

SWISS STATISTICS OF CATHETER ABLATIONS 2014



Stiftung für Herzschrittmacher und Elektrophysiologie
Fondation pour la stimulation cardiaque et électrophysiologie
Fondazione per la stimolazione cardiaca ed elettrofisiologia

Overview

Ablation centers	23
Included in this statistic	22
Number of interventions	5051
Number of ablations	5244

Omissions

1 center that did not report data to CHPACE WEB and is therefore not included in the statistics

No.	Center
220	Hôpital de la Tour
Total	1

1 center with more than 10% incomplete data reporting

No.	Center	interventions	thereof incomplete	incomplete (%)
268	Clinique des Grangettes	19	2	11
Total	1			

Ablation centers

8 centers with more than 250 interventions

Interventions and Ablations

according to number of interventions

No.	Center	Interventions	thereof aborted	Ablations
250	Klinik Im Park, Zürich	755	5	859
101	Universitätsspital Basel	538	0	584
102	Inselspital Bern	458	5	500
105	Universitätsspital Zürich	414	3	368
267	Clinique Cécil	346	0	333
103	Hôpital Cantonal Universitaire de Genève	330	0	354
239	Klinik Beau-Site Bern	280	4	291
104	Centre Hospitalier Universitaire Vaudois (CHUV)	270	1	283
Total	8	3391	18	3572

Ablation Procedures

according to number of interventions

No.	Center	AF	RAFlu	LAFlu	AT	AP	AVNRT	VT	PVC	AVN	AVN(R)	Other
250	Klinik Im Park, Zürich	373	178	13	44	38	152	17	21	3	25	0
101	Universitätsspital Basel	199	133	3	32	30	98	43	11	5	29	1
102	Inselspital Bern	114	193	12	12	35	66	25	20	6	22	0
105	Universitätsspital Zürich	120	73	5	20	30	86	20	4	4	8	2
267	Clinique Cécil	96	64	7	8	28	49	7	17	16	41	0
103	Hôpital Cantonal Universitaire de Genève	120	108	16	11	20	35	13	5	8	16	2
239	Klinik Beau-Site Bern	134	68	14	18	16	17	2	8	1	17	0
104	Centre Hospitalier Universitaire Vaudois (CHUV)	57	81	7	7	18	37	29	14	4	28	2
Total	8	1213	898	77	152	215	540	156	100	47	186	7

Ablation centers

7 centers with 100 to 250 interventions

Interventions and Ablations

according to number of interventions

No.	Center	Interventions	thereof aborted	Ablations
236	Stadtspital Triemli, Zürich	239	2	239
217	Kantonsspital Luzern, Sursee und Wolhusen	237	0	255
214	HerzZentrum & Rhythmologie Hirslanden, Zürich	216	0	235
231	Kantonsspital St. Gallen	207	0	211
246	Hirslandenklinik Aarau	192	1	199
216	Cardiocentro Ticino, Lugano	131	0	139
233	GZO Spital Wetzikon	112	0	81
Total	7	1334	3	1359

Ablation Procedures

according to number of interventions

No.	Center	AF	RAFlu	LAFlu	AT	AP	AVNRT	VT	PVC	AVN	AVN(R)	Other
236	Stadtspital Triemli, Zürich	92	64	9	9	14	46	2	2	1	2	0
217	Kantonsspital Luzern, Sursee und Wolhusen	93	60	1	10	15	55	5	6	1	8	1
214	HerzZentrum & Rhythmologie Hirslanden, Zürich	131	39	4	5	9	27	1	4	1	14	0
231	Kantonsspital St. Gallen	46	59	0	7	24	61	1	6	1	6	0
246	Hirslandenklinik Aarau	67	37	1	11	10	52	2	2	5	11	2
216	Cardiocentro Ticino, Lugano	22	37	1	5	11	28	5	3	4	23	0
233	GZO Spital Wetzikon	0	27	0	3	1	27	1	2	6	14	0
Total	7	451	323	16	50	84	296	17	25	19	78	3

Ablation centers

7 centers with less than 100 interventions

Interventions and Ablations

according to number of interventions

No.	Center	Interventions	thereof aborted	Ablations
251	Herzzentrum Bodensee, Kreuzlingen	76	1	71
218	Klinik St. Anna, Luzern	67	0	72
106	Universitäts-Kinderkliniken Zürich	46	0	38
230	Solothurner Spitäler AG	40	0	40
228	Hôpital de Sion	32	0	24
278	Clinique de Valère	24	1	25
268	Clinique des Grangettes	17	0	18
Total	7	302	2	288

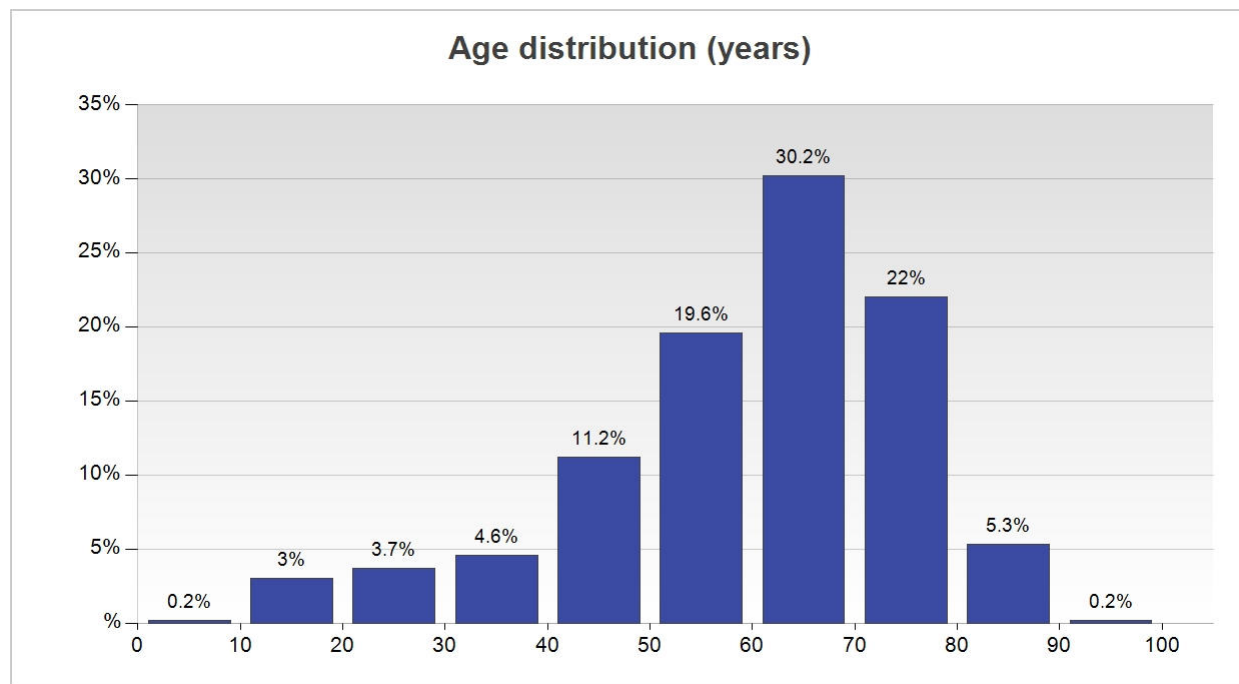
Ablation procedures

according to number of interventions

No.	Center	AF	RAFlu	LAFlu	AT	AP	AVNRT	VT	PVC	AVN	AVN(R)	Other
251	Herzzentrum Bodensee, Kreuzlingen	28	13	3	5	6	13	2	0	0	2	0
218	Klinik St. Anna, Luzern	14	18	1	5	4	22	1	2	0	5	0
106	Universitäts-Kinderkliniken Zürich	0	1	1	1	20	14	0	0	0	0	1
230	Solothurner Spitäler AG	0	18	0	0	5	7	0	0	2	8	0
228	Hôpital de Sion	0	11	0	0	1	6	0	0	5	1	0
278	Clinique de Valère	9	5	0	1	0	5	1	0	1	3	1
268	Clinique des Grangettes	0	6	0	0	2	7	0	0	2	1	0
Total	7	51	72	5	12	38	74	4	2	10	20	2

All ablation types

Number of ablations: 5244



Age (years)	min.	Ø	max.
Female	6	59	93
Male	6	61	97
All	6	60	97

Number of patients	n	%
Females	1800	35.8
Males	3228	64.2
Total	5028	

Anesthesia	n	%
Local	4246	84.45
General	782	15.55
Total	5028	

Combinations of ablations performed during one intervention

Number of interventions	4728
AF	1332
RAFlu	927
AVNRT	852
AP	323
AF RAFlu	296
AVN(R)	261
VT	173
AT	150
PVC	121
AVN	60
LAFIu	51
AF LAFIu	24
AF AT	22
RAFlu AVNRT	17
AVN AVN(R)	15
RAFlu AT	13
AT AVNRT	12
LAFIu RAFlu	11
AF AVNRT	11
AP AVNRT	10
Other	7
AF RAFlu AT	4
AF LAFIu RAFlu	4
AF RAFlu AVNRT	3
RAFlu AP	3
RAFlu AVN(R)	3
LAFIu AT	3
AF PVC	2
AF RAFlu PVC	2
AT AVN(R)	2
AF LAFIu AT	2
RAFlu AT AVN(R)	1
RAFlu AVN	1
RAFlu Other	1
AF Other	1
AT Other	1
LAFIu AVNRT	1
RAFlu AT AVNRT	1
PVC Other	1
AF RAFlu AP	1
AF AT AVNRT	1
AF AVN(R)	1
AF LAFIu RAFlu AT	1

Only completely documented and non-aborted interventions are counted.

Ablation procedures

Atrial Fibrillation	1707
Paroxysmal	1172
Persistent	493
Long-standing Persistent	42

Left Atrial Flutter	97
Roof-dependent	29
Perimitral	44
Peri-Incisional	2
Peri Ostial Pulm. Vein	11
Other	33

Accessory Pathway	337
Concealed	107
WPW	216
Asymptomatic Preexcitation	29
Atrio-Fascicular	1
PJRT	3
Mahaim	1
Other	8

AVN (to Resync.)	76
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AVN (Rate Control)	283
Paroxysmal	82
Persistent	102
Long-standing Persistent	99

Other Arrhythmia	11
PAC	3
JET	1
SNT	1
Other	7

Right Atrial Flutter	1289
Cavotricuspid	1257
Scar Related	25
Other	27

Atrial Tachycardia	213
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AVNRT	908
Slow-Fast	855
Fast-Slow	33
Slow-Slow	32

VT	173
Monomorphic	126
Polymorphic	9
Ischemic	34
RVOT	42
LVOT / Aortic Cusp	11
Left Fascicular VT	10
BB Reentry	4
Epicardial	8
Other	7

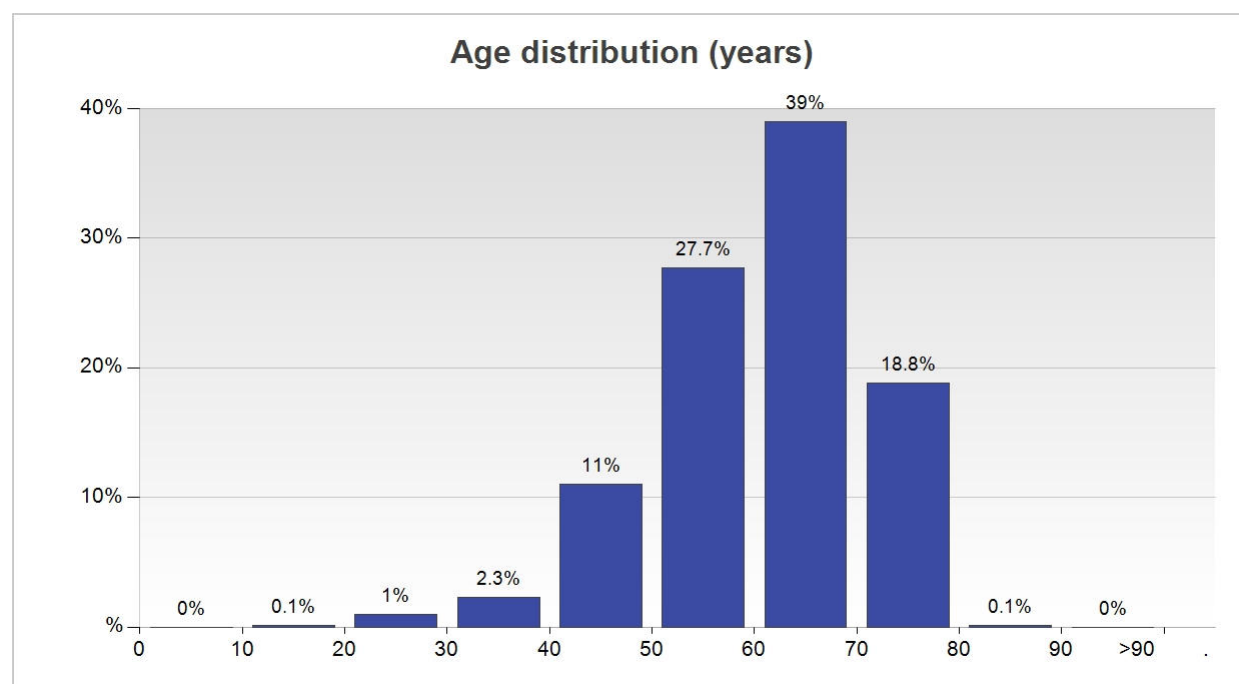
PVC	126
Monomorphic	89
Polymorphic	11
Ischemic	1
RVOT	58
LVOT / Aortic Cusp	24
Left Fascicular VT	2
HP System	3
Other	11

Atrial Fibrillation

Ablation of Atrial Fibrillation (AF)

	n
All interventions	1707
AF combined with others	375
AF combined with RAFLa	296
AF only	1332

The following statistics include AF only procedures



Age (years)	min.	Ø	max.
Female	19	64	81
Male	23	60	80
All	19	61	81

Number of patients	n	%
Females	353	26.5
Males	979	73.5
Total	1332	

Atrial Fibrillation

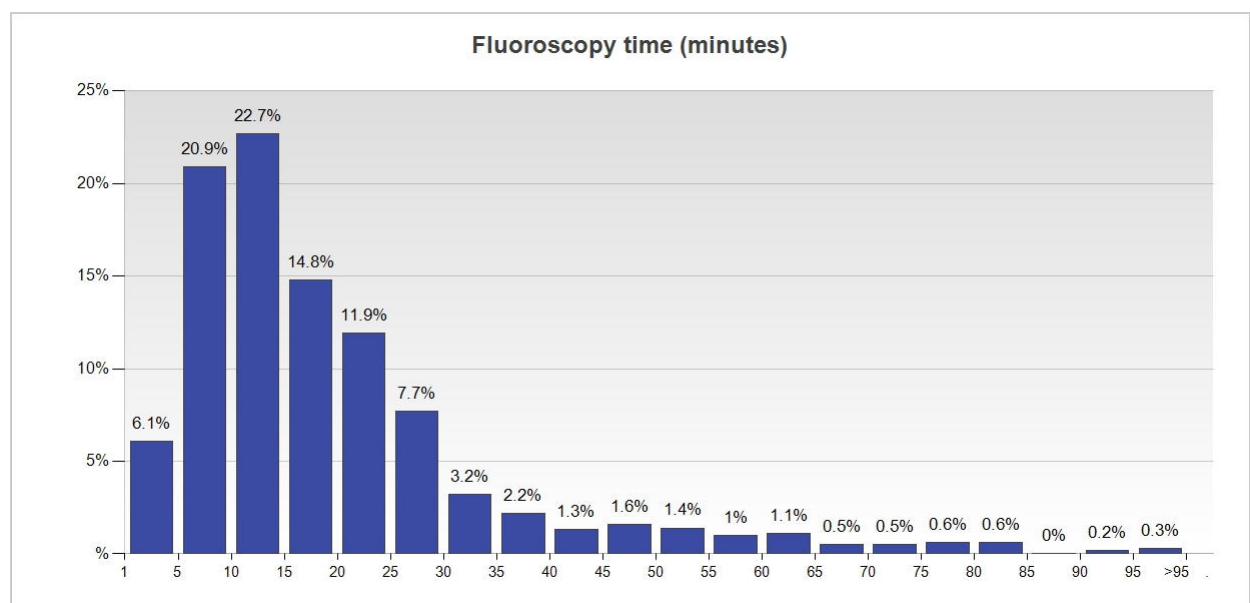
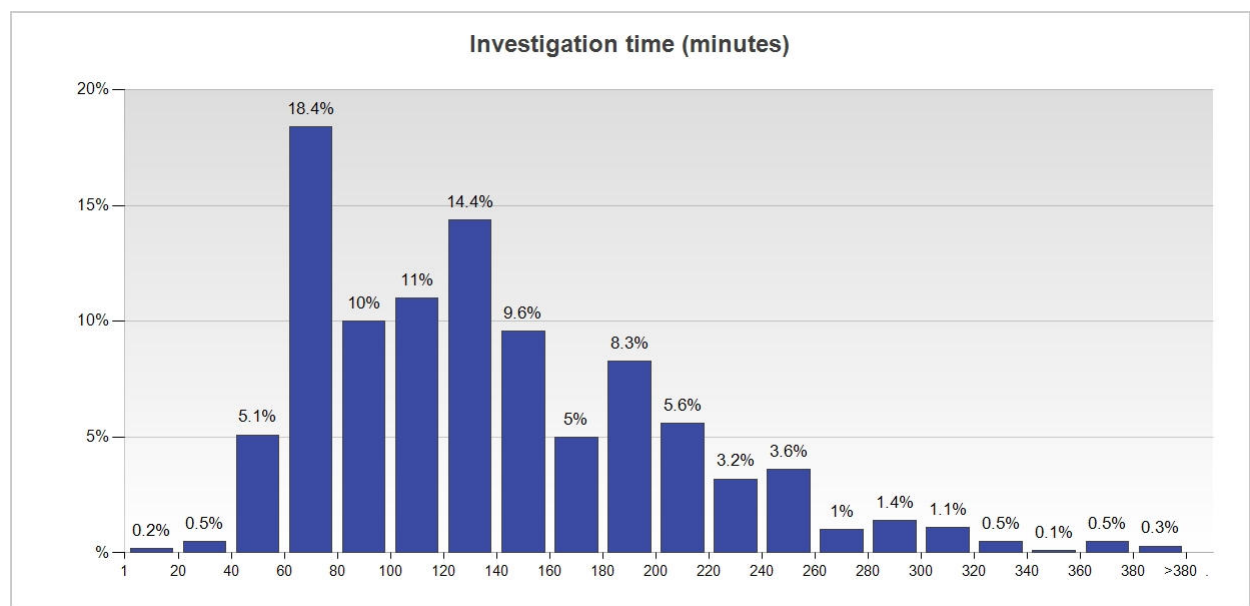
Cardiopathy (Underlying heart disease)	n	%
None	937	70.35
Hypertensive Cardiomyopathy	144	10.81
Ischemic	60	4.5
Tachycardiomyopathy	50	3.75
Valvular	46	3.45
Dilated	30	2.25
Other	26	1.95
H(O)CM	17	1.28
Congenital	11	0.83
Angioplasty	8	0.6
Post Congenital Surgery	2	0.15
Post Valvular Surgery	1	0.08
Infiltrative	0	0
Channelopathy long QT	0	0
Channelopathy short QT	0	0
Brugada Syndrome	0	0
Early Repolarization Syndrome	0	0
Catecholaminergic Polymorphic VT	0	0
RV Cardiomyopathy	0	0
CABG	0	0
Total	1332	

Symptoms	n
Palpitations	1047
Dyspnea	350
Fatigue	249
Dizziness	129
None	108
Other	79
Angina Pectoris	15
Syncope	12
SCD	1

