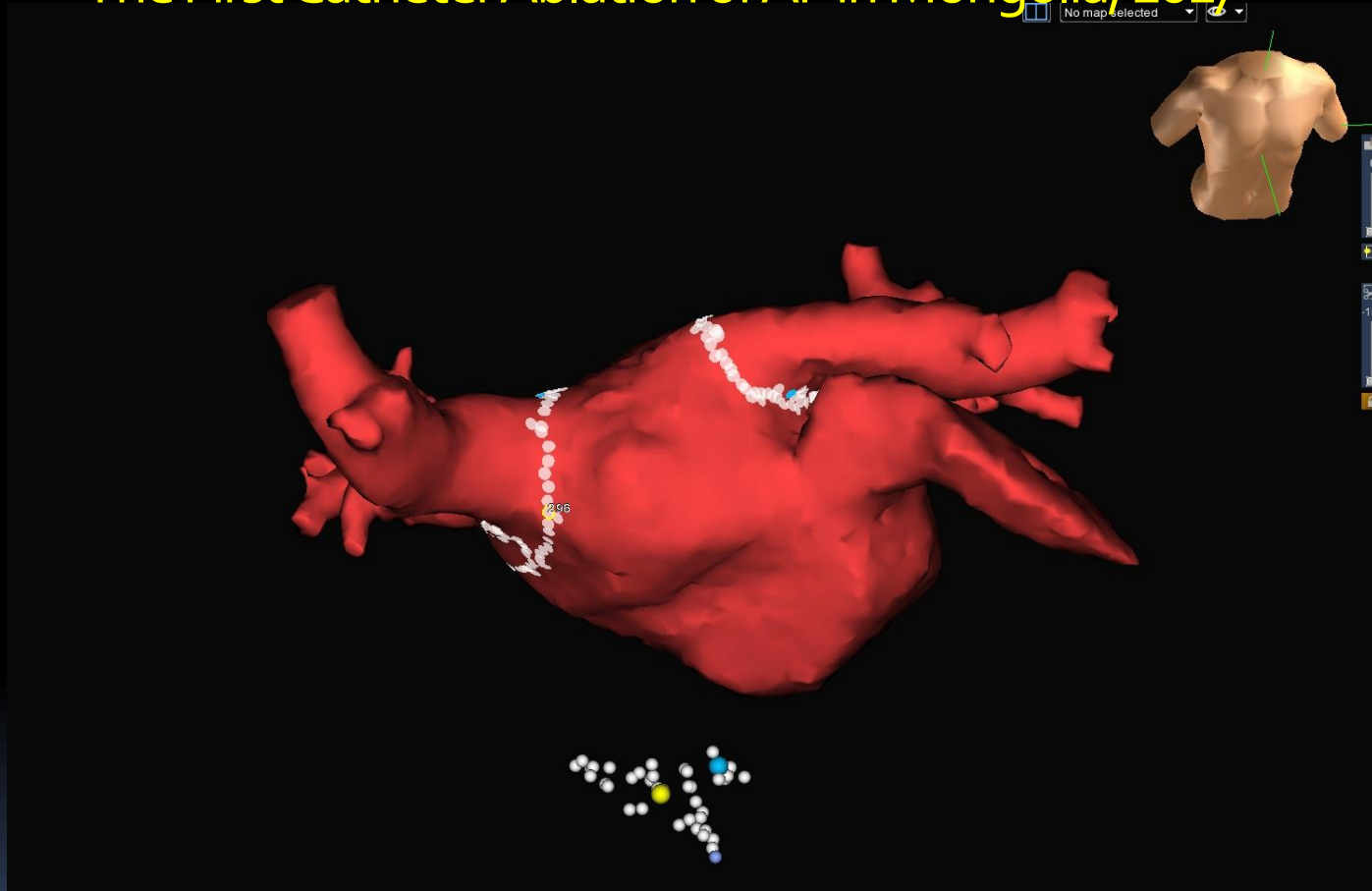


The First Catheter Ablation of AF in Mongolia



Saruul, Batnaran, Kim. Sahastin Hospital

The First Catheter Ablation of AF in Mongolia, 2017



