

RealiseAF

An International, Observational, cross sectional survey evaluating atrial fibrillation management and the cardiovascular risk profile of AF patients

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Real life global survey evaluating patients with Atrial Fibrillation

Presenter Disclosures

- **Research grant:** Yes
- **Speaking or consulting:** Yes
- **Stockholding:** No

The RealiseAF is sponsored by sanofi-aventis



Rationale

- RealiseAF provides a snapshot of AF management that could not be generated in clinical trials which only enroll selected populations
- RealiseAF, the largest AF registry to date, was designed to assess patient characteristics, the control of atrial fibrillation and to investigate the quality of life of AF patients.



Methods

An international, large scale cross-sectional survey

Conducted in over 10,000 patients in 26 countries in 2009/2010



Patients

- Inclusion criteria
 - History of AF with at least one AF episode documented by ECG or by Holter monitoring, in the last 12 months.
 - Signed informed consent
- Exclusion criteria
 - Inability to provide consent
 - Post operative AF (< 3 months after surgery)
 - Participation in an AF or antithrombotic clinical trial in the previous month



Representativeness and Quality control

- Unbiased recruitment
 - Random selection of participating physicians (cardiologists and internists)
 - Ratio of Cardiologists to Internists pre-determined on a national basis.
 - Short enrollment period (< 6 weeks) to maximize consecutive recruitment
 - Enrollment target per site: min of 10, max of 30 patients per site

Pre-Specified Aims

- **Primary:**
 - Assess "control" of AF (either SR or AF with HR \leq 80 bpm) at the time of the visit
 - Investigate the CV risk profile of AF patients
- **Secondary:**
 - Describe AF characteristics
 - Describe AF management strategies
 - Assess Health-related-QOL associated with AF

Patient flow and characteristics



	Total N=10,523
Age ≥ 60 years (%)	73.9
Age mean (SD)	67 (12.2)
Males (%)	56.4
Ethnicity(%)	
<i>Caucasian</i>	84.2
<i>Black</i>	0.1
<i>Asian</i>	10.1
<i>Hispanic</i>	3.5
<i>Other</i>	2.1
BMI (kg/m²) mean (SD)	28.3
SBP (mm Hg) mean (SD)	132.8
DBP (mm Hg) mean (SD)	79.8
CHADS₂ score ≥ 2	59.6%

*6.1% exclusions-3.0% declined consent-4.2% other

**No history of AF 6 (<0.1%) - Mentally disabled 1(<0.1%) - Post-cardiac surgery AF 1 (<0.1%) - Clinical trial in AF or antithrombotic in the previous month 3(<0.1%) - Other 14 (0.1%)

768 / 831 active sites completed the screening log



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AF characteristics

	Total (%)
Lone AF*	5.1
Time since AF diagnosis	
< 3 months	20.6
3 to 6 months	6.3
6 to 12 months	10.2
> 12 months	62.9
Type of AF	
<i>Paroxysmal</i>	24.8
<i>Persistent</i>	22.3
<i>Permanent</i>	46.4
<i>Unable to assign (first episode)</i>	6.4
<i>Paroxysmal+Persistent</i>	<0.1

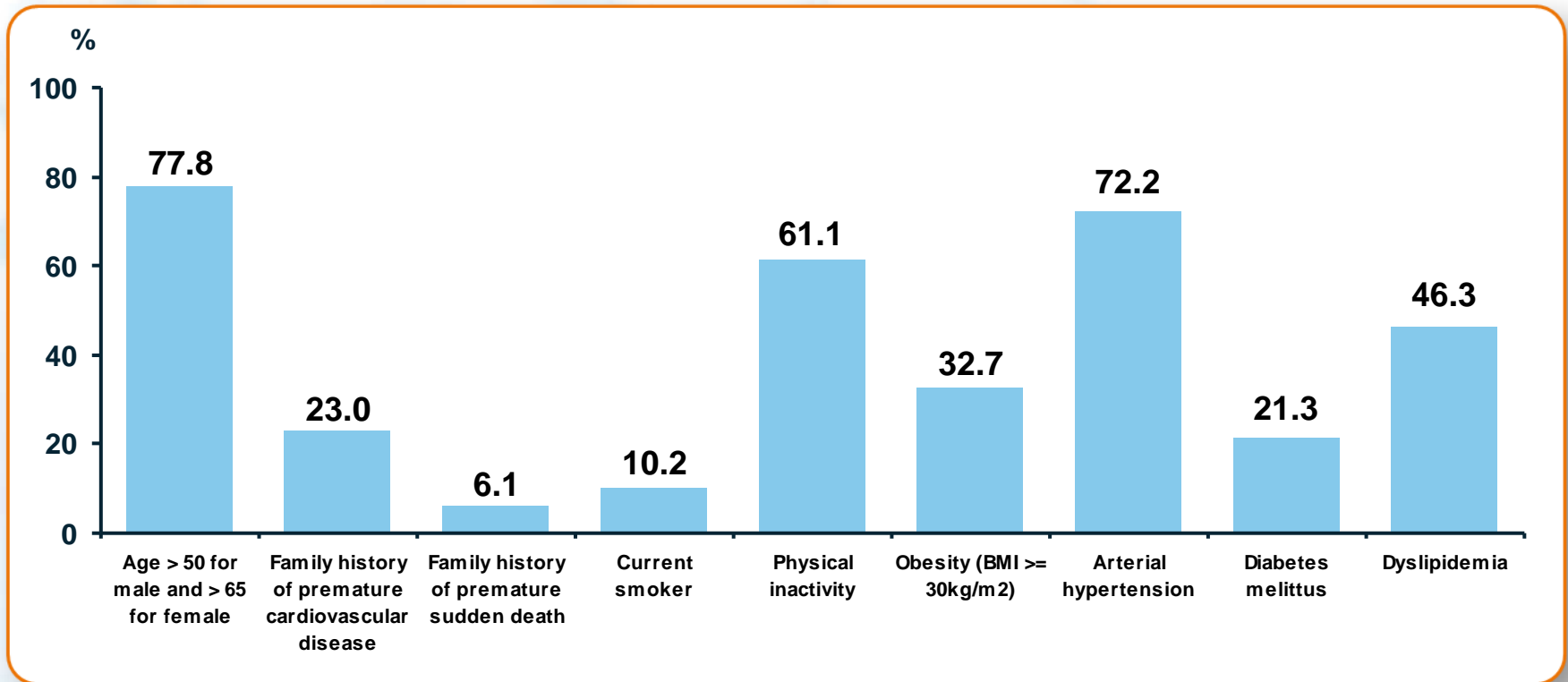
*Patients aged under 60 years with no Coronary Artery Disease, no Heart Failure, no Valvular Heart Disease, no Chronic pulmonary disease, no VTE and no Arterial Hypertension



