BI Study Number 1160-0235

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Study report for non-interventional studies based on existing data

1. ABSTRACT

Name of company:							
Boehringer Inge	lheim						
Name of finished medicinal product: Pradaxa®							
Name of active ingredient: Dabigatran etexilate							
Report date:	Study number:	Version/Revision:	Version/Revision date:				
11 Jun 2020	1160-0235	1.0	NA				
Title of study:	Pradaxa Initiation Post-Stroke Study: SITS-Pradaxa 1. A retrospective analysis of existing data from the SITS-AF Registry on treatment initiation of dabigatran etexilate in non-valvular atrial fibrillation patients hospitalized with acute ischemic stroke						
Keywords:	Stroke, non-val	vular atrial fibrillation, preventi	on.				
Rationale and background:	The optimal time range for initiation of dabigatran after acute ischemic stroke is not established. We aimed to evaluate the timing of dabigatran initiation in NVAF patients hospitalized after first ever acute ischemic stroke in routine clinical practice.						
	To address this question data from the SITS-AF Registry were extracted for retrospective analyses.						
Research questions, study objectives and outcomes:	 Primary Objective: To evaluate the timing of dabigatran treatment initiation in patients with non-valvular atrial fibrillation (NVAF) after hospitalization for first ever ischaemic stroke (the index event) in order to prevent secondary stroke. With primary outcome: Number of NVAF patients, according to the timing of dabigatran treatment initiation after the index event, categorized according to the following dabigatran initiation time periods: 0-24h, >24-72h, >3-7d 						
	>7-14d, >14-28d, >28d- 3m.						
	 Secondary Objectives: To describe baseline characteristics for patients treated with dabigatran according to time of dabigatran initiation. To describe self-reported factors important for the physician's decision a to the time of dabigatran initiation in the post-ischemic stroke setting. To describe self-reported factors important for physician's decision as to which dabigatran dose was used in the post-ischemic stroke setting. 						
	_	ing secondary outcomes:	č				

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Name of finished medicinal product: Pradaxa®							
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Report date:	Study number:	Version/Revision:	Version/Revision date:				
11 Jun 2020	1160-0235	NA					
	1160-0235 1.0 NA • Baseline and demographic characteristics of patients, who have been treated with dabigatran within 3 months after the index event, according to time of dabigatran initiation, based on information available for time of treatment initiation.						
	• Frequency of physician responses specifying the reasons for delay of dabigatran initiation, and where possible, also specified per dabigatran initiation time point.						
	• Frequency of physician responses specifying the reasons for choosing the 220 mg or 300 mg dabigatran daily dose.						
Study design:	This was a retrospective observational study using existing data from the SITS-AF registry, exploring the use of dabigatran in NVAF patients after their first ever ischaemic stroke.						
Setting:	European Stroke Centres continuously registering patients with NVAF presenting with their first ever stroke into the SITS-AF Registry during July 2014 to July 2018. For dabigatran patients, follow-up period was 3 months after the index event.						
Subjects and study size, including dropouts:	Subjects: NVAF patients \geq 18 years old, hospitalized after first-ever acuteischemic stroke receiving an oral anticoagulant (OAC) within 3 monthsafter the index event during July 2014 to July 2018 from Europeancentres.Study size and dropout:						
	 <u>Planned</u>: Approximately 1000 NVAF patients who are treated with dabigatran etexilate within 3 months of their first ischemic stroke (index event) constitute the main analysis population. 						
	acute ischae secondary p	dataset comprised of 1489 NV mic stroke (AIS) who received revention. Information regardin available in 1240 patients.	dabigatran treatment for				
Variables	Data source: SI	TS-International AF registry.					
and data sources:		Baseline and demographic cha n Scale (mRS), CHADS ₂ , CHA					

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	of congestive heart failure, hypertension, age (\geq 75), diabetes mellitus, stroke/transient ischaemic attack (TIA), vascular disease, age 65-74, sex category) and HAS-BLED score (including scores for hypertension, abnormal renal and liver function, stroke, bleeding history or predisposition, labile International normalized ratio (INR), elderly (>65 years), drugs and alcohol use), stroke severity per the National Institute Health Stroke Scale (NIHSS), medication history, prior oral anticoagular treatment and at the time of index event, lab test, imaging data at admission, time interval in days between index event and start of dabigatran and physicians' reasons for delaying dabigatran initiation. From the date of index event (first ever stroke) dabigatran patients were followed for 3 months.							
Statistical methods:	Primary and secondary outcomes were summarized descriptively. Univariate and multivariate linear regression models with the dependent variable of time-to-initiation were applied to assess which demographic and clinical factors are associated with initiation of dabigatran time. No interim analysis was done for this study.							
Results:	acute ischaemic secondary preve For 1240 patien of dabigatran in shown in the fo Dabigatran initiat 0-24h >24-72h >3-7d >7-14d >14-28d >28d-3m Total With h = hours, d =	e stroke (AIS), who is ention of stroke were its (mean age 75 ± 1 itiation after the ind llowing table: ion time period N 73 190 344 410 174 49 1240 days, m = months.	eceived of e included 0, 52.9% ex event % 5,9 15,3 27,7 33,1 14,0 4,0 100,0	9% female) with first-ever dabigatran treatment for d. female) information on time was available: the results are				

