

Doc.Ref. EMA/540136/2009



ENCePP Checklist for Study Protocols (Revision 4)

Adopted by the ENCePP Steering Group on 15/10/2018

The <u>European Network of Centres for Pharmacoepidemiology and Pharmacovigilance (ENCePP)</u> welcomes innovative designs and new methods of research. This Checklist has been developed by ENCePP to stimulate consideration of important principles when designing and writing a pharmacoepidemiological or pharmacovigilance study protocol. The Checklist is intended to promote the quality of such studies, not their uniformity. The user is also referred to the <u>ENCePP Guide on Methodological Standards in Pharmacoepidemiology</u>, which reviews and gives direct electronic access to guidance for research in pharmacoepidemiology and pharmacovigilance.

For each question of the Checklist, the investigator should indicate whether or not it has been addressed in the study protocol. If the answer is "Yes", the section number of the protocol where this issue has been discussed should be specified. It is possible that some questions do not apply to a particular study (for example, in the case of an innovative study design). In this case, the answer 'N/A' (Not Applicable) can be checked and the "Comments" field included for each section should be used to explain why. The "Comments" field can also be used to elaborate on a "No" answer.

This Checklist should be included as an Annex by marketing authorisation holders when submitting the protocol of a non-interventional post-authorisation safety study (PASS) to a regulatory authority (see the <u>Guidance on the format and content of the protocol of non-interventional post-authorisation safety studies</u>). The Checklist is a supporting document and does not replace the format of the protocol for PASS presented in the Guidance and Module VIII of the Good pharmacovigilance practices (GVP).

Study title:	
	Association of alpha-1 blocker (a-1B)
	on coronavirus disease (COVID-19) susceptibility and severity

EU PAS Register® number: EUPAS36231	
Study reference number (if applicable):	

Sect	Section 1: Milestones			N/A	Section Number
1.1	Does the protocol specify timelines for				
	1.1.1 Start of data collection ¹	x			4. Milestones and Amendments
	1.1.2 End of data collection ²	x			4. Milestones and Amendments
	1.1.3 Progress report(s)			X	
	1.1.4 Interim report(s)			X	
	1.1.5 Registration in the EU PAS Register®	X			4. Milestones and

¹ Date from which information on the first study is first recorded in the study dataset or, in the case of secondary use of data, the date from which data extraction starts.

² Date from which the analytical dataset is completely available.

	1.1.6 Final report of study results.	x			Amendments 4. Milestones and Amendments 12. Plans for Disseminating and Communicatin g Study Results
Com	ments:				
Thes	se are analyses of pre-existing data so there is no star	t or end	l to dat	a collec	tion. Rather,
in th	e protocol document we describe the start and end of	analysi	s.		
Sect	tion 2: Research question	Yes	No	N/A	Section Number
2.1	Does the formulation of the research question and objectives clearly explain:	х			
	2.1.1 Why the study is conducted? (e.g. to address an important public health concern, a risk identified in the risk management plan, an emerging safety issue)	x			5. Rationale and Background
	2.1.2 The objective(s) of the study?	x			6. Study Objectives
	2.1.3 The target population? (i.e. population or subgroup to whom the study results are intended to be generalised)	x			7. Research Methods, Patient Cohort
	2.1.4 Which hypothesis(-es) is (are) to be tested?	x			6. Study Objectives
	2.1.5 If applicable, that there is no <i>a priori</i> hypothesis?			X	
Com	ments:				
Sect	tion 3: Study design	Yes	No	N/A	Section Number
3.1	Is the study design described? (e.g. cohort, case-control, cross-sectional, other design)	x			3. Abstract 7. Research Methods, Data Sources
3.2	Does the protocol specify whether the study is based on primary, secondary or combined data collection?	x			7. Research Methods, Data Sources
3.3	Does the protocol specify measures of occurrence? (e.g., rate, risk, prevalence)	x			7. Research Methods, Analysis
3.4	Does the protocol specify measure(s) of association? (e.g. risk, odds ratio, excess risk, rate ratio, hazard ratio, risk/rate difference, number needed to harm (NNH))	х			7. Research Methods, Analysis
3.5	Does the protocol describe the approach for the collection and reporting of adverse events/adverse reactions? (e.g. adverse events that will not be collected in case of primary data collection)	x			11. Management and Reporting of Adverse Events and Adverse Reactions

Comments:		