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High prevalence of concomitant CV risk factors in AF patients

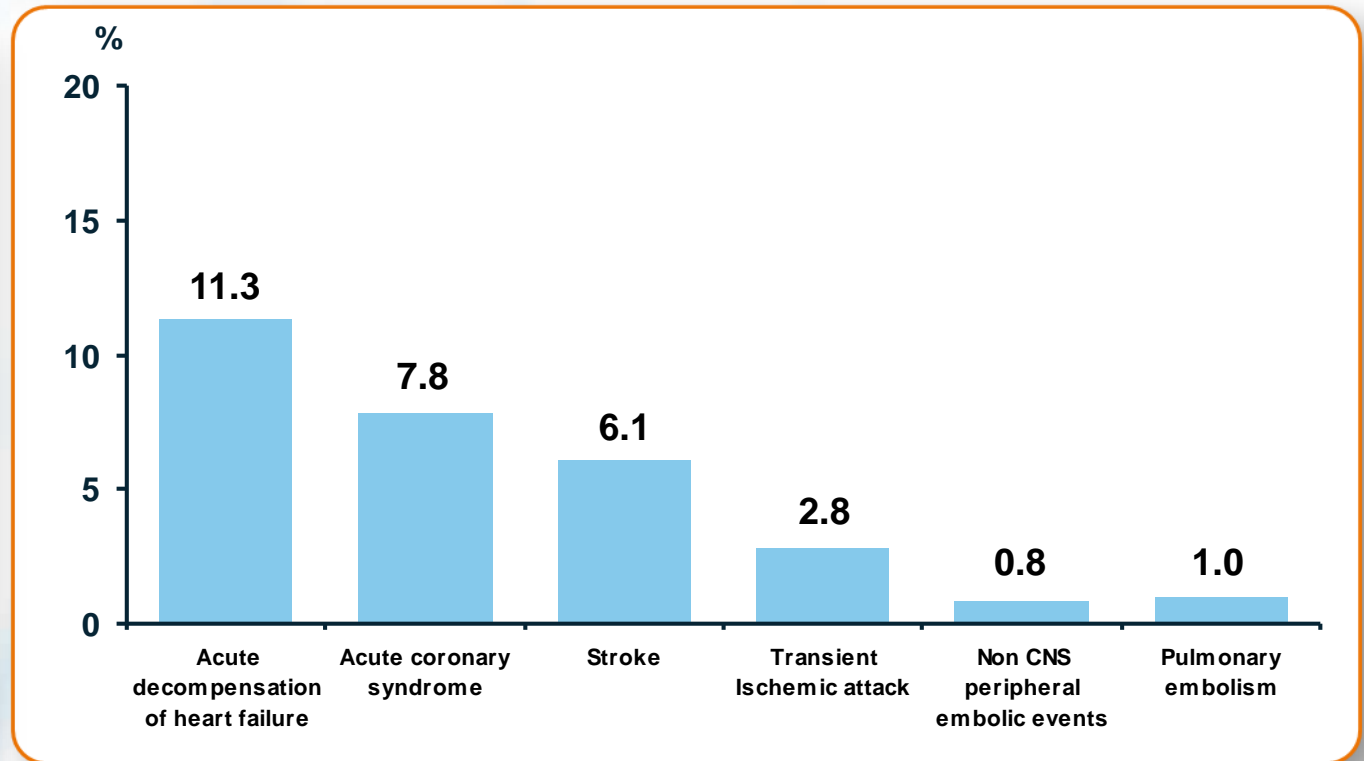
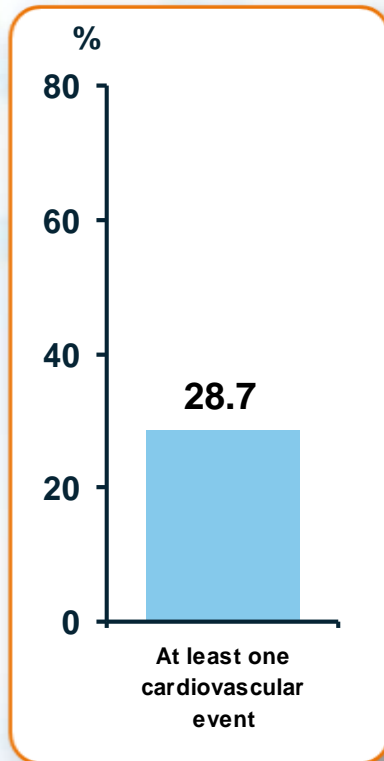


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Frequent and severe CV events leading to unplanned hospitalization in AF patients

