

Contents

	Foreword Fiorenzo Gaita	XI
	Preface Giuseppe Patti	XII
1	Coagulative patterns in atrial fibrillation Martina Berteotti, Domenico Prisco, Rossella Marcucci	1
	Introduction	1
	Atrial cardiomyopathy and the role of comorbidities	1
	Blood stasis Endothelial dysfunction	2
	Hypercoagulability	3
	Conclusions	4
2	Thromboembolic risk stratification in patients with atrial fibrillation Felice Gragnano, Vincenzo De Sio, Antonio Capolongo, Fabrizia Terracciano, Paolo Calabrò	7
	Introduction	7
	Scores for thromboembolic risk stratification	7
	Other parameters potentially able to stratify the thromboembolic risk in the individual patient Special populations	9 10
	Conclusions	10
3	Antithrombotic agents to prevent thromboembolism in atrial fibrillation	12
	3.1 Antiplatelet therapy Marco Palmieri, Stefano Benenati, Italo Porto	12
	Introduction	12
	Evidence with antiplatelet agents to prevent atrial fibrillation-related thromboembolism	12
	Current recommendations	14
	Conclusions	14
	3.2 Vitamin K antagonist anticoagulants Giulia Renda. Francesca Ciliberti	16
	Introduction	16
	Mechanisms of action	16
	Vitamin K antagonist anticoagulants and atrial fibrillation	18
	Conclusions	19
	3.3 Non-vitamin K antagonist oral anticoagulants or direct oral anticoagulants Paolo Ciacci, Ilaria Cavallari	21
	Introduction	21
	Doses of different direct oral anticoagulants in atrial fibrillation and overall results of these	
	agents vs. vitamin K antagonist anticoagulants	22
	To do list before prescribing a DOAC Specific features related to various direct oral anticoagulants	23 25
	Conclusions	31

V/II

•ORAL ANTICOAGULATION IN PATIENTS WITH ATRIAL FIBRILLATION

4	Monitoring of oral anticoagulation in atrial fibrillation Corrado Lodigiani, Luca Librè	33
	Introduction	33
	Vitamin K antagonist anticoagulants	33
	Direct oral anticoagulants	35
	Conclusive recommendations	37
5	Oral anticoagulation in specific settings of patients with atrial fibrillation	40
	5.1 Patients with CHA ₂ DS ₂ -VASc score 0/CHA ₂ DS ₂ -VA score 0 Domenico D'Amario, Giuseppe Patti	40
	Introduction	40
	Burden of atrial fibrillation	41
	Parameters of left atrium anatomy and function Biomarkers	42 44
	Specific conditions at higher thromboembolic risk	45
	Conclusions and future perspectives	46
	5.2 Patients with CHA ₂ DS ₂ -VASc score 1/CHA ₂ DS ₂ -VA score 1	50
	Gabriele Dell'Era, Giuseppe Patti Introduction	50
	Evidence on CHA ₂ DS ₂ -VASc 1 patients in registration trials of direct anticoagulants	50
	Current recommendations for oral anticoagulation in atrial fibrillation patients	
	with CHA ₂ DS ₂ -VASc score 1	51
	Empirical, tailored approach to oral anticoagulation in patients with CHA ₂ DS ₂ -VASc 1 Conclusions	52 53
	5.3 Patients undergoing cardioversion	54
	Vincenzo Russo, Michele Iavarone, Antonello D'Andrea	
	Introduction	54
	Thromboembolic risk associated to cardioversion	55
	Cardioversion in patients with AF lasting >48 hours	55
	Cardioversion in patients with atrial fibrillation lasting ≤48 hours Anticoagulation after cardioversion	57 58
	Conclusions	59
	5.4 Patients with concomitant coronary artery disease Andrea Rubboli, Matteo Lisi	61
	Introduction	61
	Early antithrombotic therapy	61
	Later antithrombotic therapy	64
	Debated issues and conclusions	65
	5.5 Patients undergoing elective surgery	68
	Giuseppe Patti, Chiara Ghiglieno Introduction	60
	Stratification of the bleeding risk	68 68
	Stratification of the thromboembolic risk	70
	Timing of interruption and restart of direct oral anticoagulants	70
	Special populations	73
	5.6 Patients with bleeding, trauma or urgent, unplanned surgery	75
	Vittorio Pengo	
	Introduction Atrial fibrillation patients with trauma	75 75
	Atrial fibrillation patients with trauma Atrial fibrillation patients candidate to urgent, unplanned surgery	75 78
	Conclusions	79