Saruul, Batnaran, Kim. Sahastin Hospital



2019-06-29 Live case.mp4



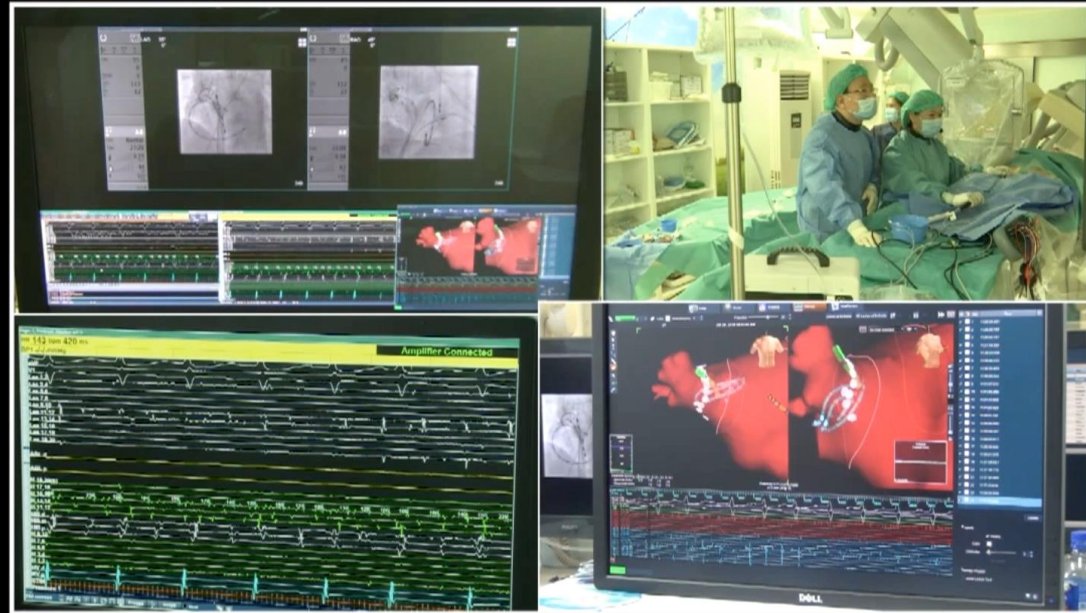
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Volume icon, Play/Pause button, and Share icon