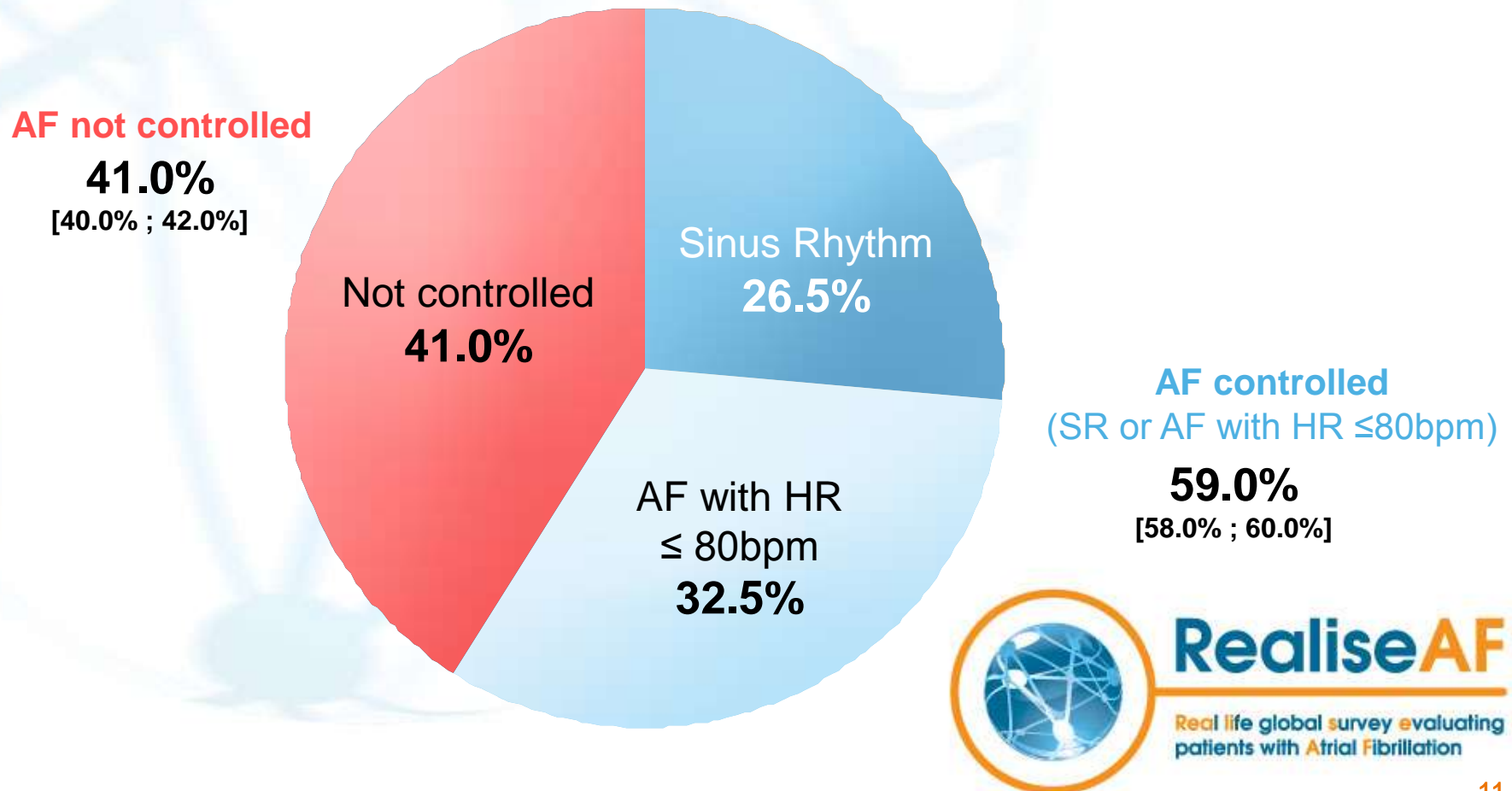
In the last 12 months



Primary outcome: control of AF

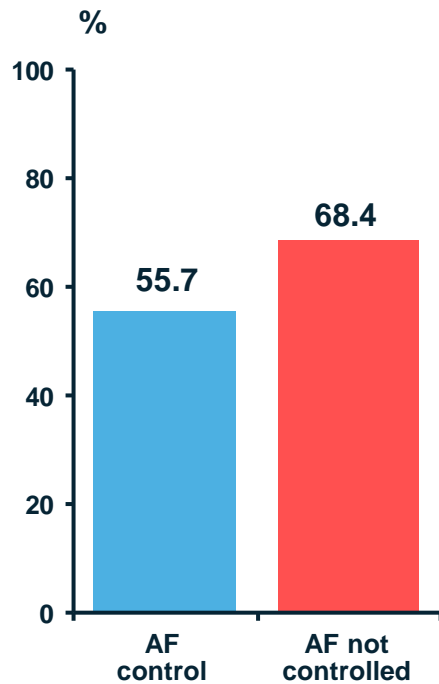
Sinus rhythm or AF with HR \leq 80 bpm, on the ECG the day of the visit

Patients evaluable for primary criteria (n=9,665)