VIII

(



5.7 Elderly/very elderly and fragile patients Roberto Presta, Enrico Brunetti, Mario Bo	81
Introduction Efficacy and safety of oral anticoagulant therapy in elderly patients Appropriate dosing of direct oral anticoagulants	81 81 82
Clinical uncertainties in real-world older and frail atrial fibrillation patients Practical conclusions	82 85
5.8 Patients at the extremes of body weight Federica De Vecchi, Giuseppe Patti	87
Introduction	87
General pharmacokinetic/pharmacodynamic principles for oral anticoagulant agents Clinical data on direct oral anticoagulants	88 88
Current recommendations for oral anticoagulation	90
5.9 Patients with chronic kidney disease	93
Carmen A. Spaccarotella, Andrea Mariani, Giovanni Esposito, Ciro Indolfi	
Introduction	93
Current evidence with different oral anticoagulant agents Conclusions	93 95
5.10 Patients with cancer	98
Paola Gargiulo, Ermanno Nardi, Stefania Paolillo, Sara Fontanarosa, Pasquale Perrone Filardi	
Introduction	98
Current recommendations and practice patterns	99
5.11 Patients with different ethnicities	104
Rossella De Maria, Bianca Pellizzeri, Clelia Licata, Luca Lombardo, Marco Frazzetto, Bruno Francaviglia, Piera Capranzano	
Introduction Ethnic differences in warfarin does requirements	104 104
Ethnic differences in warfarin dose requirements Ethnic differences in clinical effects of warfarin	104
Doses and effects of direct oral anticoagulants across different ethnicities	106
Conclusions	112
5.12 Patients in pregnancy	114
Marco G. Mennuni, Giuseppe Patti	
Introduction	114
Pathophysiology and risk factors Oral anticoagulant therapy	115 115
Parenteral anticoagulation	117
Practical approach	118
Breastfeeding	118
Conclusions	119
5.13 Re-introduction of anticoagulation in patients after a major bleeding event Giorgio Quadri, Giuseppe Musumeci, Roberta Rossini	120
Introduction	120
Intracranial bleeding	120
Gastrointestinal bleeding	122
Conclusions	123
5.14 Patients receiving ablation Massimo Grimaldi, Antonio Di Monaco	124
Introduction	124
Clinical trials and meta-analysis	125
ESC guidelines and real-life data	126

137

•ORAL ANTICOAGULATION IN PATIENTS WITH ATRIAL FIBRILLATION

5.15 Patients undergoing transcatheter aortic valve replacement <i>Pierluigi Merella, Gavino Casu</i>	129
Introduction	129
Thromboembolic complications in TAVR recipients	130
Features of atrial fibrillation in TAVR patients	130
Management of atrial fibrillation patients undergoing TAVR	13
Conclusions	132
5.16 Patients with secondary forms of atrial fibrillation Letizia Riva, Giuseppe Di Pasquale	134
Introduction	134
Atrial fibrillation in the context of an acute coronary syndrome	13!
Atrial fibrillation during sepsis	130
Atrial fibrillation and hyperthyroidism	136
5.17 First episode of post-operative atrial fibrillation	138
Giuseppe Lanzillo, Rossana Totaro, Sergio Leonardi Introduction	138
Epidemiology and prognosis	138
Pathophysiology	139
Pre- and intra-operative management	140
Post-operative management	14
Follow-up	143
5.18 Patients with valvular heart disease	147
Greca Zanda, Ferdinando Varbella, Leonardo Grisafi	
Introduction	147
Evidence with direct oral anticoagulants in patients with valvular heart disease	148
Patients with mechanical heart valves Patients with moderate-severe/rheumatic mitral stenosis	149 150
Patients with moderate-severe/medinatic mitral stenosis Patients with surgical bioprosthetic valves	15
Patients undergoing mitral valve repair	152
, i	10.
Oral anticoagulation in atrial fibrillation: a look to the future	154
Antonella Scala, Gianluca Campo, Giuseppe Patti	
Brief history: from sweet, dried hay to factor XI inhibitors	154
Thrombosis and hemostasis Factor XI: thrombosis and hemostasis	154 155
Factor XI inhibitors; rationale and use	15:
Conclusions	160
Altowastive tweetments to aval anticongulation for aveyanting	
Alternative treatments to oral anticoagulation for preventing	
thromboembolism in atrial fibrillation	16
Antonio Rapacciuolo, Alfonsomaria Salucci	
Introduction	16
Left atrial appendage: anatomy and pathophysiology	16
Surgical exclusion of the left atrial appendage Percutaneous closure of the left atrial appendage	162 162
Epicardic and hybrid closure of the left atrial appendage	164
Alternatives to left atrial appendage occlusion	166

Patti 25 - interno ok x stampa.indd 10 20/01/2025 17:54:14

