The New Millennium Epidemic of **Atrial Fibrillation**



The 'Get Smart About AFib' campaign is designed to tackle the escalating epidemic of atrial fibrillation (AF), which has doubled in prevalence over the past decade.²

Campaign aims

- Generate awareness of AF
- Drive screening and detection of AF
- Support earlier referral and treatment

Who is at risk?

The number of people with AF is expected to increase significantly in the next 30-50 years due to an ageing population and increasing prevalence of risk factors, including arterial hypertension and diabetes³

65 +65+) 65+) 65+) 65+ 65+

Nearly 8 out of 10 ADULTS

suffering from (or diagnosed with) AF or Atrial Flutter are 65 years old or older¹

Addressing the rising trend across Europe



- AF is the most common cause of heart arrhythmia and is becoming more widespread, affecting 11 million people across Europe¹
- By 2030, the number of people with AF is projected to increase by up to 70%²
- Europe will have the greatest number of AF patients compared with other regions by 2050³

AF increases the risk of life-threatening conditions

- AF disrupts the normal flow of blood through the heart, which can lead to the formation of blood clots, causing loss of cardiac function and/or stroke⁵
- AF increases a patient's risk of life-threatening events and conditions, including ٠ stroke, heart failure and death.6
- Up to 20% of all strokes occur in AF patients^{2, 6}

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Increase cardiovascular mortality

Burden of AF on patients

- The most common symptoms of AF include palpitations, fatigue, shortness of breath, general malaise and dizziness^{2,7-9}
- These symptoms can impact significantly on a patient's quality of life

Burden on healthcare systems

AF places a critical financial and resource impact on health systems across Europe

- The reported costs range from €660 million up to €3.286 billion¹²⁻¹⁶
- By 2030 the number of stroke events and medical visits associated with AF is expected to increase



REDUCTION **IN QUALITY** OF LIFE^{±10-11}

280,000-340,000 **NEW ISCHEMIC** STROKES²

3.4-4 MILLION **HOSPITALI-**SATIONS²

100-120 **OUTPATIENT VISITS²**

Early detection is key

AF is a progressive disease that becomes more difficult to manage the longer it persists⁹

Early detection and diagnosis of AF may help improve patient outcomes, since long history and duration of AF have been associated with recurrence.24-25

Tackling the rising challenge of AF

Get Smart about Screening

Approximately 15-30% of AF patients may experience no symptoms at all, known as 'Silent AF' Guidelines recommend:4

 Opportunistic screening (e.g. during) routine blood pressure monitoring) for

Help Patients Get Smart about AF [replace with local name of campaign]

45% of patients don't believe AF can be lifethreatening.²⁰ You can:

- Educate patients about AF and the risk of serious complications
- Encourage patients over 40 years or with risk factors to regularly check their pulse and report any concerns to their doctor

Burden



people over 65 years by pulse taking or through an ECG test⁷

- Systematic screening of patients at high risk of stroke to identify those who would benefit from prophylactic anticoagulation therapy⁴
- Encourage patients to play a central role in the decision-making and care process to encourage self-management
- Actively discuss available treatment options with informed patients

* Based on functional capacity, as measured using the Goldman Specific Activity Scale, in AF patients (score, 75 [standard deviation (SD) 20) vs. healthy individuals (score, 93 [SD 11)).
† As measured using the Ilmess Intrusiveness scale in AF patients (score, 35 [SD 15]) vs. health individuals (score, 28 [SD 19]).
‡ As measured using the Ilmess Intrusiveness scale in AF patients (score, 35 [SD 15]) vs. health individuals (score, 28 [SD 19]).

References

For MORE INFORMATION related to Atrial Fibrillation, please visit **GETSMARTABOUTAFIB.EU**

1. Global Burden of Disease Collaborative Network (2016) Global Burden of Disease Study 2016 (GBD 2016) Results. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2017. Available from http://ghdx.health/data.org/gbd-results-tool last accessed June 2019. 2. Zoni-Berisso M (2014). Clin Epidemiol 6 213-220. 3. Rahman F et al (2014). Nat Rev Cardiol 11 (11): 639-664. 4. Mairesse G et al. Europace (2017) (19) 1589-1623 5. European Heart Network (2015) Atrial Fibrillation and Cardiovascular Diseases – accessed at http://www.ehnheart.org/component/attachments/attachments/attachments/attachments.html?task=download&folder=publications&id=2205 6. Kirchhof P et al. (2016) Eur Heart J 37 (38): 2893-2962. 7. Rienstra M et al. (2012) Circulation 125 (23): 2933-2943. 8. Lip GY et al. (2014) Eur Heart J 35 (47): 3365-3376. 9. Van Gelder I et al. (2006) Europace (2006) 8. 943-949 10. Dorian P et al. (2000 Am Coll Cardiol 36 (4): 1303-130. 11, and en Berg MP et al (2001) Eur Heart J 22 (3): 247-253 12. McBride D et al. (2009). Value Health 12 (2): 293-301. 13. Ball J et al (2013) 167 (5): 1807-1824. 14. Cotte FE. (2016). Europace 18 (4): 501-507. 15. Stewart S et al (2004) Heart 190 (3): 286-292. 16. GBD 2016 Disease and Injury Incidence and Prevalence Collaborators (2017). Lancet 390 (10100): 1211-1259. 17. Scherr D et al. (2015) Circ Arrhythm Electrophysiol 8 (1): 18-24. 18. Pathak RK et al. (2014) J Am Coll Cardiol 64 (21): 2222-2231. 19. Neieuwalat R et al. (2008) Eur Heart J 29 (9): 1181-1189. 20. Aliot E et al (2010). Europace 12(5):626-33. 21. Lip GY et al. (2014) Eur Heart J 35 (47): 3365-3376. 22. Dorian P et al. (2000). J Am Coll Cardiol 64 (21): 2222-2231. 26. Neieuwalat R et al. (2008) Eur Heart J 29 (9): 1181-1189.