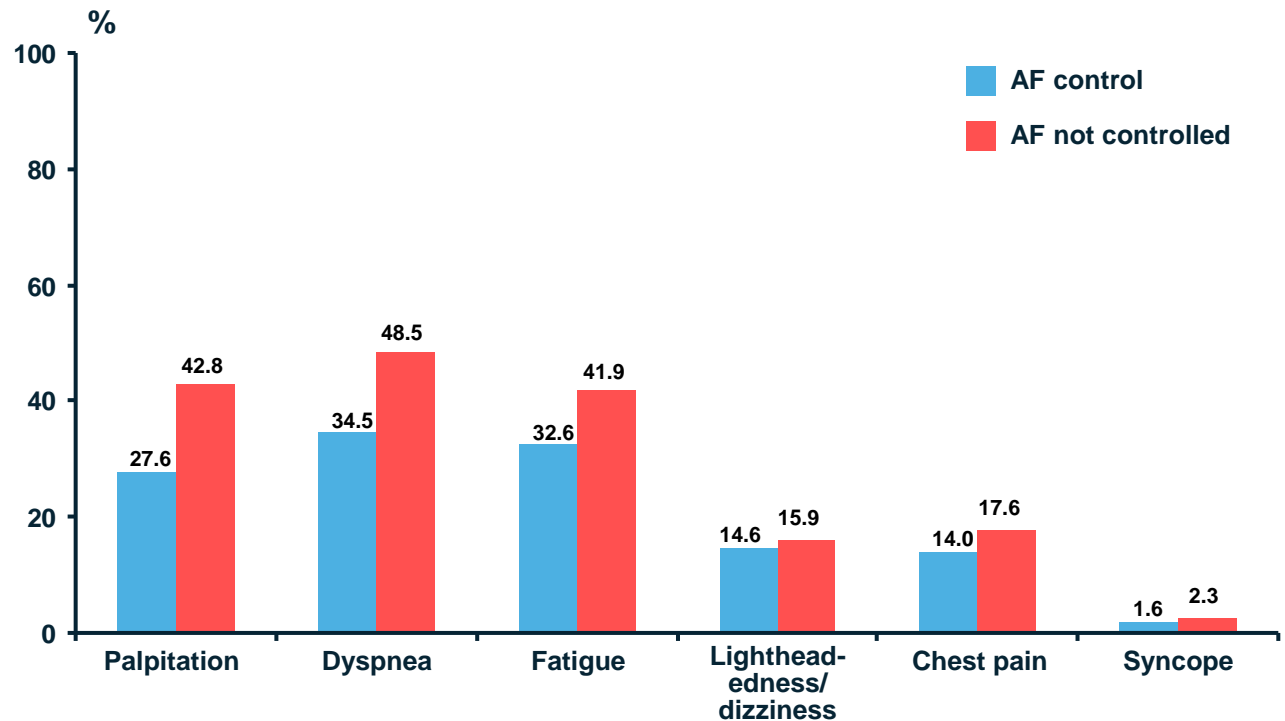


AF control was indicative of symptom control

At least one symptom*



Symptom*



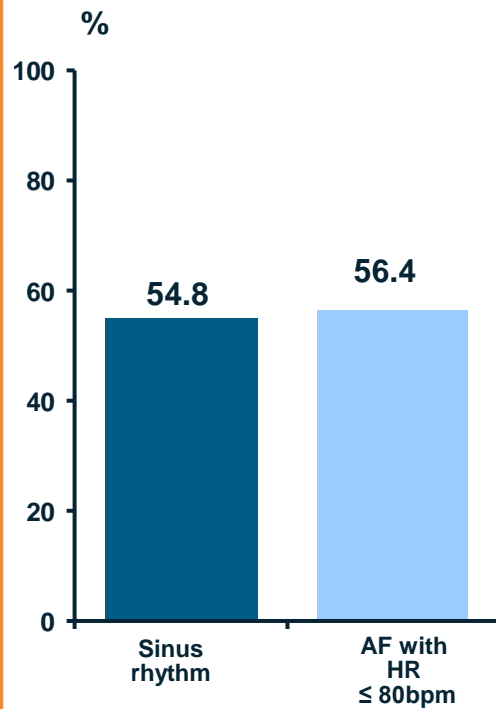
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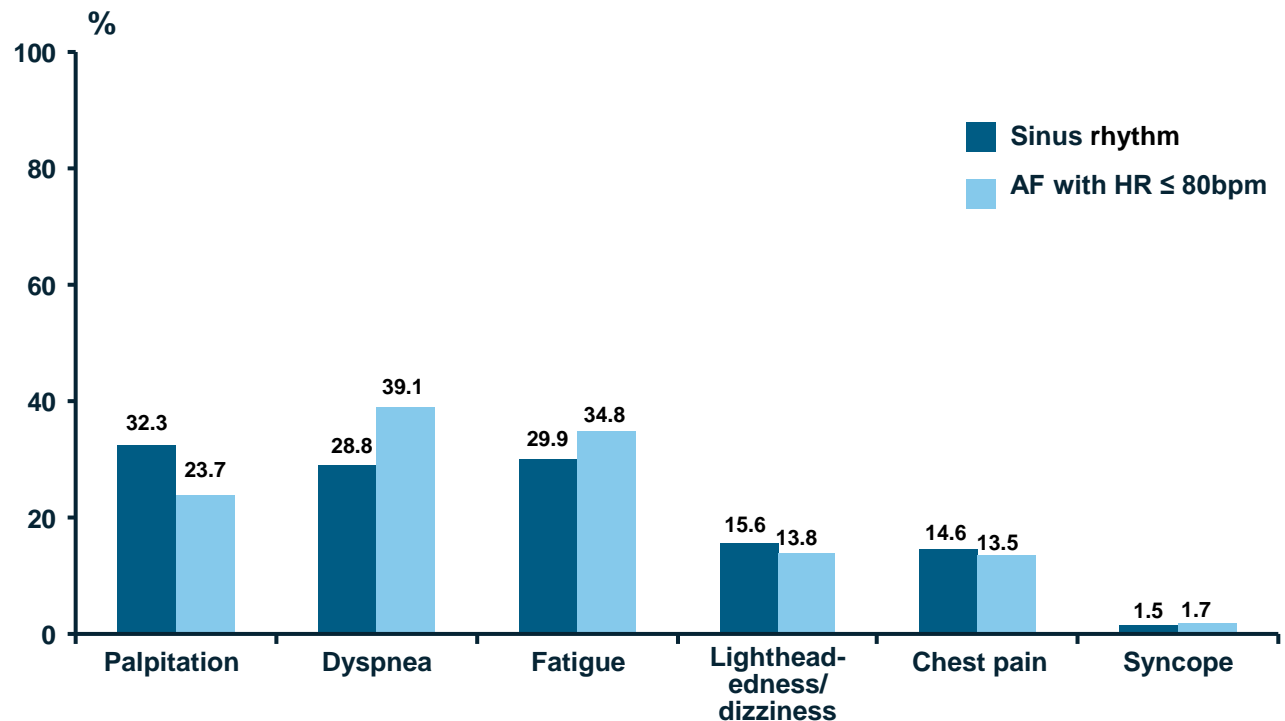
*Symptoms last week including the day of the visit according to AF control