Atrial Fibrillation

Anesthesia	n	%
Local	875	65.69
General	457	34.31
Total	1332	

Minutes	min.	Ø	max.	n	n ₀ *
Investigation time	6	134.2	440	1327	5
Fluoroscopy time	1	19.2	300	1309	23



Atrial Fibrillation

Type of AF	n	%
Paroxysmal	905	67.94
Persistent	391	29.35
Long-standing Persistent (>1 Year)	36	2.7

EHRA-Score	n	%
Score I	156	11.71
Score II	670	50.3
Score III	500	37.54
Score IV	6	0.45

Type of Intervention	n	%
Percutaneous	1332	100
Hybrid (Epicardial + Endovascular)	0	0
Surgical Ablation	0	0

Intervention	n	%
Primary Intervention	1003	75.3
Redo	329	24.7

Antiarrhythmic Drugs	n
Beta Blocker	750
Amiodarone	390
None	177
Flecainide	174
Sotalol	108
Dronedarone	70
Calcium Antagonist	45
Other	19
Digitalis	18
Propafenone	15

Thromboembolic Risk Factors	n
Hypertension	519
Stroke, TIA, Other Embolic Event	63
Prior MI, Per. Artery Disease, Aortic Plaque	61
Congestive Heart Failure, LV dysfunction	57
Diabetes	56

Atrial Fibrillation

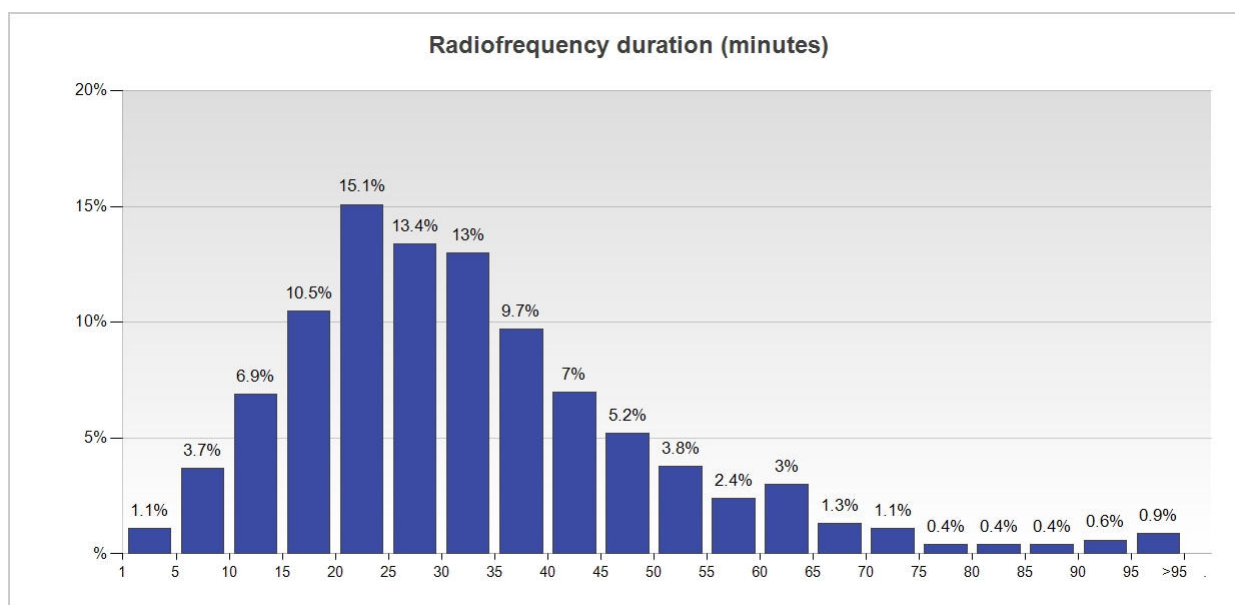
Anticoagulation, Antiaggregation	n
Factor Xa-Antagonist	695
Vitamin K-Antagonist	318
None	102
Direct Thrombin Inhibitor	93
Other	90
Aspirin	47
Clopidogrel	11
Ticagrelor	1
Prasugrel	0

CHA₂DS₂-VASc Score	n
Score = 0	370
Score = 1	435
Score = 2	307
Score = 3	150
Score = 4	53
Score = 5	13
Score = 6	3
Score = 7	1

Site of Ablation	n
LSPV	1238
RIPV	1233
LIPV	1220
RSPV	1219
CFAE	97
Roof Line	93
Non-PV Focus	39
Other Lines	37
Mitral Isthmus Line	20
SVC	12
Other Veins	12
RMPV	10
Vein of Marshall	10
Septal Line	8

Atrial Fibrillation

Radiofrequency	min.	Ø	max.	n	n ₀ *
Duration (minutes)	2	32.3	267	1113	3
Irrigated Technology				1026	
RF Duty Cycled				165	



Atrial Fibrillation

Cryoablation	min.	Ø	max.	n	n₀*
Total Duration (minutes)	9	28.7	180	51	0

	n
Additional RF or Cryo Cath Needed	2

	n
Laser Balloon	6

Access	n	%
Trans-septal, Puncture	1192	89.49
Trans-septal, PFO	119	8.93
Venous	19	1.43
Other	2	0.15
Arterial	0	0
Epicardial, Coronary Sinus	0	0
Epicardial, Thoracotomy	0	0
Epicardial, Thoracoscopy	0	0
Epicardial, Sub-xiphoid	0	0
Total	1332	

Mapping	n	%
3D Mapping	881	66.14
Conventional	265	19.89
Lasso	175	13.14
Other	7	0.53
Basket	3	0.23
Non Contact	1	0.08
HD Mesh	0	0
Total	1332	

Atrial Fibrillation

Catheter Steering	n	%
Conventional	1322	99.25
Other	10	0.75
Stereotaxis	0	0
Hansen	0	0
Total	1332	

Results	n
All Veins Isolated	1324
Roof Line Block Confirmed	67
Roof Line Block Not Confirmed	18
Mitral Isthmus Line Block Confirmed	14
Mitral Isthmus Line Block Not Confirmed	9
Not All Veins Isolated	5

Sinus Rhythm	n
Spontaneous	696
With Electrical Cardioversion / Stimulation	332
By Ablation	291
Not Achieved	16
AAD	9

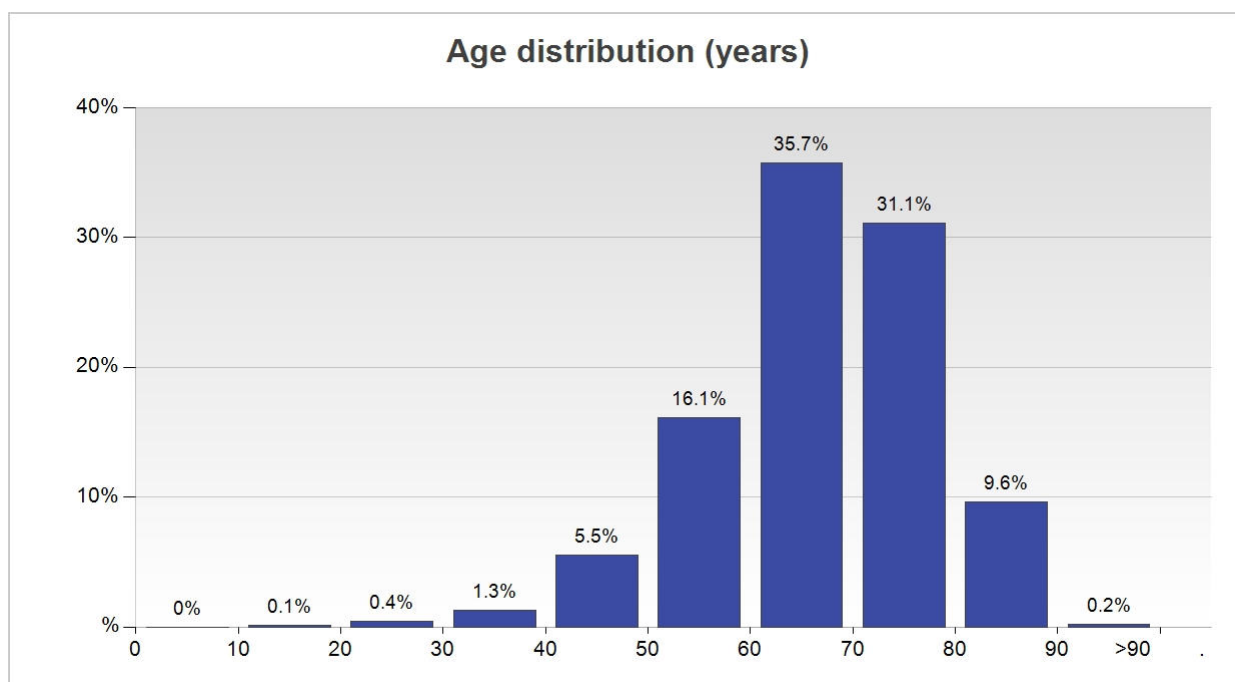
Atrial Fibrillation

Periprocedural Complications	n
No complications	1311
Other	6
Pericardial Effusion	5
AV Fistula	4
Inguinal Hematoma	3
Tamponade	2
Pseudoaneurysm	2
Stroke	1
Transient AV Block	0
Myocardial Infarction	0
Arterial Thrombosis	0
Pulmonary Oedema	0
High Degree or Complete AV Block	0
Arterial Occlusion	0
Death	0
Phrenic Nerve Paralysis	0
Pulmonary Embolism	0
Infection	0
Pneumothorax	0
TIA	0
PV Stenosis	0
Hemothorax	0
Aortic Dissection	0
Valvular Lesion	0

Right Atrial Flutter

Ablation of Right Atrial Flutter (RAFlu)	n
All interventions	1289
RAFlu combined with others	362
RAFlu only	927

The following statistics include RAFlu only procedures



Age (years)	min.	Ø	max.
Female	22	68	93
Male	16	67	97
All	16	67	97

Number of patients	n	%
Females	204	22.01
Males	723	77.99
Total	927	

Right Atrial Flutter

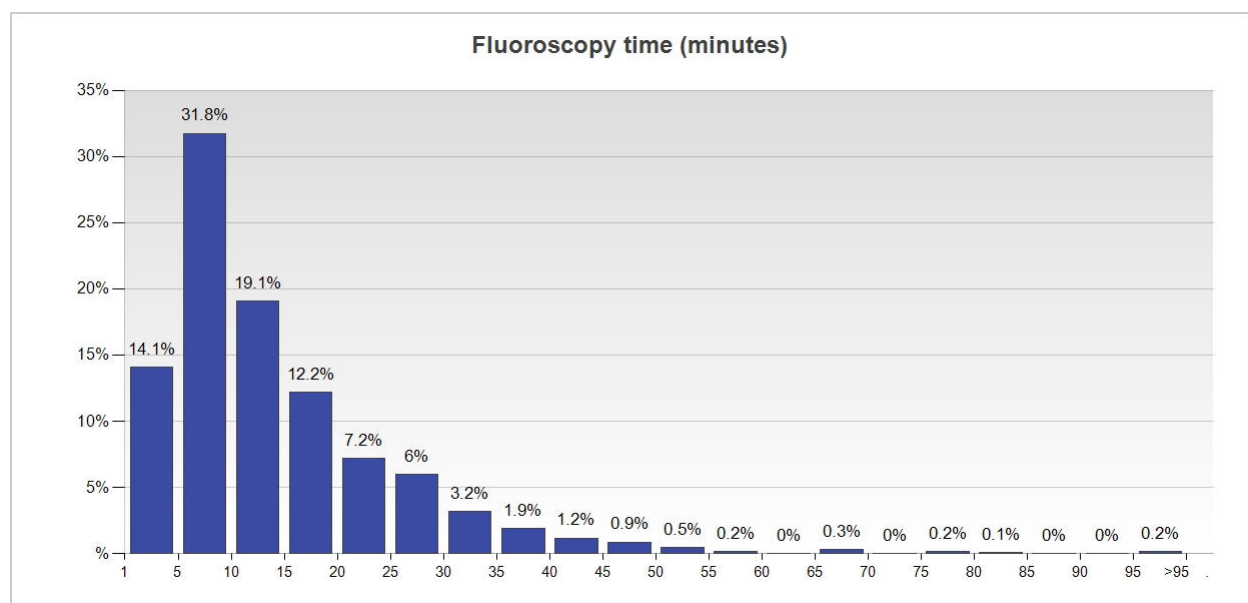
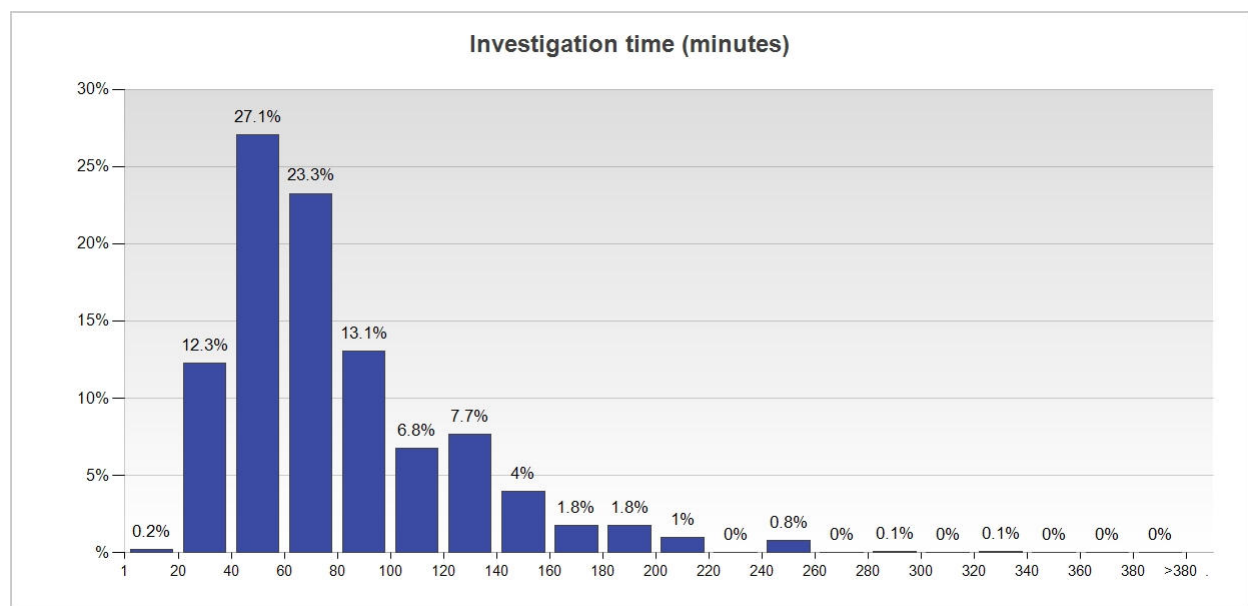
Cardiopathy (Underlying heart disease)	n	%
None	461	49.73
Ischemic	157	16.94
Hypertensive Cardiomyopathy	97	10.46
Valvular	63	6.8
Tachycardiomyopathy	38	4.1
Other	35	3.78
Dilated	30	3.24
Congenital	18	1.94
H(O)CM	10	1.08
Post Valvular Surgery	9	0.97
RV Cardiomyopathy	3	0.32
Infiltrative	2	0.22
Post Congenital Surgery	2	0.22
CABG	1	0.11
Angioplasty	1	0.11
Channelopathy long QT	0	0
Channelopathy short QT	0	0
Brugada Syndrome	0	0
Early Repolarization Syndrome	0	0
Catecholaminergic Polymorphic VT	0	0
Total	927	

Symptoms	n
Palpitations	635
Dyspnea	323
Fatigue	215
Dizziness	83
None	79
Other	33
Angina Pectoris	23
Syncope	20
SCD	1

Right Atrial Flutter

Anesthesia	n	%
Local	902	97.3
General	25	2.7
Total	927	

Minutes	min.	Ø	max.	n	n ₀ *
Investigation time	15	76.4	320	927	0
Fluoroscopy time	1	14	272	921	6



Right Atrial Flutter

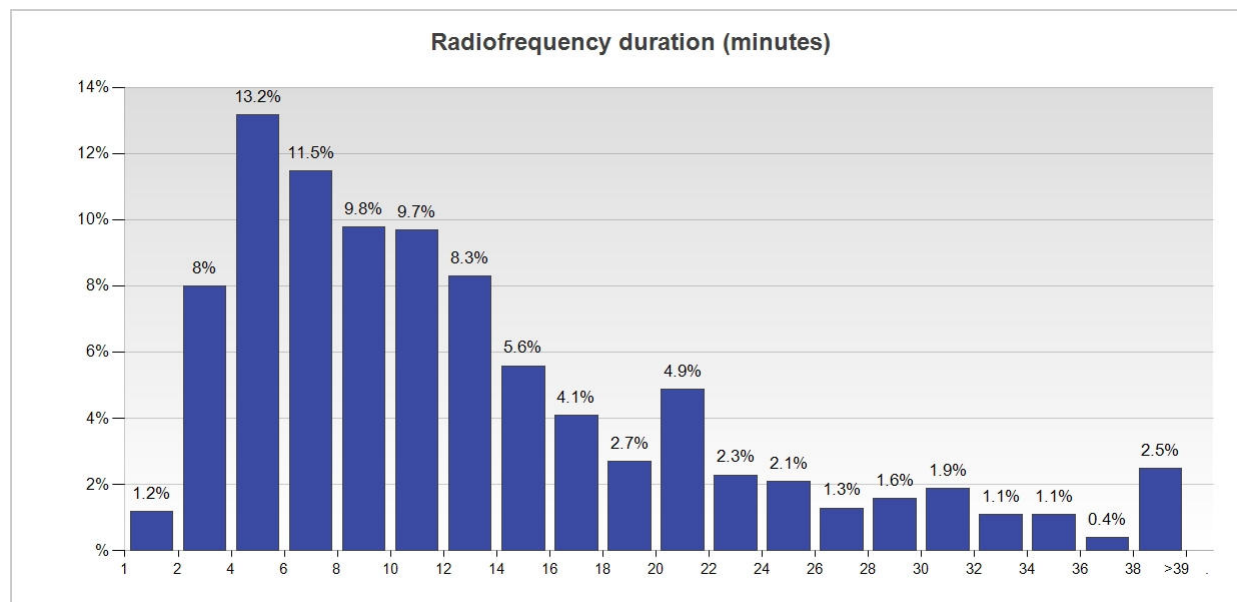
Type of Flutter

	n
Cavotricuspid	902
Other	22
Scar related	19

Intervention	n	%
Primary Intervention	846	91.26
Redo	81	8.74

Right Atrial Flutter

Radiofrequency	min.	Ø	max.	n	n ₀ *
Duration (minutes)	1	14.4	861	866	58
Irrigated Technology				469	



Right Atrial Flutter

Cryoablation	min.	Ø	max.	n	n₀*
Total Duration (minutes)	16	32.3	60	3	0

	n
Additional RF or Cryo Cath Needed	0

Access	n	%
Venous	927	100
Arterial	0	0
Trans-septal, Puncture	0	0
Trans-septal, PFO	0	0
Epicardial, Coronary Sinus	0	0
Epicardial, Thoracotomy	0	0
Epicardial, Thoracoscopy	0	0
Epicardial, Sub-xiphoid	0	0
Other	0	0
Total	927	

Mapping	n	%
Conventional	817	88.13
3D Mapping	104	11.22
Other	3	0.32
Lasso	2	0.22
Basket	1	0.11
Non Contact	0	0
HD Mesh	0	0
Total	927	

Catheter Steering	n	%
Conventional	925	99.78
Hansen	1	0.11
Other	1	0.11
Stereotaxis	0	0
Total	927	

