



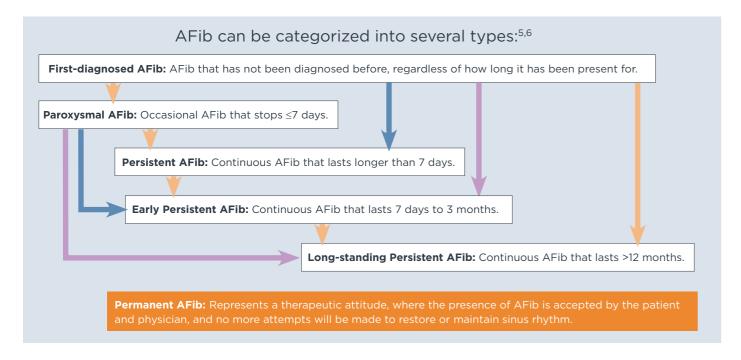
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What is Atrial Fibrillation and why is it important?

Atrial Fibrillation (AFib) is characterized by an irregular and often fast heartbeat that results in uncoordinated contraction of the atria.1

AFib is the most common type of cardiac arrhythmia, and affects over 5.5 million people in the U.S., and over 33 million people worldwide.² In the U.S., AFib is the primary cause of over 750,000 hospitalizations and approximately 150,000 deaths each year.⁴



Risk factors for AFib include:

LIFESTYLE FACTORS⁵⁻⁶



- Obesity
- Smoking
- Alcohol consumption
- Caffeine consumption

OTHER CONDITIONS7-11



- High blood pressure
- Heart failure
- History of heart attack
- Coronary artery disease
- Other heart disease

NON-**MODIFIABLE** FACTORS⁵⁻¹¹

- Older age
- · Family history or other genetic factors
- Male sex

Early detection and diagnosis of AFib may help improve patient outcomes, since a long history and duration of AFib have been associated with recurrence.¹²





Symptoms of AFib disrupt daily life and range from mild to debilitating. 19-21 The most common symptoms are:14, 22, 23



PALPITATIONS

50% **FATIGUE** 43% **SHORTNESS**

OF BREATH

30% **MALAISE**



19% **DIZZINESS** 12% **ANXIETY**

12% **CHEST PAIN** 5% **OTHER**

Patients with AFib have an increased risk for life-threatening complications and other diseases:4,24









AFib worsens quality of life for patients and caregivers. 19, 25

AFib increasingly places a critical financial burden on the healthcare system, costing an estimated \$37.2B in the United States in 2020.²

Following the diagnosis of AFib, the 2014 AHA/ACC/HRS guidelines recommend an integrated and structured approach to patient care and AFib management that involves multidisciplinary healthcare teams and places patients in a central role in decision-making.²⁶

Oral Anticoagulation Therapy for Stroke Prevention in patients with AFib ²⁶	In patients with CHA ₂ DS ₂ -VASc score ≥2, oral anticoagulation is recommended.
Rate Control Therapy to Lower and Control Heart Rate and Improve Symptoms of AFib ²⁶	In patients with LVEF <40% or signs of congestive HF, low dose β-blockers are recommended .
	In patients with LVEF ≥40%, β-blockers or non-dihydropyridine calcium channel antagonists are recommended.
	The recommended target heart rate to achieve is <110bpm.
Acute Rhythm Control Therapy to Restore Normal Sinus Rhythm ⁵	Pharmacological or electrical cardioversion is recommended when patients have:
	– No or minimal signs of heart disease
	Coronary artery disease or left ventricular hypertrophy
	- Heart failure
	Electrical cardioversion is recommended when:
	– Hemodynamic instability is present
Rhythm Control Therapy to Maintain Normal Sinus Rhythm and Improve Symptoms of AFib ²⁶ Guidelines recommend that treatment with AADs, catheter ablation, and/or surgical ablation be	AAD usage : needs to consider the presence of comorbidities, cardiovascular risk, potential for proarrhythmia, toxic effects, symptom burden, and patient preference. ²
dependent on patient choice. ²⁶	Catheter ablation recommended in:
	 Symptomatic paroxysmal AFib patients refractory/intolerant to ≥1 AADs (Class I or III)
	Catheter ablation may be considered in:
	Persistent or long-standing persistent AFib
	- Congestive HF
	– Older patients (>75 years)
	- Younger patients (<45 years)
	- Hypertrophic cardiomyopathy
	- Asymptomatic AFib
Selection of 2 nd Rhythm Control Therapy After Failure of 1 st Rhythm Control Therapy. ⁵	After failure of first-line medical therapy or catheter ablation, patients can work closely with multidisciplinary care teams to decide on the most appropriate treatment:
	- Another AAD
	- Catheter ablation (first or repeat)
	– Hybrid therapy