Patients in sinus rhythm or in AF with HR \leq 80bpm are both symptomatic

At least one symptom*



Symptom*

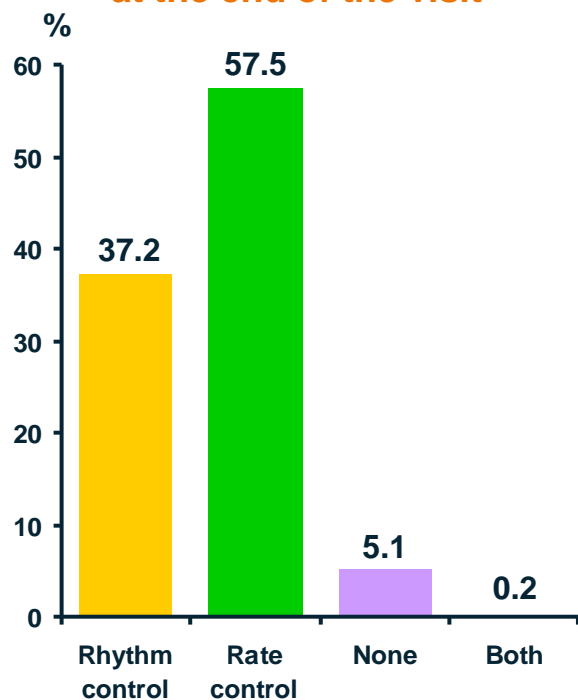


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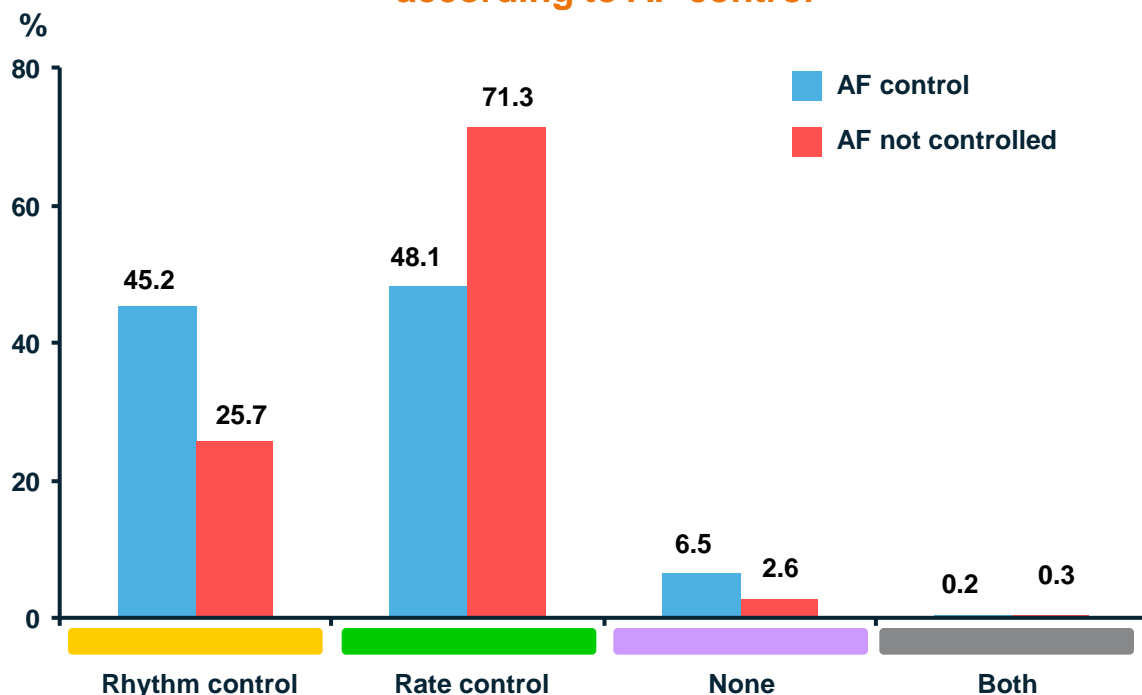
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Rate control was the strategy most frequently chosen, although the least effective

Therapeutic strategy chosen at the end of the visit



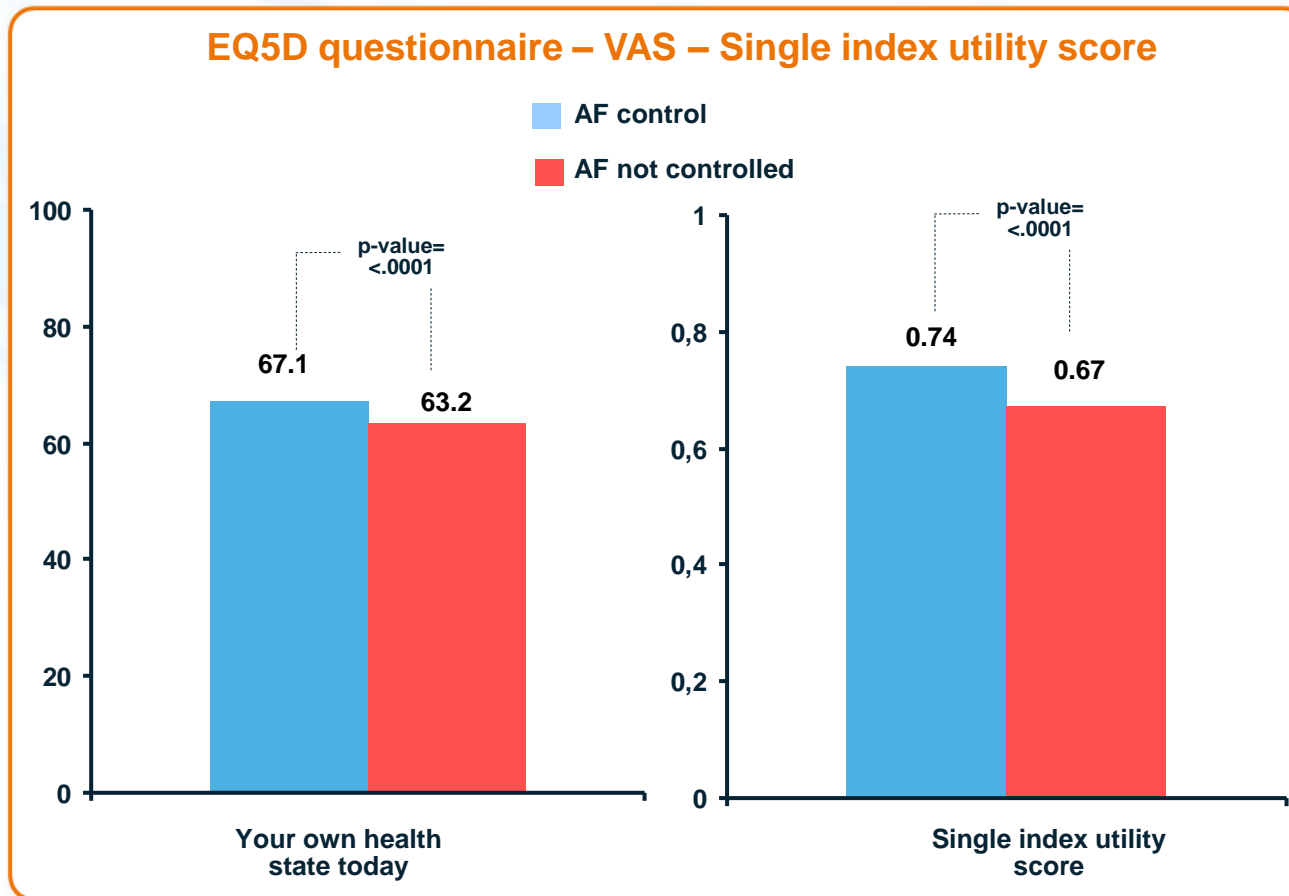
Therapeutic strategy chosen at the end of the visit - according to AF control



