

# European Heart Rhythm Association (EHRA)/Heart Rhythm Society (HRS)/Asia Pacific Heart Rhythm Society (APHRS)/Latin American Heart Rhythm Society (LAHRS) expert consensus on arrhythmias and cognitive function: what is the best practice?

Nikolaos Dagres (EHRA Chair),<sup>1,\*</sup> Tze-Fan Chao (APHRS Co-Chair),<sup>2</sup>  
 Guilherme Fenelon (LAHRS Co-Chair),<sup>3</sup> Luis Aguinaga,<sup>4</sup> Daniel Benhayon,<sup>5</sup>  
 Emelia J. Benjamin,<sup>6</sup> T. Jared Bunch,<sup>7</sup> Lin Yee Chen,<sup>8</sup> Shih-Ann Chen,<sup>2</sup>  
 Francisco Darrieux,<sup>9</sup> Angelo de Paola,<sup>10</sup> Laurent Fauchier,<sup>11</sup> Andreas Goette,<sup>12</sup>  
 Jonathan Kalman,<sup>13</sup> Lalit Kalra,<sup>14</sup> Young-Hoon Kim,<sup>15</sup> Deirdre A. Lane,<sup>16,17</sup>  
 Gregory Y.H. Lip,<sup>16,17</sup> Steven A. Lubitz,<sup>18</sup> Manlio F. Márquez,<sup>19</sup> Tatjana Potpara,<sup>20,21</sup>  
 Domingo Luis Pozzer,<sup>22</sup> Jeremy N. Ruskin,<sup>18</sup> Irina Savelieva,<sup>23</sup> Wee Siong Teo,<sup>24</sup>  
 Hung-Fat Tse,<sup>25</sup> Atul Verma,<sup>26</sup> Shu Zhang,<sup>27</sup> Mina K. Chung (HRS Co-Chair)<sup>28</sup>

**Reviewers:** William-Fernando Bautista-Vargas (Colombia), Chern-En Chiang (Taiwan), Alejandro Cuesta (Uruguay), Gheorghe-Andrei Dan (Romania), David S. Frankel (USA), Yutao Guo (People's Republic of China), Robert Hatala (Slovakia), Young Soo Lee (Republic of Korea), Yuji Murakawa (Japan), Cara N. Pellegrini (USA), Claudio Pinho (Brazil), David J. Milan (USA), Daniel P. Morin (USA), Elenir Nadalin (Brazil), George Ntaios (Greece), Mukund A. Prabhu (India, Australia), Marco Proietti (UK, Italy), Lena Rivard (Canada), Mariana Valentino (Argentina), and Alena Shantsila (Reviewer Coordinator) (UK)

From the <sup>1</sup>Department of Electrophysiology, Heart Center Leipzig, Strümpellstr. 39, 04289 Leipzig, Germany,  
<sup>2</sup>Taipei Veterans General Hospital, Taipei, Taiwan, <sup>3</sup>Hospital Israelita Albert Einstein, São Paulo, Brazil,  
<sup>4</sup>Centro Privado de Cardiología, Tucumán, Argentina, <sup>5</sup>Cardiac and Vascular Institute, Memorial Health, Hollywood, FL, USA, <sup>6</sup>Boston University Schools of Medicine and Public Health, Framingham Heart Study, Boston, MA, USA, <sup>7</sup>Intermountain Medical Center, Murray, UT, USA, <sup>8</sup>Cardiovascular Division, Department of Medicine, University of Minnesota, Minneapolis, MN, USA, <sup>9</sup>University of São Paulo Medical School, São Paulo, Brazil, <sup>10</sup>Escola Paulista de Medicina, Universidade Federal de São Paulo, São Paulo, Brazil, <sup>11</sup>Service de Cardiologie, Centre Hospitalier Universitaire Trousseau, Université François Rabelais, Tours, France, <sup>12</sup>Department of Cardiology and Intensive Care Medicine, St. Vincenz-Hospital Paderborn, Working Group: Molecular Electrophysiology, University Hospital Magdeburg, Germany, <sup>13</sup>University of Melbourne, Royal Melbourne Hospital, Melbourne, Victoria, Australia, <sup>14</sup>King's College London, London, UK, <sup>15</sup>Korea University Medical Center, Seoul, Republic of Korea, <sup>16</sup>Institute of Cardiovascular Sciences, University of Birmingham, Birmingham, UK,