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TREATING ATRIAL FIBRILLATION (AF)

Millions of Europeans suffering from 'new millennium epidemic' may be missing out on life-saving procedure

WHAT IS AF?

Atrial fibrillation (AF) is characterized by an irregular and often fast heart rhythm that results in uncoordinated contraction of the top 2 chambers of the heart (the atria)¹



11 million people affected across Europe²



AF increases the risk of other potentially fatal conditions³



Increase heart failure





Increase stroke



Increase cardiovascular mortality

The seriousness of AF is critically misunderstood:

OF PATIENTS

mistakenly believe it is not a lifethreatening condition⁴ The latest guidelines recommend an integrated management strategy to:^{5,6}



Tailor management to patient preferences



TREATMENT

Treatment focuses on managing irregular heart rhythm, improving symptoms and reducing complications, with the aim of improving life expectancy and quality of life⁵

Patients should have a principal role in making decisions regarding their care, informed by a multidisciplinary team of:5



Cardiologists



Electrophysiologists



Non-specialist healthcare professionals: primary care physicians, registered nurses, etc



Allied health professionals: dietitians, medical technologists, etc

TREATMENT PATHWAY⁵



Management of **underlying** cardiovascular risk factors and reducing stroke risk to improve life expectancy and quality of life

Medical procedures (e.g. electrical or pharmaceutical cardioversion) that restore a normal heart rhythm when the patient is experiencing an AF episode

Rate control therapies to control the heart rate

Rhythm control therapies, including antiarrhythmic drugs (AADs) and catheter ablation, to maintain normal sinus rhythm for the long-term

SPOTLIGHT:

Rhythm control therapies - management of AF over the long-term



DRUG THERAPY TREATMENT (AADS)

AADs act to suppress the firing of, or depress the transmission of abnormal electrical signals which cause arrhythmia⁵

Examples: Sodium channel blockers (disopyramide, quinidine, flecainide, propafenone) and potassium channel blockers (amiodarone, dronedarone, dofetilide, sotalol)⁵ **CATHETER ABLATION**



Interventional procedure to create small scars on targeted parts of heart tissue that block the abnormal electrical signals causing the arrhythmia⁵⁻⁶





Catheter ablation is more clinically effective and cost effective compared to drug therapy for the treatment of patients with AF^{7,19,28-31}

Iaizzo PA (2015). Handbook of Cardiac Anatomy, Physiology and Devices. Springer Science and Business Media. Switzerland; 2. Global Burden of Disease Collaborative Network (2016) Global Burden of Disease Study 2016 (GBD 2016) Results. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2017. Accessed October 2019. Available from https://gbd2016.healthdata.org/gbd-search/; 3. Odutayo A et al. (2016), *BMJ* 354:i4482; 4. Aliot E, et al. (2010), *Europace* 12 (5):626-633; 5. Kirchhof P, et al. (2016), *Eur Heart* 37 (38):2893-2962; 6. Calkins H, et al. (2017), *Heart Rhythm* 14 (10):e275-e444; 7. Lafuente-Lafuente C, et al. (2015). *Cochrane Database Syst Rev* (3): Cd00504; 8. Hussein A, et al. (2017), *J Cardiovasc Electrophysiol* 28 (9):1037-1047; 9. Taghji P, et al. (2018). *JACC Clin Electrophysiol* 4 (1): 99-108; 10. Philps T, et al. (2018). *Europace* 20 (FI_3): f419-f427; 11. Solimene F, et al. (2019), *J Interv Card Electrophysiol* 54 (1):9-15; 12. Di Giovanni G, et al. (2014), *J Cardiovasc Electrophysiol* 25 (8):834-839; 13. Jourda F, et al. (2015), *Europace* 18 (2):201-205; 15. Guhl EN, et al. (2016), *J Cardiovasc Electrophysiol* 27 (4):423-427; 16. Irfan G, et al. (2016), *Europace* 18 (7):987-993; 17. Boveda S, et al. (2018), *JACC Clin Electrophysiol* 4 (11):1440-1447; 18. Bunch TJ, et al. (2011), *Journal of Cardiovascular Electrophysiol* 92 (8):839-845; 19. Jais P, et al. (2008), *Circulation* 118 (24):2498-2505; 20. Mark DB, et al. (2013), *Pharmacoeconomics* 31 (3):195-213; 24. Nilsson J, et al. (2013), *Eur J Health Econ* 14 (3):481-493; 25. Akerborg 0, et al. (2012), *Clin Thers* 44 (8):1788-1802; 26. Weerasooriya R, et al. (2013), *Pharmacoeconomics* 31 (3):195-213; 24. Nilsson J, et al. (2013), *Eur J Health Econ* 14 (3):481-493; 25. Akerborg 0, et al. (2012), *Clin Thers* 34 (8):1788-1802; 26. Weerasooriya R, et al. (2013), *Pharmacoeconomics* 31 (3):195-213; 24. Nilsson J, et al. (2013), *Eur J Health Econ* 14 (3):481-493; 25. Akerborg 0, et al. (2012),

A copy of the full report can be downloaded from https://getsmartaboutafib.net/en-EMEA/home



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