Sect	tion 4: Source and study populations	Yes	No	N/A	Section Number
4.1	Is the source population described?	x			7. Research Methods, Data Sources & Patient Cohort
4.2	Is the planned study population defined in terms of:				
	4.2.1 Study time period	x			7. Research Methods, Patient Cohort & Exposures
	4.2.2 Age and sex	x			7. Research Methods, Patient Cohort
	4.2.3 Country of origin	x			7. Research Methods, Data Sources
	4.2.4 Disease/indication	x			7. Research Methods, Patient Cohort
	4.2.5 Duration of follow-up	X			7. Research Methods, Patient Cohort
4.3	Does the protocol define how the study population will be sampled from the source population? (e.g. event or inclusion/exclusion criteria)	х			7. Research Methods, Patient Cohort

Comments:		

Sect	ion 5: Exposure definition and measurement	Yes	No	N/A	Section Number
5.1	Does the protocol describe how the study exposure is defined and measured? (e.g. operational details for defining and categorising exposure, measurement of dose and duration of drug exposure)	x			7. Research Methods, Patient Cohort & Exposures 14.1 Exposure Cohort Definitions
5.2	Does the protocol address the validity of the exposure measurement? (e.g. precision, accuracy, use of validation sub-study)	x			9. Strengths and Limitations
5.3	Is exposure categorised according to time windows?	х			7. Research Methods, Exposures
5.4	Is intensity of exposure addressed? (e.g. dose, duration)	x			7. Research Methods, Exposures 9. Strengths and Limitations
5.5	Is exposure categorised based on biological mechanism of action and taking into account the pharmacokinetics and pharmacodynamics of the	х			5. Rationale and Background

	drug?			7. Research Methods, Exposures
5.6	Is (are) (an) appropriate comparator(s) identified?	x		7. Research Methods, Patient Cohort & Controls or Comparators & Analysis

Comments:

Our study design does not specifically assess the validity of exposure measurement; however it is addressed in the "9 Strengths and Limitations", which includes a discussion of potential bias.

Sec	ion 6: Outcome definition and measurement	Yes	No	N/A	Section Number
6.1	Does the protocol specify the primary and secondary (if applicable) outcome(s) to be investigated?	x			6. Study Objectives 7. Research Methods, Outcomes
6.2	Does the protocol describe how the outcomes are defined and measured?	x			7. Research Methods, Outcomes 14.2 Outcome Cohort Definitions
6.3	Does the protocol address the validity of outcome measurement? (e.g. precision, accuracy, sensitivity, specificity, positive predictive value, use of validation sub-study)	х			9. Strengths and Limitations
6.4	Does the protocol describe specific outcomes relevant for Health Technology Assessment? (e.g. HRQoL, QALYS, DALYS, health care services utilisation, burden of disease or treatment, compliance, disease management)			х	

Comments:

Our study design does not specifically assess the validity of outcome measurement; however it is addressed in the "9 Strengths and Limitations", which includes a discussion of potential bias.

Sect	<u>iion 7: Bias</u>	Yes	No	N/A	Section Number
7.1	Does the protocol address ways to measure confounding? (e.g. confounding by indication)	x			7. Research Methods, Analysis 9. Strengths and Limitations
7.2	Does the protocol address selection bias? (e.g. healthy user/adherer bias)	x			7. Research Methods, Controls or Comparators & Analysis 9. Strengths and Limitations
7.3	Does the protocol address information bias? (e.g. misclassification of exposure and outcomes, time-related bias)	х			7. Research Methods, Analysis,

					Strengths and
					Limitations
Com	ments:				
					_
<u>Sect</u>	ion 8: Effect measure modification	Yes	No	N/A	Section Number
8.1	Does the protocol address effect modifiers? (e.g. collection of data on known effect modifiers, sub-group analyses, anticipated direction of effect)	x			9. Strengths and Limitations
Com	ments:				
Sect	ion 9: Data sources	Yes	No	N/A	Section Number
9.1	Does the protocol describe the data source(s) used in the study for the ascertainment of:				
	9.1.1 Exposure? (e.g. pharmacy dispensing, general practice prescribing, claims data, self-report, face-to-face interview)	x			7. Research Methods, Data Sources
	9.1.2 Outcomes? (e.g. clinical records, laboratory markers or values, claims data, self-report, patient interview including scales and questionnaires, vital statistics)	x			7. Research Methods, Data Sources
	9.1.3 Covariates and other characteristics?	X			7. Research Methods, Data Sources
9.2	Does the protocol describe the information available from the data source(s) on:				
	9.2.1 Exposure? (e.g. date of dispensing, drug quantity, dose, number of days of supply prescription, daily dosage, prescriber)	x			7. Research Methods, Data Sources & Patient Cohort & Exposures
	9.2.2 Outcomes? (e.g. date of occurrence, multiple event, severity measures related to event)	x			7. Research Methods, Data Sources & Patient Cohort & Outcomes
	9.2.3 Covariates and other characteristics? (e.g. age, sex, clinical and drug use history, co-morbidity, co-medications, lifestyle)	х			7. Research Methods, Data Sources & Covariates
9.3	Is a coding system described for:				
	9.3.1 Exposure? (e.g. WHO Drug Dictionary, Anatomical Therapeutic Chemical (ATC) Classification System)	x			7. Research Methods, Exposures 14.1 Exposure Cohort Definitions
	9.3.2 Outcomes? (e.g. International Classification of Diseases (ICD), Medical Dictionary for Regulatory Activities (MedDRA))	x			7. Research Methods, Outcomes 14.2 Outcome Cohort Definitions