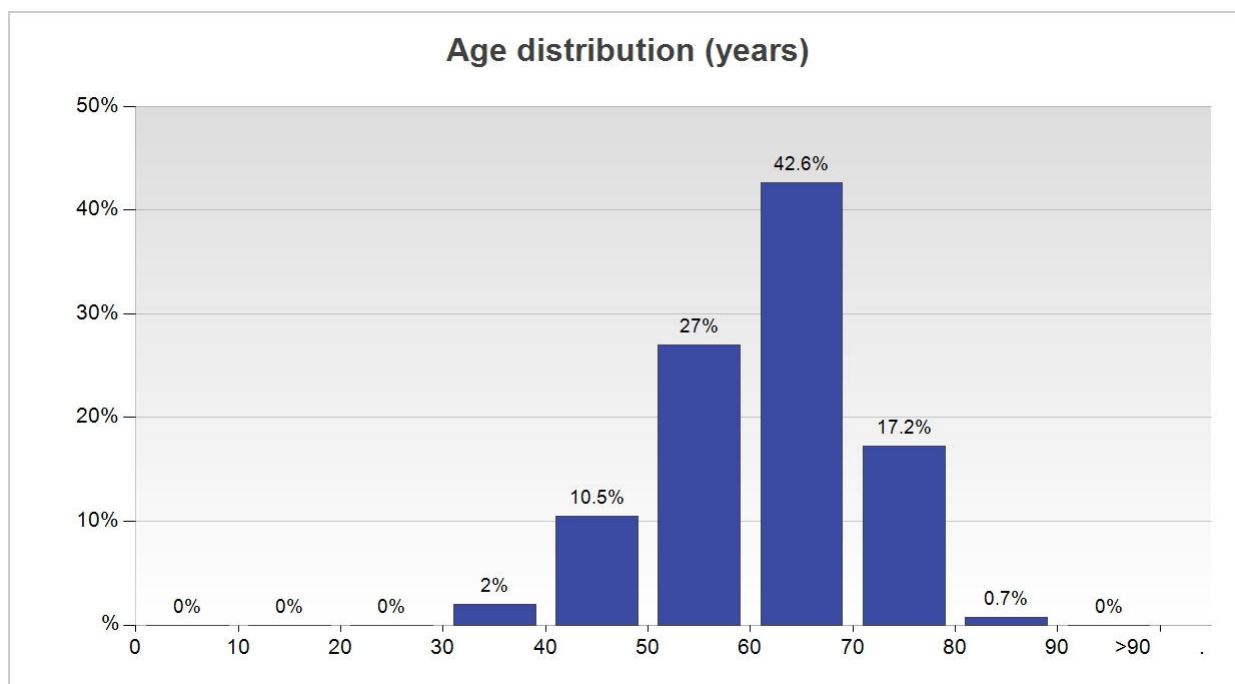
Results	n	%
Block confirmed	895	96.55
Block not confirmed	32	3.45

Right Atrial Flutter

Periprocedural Complications	n
No complications	921
Pulmonary Oedema	2
Inguinal Hematoma	2
Transient AV Block	1
Pericardial Effusion	1
Pneumothorax	0
TIA	0
Pseudoaneurysm	0
PV Stenosis	0
Hemothorax	0
Stroke	0
Aortic Dissection	0
Valvular Lesions	0
Myocardial Infarction	0
Arterial Thrombosis	0
High Degree or Complete AV Block	0
Arterial Occlusion	0
Death	0
Phrenic Nerve Paralysis	0
Tamponade	0
Pulmonary Embolism	0
Other	0
AV Fistula	0
Infection	0

Atrial Fibrillation combined with Right Atrial Flutter

Number of interventions (AF with RAFlu): 296



Age (years)	min.	Ø	max.
Female	44	65	81
Male	34	61	82
All	34	62	82

Number of patients	n	%
Females	69	23.31
Males	227	76.69
Total	296	

Atrial Fibrillation combined with Right Atrial Flutter

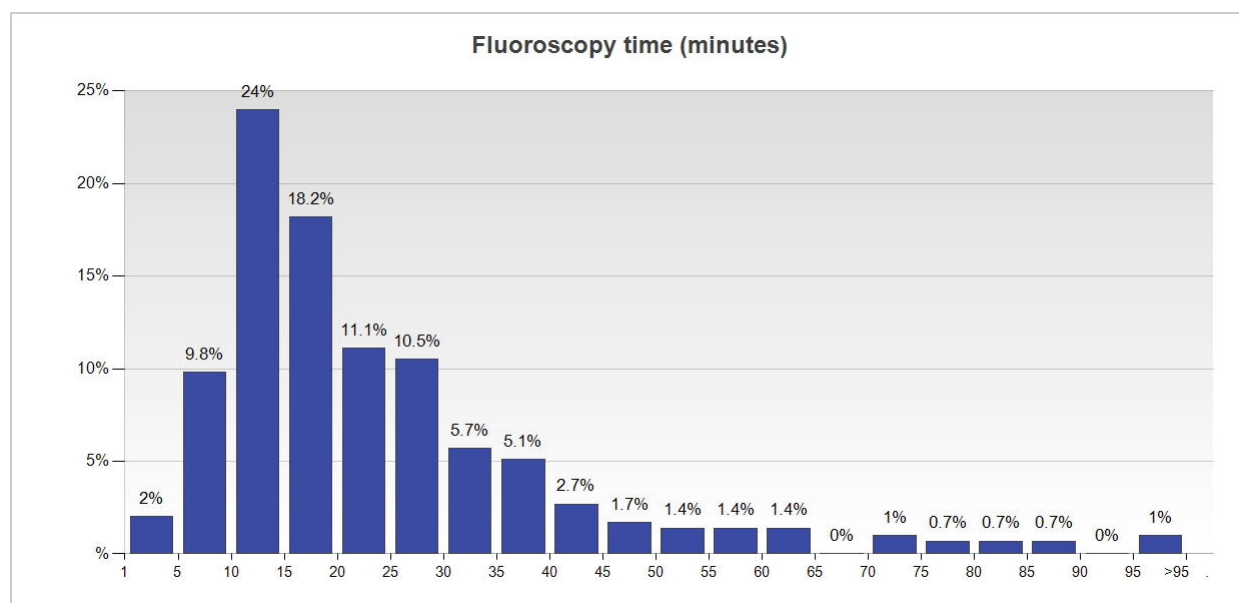
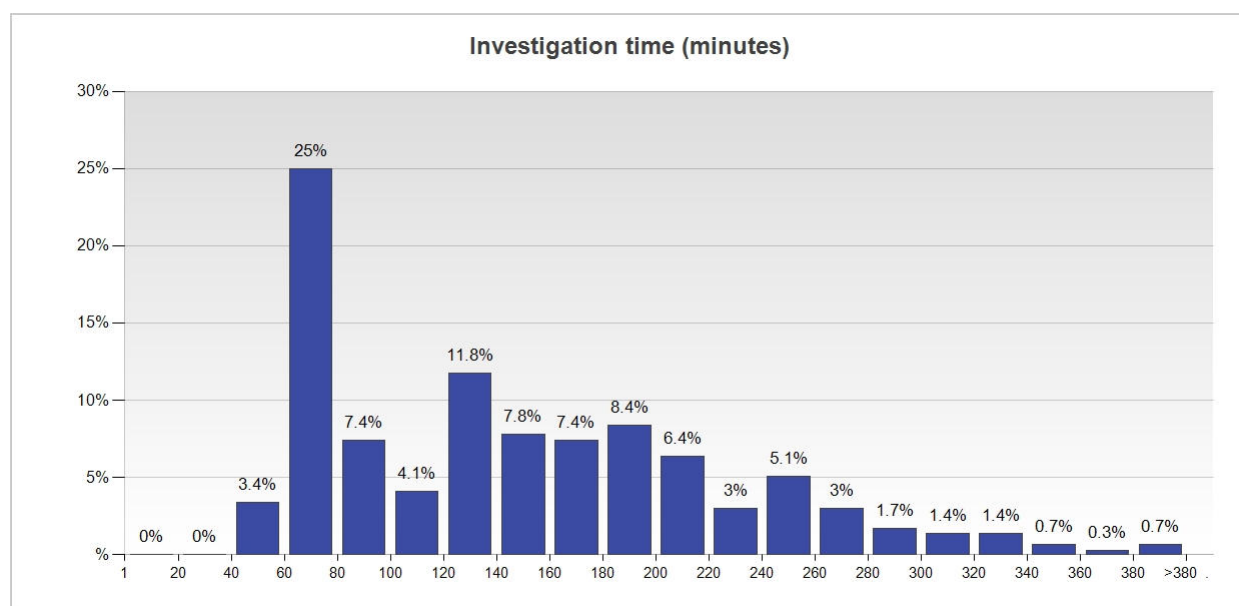
Cardiopathy (Underlying heart disease)	n	%
None	193	65.2
Hypertensive Cardiomyopathy	32	10.81
Ischemic	15	5.07
Other	13	4.39
Valvular	12	4.05
Angioplasty	10	3.38
Tachycardiomyopathy	10	3.38
Dilated	6	2.03
Congenital	2	0.68
H(O)CM	1	0.34
CABG	1	0.34
Post Valvular Surgery	1	0.34
Infiltrative	0	0
Channelopathy long QT	0	0
Channelopathy short QT	0	0
Brugada Syndrome	0	0
Early Repolarization Syndrome	0	0
Catecholaminergic Polymorphic VT	0	0
RV Cardiomyopathy	0	0
Post Congenital Surgery	0	0
Total	296	

Symptoms	n
Palpitations	225
Dyspnea	66
Fatigue	57
Other	41
None	19
Dizziness	16
Angina Pectoris	5
Syncope	5
SCD	0

Atrial Fibrillation combined with Right Atrial Flutter

Anesthesia	n	%
Local	160	54.05
General	136	45.95
Total	296	

Minutes	min.	Ø	max.	n	n ₀ *
Investigation time	45	145.4	480	293	3
Fluoroscopy time	2	23.4	111	293	3



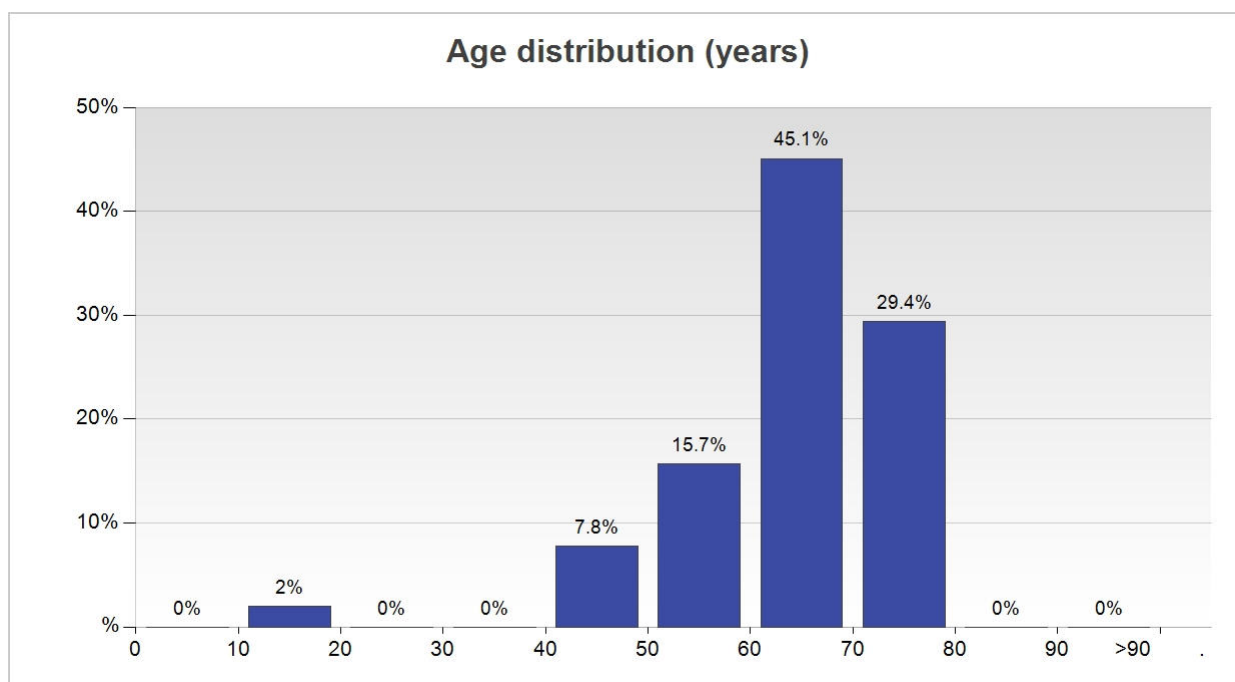
Atrial Fibrillation combined with Right Atrial Flutter

Periprocedural Complications	n
No complications	295
Inguinal Hematoma	1
Pneumothorax	0
TIA	0
Pseudoaneurysm	0
PV Stenosis	0
Hemothorax	0
Stroke	0
Aortic Dissection	0
Valvular Lesions	0
Transient AV Block	0
Myocardial Infarction	0
Arterial Thrombosis	0
Pulmonary Oedema	0
High Degree or Complete AV Block	0
Pericardial Effusion	0
Arterial Occlusion	0
Death	0
Phrenic Nerve Paralysis	0
Tamponade	0
Pulmonary Embolism	0
Other	0
AV Fistula	0
Infection	0

Left Atrial Flutter

Ablation of Left Atrial Flutter (LAFlu)	n
All interventions	97
LAFlu combined with others	46
LAFlu only	51

The following statistics include LAFlu only procedures



Age (years)	min.	Ø	max.
Female	46	67	80
Male	17	62	79
All	17	64	80

Number of patients	n	%
Females	11	21.57
Males	40	78.43
Total	51	

Left Atrial Flutter

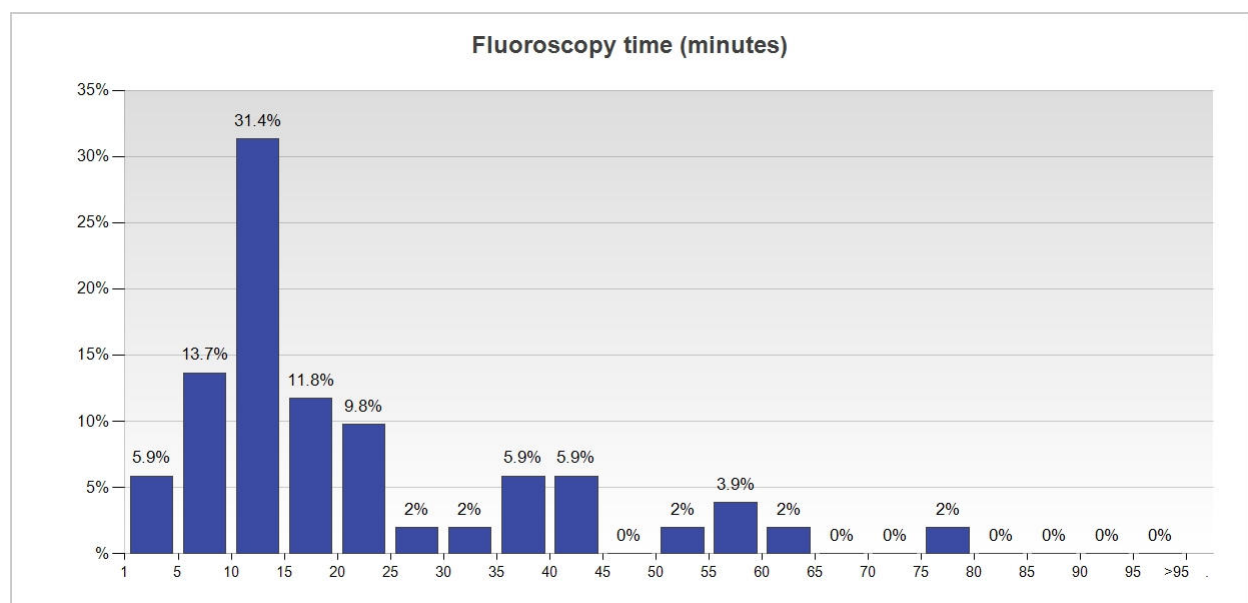
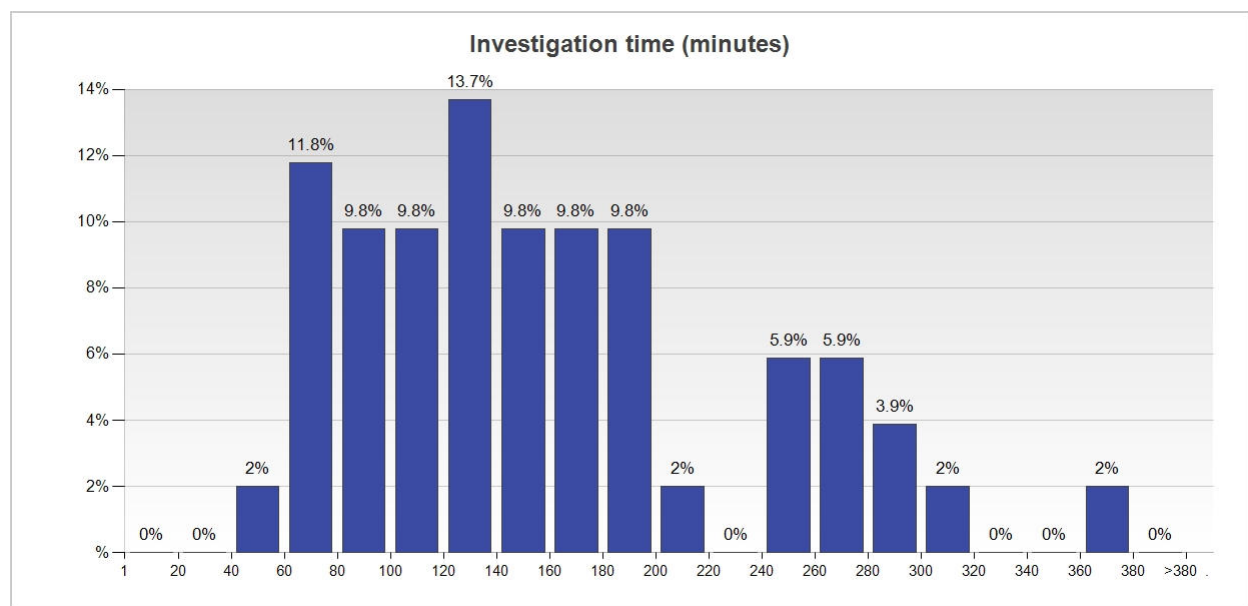
Cardiopathy (Underlying heart disease)	n	%
None	26	50.98
Valvular	7	13.73
Hypertensive Cardiomyopathy	6	11.76
Tachycardiomyopathy	5	9.8
Dilated	3	5.88
Congenital	2	3.92
H(O)CM	1	1.96
Angioplasty	1	1.96
Ischemic	0	0
Infiltrative	0	0
Channelopathy long QT	0	0
Channelopathy short QT	0	0
Brugada Syndrome	0	0
Early Repolarization Syndrome	0	0
Catecholaminergic Polymorphic VT	0	0
RV Cardiomyopathy	0	0
CABG	0	0
Post Congenital Surgery	0	0
Post Valvular Surgery	0	0
Other	0	0
Total	51	

Symptoms	n
Palpitations	37
Fatigue	18
Dyspnea	17
None	5
Other	4
Dizziness	4
Angina Pectoris	0
SCD	0
Syncope	0

Left Atrial Flutter

Anesthesia	n	%
Local	33	64.71
General	18	35.29
Total	51	

Minutes	min.	Ø	max.	n	n ₀ *
Investigation time	45	154.9	374	50	1
Fluoroscopy time	2	21.3	78	50	1



Left Atrial Flutter

Type of Flutter	n
Perimitral	24
Other	19
Roof-dependent	15
Peri Ostial Pulmonary Vein	6
Peri-Incisional	2