Abbreviations: AAD = antiarrhythmic drug; AFib = Atrial Fibrillation; AVR = aortic valve replacement; CABG = coronary artery bypass graft; CHA₂DS₂-VASc = Congestive Heart failure, hypertension, Age ≥75 (doubled), Diabetes, Stroke (doubled), Vascular disease, Age 65–74, and Sex (female); HF = heart failure; LVEF = left ventricular ejection fraction

Current treatment options available for managing AFib

The therapeutic goal of the initial management strategy for AFib is to treat any underlying cardiovascular conditions and reduce the risk of stroke.⁵

RATE CONTROL THERAPIES²⁶



PHARMACOLOGICAL

Beta blockers or non-dihydropyridine calcium channel antagonists, digitalis glycosides, or amiodarone



RHYTHM CONTROL THERAPIES^{5, 26}

RHYTHM CONTROL THERAPIES FOR AN EPISODE OF AFIB



ELECTRICAL CARDIOVERSION



PHARMACOLOGICAL CARDIOVERSION

NON-EPISODIC RHYTHM CONTROL THERAPIES



PHARMACOLOGICAL



CATHETER ABLATION



HYBRID THERAPY



When multidisciplinary AF treatment teams were utilized to select appropriate treatment for AF patients, significant reductions in health resource utilization, inpatient admission rate and length of stay were observed.^{27, 46, 47}

Significent difference, p<0.001

DRUG THERAPY

DRUG THERAPY

What is the impact of antiarrhythmic drug therapy in managing AFib?

Antiarrhythmic drug therapy is an integral part of maintaining sinus rhythm after cardioversion; antiarrhythmic drugs act to suppress the firing of or depress the transmission of abnormal electrical signals.⁵

CLINICAL IMPACT

Antiarrhythmic drug therapy is safe and moderately effective at maintaining normal sinus rhythm; its impact on AFib-related complications such as stroke, heart failure and mortality have been demonstrated in a limited number of studies.

AADs are moderately effective:





ECONOMIC IMPACT

Antiarrhythmic drug therapy is cost effective and affordable in the short term, but can be costly over the long term.

Several studies show that AADs are cost effective, with key drivers including reduced adverse events, stroke, and mortality.³⁰⁻³²



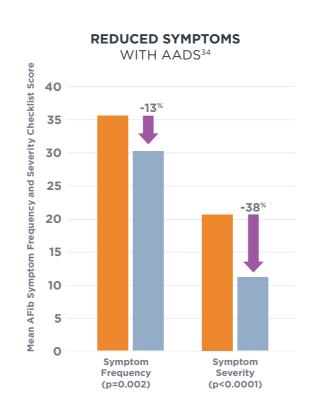


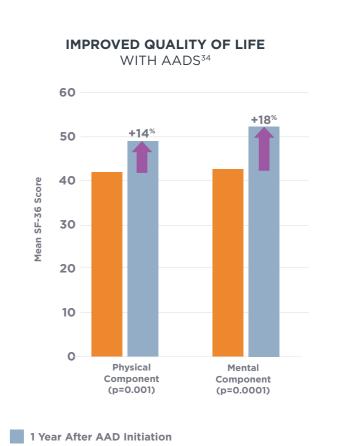
INCREASES 28% ANNUALLY over 9 years*33

Cost of AAD therapy is influenced by its **toxicity level** and **effectiveness** in restoring sinus rhythm and **reducing the risk of AFib-related complications**.³⁰⁻³²

PATIENT IMPACT

Antiarrhythmic drug therapy is effective at controlling symptoms of AFib and significantly improves patient quality of life.