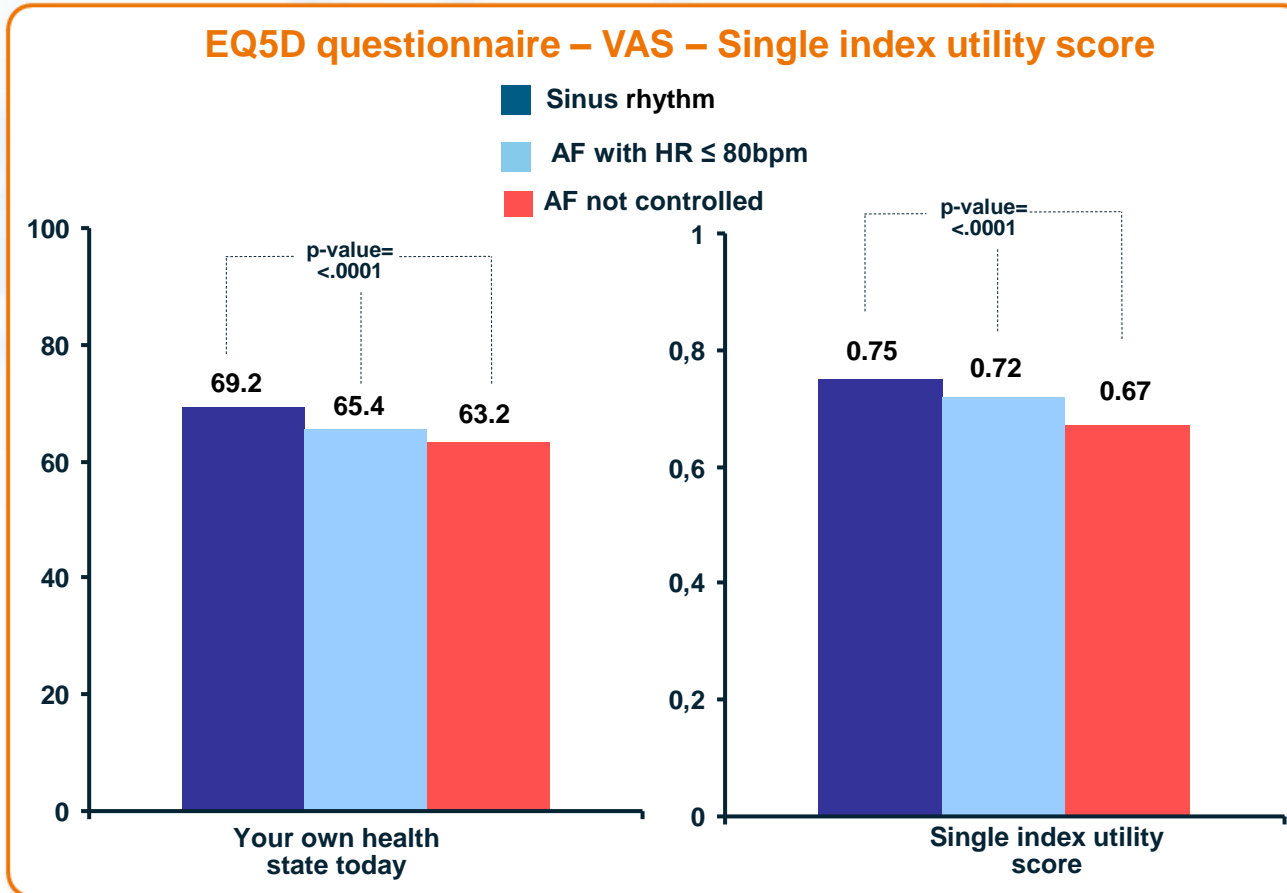
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AF control is associated with moderately improved quality of life (QoL)