EHRA-Score	n	%
Score I	0	0
Score II	34	66.67
Score III	16	31.37
Score IV	1	1.96

Type of Intervention	n	%
Percutaneous	51	100
Hybrid (Epicardial + Endovascular)	0	0
Surgical Ablation	0	0

Intervention	n	%
Primary Intervention	19	37.25
Redo	32	62.75

Antiarrhythmic Drugs	n
Beta Blocker	29
Amiodarone	13
None	8
Calcium Antagonist	5
Other	4
Dronedarone	3
Flecainide	3
Sotalol	2
Propafenone	2
Digitalis	1

Left Atrial Flutter

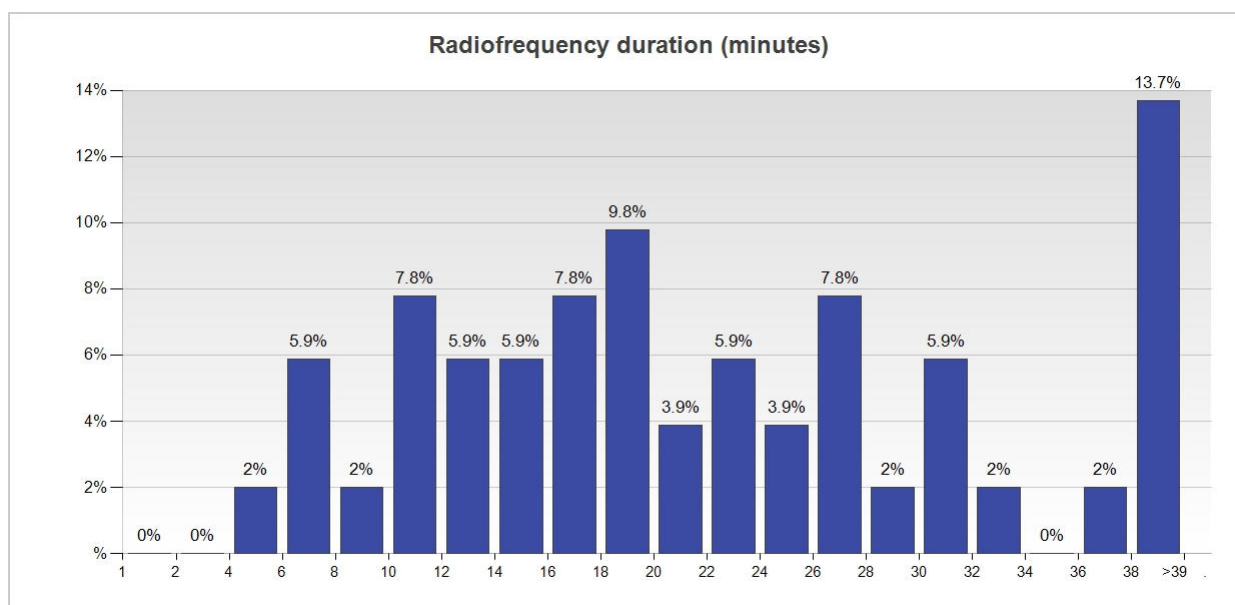
Thromboembolic Risk Factors	n
Hypertension	21
Congestive Heart Failure, LV dysfunction	6
Stroke, TIA, Other Embolic Event	3
Prior MI, Per. Artery Disease, Aortic Plaque	0
Diabetes	0

Anticoagulation, Antiaggregation	n
Vitamin K-Antagonist	22
Factor Xa-Antagonist	18
Other	6
None	4
Direct Thrombin Inhibitor	1
Aspirin	0
Clopidogrel	0
Prasugrel	0
Ticagrelor	0

CHA₂DS₂-VASc Score	n
Score = 0	13
Score = 1	19
Score = 2	8
Score = 3	6
Score = 4	5
Score = 5	0
Score = 6	0
Score = 7	0

Left Atrial Flutter

Radiofrequency	min.	Ø	max.	n	n ₀ *
Duration (minutes)	4	23.3	65	49	2
Irrigated Technology				42	
RF Duty Cycled				0	



Left Atrial Flutter

Access	n	%
Trans-septal, Puncture	42	82.35
Trans-septal, PFO	5	9.8
Other	2	3.92
Venous	1	1.96
Arterial	1	1.96
Epicardial, Coronary Sinus	0	0
Epicardial, Thoracotomy	0	0
Epicardial, Thoracoscopy	0	0
Epicardial, Sub-xiphoid	0	0
Total	51	

Mapping	n	%
3D Mapping	38	74.51
Conventional	9	17.65
Lasso	4	7.84
Basket	0	0
Non Contact	0	0
HD Mesh	0	0
Other	0	0
Total	51	

Catheter Steering	n	%
Conventional	50	98.04
Other	1	1.96
Stereotaxis	0	0
Hansen	0	0
Total	51	

Results	n	%
Block confirmed	34	66.67
Block not confirmed	17	33.33

Left Atrial Flutter

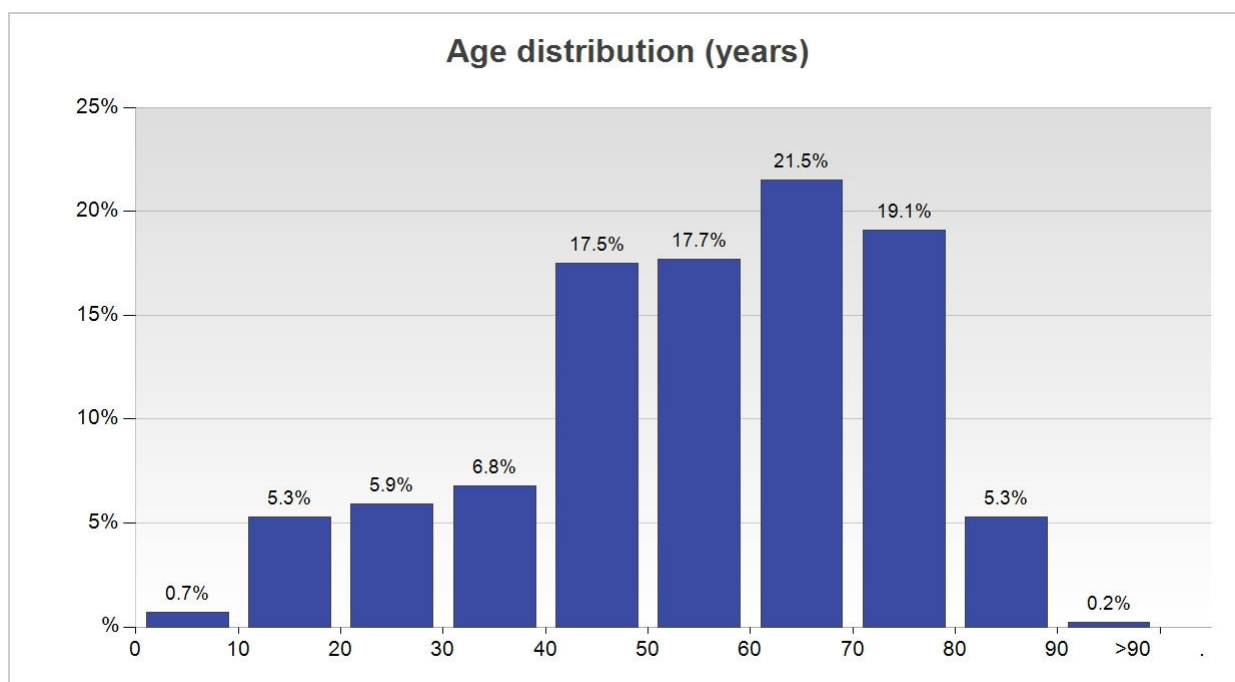
Periprocedural Complications	n
No complications	51
Pneumothorax	0
TIA	0
Pseudoaneurysm	0
PV Stenosis	0
Hemothorax	0
Stroke	0
Aortic Dissection	0
Valvular Lesions	0
Transient AV Block	0
Myocardial Infarction	0
Arterial Thrombosis	0
Pulmonary Oedema	0
High Degree or Complete AV Block	0
Pericardial Effusion	0
Arterial Occlusion	0
Death	0
Inguinal Hematoma	0
Phrenic Nerve Paralysis	0
Tamponade	0
Pulmonary Embolism	0
Other	0
AV Fistula	0
Infection	0

Atrioventricular Nodal Reentry Tachycardia (AVNRT)

Ablation of AVNRT

	n
All interventions	908
AVNRT combined with others	56
AVNRT only	852

The following statistics include AVNRT only procedures



Age (years)	min.	Ø	max.
Female	7	53	91
Male	6	59	93
All	6	56	93

Number of patients	n	%
Females	502	58.92
Males	350	41.08
Total	852	

Atrioventricular Nodal Reentry Tachycardia (AVNRT)

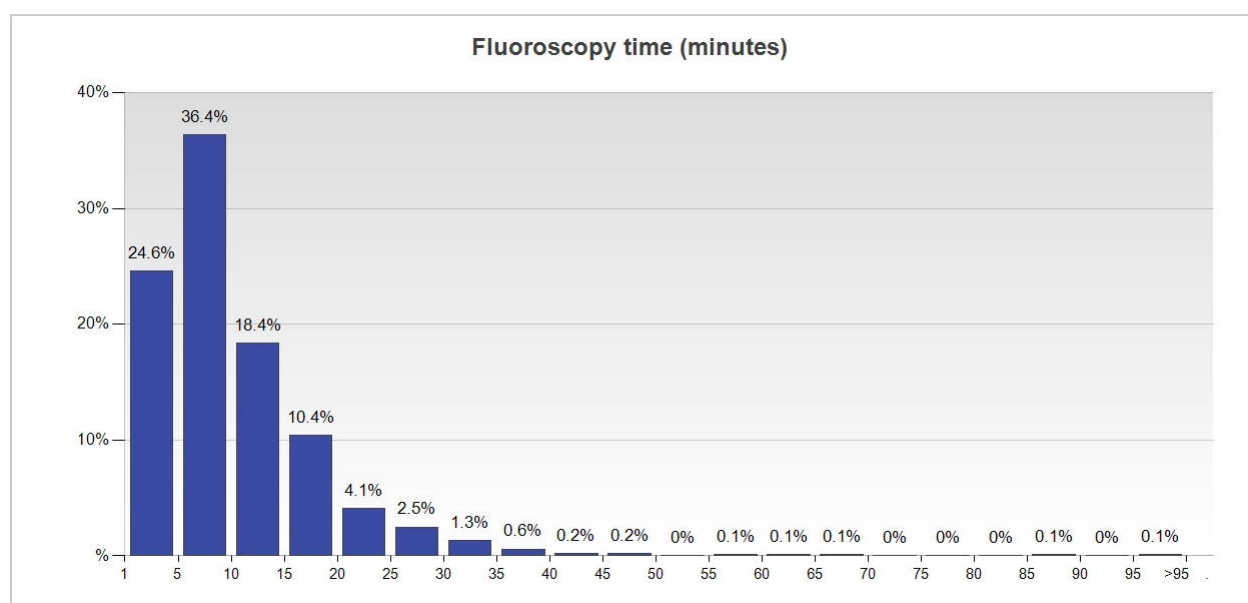
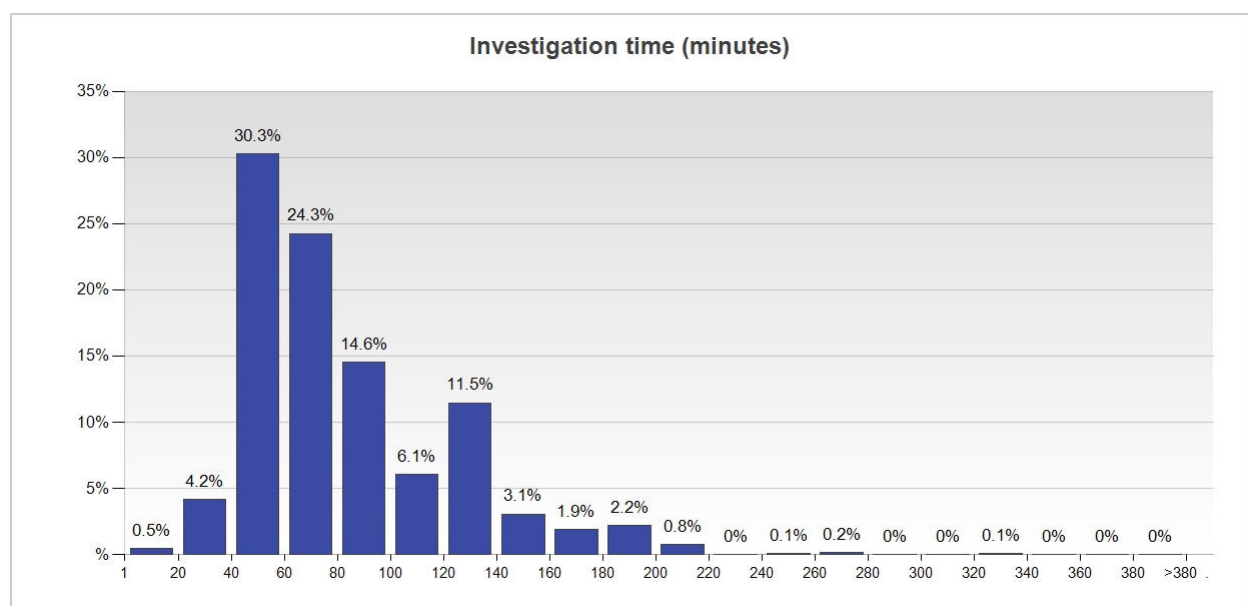
Cardiopathy (Underlying heart disease)	n	%
None	732	85.92
Ischemic	50	5.87
Hypertensive Cardiomyopathy	30	3.52
Valvular	13	1.53
Other	11	1.29
Dilated	7	0.82
Congenital	4	0.47
H(O)CM	2	0.23
Tachycardiomyopathy	2	0.23
Post Valvular Surgery	1	0.12
Infiltrative	0	0
Channelopathy long QT	0	0
Channelopathy short QT	0	0
Brugada Syndrome	0	0
Early Repolarization Syndrome	0	0
Catecholaminergic Polymorphic VT	0	0
RV Cardiomyopathy	0	0
CABG	0	0
Angioplasty	0	0
Post Congenital Surgery	0	0
Total	852	

Symptoms	n
Palpitations	809
Dizziness	87
Dyspnea	56
Syncope	37
Fatigue	36
Angina Pectoris	23
Other	22
None	19
SCD	2

Atrioventricular Nodal Reentry Tachycardia (AVNRT)

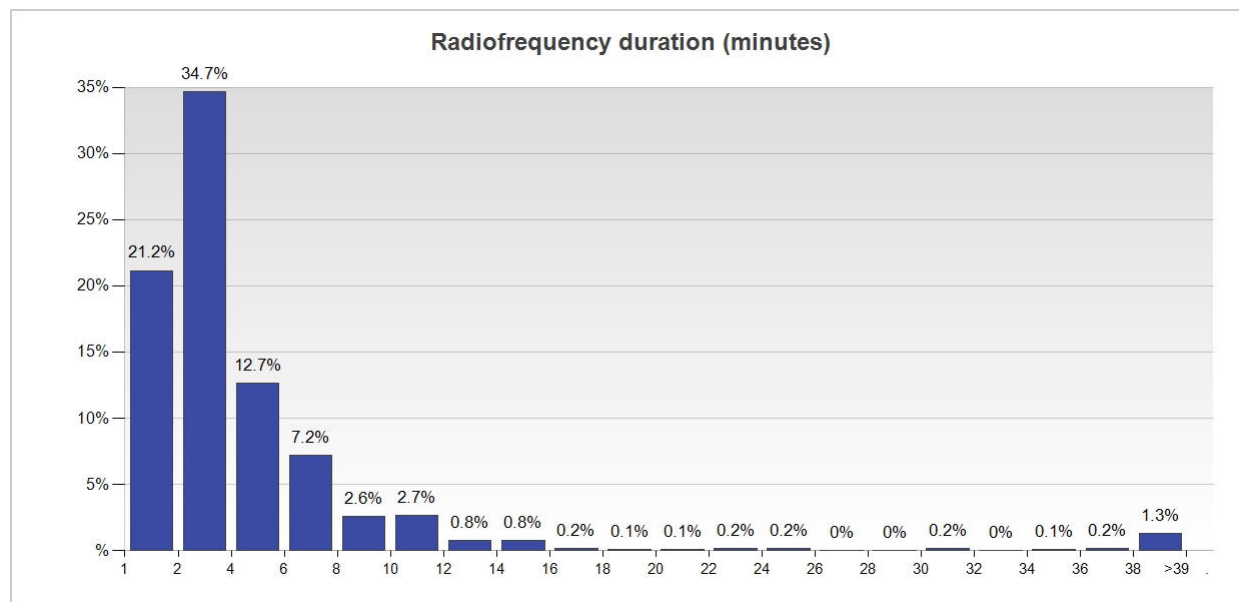
Anesthesia	n	%
Local	821	96.36
General	31	3.64
Total	852	

Minutes	min.	Ø	max.	n	n ₀ *
Investigation time	1	79.2	325	851	1
Fluoroscopy time	1	10.4	433	847	5



Atrioventricular Nodal Reentry Tachycardia (AVNRT)

Radiofrequency	min.	Ø	max.	n	n ₀ *
Duration (minutes)	1	5.4	451	729	123
Irrigated Technology				49	



Atrioventricular Nodal Reentry Tachycardia (AVNRT)

Type	n
Slow-Fast	802
Fast-Slow	32
Slow-Slow	30

Intervention	n	%
Primary Intervention	814	95.54
Redo	38	4.46

Cryoablation	min.	Ø	max.	n	n ₀ *
Total Duration (minutes)	35	35	35	1	0

Mapping	n	%
Conventional	838	98.36
3D Mapping	8	0.94
Other	4	0.47
Lasso	2	0.23
Basket	0	0
Non Contact	0	0
HD Mesh	0	0
Total	852	

Catheter Steering	n	%
Conventional	847	99.41
Stereotaxis	3	0.35
Other	2	0.23
Hansen	0	0
Total	852	

Results	n	%
Success	844	99.06
No success	8	0.94

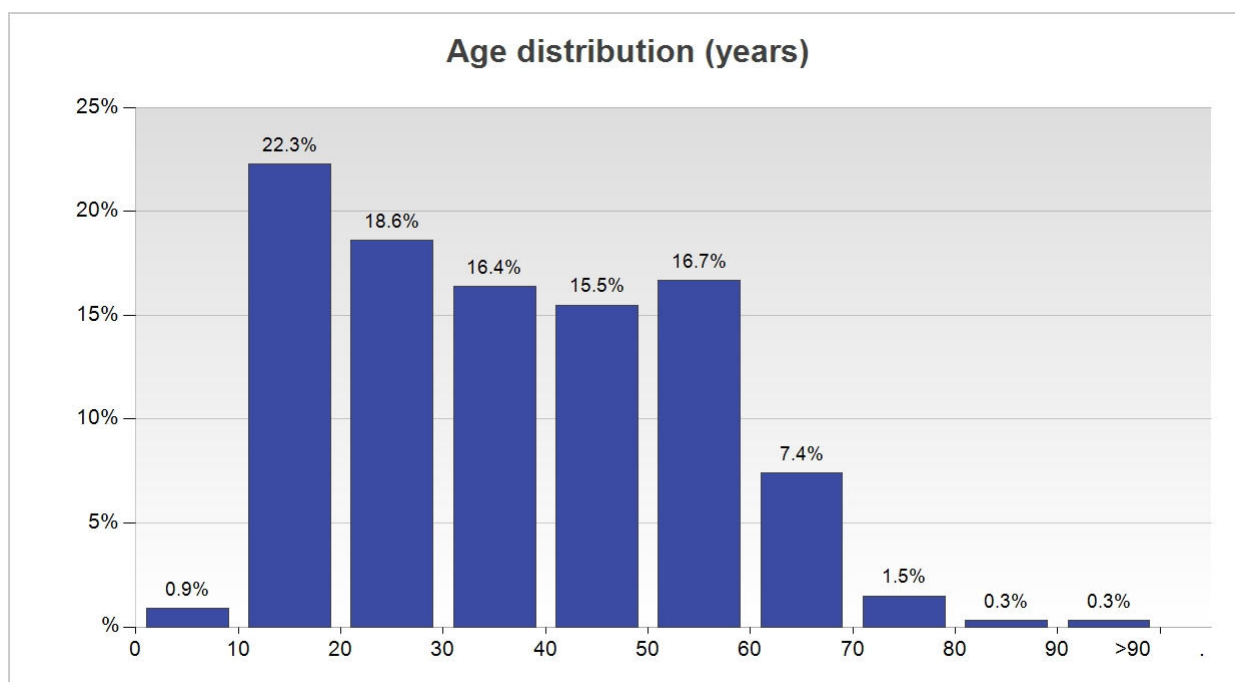
Atrioventricular Nodal Reentry Tachycardia (AVNRT)