Abbreviations: AAD = antiarrhythmic drug; AFib = Atrial Fibrillation; SF-36 = Short Form 36 questionnaire.

Source: Jais et al. (2008)

Before AAD Initiation

*From one study performed in France; data were limited for the United States.

CATHETER ABLATION CATHETER ABLATION

What is the impact of catheter ablation in managing AFib?

Catheter ablation is used to create small scars on targeted parts of heart tissue that block the abnormal electrical signals causing the arrhythmia.^{5,6}

CLINICAL IMPACT

Catheter ablation is highly effective at maintaining sinus rhythm, is associated with a low rate of adverse events and reduced risk of AFib-related complications, including stroke, dementia, heart failure, and mortality.

 Catheter ablation is highly effective in eligible patients with AFib, with recent studies reporting high rates of freedom from atrial arrhythmias at one year with advanced catheter ablation technology. After a single procedure

84%=94% FREEDOM

from atrial arrhythmia in

PAROXYSMAL AFIB AT 1 YEAR³⁵⁻³⁷

ECONOMIC IMPACT

Catheter ablation is cost effective: it reduces the need for unplanned medical visits, additional treatments to control AFib, and subsequent treatment for long-term consequences of AFib, in turn, reducing overall healthcare cost.

CATHETER ABLATION

reduces the need for unplanned ER visits and hospitalizations by up to

80%

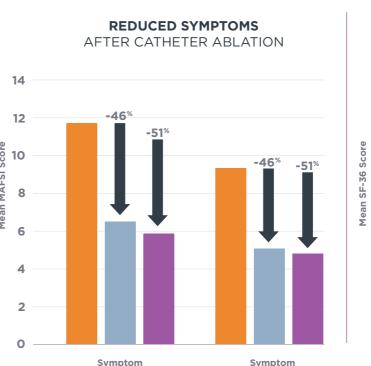
as compared to before ablation*, 38, 44, 45 (p<0.05)

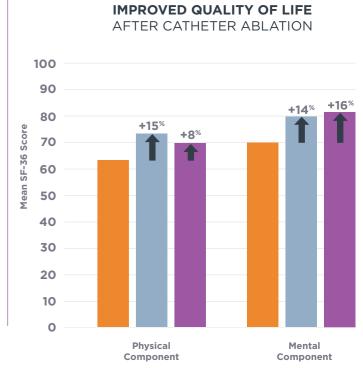
*At 2 years based on evidence from Canada

PATIENT IMPACT

Catheter ablation is highly effective at controlling symptoms of AFib and significantly improves patient quality of life.

Reductions in symptom severity and improvements in quality of life after catheter ablation of AFib are **maintained over long-term follow-up**.³⁹





■ Baseline ■ 12 Months ■ 60 Months

Severity

Source: Mark et al. (2019) All results significant, where p<0.01

Frequency

10

What is the impact of catheter ablation compared to drug therapy in managing AFib?



