



Doc.Ref. EMA/540136/2009

European Network of Centres for Pharmacoepidemiology and Pharmacovigilance

ENCePP Checklist for Study Protocols (Revision 3)

Adopted by the ENCePP Steering Group on 01/07/2016

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 as recommended in the Guidance and Module VIII of the Good pharmacovigilance practices (GVP).

Study title: ECOSTIM			
Study reference number: EUPAS 18568			
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Sec	tion 1: Milestones	Yes	No	N/A	Section Number
1.1	Does the protocol specify timelines for				
	1.1.1 Start of data collection ¹	\boxtimes			S6 (p.12)
	1.1.2 End of data collection ²	\boxtimes			S6 (p.12)
	1.1.3 Study progress report(s)			\boxtimes	
	1.1.4 Interim progress report(s)			\boxtimes	
	1.1.5 Registration in the EU PAS register				
	1.1.6 Final report of study results.	\boxtimes			S6 (p.12)

 $^{^{1}}$ 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.

Section 2: Research question 2.1 Does the formulation of the research question and objectives clearly explain: 2.1.1 Why the study is conducted? (e.g. to address an important public health concern, a risk identified in the risk management plain, an emerging safety issue) 2.1.2 The objective(s) of the study? 2.1.3 The target population? (i.e. population or subgroup to whom the study results are intended to be generalised) 2.1.4 Which hypothesis(-es) is (are) to be tested? 2.1.5 If applicable, that there is no a priori hypothesis? 2.1.5 If applicable, that there is no a priori hypothesis? Section 3: Study design 3.1 Is the study design described? (e.g. cohort, casecontrol, cross-sectional, new or alternative design) 3.2 Does the protocol specify mehather the study is based on primary, secondary or combined data collection? 3.3 Does the protocol specify measures of occurrence? (e.g. incidence rate, absolute risk) 3.4 Does the protocol specify measures of occurrence? (e.g. incidence rate, absolute risk) 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) Comments: Section 4: Source and study populations Yes No N/A Section Number 4.1 Is the source population described? 3.2 Is the planned study population defined in terms of: 4.2.1 Study time period? 4.2.2 Age and sex?	Com	ments:				
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4.2.1 Study time period?	4.2	, , ,				S9.3
		4.2.1 Study time period?				p.15

Sect	ion 4: Source and study populations	Yes	No	N/A	Section Number
	4.2.3 Country of origin? 4.2.4 Disease/indication?	\boxtimes			
	4.2.5 Duration of follow-up?				S9.4 p.16
4.3	Does the protocol define how the study population will be sampled from the source population? (e.g. event or inclusion/exclusion criteria)	\boxtimes			S9.3 p.15
Com	ments:				
Sect	cion 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)				S9
5.2	Does the protocol address the validity of the exposure measurement? (e.g. precision, accuracy, use of validation sub-study)			\boxtimes	
5.3	Is exposure classified according to time windows? (e.g. current user, former user, non-use)				
5.4	Is exposure classified based on biological mechanism of action and taking into account the pharmacokinetics and pharmacodynamics of the drug?				
Com	ments:				
Sect	cion 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?				
6.2	Does the protocol describe how the outcomes are defined and measured?			\boxtimes	
6.3	Does the protocol address the validity of outcome measurement? (e.g. precision, accuracy, sensitivity, specificity, positive predictive value, prospective or retrospective ascertainment, use of validation sub-study)			\boxtimes	
6.4	Does the protocol describe specific endpoints relevant for Health Technology Assessment? (e.g. HRQoL, QALYs, DALYS, health care services utilisation, burden of disease, disease management)			\boxtimes	
Com	ments:				