Rhythm status and QoL

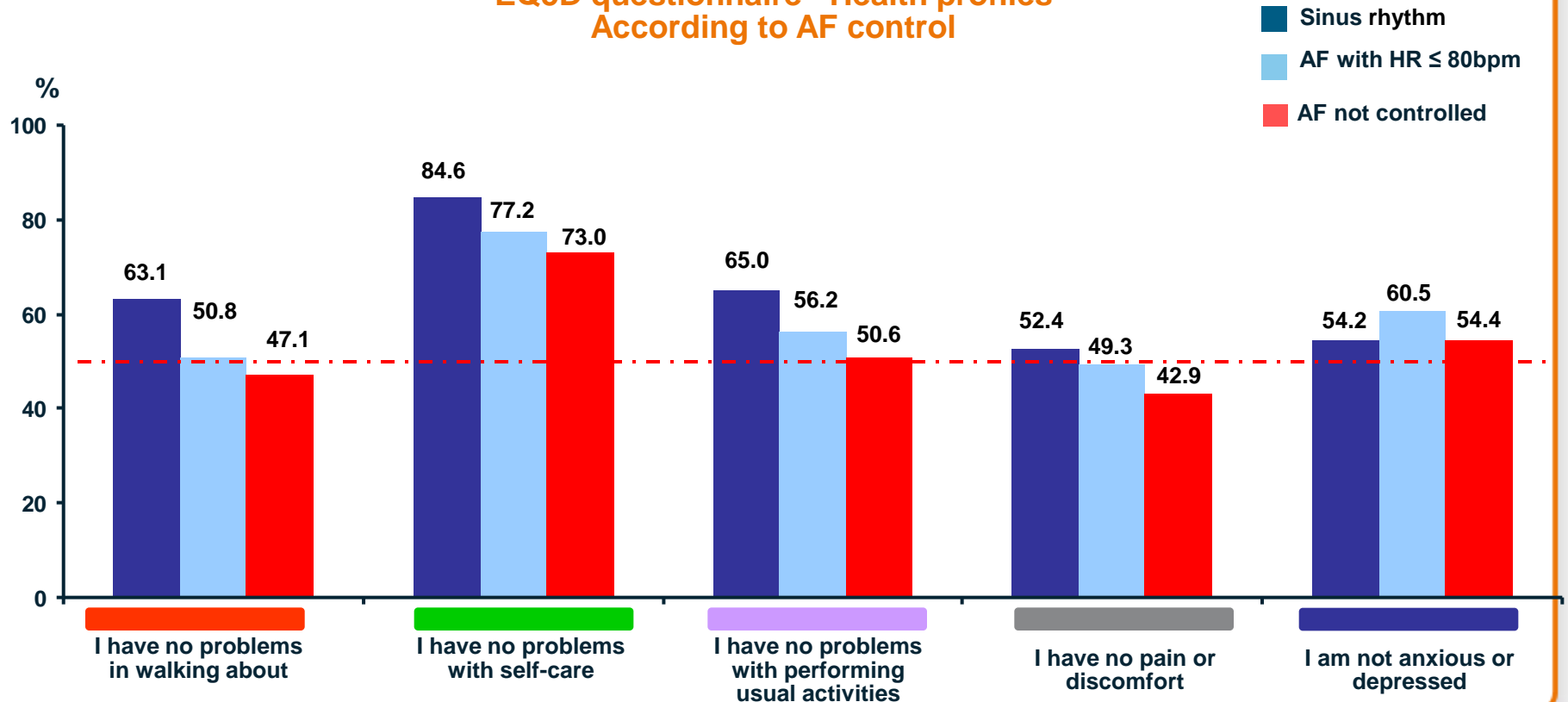


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QoL based on EQ5D according to rhythm and control status

EQ5D questionnaire - Health profiles
According to AF control



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Conclusion

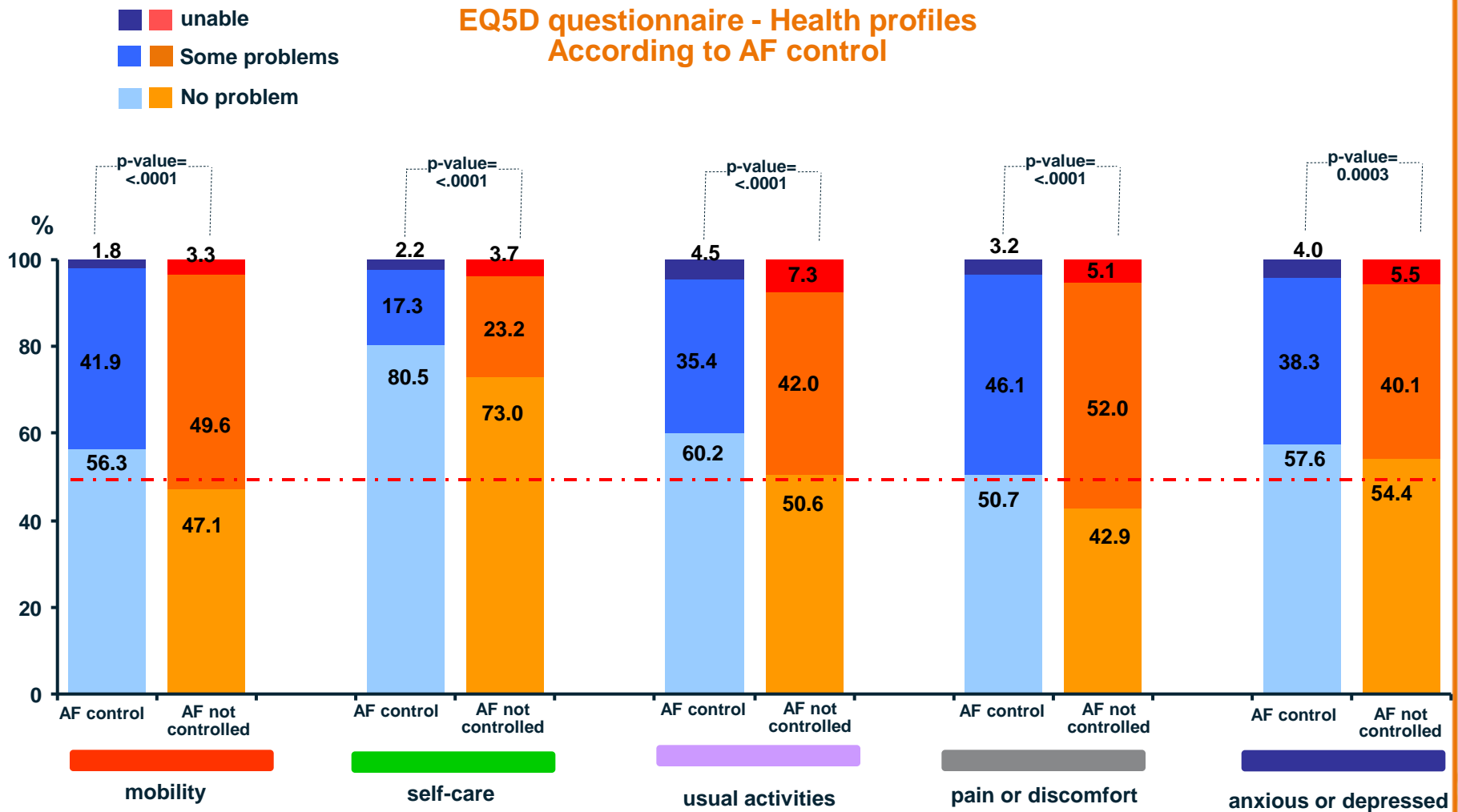
- Control of AF was not optimal and patients remained frequently symptomatic even when AF was controlled.
- Rate control was the most commonly used strategy, however with a lower proportion of AF control.
- Control of AF was associated with a modest but consistent improvement of quality of life.
- Improvement of quality of life of AF patients is a therapeutic goal in the new 2010 ESC guidelines, Current AF management doesn't necessarily achieve this objective.