Periprocedural Complications	n
No complications	842
Inguinal Hematoma	3
Transient AV Block	2
High Degree or Complete AV Block	2
Other	2
Tamponade	1
Pneumothorax	0
TIA	0
Pseudoaneurysm	0
PV Stenosis	0
Hemothorax	0
Stroke	0
Aortic Dissection	0
Valvular Lesions	0
Myocardial Infarction	0
Arterial Thrombosis	0
Pulmonary Oedema	0
Pericardial Effusion	0
Arterial Occlusion	0
Death	0
Phrenic Nerve Paralysis	0
Pulmonary Embolism	0
AV Fistula	0
Infection	0

Accessory Pathway

Ablation of Accessory Pathway (AP)		n
All interventions		337
AP combined with others		14
AP only		323

The following statistics include AP only procedures



Age (years)	min.	Ø	max.
Female	6	40	83
Male	11	36	95
All	6	37	95

Number of patients	n	%
Females	130	40.25
Males	193	59.75
Total	323	

Accessory Pathway

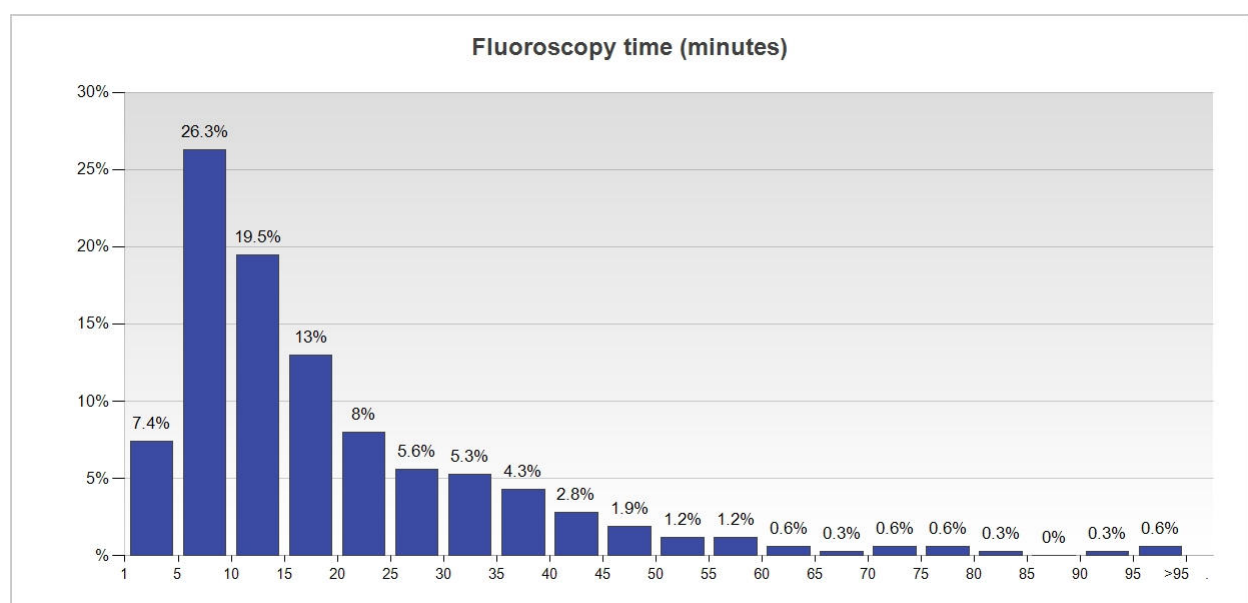
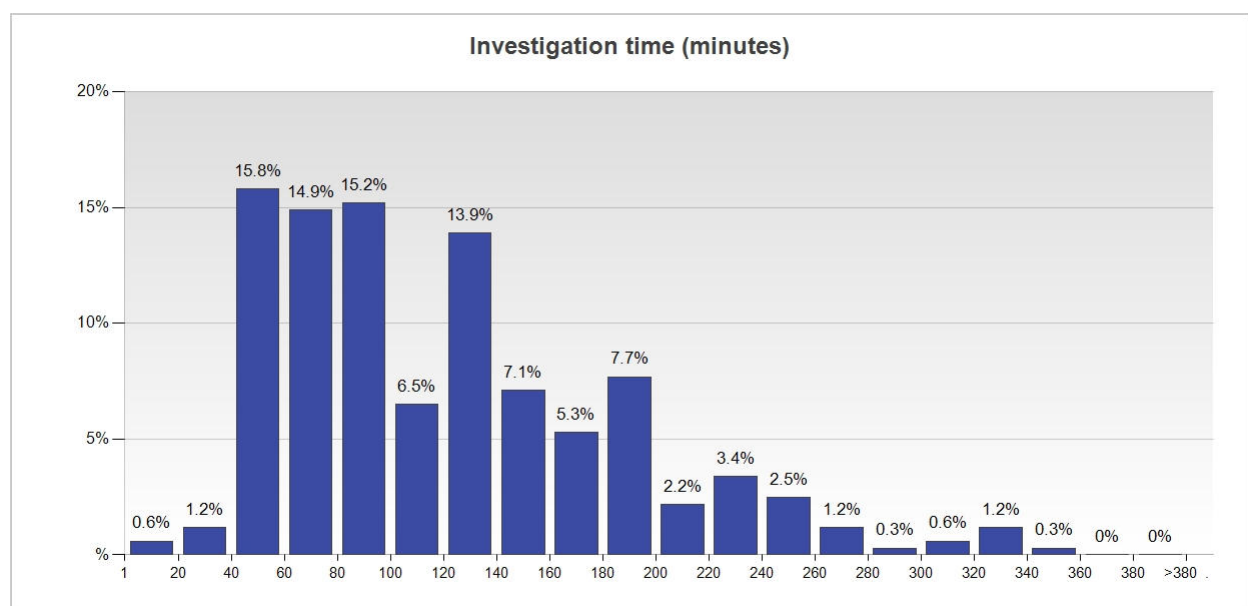
Cardiopathy (Underlying heart disease)	n	%
None	295	91.33
H(O)CM	5	1.55
Hypertensive Cardiomyopathy	5	1.55
Ischemic	4	1.24
Other	4	1.24
Congenital	3	0.93
Dilated	3	0.93
Tachycardiomyopathy	2	0.62
Infiltrative	1	0.31
Post Valvular Surgery	1	0.31
Valvular	0	0
Channelopathy long QT	0	0
Channelopathy short QT	0	0
Brugada Syndrome	0	0
Early Repolarization Syndrome	0	0
Catecholaminergic Polymorphic VT	0	0
RV Cardiomyopathy	0	0
CABG	0	0
Angioplasty	0	0
Post Congenital Surgery	0	0
Total	323	

Symptoms	n
Palpitations	261
None	49
Dizziness	29
Syncope	15
Dyspnea	13
Fatigue	11
Angina Pectoris	5
Other	2
SCD	1

Accessory Pathway

Anesthesia	n	%
Local	290	89.78
General	33	10.22
Total	323	

Minutes	min.	Ø	max.	n	n ₀ *
Investigation time	3	118	354	323	0
Fluoroscopy time	1	19.4	202	323	0



Accessory Pathway

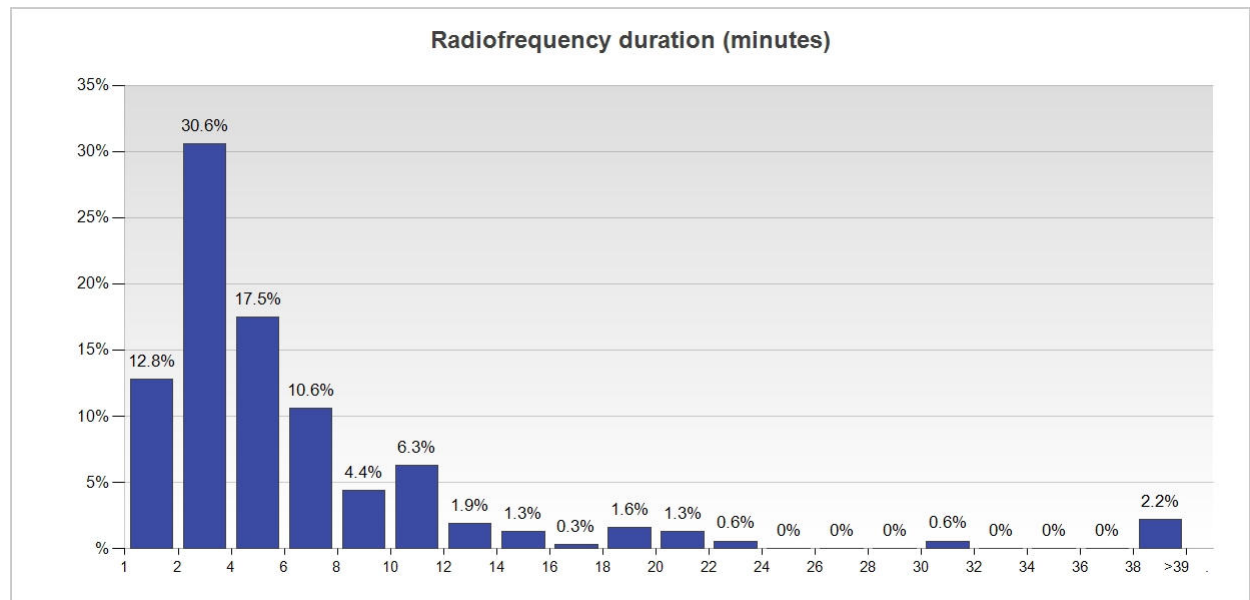
Type	n
WPW	209
Concealed	103
Asymptomatic Preexcitation	27
Other	7
PJRT	3
Atrio-Fascicular	1
Mahaim	1

Intervention	n	%
Primary Intervention	271	83.9
Redo	52	16.1

Site of Ablation	n
left	210
right	123
left: Free Wall	107
left: Posterior	63
right: Posteroseptal	62
left: Posteroseptal	46
right: Free Wall	16
right: Coronary Sinus Aneurysm	14
right: Anteroseptal	12
right: Midseptal	12
right: Parahisian	9
right: Posterior	7

Accessory Pathway

Radiofrequency	min.	Ø	max.	n	n ₀ *
Duration (minutes)	1	6.9	153	294	26
Irrigated Technology				111	



Accessory Pathway

Cryoablation	min.	Ø	max.	n	n₀*
Total Duration (minutes)	12	16.3	22	3	0

Access	n	%
Venous	145	44.89
Trans-septal, Puncture	118	36.53
Arterial	55	17.03
Trans-septal, PFO	5	1.55
Epicardial, Coronary Sinus	0	0
Epicardial, Thoracotomy	0	0
Epicardial, Thoracoscopy	0	0
Epicardial, Sub-xiphoid	0	0
Other	0	0
Total	323	

Mapping	n	%
Conventional	296	91.64
3D Mapping	24	7.43
Other	2	0.62
Basket	1	0.31
Lasso	0	0
Non Contact	0	0
HD Mesh	0	0
Total	323	

Catheter Steering	n	%
Conventional	319	98.76
Other	2	0.62
Stereotaxis	1	0.31
Hansen	1	0.31
Total	323	

Results	n	%
Success	294	91.02
No success	29	8.98

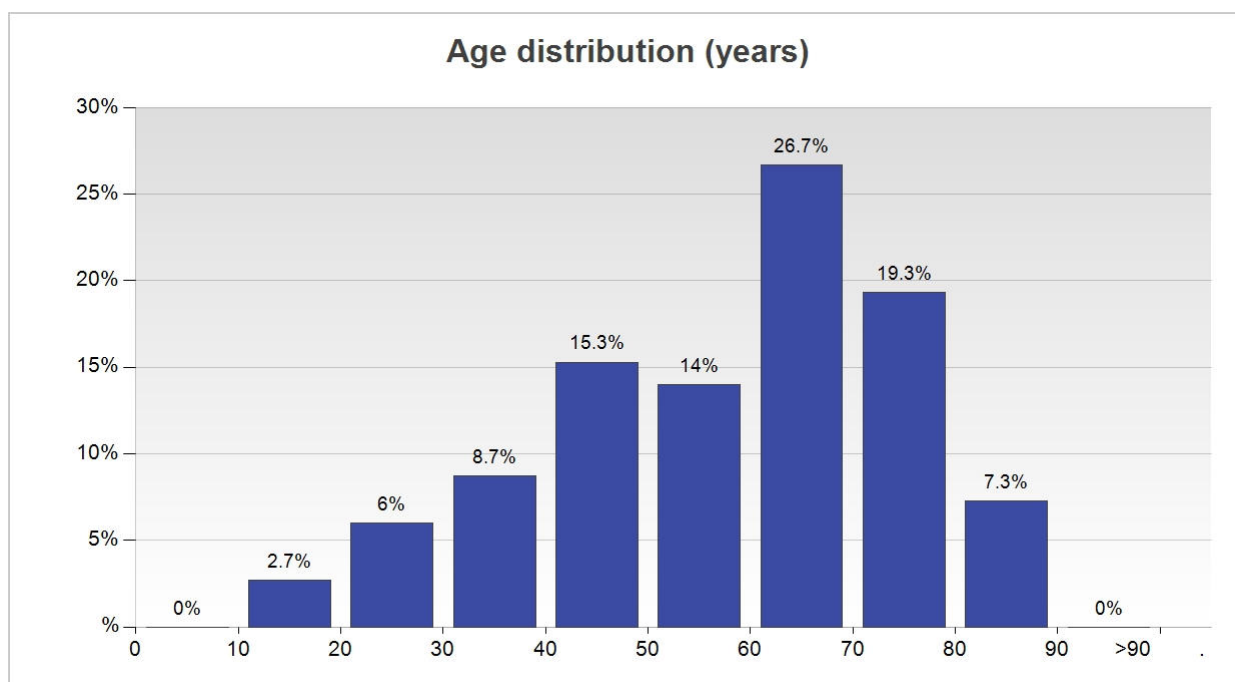
Accessory Pathway

Periprocedural Complications	n
No complications	317
Pericardial Effusion	2
TIA	1
High Degree or Complete AV Block	1
Inguinal Hematoma	1
Other	1
Pneumothorax	0
Pseudoaneurysm	0
PV Stenosis	0
Hemothorax	0
Stroke	0
Aortic Dissection	0
Valvular Lesions	0
Transient AV Block	0
Myocardial Infarction	0
Arterial Thrombosis	0
Pulmonary Oedema	0
Arterial Occlusion	0
Death	0
Phrenic Nerve Paralysis	0
Tamponade	0
Pulmonary Embolism	0
AV Fistula	0
Infection	0

Atrial Tachycardia

Ablation of Atrial Tachycardia (AT)	n
All interventions	213
AT combined with others	63
AT only	150

The following statistics include AT only procedures



Age (years)	min.	Ø	max.
Female	19	59	85
Male	15	57	81
All	15	58	85

Number of patients	n	%
Females	74	49.33
Males	76	50.67
Total	150	

Atrial Tachycardia

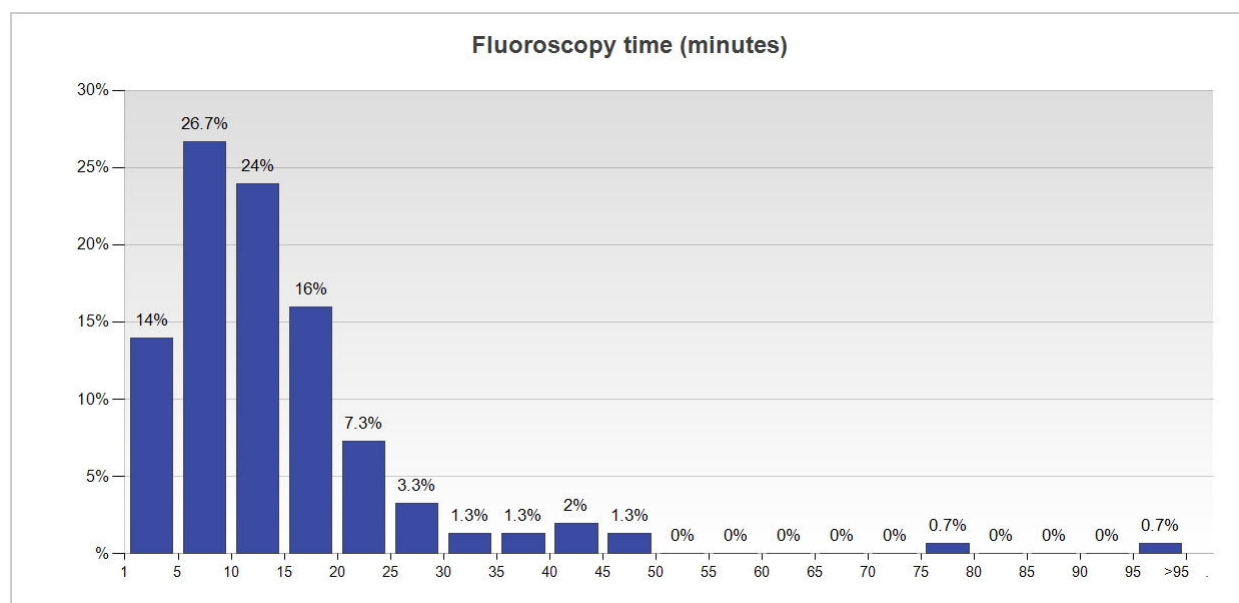
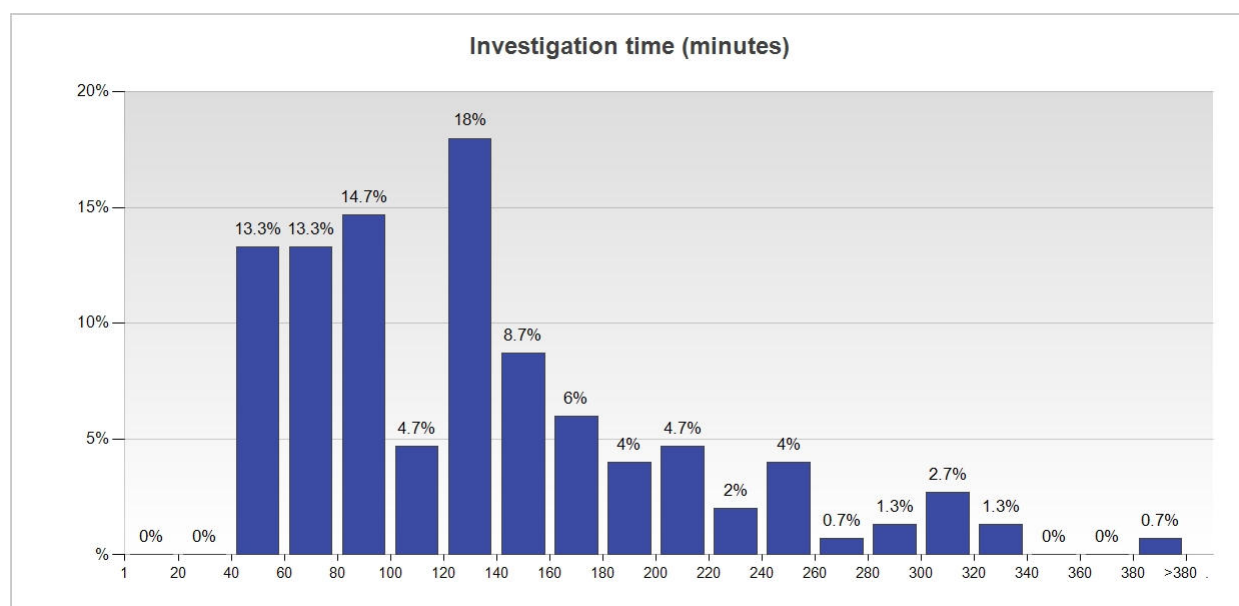
Cardiopathy (Underlying heart disease)	n	%
None	101	67.33
Hypertensive Cardiomyopathy	10	6.67
Valvular	8	5.33
Congenital	8	5.33
Ischemic	7	4.67
Other	7	4.67
Dilated	5	3.33
Tachycardiomyopathy	2	1.33
H(O)CM	1	0.67
Post Congenital Surgery	1	0.67
Infiltrative	0	0
Channelopathy long QT	0	0
Channelopathy short QT	0	0
Brugada Syndrome	0	0
Early Repolarization Syndrome	0	0
Catecholaminergic Polymorphic VT	0	0
RV Cardiomyopathy	0	0
CABG	0	0
Angioplasty	0	0
Post Valvular Surgery	0	0
Total	150	