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11 Jun 2020	1160-0235	1.0				NA			
	between 28 day Race or ethnicit Baseline charac	ty data v	were no	t extracte		0		initiated	
	with dabigatran (77%), previous use of an oral a disease (12.3%) (10.6%). Media Important demo known timing of the following ta	s AF (5: nticoagu), signs an NIHS ographic of dabig	5.7%), h ulant pr of acute SS at bas c and ba	a frequent hyperglyco ior to the e infarct (seline wat seline ch	ncy abo cemia (2 index e 11.8%) s 11 (IQ aracteri	ve 10% 28.5%), event (14 , conges QR 6-16 stics of	were: hy diabetes (4.5%), va tive hear). patients,	pertension (17.8%), scular t failure with	
	(77%), previous use of an oral a disease (12.3%) (10.6%). Media Important demo	s AF (5: nticoagu), signs an NIHS ographic of dabig	5.7%), h ulant pr of acute SS at bas c and ba	a frequent hyperglyco ior to the e infarct (seline wat seline ch	ncy abo cemia (2 index e 11.8%) s 11 (IQ aracteri	ve 10% 28.5%), event (14 , conges QR 6-16 stics of	were: hy diabetes (4.5%), va tive hear). patients,	pertension (17.8%), scular t failure with	
	(77%), previous use of an oral at disease (12.3%) (10.6%). Media Important demo known timing of the following ta Timing dabigatran initiation No. of patients (N) Age (Mean, SD) (Median, IQ)	s AF (5: nticoagu), signs un NIHS ographic of dabig uble: Overall	5.7%), h ulant pr of acute SS at bas c and ba atran in	a frequent hyperglyco ior to the infarct (seline was seline ch itiation a	ncy abo cemia (2 index e 11.8%) s 11 (IC aracteri fter the >3-7d	ve 10% (28.5%), event (14 , conges (2R 6-16) stics of index ev	were: hy diabetes (4.5%), va tive hear). patients, vent are s	pertension (17.8%), scular t failure with hown in >28d-3m	
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	(77%), previous use of an oral at disease (12.3%) (10.6%). Media Important demo known timing of the following ta Timing dabigatran initiation No. of patients (N) Age (Meain, IQ) NIHSS baseline (Median, IQ) DBP (mm Hg, Mean, SD)	s AF (5: nticoagu), signs in NIHS ographic of dabig uble: Overall N=1240 75 ± 10 (69-82)	5.7%), h ulant pr of acute SS at bas c and ba atran in <24 h N=73 72 ± 11 (69-75)	a frequent hyperglycolor to the e infarct (seline was eseline characteristic cha	ncy abo cemia (2 index e 11.8%) s 11 (IC aracteri fter the >3-7d N=344 75 ± 9 (73-76)	ve 10% (28.5%), event (14 , conges (2R 6-16) stics of index ev >7-14 d N=410 75±9 (74-77)	were: hy diabetes (4.5%), va tive hear). patients, vent are s > $14-28 \text{ d}$ N=174 76 ± 9 (74-78)	pertension (17.8%), scular t failure with hown in >28d - 3m N=49 77 ± 10 (73-80)	
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	(77%), previous use of an oral at disease (12.3%) (10.6%). Media Important demo known timing of the following ta Timing dabigatran initiation No. of patients (N) Age (Mean, SD) (Median, IQ) NIHSS baseline (Median, IQ) DBP (mm Hg, Mean, SD) History of/ predisposition to bleeding (%) Previous mRS (Median, IQ) Previous CHA2DS2-	s AF (5: nticoagu), signs in NIHS ographic of dabig uble: $\frac{0verall}{N=1240}$ 75 ± 10 (69-82) 10 (6-16) 85 ± 15 2.6% 0 (0-0) 3.1	5.7%), h ulant pr of acute SS at bas c and ba atran in <24 h N=73 72 ± 11 (69-75) 8 (5-14) 87 ± 12 2.1% 0 (0)	a frequent hyperglyco ior to the e infarct (seline was seline ch itiation a > 24 - 72 h N = 190 74 ± 10 (73 - 76) 8 (5 - 14) 83 ± 15 1.1% 0 (0) 3.2 (3 - 3.4)	ncy above emia (2 index e 11.8%) s 11 (IC aracteri fter the > 3-7 d N=344 75 ± 9 (73-76) 8 (6-13) 84 ± 14 3.0% 0 (0) 3.2	ve 10% 28.5%), 4 event (14 , conges 2R 6-16) stics of 1 index ev >7-14 d N=410 75 ± 9 (74-77) 12 (7-17) 85 ± 15 3.0% 0 (0) 3.2	were: hy diabetes (1.5%), va tive hear). patients, /ent are s > $14 - 28 d$ N=174 76 ± 9 (74-78) 14 (10-18) 85 ± 17 1.8% 0 (0) 3.3	pertension (17.8%), scular t failure with hown in >28d - 3m N=49 77 ± 10 (73-80) 15 (9-19) 91 ± 16 4.4% 0 (0-1) 3.4	