The First Live Transmission Catheter Ablation of AT/AF in Mongolia, 2019

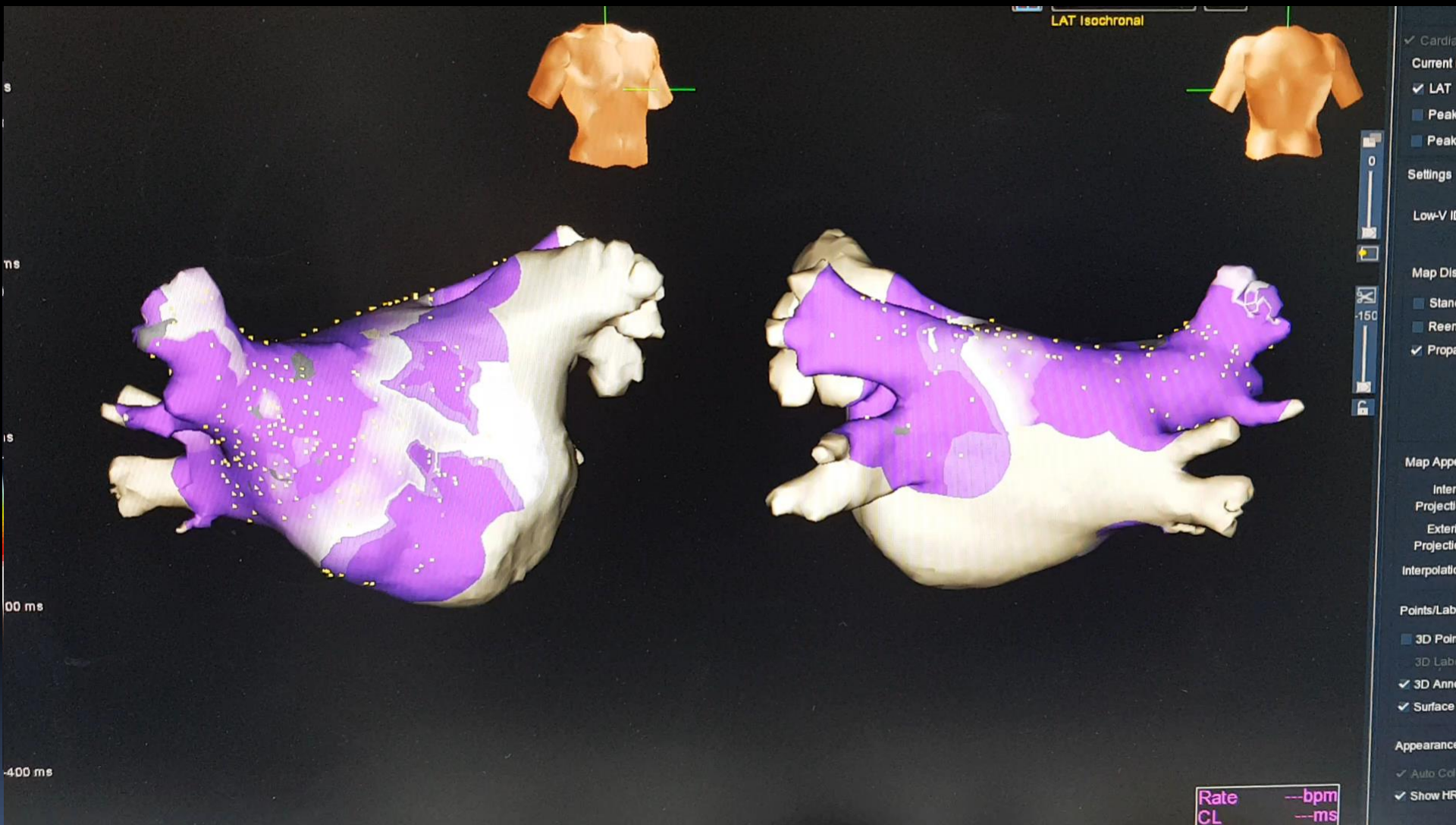


The First Live Transmission Catheter Ablation of AT/AF in Mongolia, 2019



App Store

The First Live Transmission Catheter Ablation of AT/AF in Mongolia, 2019



KOREA-CAMBODIA

- Phnom
- The onl





Dr. Uy Yorn (from Cambodia) in KUMC, 2018



- Calmette Hospital EP Lab
- Hebron Hospital EP Lab
- Soviet Khmer Hospital EP Lab

- Taiwan (TVGH, Dr. Shih-Ann Chen's team) – Myanmar (Yangon, Dr. Nwe Nwe)





"SCIENTIFIC CONTRIBUTION OF APHRS"

Annual Scientific Session Since 2008



1. Scientific session as the best, the highest interactive platform for scientists
2. Emergent evolution and scale up of "Journal of Arrhythmia"
3. Scientific collaboration with HRS, EHRA, and LAHRS
4. Extension of education and training program
5. Expedite C to C EP aid project to try equalization of science inside APHRS

editorials, ECGs for students and associated professionals, EPS and related devices for resident physicians, and basic science information for clinicians. Much for the contributed material is requested, but unsolicited submissions are welcome and will be given full consideration.

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TRAINING & EDUCATION

For Physicians

For Surgeons

For Allied Professionals

For Patients

E-learning



Thanks to mould-breaking champions and heroes,
our science today is the future.