Symptoms	n
Palpitations	126
Dyspnea	23
Fatigue	19
None	11
Dizziness	11
Angina Pectoris	3
Other	3
Syncope	3
SCD	0

Atrial Tachycardia

Anesthesia	n	%
Local	146	97.33
General	4	2.67
Total	150	

Minutes	min.	Ø	max.	n	n ₀ *
Investigation time	43	129	380	150	0
Fluoroscopy time	3	14.1	140	148	2



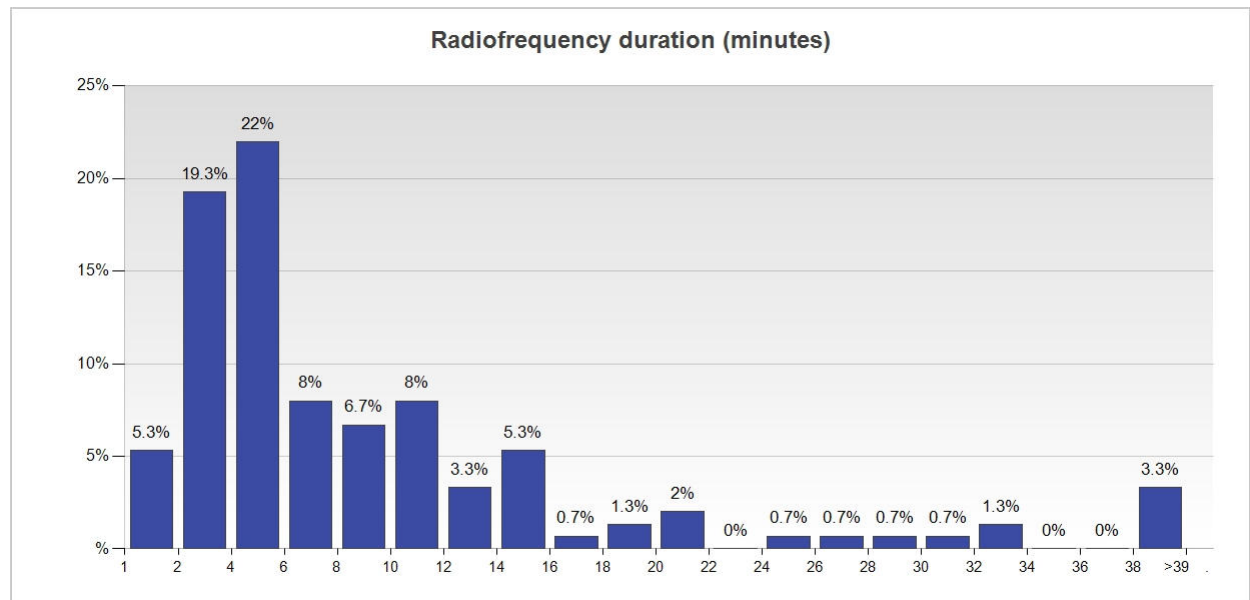
Atrial Tachycardia

Intervention	n	%
Primary Intervention	127	84.67
Redo	23	15.33

Site of Ablation	n
right	112
left	44
right: Other Right	37
right: Crista Terminalis	31
right: Septal Right	26
right: Peritricuspid	22
left: Other Left	20
left: Septal Left	11
right: Right Appendage	9
left: Perimitral	7
left: Left Atrial Appendage	6
left: Periostial PV	6

Atrial Tachycardia

Radiofrequency	min.	Ø	max.	n	n ₀ *
Duration (minutes)	1	9.2	65	134	16
Irrigated Technology				90	



Atrial Tachycardia

Access	n	%
Venous	114	76
Trans-septal, Puncture	26	17.33
Trans-septal, PFO	7	4.67
Arterial	2	1.33
Other	1	0.67
Epicardial, Coronary Sinus	0	0
Epicardial, Thoracotomy	0	0
Epicardial, Thoracoscopy	0	0
Epicardial, Sub-xiphoid	0	0
Total	150	

Mapping	n	%
3D Mapping	88	58.67
Conventional	56	37.33
Lasso	3	2
Non Contact	2	1.33
Other	1	0.67
Basket	0	0
HD Mesh	0	0
Total	150	

Catheter Steering	n	%
Conventional	147	98
Other	2	1.33
Stereotaxis	1	0.67
Hansen	0	0
Total	150	

Results	n	%
Success	126	84
No success	24	16

Atrial Tachycardia

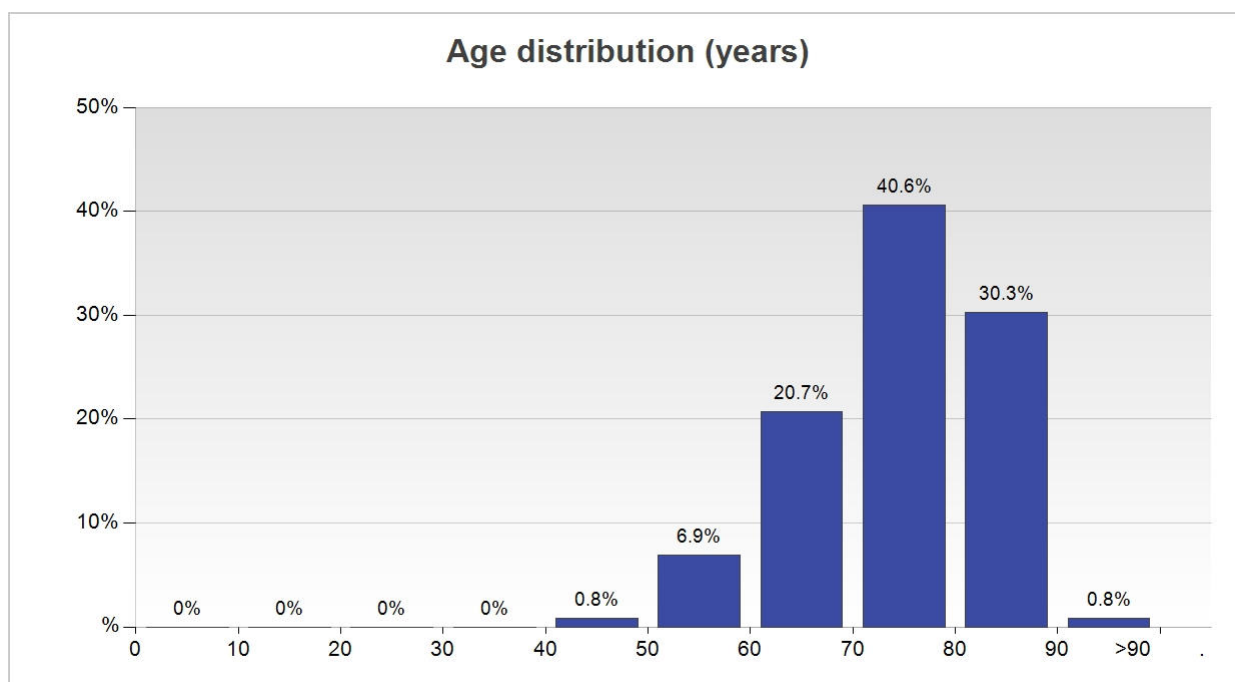
Periprocedural Complications	n
No complications	148
Phrenic Nerve Paralysis	1
Tamponade	1
Pneumothorax	0
TIA	0
Pseudoaneurysm	0
PV Stenosis	0
Hemothorax	0
Stroke	0
Aortic Dissection	0
Valvular Lesions	0
Transient AV Block	0
Myocardial Infarction	0
Arterial Thrombosis	0
Pulmonary Oedema	0
High Degree or Complete AV Block	0
Pericardial Effusion	0
Arterial Occlusion	0
Death	0
Inguinal Hematoma	0
Pulmonary Embolism	0
Other	0
AV Fistula	0
Infection	0

Atrioventricular Node (Rate Control in Atr. Fibrillation)

Ablation of AVN(R)

	n
All interventions	283
AVN(R) combined with others	22
AVN(R) only	261

The following statistics include AVN(R) only procedures



Age (years)	min.	Ø	max.
Female	49	77	91
Male	51	74	97
All	49	75	97

Number of patients	n	%
Females	131	50.19
Males	130	49.81
Total	261	

Atrioventricular Node (Rate Control in Atr. Fibrillation)

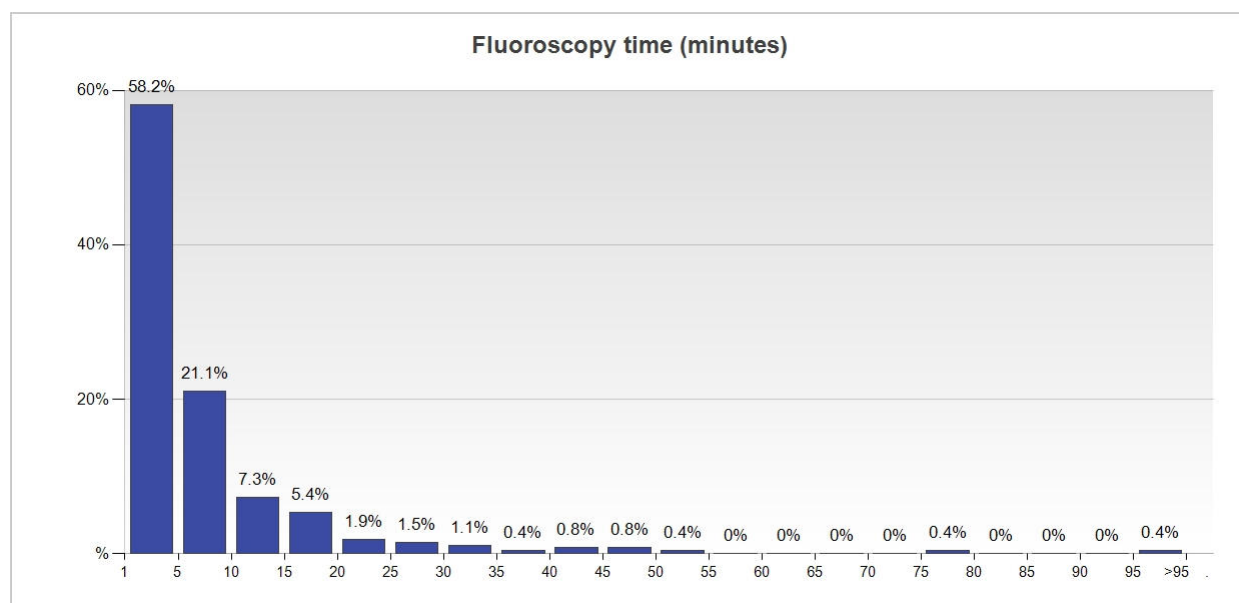
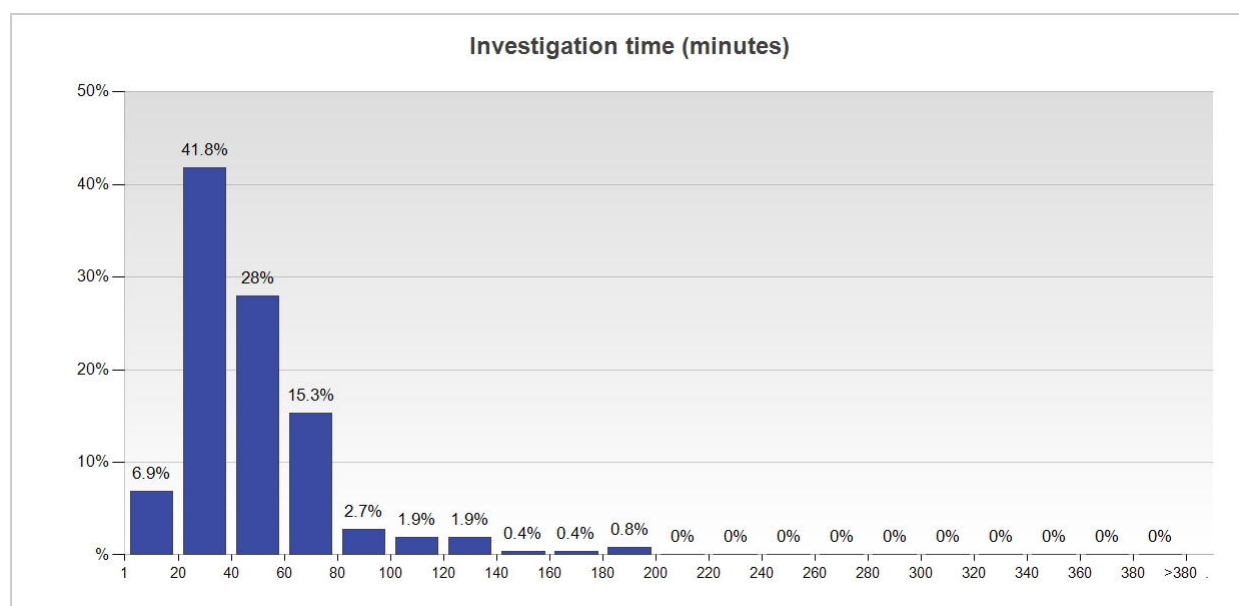
Cardiopathy (Underlying heart disease)	n	%
None	72	27.59
Ischemic	42	16.09
Hypertensive Cardiomyopathy	38	14.56
Tachycardiomyopathy	35	13.41
Dilated	24	9.2
Valvular	17	6.51
Other	9	3.45
H(O)CM	8	3.07
Post Valvular Surgery	6	2.3
Angioplasty	4	1.53
Post Congenital Surgery	3	1.15
Congenital	2	0.77
CABG	1	0.38
Infiltrative	0	0
Channelopathy long QT	0	0
Channelopathy short QT	0	0
Brugada Syndrome	0	0
Early Repolarization Syndrome	0	0
Catecholaminergic Polymorphic VT	0	0
RV Cardiomyopathy	0	0
Total	261	

Symptoms	n
Palpitations	199
Dyspnea	114
Fatigue	82
Dizziness	28
Other	16
None	10
Syncope	5
Angina Pectoris	2
SCD	0

Atrioventricular Node (Rate Control in Atr. Fibrillation)

Anesthesia	n	%
Local	259	99.23
General	2	0.77
Total	261	

Minutes	min.	Ø	max.	n	n ₀ *
Investigation time	7	44	190	261	0
Fluoroscopy time	1	7.4	122	260	1



Atrioventricular Node (Rate Control in Atr. Fibrillation)

Type of Fibrillation	n	%
Paroxysmal	73	27.97
Persistent	97	37.16
Long-standing Persistent (>1 Year)	91	34.87

EHRA-Score	n	%
Score I	20	7.66
Score II	70	26.82
Score III	148	56.7
Score IV	23	8.81

Intervention	n	%
Primary Intervention	227	86.97
Redo	14	5.36
Previous AF Abl. Procedure	20	7.66

Antiarrhythmic Drugs	n
Beta Blocker	197
Amiodarone	63
Calcium Antagonist	54
Digitalis	39
None	18
Other	17
Sotalol	15
Dronedarone	6
Flecainide	3
Propafenone	1

Atrioventricular Node (Rate Control in Atr. Fibrillation)

Thromboembolic Risk Factors	n
Hypertension	136
Congestive Heart Failure, LV dysfunction	56
Prior MI, Per. Artery Disease, Aortic Plaque	31
Diabetes	25
Stroke, TIA, Pther Embolic Event	20

Anticoagulation, Antiaggregation	n
Vitamin K-Antagonist	159
Factor Xa-Antagonist	46
Other	23
None	16
Direct Thrombin Inhibitor	12
Aspirin	9
Clopidogrel	7
Ticagrelor	1
Prasugrel	0

CHA₂DS₂-VASc Score	n
Score = 0	8
Score = 1	21
Score = 2	57
Score = 3	75
Score = 4	67
Score = 5	22
Score = 6	7
Score = 7	1

Atrioventricular Node (Rate Control in Atr. Fibrillation)

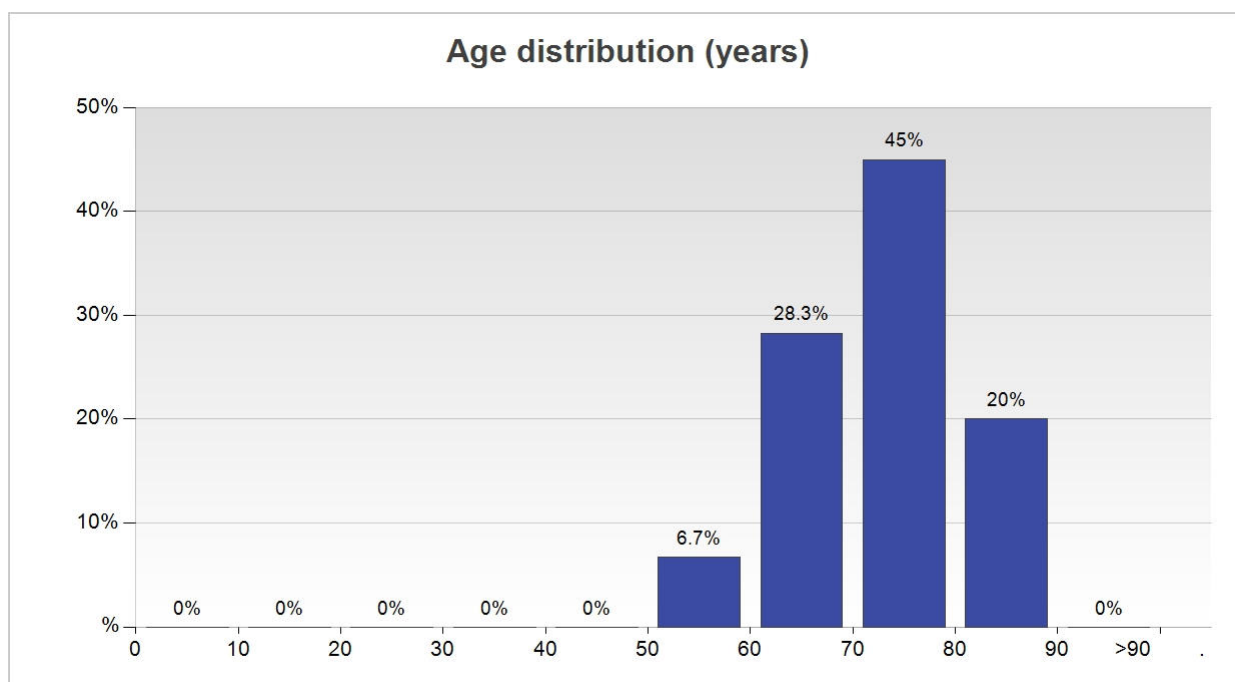
Periprocedural Complications	n
No complications	259
Inguinal Hematoma	2
Pseudoaneurysm	1
Pneumothorax	0
TIA	0
PV Stenosis	0
Hemothorax	0
Stroke	0
Aortic Dissection	0
Valvular Lesions	0
Transient AV Block	0
Myocardial Infarction	0
Arterial Thrombosis	0
Pulmonary Oedema	0
High Degree or Complete AV Block	0
Pericardial Effusion	0
Arterial Occlusion	0
Death	0
Phrenic Nerve Paralysis	0
Tamponade	0
Pulmonary Embolism	0
Other	0
AV Fistula	0
Infection	0