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umber:	sis showed gher pre-s atran initi	tiation d (see ta troke n iation.	of dabigatr able below) that a higher		date:
gredient: tudy umber: 160-0235 actors associated inivariate analys aseline and a hig vith a later dabig	1.0 d with init sis showed gher pre-s atran initi	tiation d (see ta troke n iation.	of dabigatr able below	NA an time:) that a higher		date:
tudy umber: 160-0235 actors associated inivariate analys aseline and a hig vith a later dabig	1.0 d with init sis showed gher pre-s atran initi	tiation d (see ta troke n iation.	of dabigatr able below	NA an time:) that a higher		date:
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actors associated inivariate analys aseline and a hig vith a later dabig Variable	d with init sis showed gher pre-s atran initi	d (see ta troke n iation.	able below	an time:) that a higher	NIHSS :	
Inivariate analys aseline and a hig rith a later dabig Variable	sis showed gher pre-s atran initi	d (see ta troke n iation.	able below) that a higher	NIHSS s	
	- I IV	Ac	Devietion	_	ntly corre	
onset to one			td. Deviation	P value	r ²	-
NIHSS Baseline (N=	Onset to OAC 9,93 ± 9,02 S Baseline (N=1183) 11.4 ± 6				0.07	-
Previous mRS (N=1			± 0.93	< 0 001	0 005	1
howed that an occharacter of the constant of t	older age, a be were sig so found t an early da patients w not decisive sk.	a highe gnifican that a h abigatr vith a hi ve beca	er DBP at b ntly associa istory or pr an initiation igh burden	aseline, a high ted with a late edisposition to n. An explanat of vascular ris bolic risk is hi	her score er dabiga o bleedin tion for the k factors gher that	on atran ag was his s the
Age		0.12	1.13	1.02-1.25	;	0.016
DBP		0.12	1.12	1.04-1.21		0.002
CHA2DS2-VAS	c	0.1	1.10	1-1.21		0.04
HAS-BLED		-0.1	0.9	0.45-1		0.051
HAS-BLED					+	
	howed that an of CHA2DS2-VAS nitiation. We also ssociated with a ould be that in p leeding risk is the aemorrhagic risk Variable Age DBP	howed that an older age, CHA2DS2-VASc were signification. We also found to ssociated with an early dould be that in patients we bleeding risk is not decisivate aemorrhagic risk.	howed that an older age, a high CHA2DS2-VASc were significan initiation. We also found that a high ssociated with an early dabigatr ould be that in patients with a high eading risk is not decisive becan a aemorrhagic risk. Variable Beta (B) Age 0.12 DBP 0.12	howed that an older age, a higher DBP at bCHA2DS2-VASc were significantly associainitiation. We also found that a history or prssociated with an early dabigatran initiationould be that in patients with a high burdenoleeding risk is not decisive because the eminaemorrhagic risk.VariableBeta (B)Odds RatioAge0.121.13DBP0.121.12	howed that an older age, a higher DBP at baseline, a highCHA2DS2-VASc were significantly associated with a latenitiation. We also found that a history or predisposition tossociated with an early dabigatran initiation. An explanatould be that in patients with a high burden of vascular risbleeding risk is not decisive because the embolic risk is hiVariableBeta (B)Odds Ratio95% ConfidenceAge0.121.131.02-1.25DBP0.121.121.04-1.21	Variable Beta (ß) Odds Ratio 95% Confidence Interval Age 0.12 1.13 1.02-1.25 DBP 0.12 1.12 1.04-1.21