DRUG THERAPY (AADS)



EFFICACY





of patients are
FREE FROM ARRHYTHMIA RECURRENCE
AT 1 YEAR³⁵

QUALITY OF LIFE





IMPROVEMENT
IN QUALITY OF LIFE³⁹

ADVERSE EVENTS



of patients
WITHDRAW FROM MEDICAL
THERAPY due to adverse events²⁸



of ablation patients experience
AN ABLATION-RELATED adverse
events⁴⁴

COMPLICATING CONDITIONS RELATED TO AFIB



Patients receiving drug therapy will experience 5.57 AFib-related events per 100 person-years^{*} incuding **DEATH, STROKE, CARDIAC ARREST AND CARDIOVASCULAR HOSPITALIZATION**⁴⁰



Patients receiving ablation will experience 30% FEWER AFIB-RELATED EVENTS, with an average of 3.84 AFib-related events per 100 person-years^{*40}

COSTS



cumulative costs can rise over time with costs increasing ANNUALLY over 9 years³⁰⁻³³



PROJECTING COSTS
TO 10 YEARS
AFTER ABLATION

Catheter ablation was associated with a



Earlier treatment of Paroxysmal AFib delays disease progression.⁴¹



Patients with Paroxysmal AFib who undergo Catheter ablation are

UP TO 10X less likely to progress to persistent AFib than those on AADS*41

*Events per 100 person-years. HR: 0.70 (0.63-0.77) p<0.001

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CONCLUSION CONCLUSION

The 2014 AHA/ACC/HRS guidelines on the management of AFib and the 2017 HRS/EHRA/ECAS/APHRS/SOLAECE expert consensus statement on catheter and surgical ablation of AFib recommend an integrated management strategy to reduce mortality, tailor management to patient preferences, and reduce hospitalizations.

AFib patient care pathway management includes:5,6

MANAGEMENT of underlying to improve life expectancy and cardiovascular risk factors and REDUCING quality of life **STROKE RISK ELECTRICAL OR PHARMACEUTICAL** when a patient is experiencing **CARDIOVERSION** an AF episode **RATE CONTROL THERAPIES** to control heart rate **RHYTHM CONTROL THERAPIES** including antiarrhythmic drugs and catheter ablation, to maintain normal sinus rhythm

When MULTIDISCIPLINARY AF TREATMENT TEAMS were utilized to select appropriate treatment for AF patients, significant reductions in health resource utilization, inpatient admission rate and length of stay were observed.^{27, 46, 47}

Education and screening programs aimed at **INCREASING AWARENESS AND DIAGNOSIS OF AFIB** are critical to **reducing the risk of stroke and death** in patients with undiagnosed AFib. 42,43

EARLIER ABLATION OF AFIB after diagnosis **improves** ablation-related outcomes and may reduce costs over the long term.^{26, 41}



Antiarrhythmic drug (AAD) therapy is MODERATELY

EFFECTIVE. It is commonly associated

with treatment withdrawals, however, it has been shown to improve quality of life, and is affordable in the short term.

With drug therapy treatment:



of patients are in **NORMAL SINUS RHYTHM** AT 1 YEAR²⁸

Up to

IMPROVEMENT 18% IN QUALITY OF

LIFE³⁴



of patients WITHDRAW FROM TREATMENT DUE **TO ADVERSE EVENTS²⁸**

Catheter ablation is HIGHLY EFFECTIVE.

associated with a low rate of procedurerelated adverse events, and has been shown to reduce the rate of AFibrelated complications. It has also been shown to improve quality of life, and reduce resource utilization.

With catheter ablation treatment:

of patients are Up to 94% FREE FROM **ARRHYTHMIA RECURRENCE** AT 1 YEAR³⁵

IMPROVEMENT lpha IN QUALITY OF LIFE³⁹

1_8% of patients experience a PROCEDURE-**RELATED ADVERSE EVENT**⁴⁴

Catheter ablation is more effective than drug therapy at preventing AFib recurrence, complicating conditions related to AFib, provides a significantly greater improvement in quality of life, and is less costly over the long term:

Up to

improvement in survival 48% FREE FROM ATRIAL **ARRHYTHMIA**

> over 4 years after ablation, as compared to drug therapy⁴⁴

Patients with Paroxysmal AFib who undergo catheter ablation are

LESS LIKELY TO PROGRESS **TO PERSISTENT AFIB** than those on AADs*41



OF COMPLICATIONS

compared with drug therapy.44

*(HR 0.11; 95% CI 0.025-0.483; p=0.0034.)

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