	9.3.3 Covariates and other characteristics?	X			7. Research Methods, Covariates		
9.4	Is a linkage method between data sources described? (e.g. based on a unique identifier or other)			х	7. Research Methods, Data Sources		
Comments:							
		•	1				
	tion 10: Analysis plan	Yes	No	N/A	Section Number		
10.1	Are the statistical methods and the reason for their choice described?	x			7. Research Methods, Analysis		
10.2	Is study size and/or statistical precision estimated?	х			7. Research Methods, Analysis		
10.3	Are descriptive analyses included?	х			7. Research Methods, Analysis		
10.4	Are stratified analyses included?	х			7. Research Methods, Analysis		
10.5	Does the plan describe methods for analytic control of confounding?	x			7. Research Methods, Analysis		
10.6	Does the plan describe methods for analytic control of outcome misclassification?	х			7. Research Methods, Analysis 9. Strengths and Limitations		
10.7	Does the plan describe methods for handling missing data?			X			
10.8	Are relevant sensitivity analyses described?	x			7. Research Methods, Analysis		
Comments:							
			T	1	1		
	tion 11: Data management and quality control	Yes	No	N/A	Section Number		
11.1	Does the protocol provide information on data storage? (e.g. software and IT environment, database maintenance and anti-fraud protection, archiving)		x		10. Protection of Human Subjects		
11.2	Are methods of quality assurance described?	x			7. Research Methods, Data Sources		
11.3	Is there a system in place for independent review of study results?	x			2.2 Sponsor 12. Plans for Disseminating and Communicating Study Results		
Comments:							
		1	ı	1			
Sect	tion 12: Limitations	Yes	No	N/A	Section		

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12.1	Does the protocol discuss the impact on the study results of:				
	12.1.1 Selection bias?				9. Strengths
		X			and
					Limitations
	12.1.2 Information bias?				9. Strengths
		X			and Limitations
	12.1.3 Residual/unmeasured confounding?	X			Elitheacions
	(e.g. anticipated direction and magnitude of such biases,	^			9. Strengths
	validation sub-study, use of validation and external data, analytical methods).				and Limitations
12.2	Does the protocol discuss study feasibility?				7. Research
	(e.g. study size, anticipated exposure uptake, duration of				Methods, Data Sources
	follow-up in a cohort study, patient recruitment, precision of the estimates)	X			9. Strengths
	,				and
					Limitations
Comi	ments:				
Sect	ion 13: Ethical/data protection issues	Yes	No	N/A	Section
					Number
13.1	Have requirements of Ethics Committee/			X	
	Institutional Review Board been described?				
13.2	Has any outcome of an ethical review procedure			X	
	been addressed?				
13.3	Have data protection requirements been		lπ	X	10. Protection of Human
	described?				Subjects
Com	ments:				
We p	lan to obtain IRB approval at each study site before e	executin	g anal	yses.	
Cost	ion 14: Amendments and deviations	Yes	No	N/A	Section
Sect	ion 14: Amendments and deviations	res	NO	N/A	Number
14.1	Does the protocol include a section to document				4. Milestones
	amendments and deviations?			X	and
					Amendments
Comi	ments:				
Sect	ion 15: Plans for communication of study	Yes	No	N/A	Section
resu		163	140	IV/A	Number
	Are plans described for communicating study				12. Plans for
	results (e.g. to regulatory authorities)?	X			Disseminating
	, - , , , , , , , , , , , , , , , , , ,	^			and Communicating
					Study Results
15.2	Are plans described for disseminating study results				12. Plans for
	externally, including publication?	X			Disseminating and
					Communicating
		I			Study Results
Com	ments:				
Com	ments:				

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