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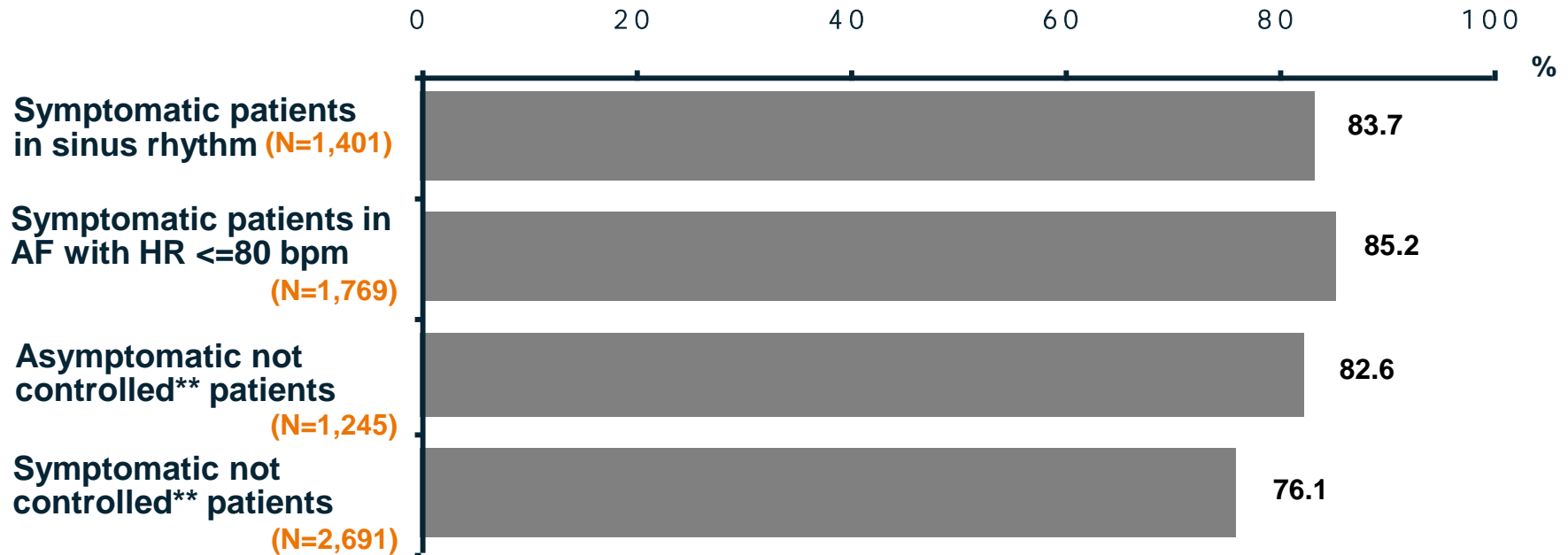
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QoL based on EQ5D according to AF control



The high majority of AF patients stay on current therapeutic strategy although presence of symptom and/or absence of control

No change of AF therapeutic strategy* during the visit



*Including no change of therapeutic as Rhythm to Rhythm, Rate to Rate, None to None and Rhythm+Rate to Rhythm+Rate

**in AF with HR >80 bpm and no sinus rhythm



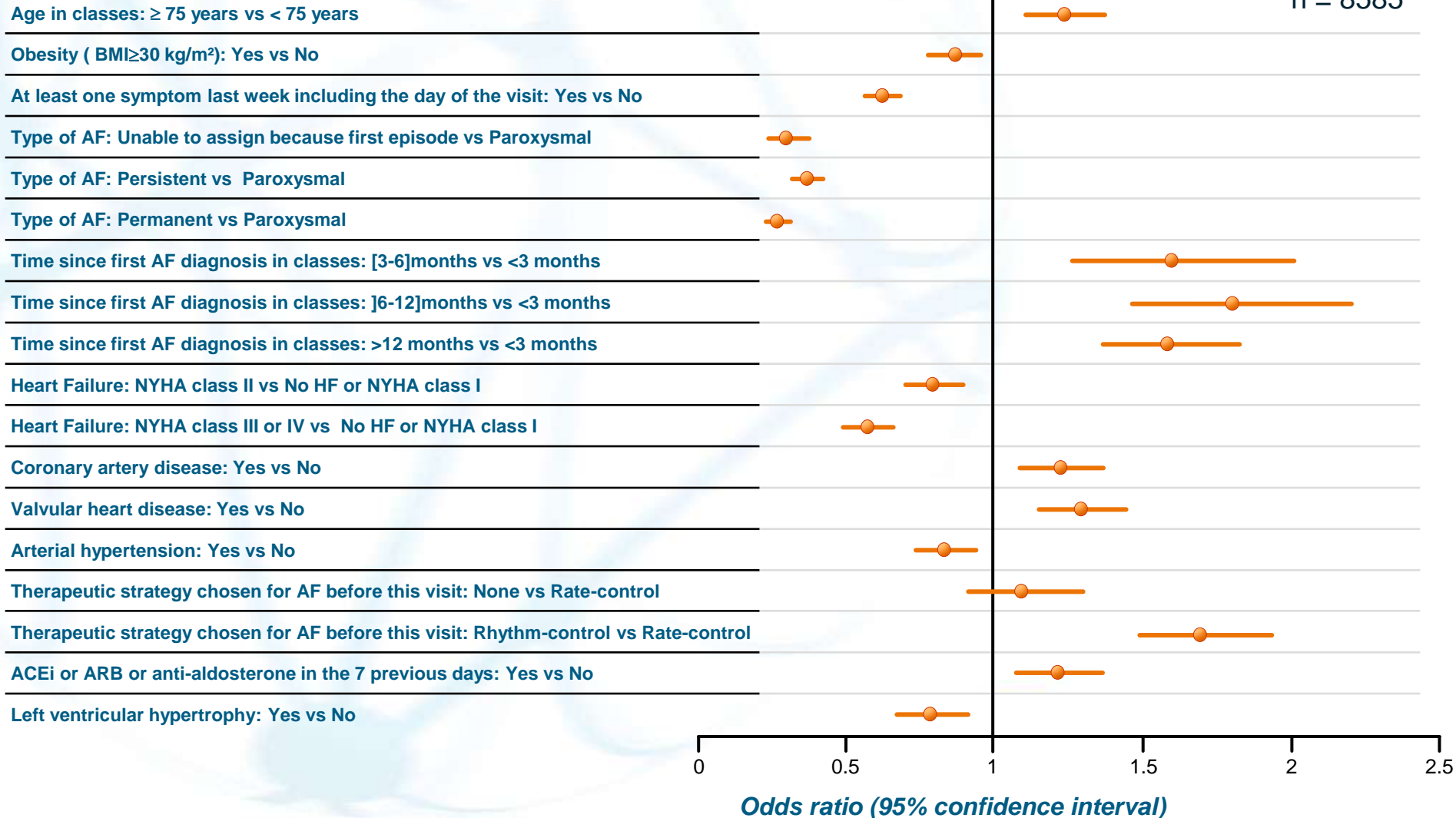
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Predictors of AF control

Logistic regression adjusted for country

n = 8585



C-statistic=0.732 / Hosmer-Lemeshow test, $p=0.1407$

QoL based on EQ5D according to AF therapeutic strategy

EQ5D questionnaire - Health profiles
According to AF therapeutic strategy chosen before V0