Sect	ion 7: Bias	Yes	No	N/A	Section Number
7.1	Does the protocol describe how confounding will be addressed in the study?				
	7.1.1. Does the protocol address confounding by indication if applicable?				
7.2	Does the protocol address:			\boxtimes	
	7.2.1. Selection biases (e.g. healthy user bias)			\boxtimes	
	7.2.2. Information biases (e.g. misclassification of exposure and endpoints, time-related bias)			\boxtimes	
7.3	Does the protocol address the validity of the study covariates?				S9.10
Com	ments:				
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Sect	ion 8: Effect 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)				
Com	ments:				
		1			T
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:				S9.5.7
	9.1.1 Exposure? (e.g. pharmacy dispensing, general practice prescribing, claims data, self-report, face-to-face interview)	\boxtimes			
	9.1.2 Outcomes? (e.g. clinical records, laboratory markers or values, claims data, self-report, patient interview including scales and questionnaires, vital statistics)				
	9.1.3 Covariates?	\boxtimes			
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)	\boxtimes			
	9.2.2 Outcomes? (e.g. date of occurrence, multiple event, severity measures related to event)			\boxtimes	
	9.2.3 Covariates? (e.g. age, sex, clinical and drug use history, co-morbidity, co-medications, lifestyle)				
9.3	Is a coding system described for:				
	9.3.1 Exposure? (e.g. WHO Drug Dictionary, Anatomical Therapeutic Chemical (ATC) Classification System)				
	9.3.2 Outcomes? (e.g. International Classification of Diseases (ICD)-10, Medical Dictionary for Regulatory Activities (MedDRA))				
	9 3 3 Covariates?	M			

Section 9: Data sources		Yes	No	N/A	Section Number
9.4 Is a linkage method be described? (e.g. based or	etween data sources n a unique identifier or other)	\boxtimes			
Comments:					
				T T	
Section 10: Analysis plan		Yes	No	N/A	Section Number
10.1 Is the choice of statist	ical techniques described?				S9.8.5
10.2 Are descriptive analyse	es included?				
10.3 Are stratified analyses	included?				
10.4 Does the plan describe confounding?	e methods for adjusting for				
10.5 Does the plan describe missing data?	e methods for handling				
10.6 Is sample size and/or	statistical power estimated?	\boxtimes			
Comments:					
Section 11: Data manage	ment and quality control	Yes	No	N/A	Section
Section 11. Data manage	ment and quanty control	103	110	N/A	Number
11.1 Does the protocol prov storage? (e.g. software an maintenance and anti-fraud	nd IT environment, database	\boxtimes			S9.7
11.2 Are methods of quality	assurance described?				
11.3 Is there a system in plot of study results?	ace for independent review				
Comments:					
Section 12: Limitations		Yes	No	N/A	Section Number
12.1 Does the protocol disc results of:	uss the impact on the study				
12.1.1 Selection bias?				\boxtimes	
12.1.2 Information bia	s?				
12.1.3 Residual/unme (e.g. anticipated direction validation sub-study, use analytical methods)	asured confounding? on and magnitude of such biases, e of validation and external data,				
12.2 Does the protocol disc (e.g. study size, anticipated cohort study, patient recruit	exposure, duration of follow-up in a				S9.10
Comments:					

Section 13: Ethical issues	Yes	No	N/A	Section Number
13.1 Have requirements of Ethics Committee/ Institutional Review Board been described?	\boxtimes			S10
13.2 Has any outcome of an ethical review procedure been addressed?				
13.3 Have data protection requirements been described?	\boxtimes			S10
Comments:				
Section 14: Amendments and deviations	Yes	No	N/A	Section Number
14.1 Does the protocol include a section to document amendments and deviations?				
Comments:				
Section 15: Plans for communication of study results	Yes	No	N/A	Section Number
15.1 Are plans described for communicating study results (e.g. to regulatory authorities)?				S12
15.2 Are plans described for disseminating study results externally, including publication?	\boxtimes			S12
Comments:				
Name of the main author of the protocol: Pauline Bosco-	-Lévy			
Date: 27/04/2017				
Signature:				