

Clinical Study Synopsis

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EU PAS Abstract

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Title	Treatment and outcomes among patients with atrial fibrillation	
	and acute coronary syndromes in Sweden	
Keywords	ACS, AF, PCI, NOAC, antiplatelet, antithrombotic therapy	
Rationale and	Patients with a history of acute coronary syndrome (ACS) and atrial	
background	fibrillation (AF) are at high risk for major adverse cardiovascul	
	events, therefore they are prescribed combination therapy	
	consisting of an anticoagulant and one or more antiplatelet agents,	
	particularly if a percutaneous coronary intervention (PCI) has been	
	conducted. Such drug combinations are associated with increased	
	risk of bleeding complications. In recent years several new non-	
	vitamin K anticoagulants (NOACs) and antiplatelet drugs have	
	been introduced; however, although they have been extensively	
	studied individually, the safety and efficacy of most of the	
	combined regimens have not been evaluated in randomized	
	controlled trials.	
	The recently completed PIONEER AF-PCI trial demonstrated a	
	good safety profile of a regimen containing rivaroxaban [1];	
	however, the study was not designed to assess the regimen's	
	efficacy. It is important to understand how patients with AF and	
	ACS (including those undergoing PCI) are treated in real-life	
	settings and to determine the outcomes associated with these	
	treatment regimens.	
Research question and	This population-based study will describe the real life prescription	
objectives	patterns of antithrombotic drugs in patients with AF and ACS in	
0.3,0002,00	Sweden, and will evaluate safety and effectiveness endpoints for	
	the most commonly administered treatment regimens.	
	The primary objectives are:	
	• To describe the variety of antithrombotic treatment regimens	
	administered in patients with AF and ACS and to estimate the	
	treatment duration of the most common regimens.	
	• To assess the incidence of bleeding events associated with	
	hospitalization and effectiveness outcomes, including death, in	
	patients with ACS and AF: overall and among subgroups.	
Study Design	This is a retrospective cohort study which utilized non-randomized	
Stady Dosign	unselected data from nationwide mandatory health registers in	
	Sweden.	
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Setting	In Sweden all registered oral anticoagulants (OACs; warfarin,	
	dabigatran, rivaroxaban, apixaban, edoxaban) are used in clinical	
	practice. Phenprocoumon can be prescribed under a special license	
	in case of intolerance to other oral anticoagulants. Oral antiplatelet	
	drugs used are acetylsalicylic acid, clopidogrel, ticagrelor, prasugre	
	and dipyridamol. Ticlopidine was deregistered in 2006, but may	
	still be used under a special license.	
Subjects and Study Size,	The inclusion period started on 1st December 2011 and included	
including dropouts	patients up to 1st October 2016. Cohorts were followed up for a	
	minimum of 3 months, thus the inclusion period ended 3 months	
	before the end of the observation period. During the inclusion	
	period, a total of 111,197 individuals were hospitalized with a	
	diagnosis of ACS. Of these individuals, 23,180 also had a diagnosis	
	of AF. After exclusions, 13,275 patients remained in the study	
	cohort, of whom 9,375 did not undergo PCI, 320 had PCI without a	
	stent and 3,580 had PCI with stent implantation during	
	hospitalization.	
Variables and Data	Detailed descriptive variables including baseline characteristics	
sources	were captured for the population, including co-medications and	
	comorbidities. CHA2DS2Vasc scores were calculated.	
	Antithrombotic drug combinations, drug strength, treatment	
	duration and most commonly prescribed regimens were identified.	
	Exposure of a certain drug or a drug combination during follow-up	
	was estimated as the number of days the dispensed drug supply	
	would be expected to last if drug adherence was 90%, thus allowing	
	for occasional dropped doses. The assumed dosages were the	
	standard dose for the particular strength of the drug. Patients on	
	non-standard dosing were classified as receiving "other treatment".	
	For warfarin, where a standard dosing does not exist, an approach	
	based on assessment of refill intervals was employed.	
	To measure safety and effectiveness outcomes the variables	
	indicating the following events were analysed: hospitalization or	
	death with a diagnosis of bleeding; hospitalization for recurrent	
	ACS; revascularization procedure; ischaemic stroke or systemic	
	embolism; death from any cause.	
	Data sources included The Patient register, The Dispensed Drug	
	register, The Cause of Death register and the LISA (longitudinal	
	integration database for health insurance and labour market	
	studies).	
Results	There was a great diversity in treatments given to AF patients who	
	experienced ACS-episodes. The most common regimens did not	
	include an oral anticoagulant, in contrast to current national and	
	international guideline recommendations. Dual antiplatlet therapy,	
	the standard treatment for ACS patients without AF, is frequently	



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used for AF patients as we	ell.	
Elderly and frail patients,	Elderly and frail patients, at high risk for both bleeds and	
thromboses, generally rece	eived less aggressive antithrombotic drug	
regimens than younger and	d healthier patients. This complicated the	
	data. Differences in bleeding rates	
-	risk patients were attenuated by the	
<u> </u>	egimen, while differences regarding	
	arction may have been exaggerated for	
	rsity of regimens made most of the	
	too small for valid comparisons of the	
	I with individual regimens.	
	e is no single standard therapy for	
±	have an episode of ACS. There is little	
	egarding the benefit or harm for the	
majority of these regimens		
	es between patients given different	
	ithrombotic regimens generally were	
	thier patients with lower perceived	
	ients with higher perceived bleeding risk	
	imens consisting of only antiplatelet	
drugs and no oral anticoag	ulation. It was not possible to determine	
which treatment regimen v	was better or worse because of selection	
biases and undocumented	reasons why doctors preferred one	
treatment over the other.	· -	
The most common treatme	ent among patients with ACS and AF was	
	he standard treatment for ACS patients	
	t the awareness of the need for oral	
	ent population was not adequately	
recognized by prescribing		
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