Atrioventricular Node (to resynchronisation)

Ablation of AVN

	n
All interventions	76
AVN combined with others	16
AVN only	60

The following statistics include AVN only procedures



Age (years)	min.	Ø	max.
Female	55	77	89
Male	53	71	86
All	53	73	89

Number of patients	n	%
Females	24	40
Males	36	60
Total	60	

Atrioventricular Node (to resynchronisation)

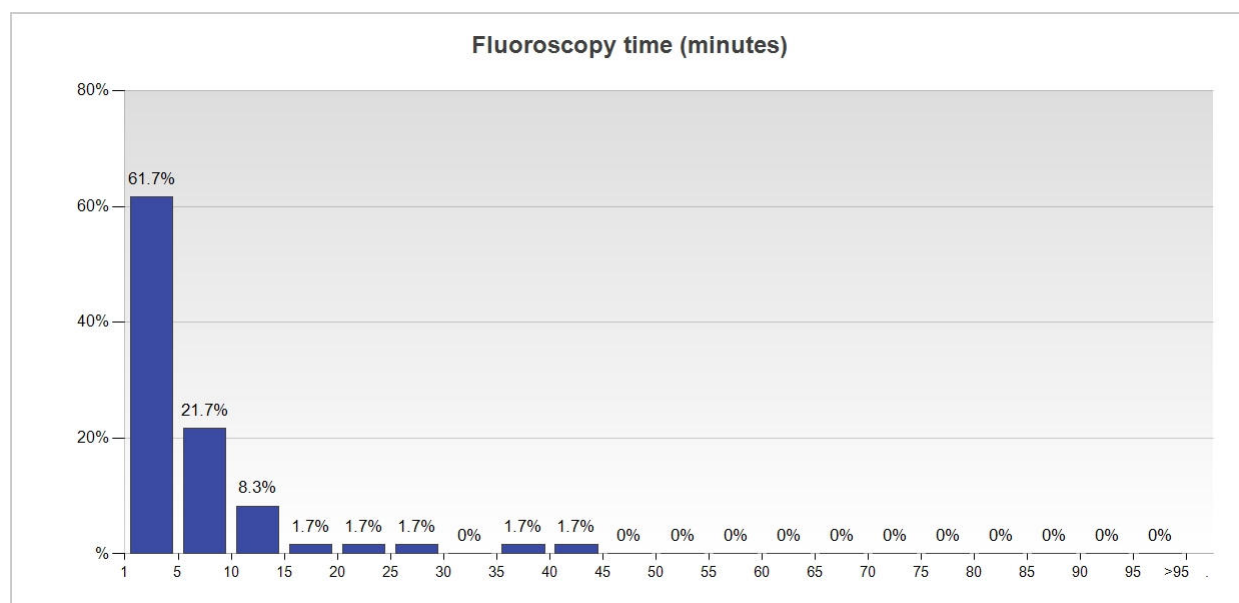
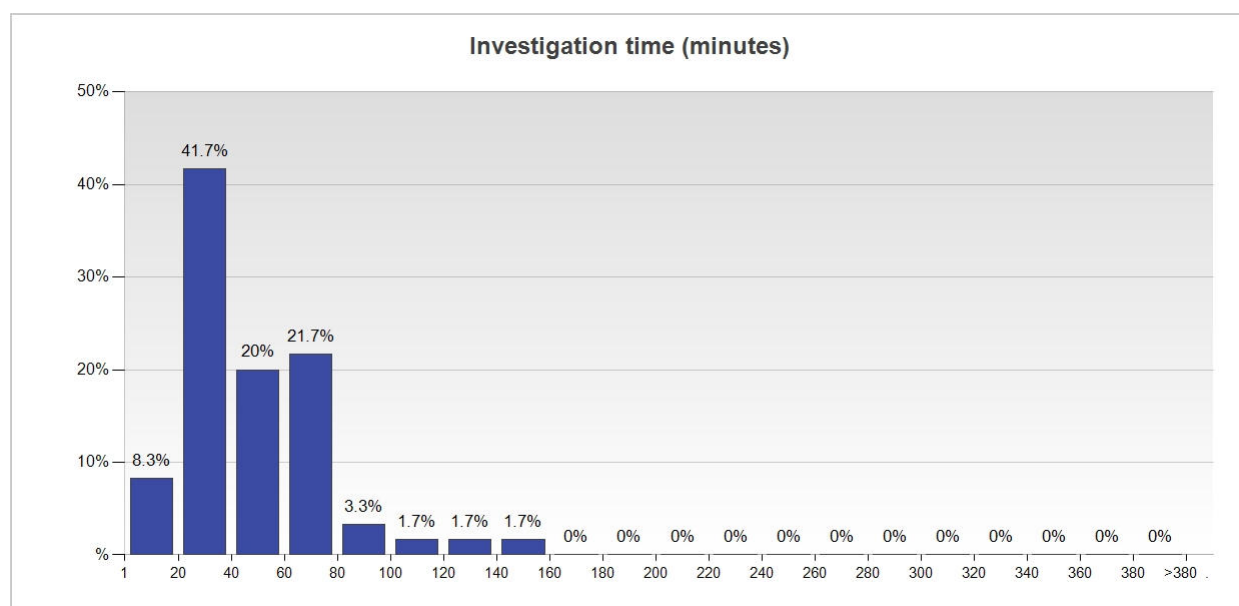
Cardiopathy (Underlying heart disease)	n	%
Dilated	18	30
None	9	15
Ischemic	9	15
Tachycardiomyopathy	7	11.67
Other	6	10
Valvular	4	6.67
Hypertensive Cardiomyopathy	4	6.67
H(O)CM	2	3.33
Post Valvular Surgery	1	1.67
Congenital	0	0
Infiltrative	0	0
Channelopathy long QT	0	0
Channelopathy short QT	0	0
Brugada Syndrome	0	0
Early Repolarization Syndrome	0	0
Catecholaminergic Polymorphic VT	0	0
RV Cardiomyopathy	0	0
CABG	0	0
Angioplasty	0	0
Post Congenital Surgery	0	0
Total	60	

Symptoms	n
Dyspnea	38
Palpitations	35
Fatigue	28
Dizziness	9
Other	6
Syncope	3
Angina Pectoris	2
SCD	1
None	0

Atrioventricular Node (to resynchronisation)

Anesthesia	n	%
Local	59	98.33
General	1	1.67
Total	60	

Minutes	min.	Ø	max.	n	n ₀ *
Investigation time	10	43.4	140	60	0
Fluoroscopy time	1	5.9	40	60	0



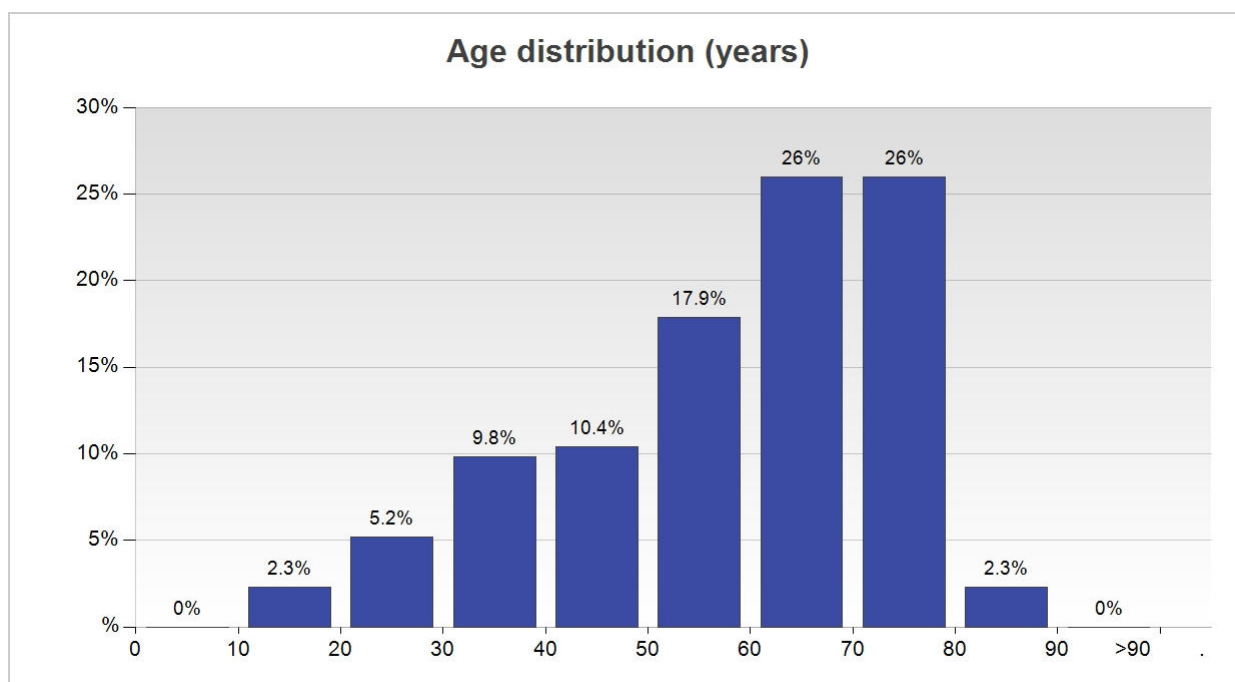
Atrioventricular Node (to resynchronisation)

Periprocedural Complications	n
No complications	60
Pneumothorax	0
TIA	0
Pseudoaneurysm	0
PV Stenosis	0
Hemothorax	0
Stroke	0
Aortic Dissection	0
Valvular Lesions	0
Transient AV Block	0
Myocardial Infarction	0
Arterial Thrombosis	0
Pulmonary Oedema	0
High Degree or Complete AV Block	0
Pericardial Effusion	0
Arterial Occlusion	0
Death	0
Inguinal Hematoma	0
Phrenic Nerve Paralysis	0
Tamponade	0
Pulmonary Embolism	0
Other	0
AV Fistula	0
Infection	0

Ventricular Tachycardia

Ablation of Ventricular Tachycardia (VT)		n
All interventions		173
VT combined with others		0
VT only		173

The following statistics include VT only procedures



Age (years)	min.	Ø	max.
Female	23	53	85
Male	18	61	83
All	18	59	85

Number of patients	n	%
Females	45	26.01
Males	128	73.99
Total	173	

Ventricular Tachycardia

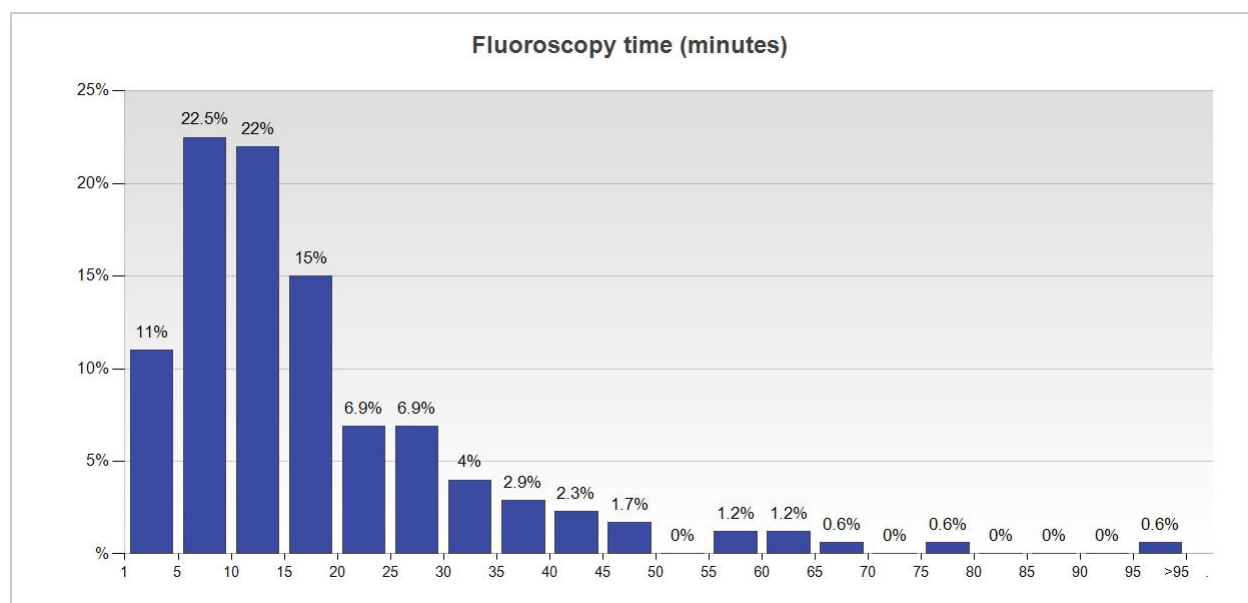
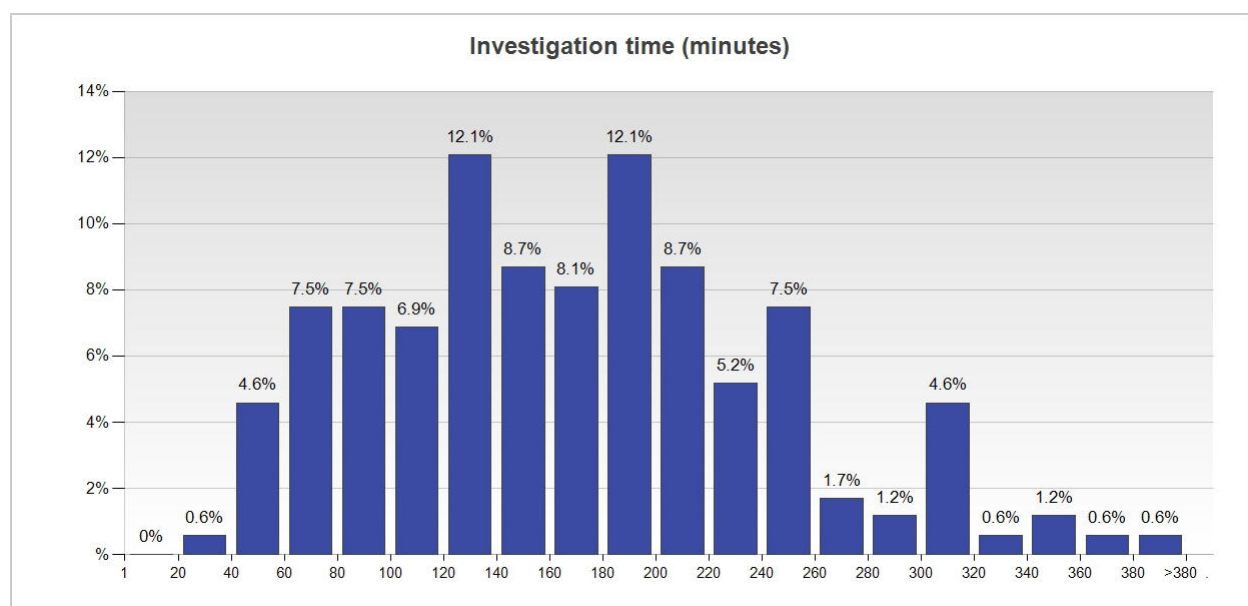
Cardiopathy (Underlying heart disease)	n	%
None	64	36.99
Ischemic	59	34.1
Dilated	13	7.51
Other	12	6.94
RV Cardiomyopathy	6	3.47
Angioplasty	5	2.89
Tachycardiomyopathy	4	2.31
Congenital	3	1.73
Valvular	2	1.16
H(O)CM	2	1.16
Hypertensive Cardiomyopathy	2	1.16
Post Congenital Surgery	1	0.58
Infiltrative	0	0
Channelopathy long QT	0	0
Channelopathy short QT	0	0
Brugada Syndrome	0	0
Early Repolarization Syndrome	0	0
Catecholaminergic Polymorphic VT	0	0
CABG	0	0
Post Valvular Surgery	0	0
Total	173	

Symptoms	n
Palpitations	126
Dizziness	34
Dyspnea	33
Other	26
Syncope	20
Fatigue	18
None	11
SCD	7
Angina Pectoris	3

Ventricular Tachycardia

Anesthesia	n	%
Local	151	87.28
General	22	12.72
Total	173	

Minutes	min.	Ø	max.	n	n ₀ *
Investigation time	30	166.2	450	173	0
Fluoroscopy time	1	17.7	204	172	1



Ventricular Tachycardia

Type	n
Monomorphic	126
Ischemic	34
Polymorphic	9

Location	n
RVOT	42
LVOT / Aortic Cusp	11
Left Fascicular VT	10
Epicardial	8
Other	7
BB Reentry	4

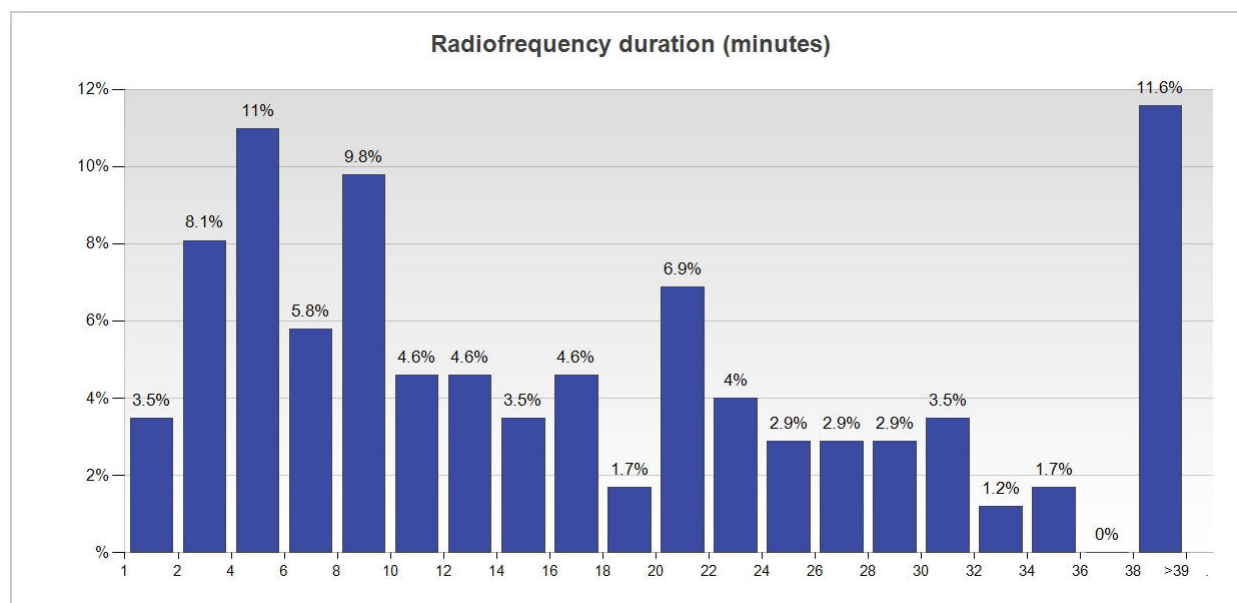
Intervention	n	%
Primary Intervention	138	79.77
Redo	35	20.23