**KEYWORDS** Arrhythmias; Asia Pacific Heart Rhythm Society; Cognitive; Dementia; European Heart Rhythm Association; Heart Rhythm Society; Latin American Heart Rhythm Society (Heart Rhythm 2018; ■:e1-e24)

Developed in partnership with and endorsed by the European Heart Rhythm Association (EHRA), a registered branch of the European Society of Cardiology (ESC); the Heart Rhythm Society (HRS); the Asia Pacific Heart Rhythm Society (APHRS); and the Latin American Heart Rhythm Society (LAHRS). This article has been co-published with permission in *EP Europace*, *HeartRhythm*, and *Journal of Arrhythmia*. The articles are identical except for minor stylistic and spelling

differences in keeping with each journal's style. Either citation can be used when citing this article. For copies of this document, please contact the Elsevier Inc. Reprint Department ([reprints@elsevier.com](mailto:reprints@elsevier.com)). Permissions: Multiple copies, modification, alteration, enhancement, and/or distribution of this document are not permitted without the express permission of the Heart Rhythm Society. Instructions for obtaining permission are located at <https://www.elsevier.com/about/our-business/policies/copyright/permissions>. \*Corresponding author: Dr Nikolaos Dagres, Department of Electrophysiology, Heart Center Leipzig, Strümpellstr. 39, 04289 Leipzig, Germany. E-mail address: [dagresnikolaos@gmail.com](mailto:dagresnikolaos@gmail.com).

<sup>17</sup>Aalborg Thrombosis Research Unit, Department of Clinical Medicine, Aalborg University, Aalborg, Denmark, <sup>18</sup>Massachusetts General Hospital, Boston, MA, USA, <sup>19</sup>Department of Electrocardiography, Instituto Nacional De Cardiología, Mexico City, Mexico, <sup>20</sup>School of Medicine, Belgrade University, Belgrade, Serbia, <sup>21</sup>Cardiology Clinic, Clinical Center of Serbia, Belgrade, Serbia, <sup>22</sup>Instituto de Cardiología de Corrientes, Corrientes, Argentina, <sup>23</sup>Cardiology Clinical Academic Group, Molecular and Clinical Sciences Research Institute, St. George's University of London, London, UK, <sup>24</sup>National Heart Centre, Singapore, Singapore, <sup>25</sup>Department of Medicine, The University of Hong Kong, Hong Kong, China, <sup>26</sup>Southlake Regional Health Centre, Ontario, Canada, <sup>27</sup>Beijing Fuwai Hospital, Beijing, People's Republic of China, and <sup>28</sup>Cleveland Clinic, Cleveland, OH, USA.

## TABLE OF CONTENTS

Table of Contents .....	e2	procedures and cognitive function .....	e15
Introduction .....	e2	Current knowledge gaps, future directions, and areas for research .....	e18
Evidence review .....	e2	Recommendations .....	e18
Relationships with industry and other conflicts .....	e3	Supplementary material .....	e20
Decline of cognitive function: terminology and epidemiology .....	e3	References .....	e20
Terminology: cognitive decline, mild cognitive impairment, and dementia ....	e3		
Epidemiology of dementia .....	e3		
Methods for assessment of cognitive function .....	e4		
Role of imaging .....	e4		
Atrial fibrillation and cognitive function ...	e5		
Atrial fibrillation, overt stroke, and cognitive function .....	e5		
Atrial fibrillation, silent stroke, and cognitive function .....	e8		
Atrial fibrillation and cognitive function in the absence of stroke .....	e9		
Assessment of cognitive function in atrial fibrillation patients in clinical practice .....	e9		
Prevention of cognitive dysfunction in atrial fibrillation patients .....	e10		
Other arrhythmias and cognitive dysfunction .....	e12		
Cognitive dysfunction in patients with regular supraventricular tachycardias ..	e12		
Cognitive impairment after cardiac arrest .....	e12		
Brain injury after non-fatal cardiac arrest .....	e12		
Memory impairment after cardiac arrest .....	e12		
Therapeutic hypothermia to prevent cognitive impairment after cardiac arrest .....	e13		
Cardiac implantable electronic devices and cognitive dysfunction .....	e13		
Catheter ablation .....	e14		
Implications for electrophysiological			

Download English Version:

<https://daneshyari.com/en/article/8660188>

Download Persian Version:

<https://daneshyari.com/article/8660188>

[Daneshyari.com](https://daneshyari.com)