**DOES OBESITY IMPACT THE RECURRENCE OF ATRIAL FIBRILLATION AFTER CRYOABLATION USING THE ARCTIC FRONT ADVANCE CATHETER?**

**A. Avezbadalov1**, S. Pollack2, A.F. Osman1

1. The Heart Center of Excellence, NOVA Southeastern University, Fort Lauderdale, FL, USA

2. St. John's University, New York, NY, USA

*Objective*: The Arctic Front Advance cryoablation catheter has become widely used for the successful treatment of atrial fibrillation. Atrial fibrillation is more difficult to treat in patients with obesity due to increased pulmonary pressures and onset of heart failure. We sought to evaluate the recurrence of atrial fibrillation in the obese population after cryoablation at our urban medical center.

*Methods*: This is a single center retrospective analysis of all patients who were treated for paroxysmal atrial fibrillation with the Arctic Front Advance cryoablation catheter at our medical center between September 2012 and October 2014. Patients with a body mass index (BMI) greater than or equal to thirty were in the Obese group and less than thirty were in the Non-Obese group. Patients were followed for six months to monitor for recurrence of atrial fibrillation using electrocardiograms and holter monitors (Table 1). Patients who did not follow up for at least six months were excluded.

*Results*: (Table 1)

*Conclusion*: We found no significant difference between the Obese and Non-Obese groups in the recurrence of paroxysmal atrial fibrillation after successful treatment using the second generation cryoablation catheter.

Results:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Total Number of Patients  N = 87 | Non-Obese  BMI < 30 (N = 54) | | Obese  BMI ≥ 30 (N = 33) | |
| Number of Patients in Sinus Rhythm at 6 Months | 43 (79.6%) | | 29 (87.9%) | |
| Number of Patients with Recurrent Atrial Fibrillation at 6 Months | 11 (20.4%) | | 4 (12.1%) | |
|  | | p value = 0.32 | |  |

**Table 1**