Antiarrhythmic Drugs	n
Beta Blocker	104
Amiodarone	63
None	28
Other	13
Sotalol	11
Calcium Antagonist	11
Flecainide	8
Propafenone	0

Ventricular Tachycardia

Radiofrequency	min.	Ø	max.	n	n ₀ *
Duration (minutes)	1	18.7	90	167	6
Irrigated Technology				146	

Number of Induced VT: 272



Ventricular Tachycardia

Access	n	%
Venous	91	52.6
Arterial	43	24.86
Trans-septal, Puncture	33	19.08
Epicardial, Sub-xiphoid	5	2.89
Epicardial, Thoracotomy	1	0.58
Trans-septal, PFO	0	0
Epicardial, Coronary Sinus	0	0
Epicardial, Thoracoscopy	0	0
Other	0	0
Total	173	

Mapping	n	%
3D Mapping	144	83.24
Conventional	25	14.45
Non Contact	2	1.16
Lasso	1	0.58
Basket	1	0.58
HD Mesh	0	0
Other	0	0
Total	173	

Catheter Steering	n	%
Conventional	163	94.22
Stereotaxis	7	4.05
Other	3	1.73
Hansen	0	0
Total	173	

Results	n	%
All Induces VT Ablated	70	40.46
Target VT Ablated	84	48.55
Failure	19	10.98

Ventricular Tachycardia

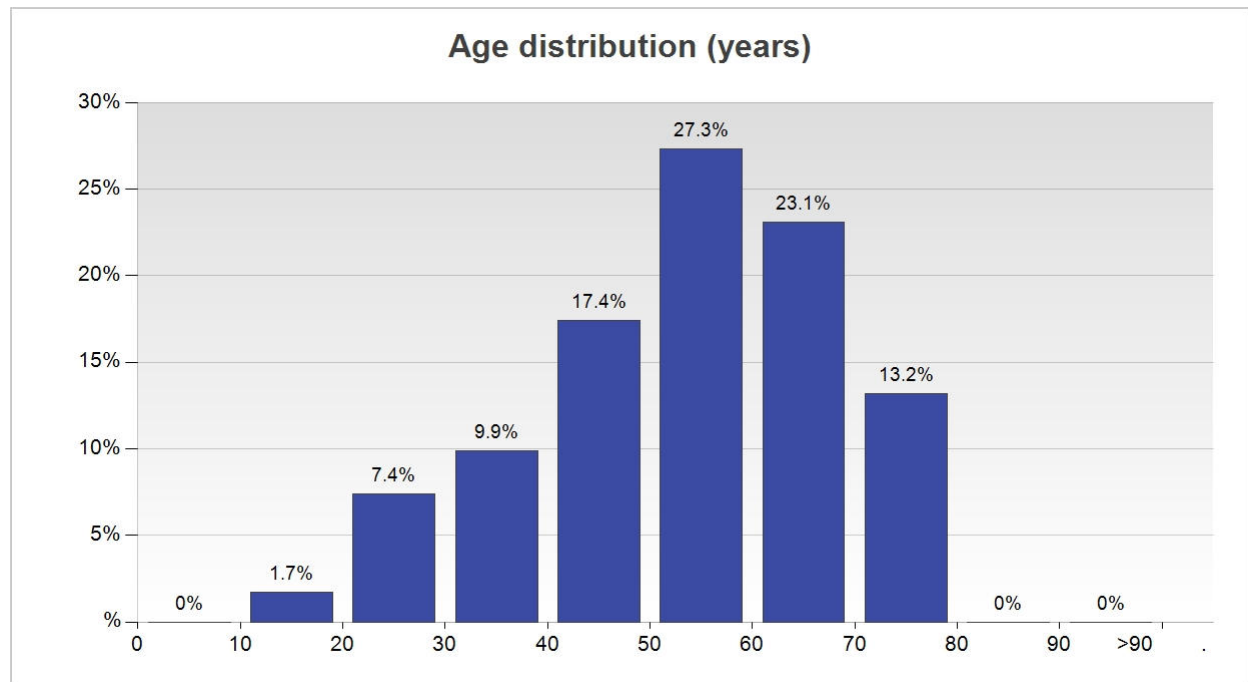
Periprocedural Complications	n
No complications	168
Tamponade	2
Other	2
Pulmonary Oedema	1
Pericardial Effusion	1
Pneumothorax	0
TIA	0
Pseudoaneurysm	0
PV Stenosis	0
Hemothorax	0
Stroke	0
Aortic Dissection	0
Valvular Lesions	0
Transient AV Block	0
Myocardial Infarction	0
Arterial Thrombosis	0
High Degree or Complete AV Block	0
Arterial Occlusion	0
Death	0
Inguinal Hematoma	0
Phrenic Nerve Paralysis	0
Pulmonary Embolism	0
AV Fistula	0
Infection	0

Premature Ventricular Contraction

Ablation of PVC

	n
All interventions	126
PVC combined with others	5
PVC only	121

The following statistics include PVC only procedures



Age (years)	min.	Ø	max.
Female	19	53	75
Male	19	55	80
All	19	54	80

Number of patients	n	%
Females	54	44.63
Males	67	55.37
Total	121	

Premature Ventricular Contraction

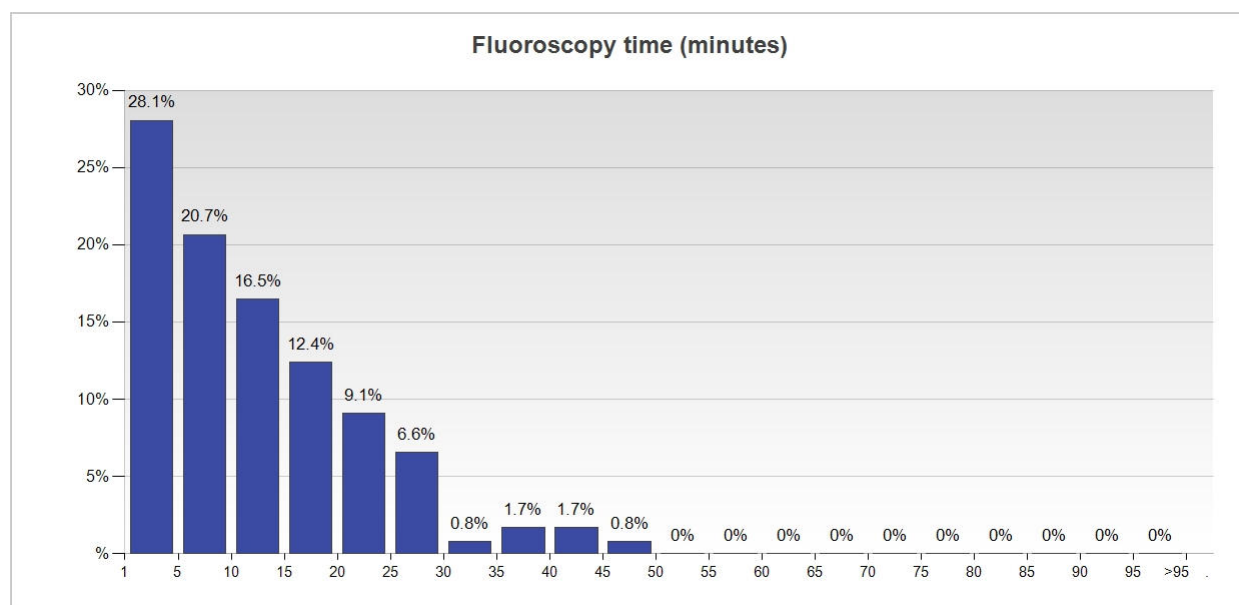
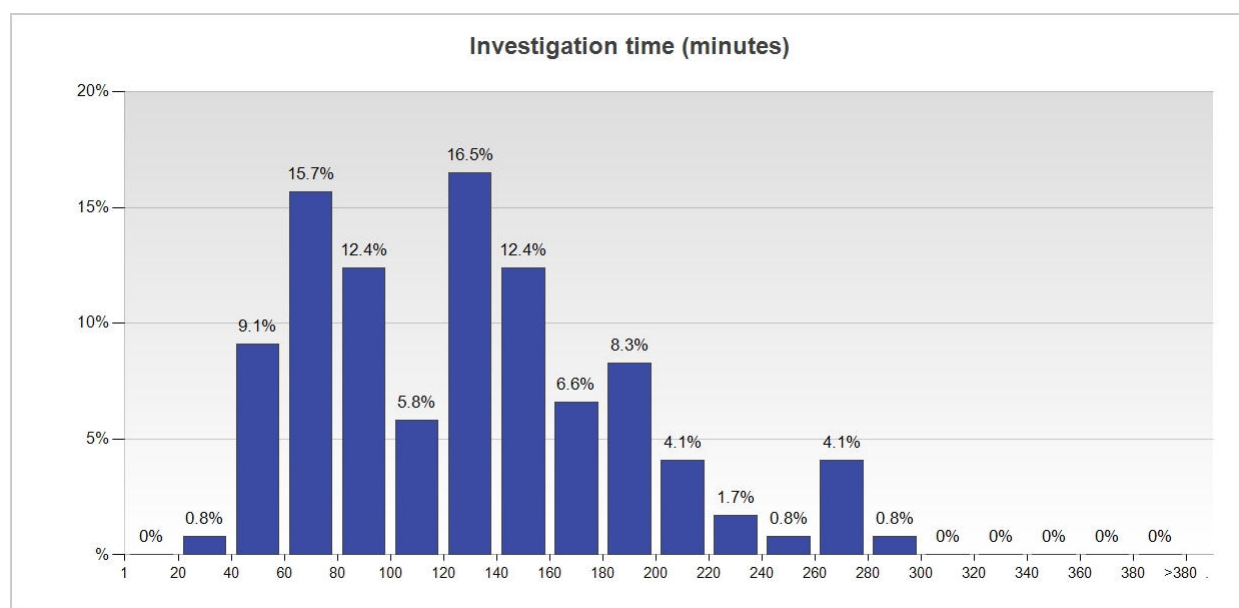
Cardiopathy (Underlying heart disease)	n	%
None	77	63.64
Dilated	12	9.92
Ischemic	11	9.09
Other	6	4.96
Hypertensive Cardiomyopathy	5	4.13
Valvular	3	2.48
Infiltrative	2	1.65
Angioplasty	2	1.65
RV Cardiomyopathy	1	0.83
Post Valvular Surgery	1	0.83
Tachycardiomyopathy	1	0.83
Congenital	0	0
H(O)CM	0	0
Channelopathy long QT	0	0
Channelopathy short QT	0	0
Brugada Syndrome	0	0
Early Repolarization Syndrome	0	0
Catecholaminergic Polymorphic VT	0	0
CABG	0	0
Post Congenital Surgery	0	0
Total	121	

Symptoms	n
Palpitations	88
Dyspnea	23
Fatigue	21
None	13
Other	8
Dizziness	5
Syncope	4
SCD	3
Angina Pectoris	2

Premature Ventricular Contraction

Anesthesia	n	%
Local	115	95.04
General	6	4.96
Total	121	

Minutes	min.	Ø	max.	n	n ₀ *
Investigation time	30	126	290	120	1
Fluoroscopy time	1	12.1	45	119	2



Premature Ventricular Contraction

Type	n
Monomorphic	85
Polymorphic	11
Ischemic	1

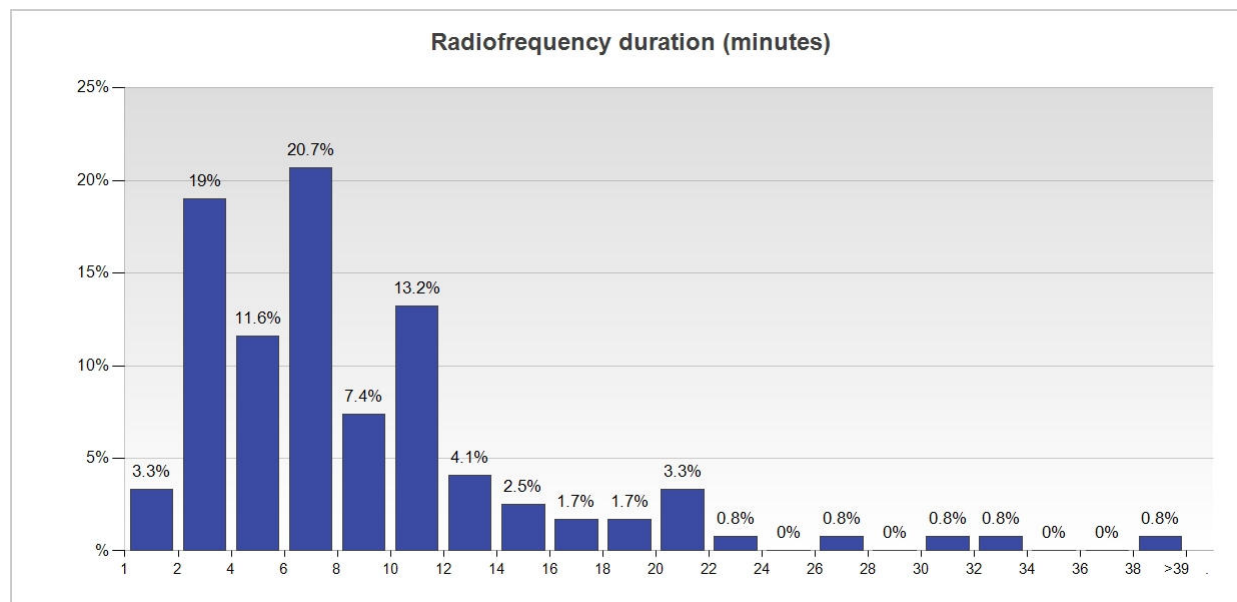
Location	n
RVOT	54
LVOT / Aortic Cusp	24
Other	11
HP System	3
Left Fascicular PVC	2

Site of Ablation	n
Right Ventricle	78
Left Ventricle	52

Intervention	n	%
Primary Intervention	107	88.43
Redo	14	11.57

Premature Ventricular Contraction

Radiofrequency	min.	Ø	max.	n	n ₀ *
Duration (minutes)	1	8.5	52	112	9
Irrigated Technology				100	



Premature Ventricular Contraction

Access	n	%
Venous	75	61.98
Arterial	36	29.75
Trans-septal, Puncture	7	5.79
Trans-septal, PFO	2	1.65
Epicardial, Coronary Sinus	1	0.83
Epicardial, Thoracotomy	0	0
Epicardial, Thoracoscopy	0	0
Epicardial, Sub-xiphoid	0	0
Other	0	0
Total	121	

Mapping	n	%
3D Mapping	87	71.9
Conventional	34	28.1
Lasso	0	0
Basket	0	0
Non Contact	0	0
HD Mesh	0	0
Other	0	0
Total	121	

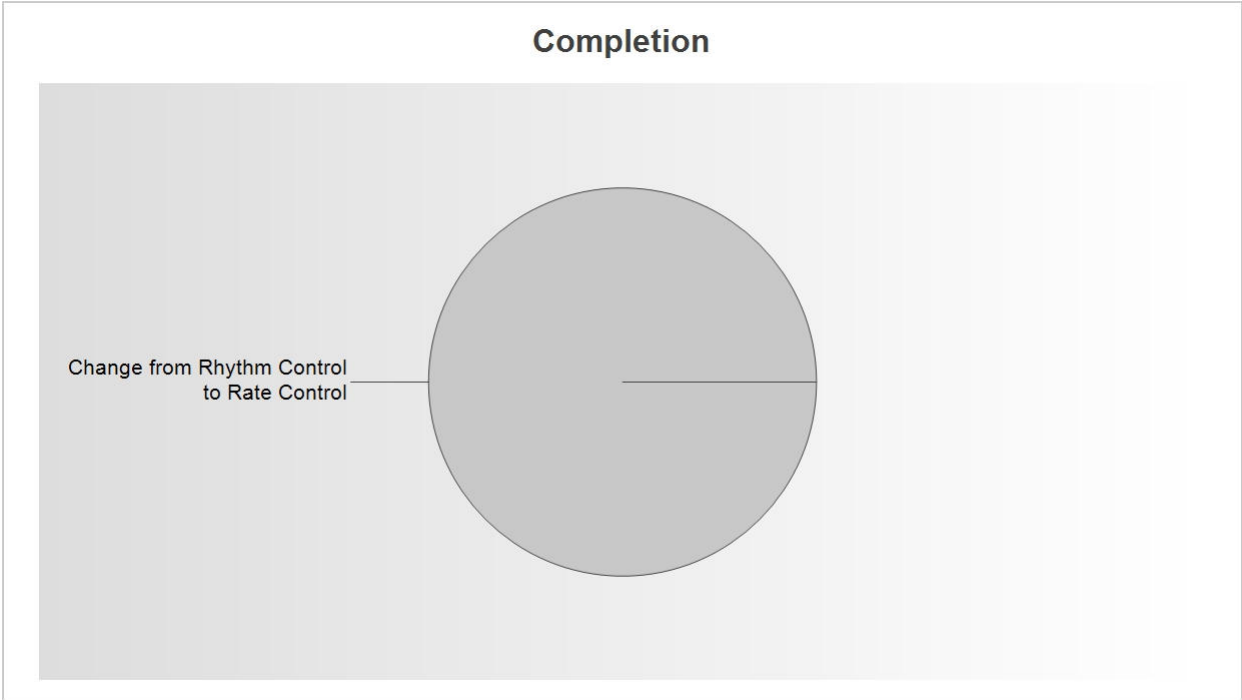
Catheter Steering	n	%
Conventional	118	97.52
Stereotaxis	3	2.48
Hansen	0	0
Other	0	0
Total	121	

Results	n	%
Success	101	83.47
No Success	20	16.53

Premature Ventricular Contraction

Periprocedural Complications	n
No complications	120
Tamponade	1
Pneumothorax	0
TIA	0
Pseudoaneurysm	0
PV Stenosis	0
Hemothorax	0
Stroke	0
Aortic Dissection	0
Valvular Lesions	0
Transient AV Block	0
Myocardial Infarction	0
Arterial Thrombosis	0
Pulmonary Oedema	0
High Degree or Complete AV Block	0
Pericardial Effusion	0
Arterial Occlusion	0
Death	0
Inguinal Hematoma	0
Phrenic Nerve Paralysis	0
Pulmonary Embolism	0
Other	0
AV Fistula	0
Infection	0

Completion



Cause of completion	n	%
Change from Rhythm Control to Rate Control	2	100
Regular End of Follow-Up	0	0
Lost to Follow-Up	0	0
Death	0	0
Not codified	0	0
Total	2	

The statistics are based on the data from CHPACE WEB from 01.01.2014 to 31.12.2014. Its completeness and correctness depends on the complete and correct data entry in the respective hospital. EPS are counted as interventions.

0.1% incomplete records are not included in these statistics.

n₀*: Investigations were reported with 0 minutes and are not included in these statistics.

Ø depicts the arithmetic mean.

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Abbreviations

AF = Atrial Fibrillation
RAFlu = Right Atrial Flutter
LAFlu = Left Atrial Flutter
AT = Atrial Tachycardia
AP = Accessory Pathway
AVNRT = Atrioventricular Nodal Reentry Tachycardia
VT = Ventricular Tachycardia
PVC = Premature Ventricular Contraction
AVN = Atrioventricular Node (to resynchronisation)
AVN(R) = Atrioventricular Node (Rate Control in Atr. Fibrillation)
Other = Other Arrhythmia

The cover picture shows a steerable ablation catheter from the late 90s