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11 Jun 2020	1160-0235	1.0		NA	
		·			
	Reasons for delay d	abigatran initiation	N	Percent	
	Haemorrhagic trans	formation	40	14,9%	
	Intracranial haemor	rhage, spontaneous	8	3,0%	
	Severity Infarct		61	22,8%	
	Size of Infarct		52	19,4%	
	Location Infarct		14	5,2%	
	Intervention used to	treat ischemic stroke	8	3,0%	
	Altered coagulation	parameters	5	1,9%	
	Patients bleeding ris	k factors	18	6,7%	
	Patients stroke risk f	factors	6	2,2%	
	Patient preference		4	1,5%	
	Recommendation fr	om specialist	6	2,2%	
	Practical considerati	ons	14	5,2%	
	Reason is not specifi	ied	27	10,1%	
	Other reasons		5	1,9%	
		Total	268	100,0%	
	Analysis of the period showed	ct' is mentioned, the inde reported reasons fo that the highest nun reported for the init xt table)	or delay po nber of re	er dabigatran initiat asons to delay dabi	ion time gatran

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11 Jun 2020	1160-0235	1.0]	NA		
	Reasons for delay				Start D)abigatra	n		Total
	in dabigatran initiation		< 24 h	>24 - 72 h	>3 - 7 days	>7 - 14 days	>14 - 28 days	>28 days - 3m	
	Haemorrhagic transformation		0	0	2	2		1	13
	ICH Spontaneous		0	0	0	1	3	0	4
	Severity Infarct		0	0	1	7		2	22
	Size of Infarct		0	0	2	9		3	26
	Location Infarct		0	0	0	3	2	0	5
	Intervention used to t ischemic stroke	treat	0	0	0	2	3	0	5
	Altered coagulation parameters		0	0	0	2	1	0	3
	Patients bleeding risk factors	c	0	1	0	4	6	0	11
	Patients stroke risk factors		0	0	0	2	2	1	5
	Recommendation fro specialist	m	0	0	0	0	2	1	3
	Practical consideration	ons	1	1	0	0	3	3	8
	Reason is not specifie	ed	0	0	1	5	4	1	11
	Other reasons		0	0	0	0	1	0	1
	Total		1	2	6	26	42	10	87
	The physicians s shown in the tab text: (in > 10% c function', 'recor proportion of par	le be of the mme	elow, v e patie endatio	with the nts) : 'p on from	most ir atient's special	nportar age', ' ist', and	nt factors stroke ris d for a re	shown i sk', 'rena	n 'bold' al

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Name of compa				
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Boehringer Inge	lheim			
Name of finishe product: Pradaxa®	ed medicinal			
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Report date:	Study number:	Version/Re	vision:	Version/Revision date:
11 Jun 2020	1160-0235	1.0		NA
	Dabigatran dose at di	ischarge:	110 mg b.i.d	150 mg b.i.d
	Number of patients (N reported reason for de		382	475
	Reasons for dose choi		Number of times (% of	f N) Number of times (% of N)
	Haemorrhagic trans	formation	6 (1.6%)	<u> </u>
	ICH spontaneous		3 (0.8%)	1 (0.2%)
	Severity of stroke		18 (4.7%)	38 (8%)
	Size of infarct		13 (3.4%)	16 (3.4%)
	Location of infarct		8 (2.1%)	18 (3.8%)
	Intervention used to		4 (1%)	3 (0.6%)
	Altered coagulation	Caracterization in the	7 (1.8%)	10 (2.1%)
	Patients bleeding ris		24 (6.3%)	34 (7.2%)
	Patients stroke ris		27 (7.1%)	89 (18.7%)
	Recommendation :	-	32 (8.4%)	50 (10.5%)
	Reason is not spec	ined	95 (24.9%) 10 (2.6%)	216 (45.5%) 1 (0.2%)
	Patients age		209 (54.7%)	139 (29.3%)
	Co-medication		11 (2.9%)	5 (1.1%)
	Co-morbidities		16 (4.2%)	19 (4%)
	Renal function		48 (12.6%)	47 (9.9%)
	Since this was a adverse events	were collected	e study using exist 1.	ing data, no (serious)
Discussion:	These results sh commonly initia ischemic stroke were stroke sev	iow that in cli ated within 2 in NVAF pat erity/infarct s	nical practice, dat weeks of hospital ients. The main re ize and haemorrha	for dabigatran after an AIS. Digatran was most ization for first-ever acute easons for delayed initiation agic transformation.
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