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European Network of Centres for Pharmacoepidemiology and Pharmacovigilance

ENCePP Checklist for Study Protocols (Revision 2)

Adopted by the ENCePP Steering Group on 14/01/2013

The <u>European Network of Centres for Pharmacoepidemiology and Pharmacovigilance</u> (<u>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 page number(s) 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>). Note, 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).

Section 1: Milestones	Yes	No	N/A	Page Number(s)
1.1 Does the protocol specify timelines for				
1.1.1 Start of data collection ¹	\boxtimes			9
1.1.2 End of data collection ²	\boxtimes			9
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	\boxtimes			33
1.1.6 Final report of study results.	\boxtimes			9
Comments:				

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		Yes	No	N/A	Page Number(s)
2.1 Does the formulation of the research question objectives clearly explain:	on and				
2.1.1 Why the study is conducted? (e.g. to ad important public health concern, a risk identified in the management plan, an emerging safety issue)		\boxtimes			9-11
2.1.2 The objective(s) of the study?		\boxtimes			11-12
2.1.3 The target population? (i.e. population or to whom the study results are intended to be generalis	ed)	\boxtimes			12
2.1.4 Which formal hypothesis(-es) is (are) tested?	to be	\boxtimes			11
2.1.5 If applicable, that there is no a priori hypothesis?				\boxtimes	
Comments:					
Section 3: Study design		Yes	No	N/A	Page
3.1 Is the study design described? (e.g. cohort, carrandomised controlled trial, new or alternative design)		⊠			Number(s) 12-13
3.2 Does the protocol specify the primary and s (if applicable) endpoint(s) to be investigated		\boxtimes			17-19
3.3 Does the protocol describe the measure(s) (e.g. relative risk, odds ratio, deaths per 1000 personabsolute risk, excess risk, incidence rate ratio, hazard number needed to harm (NNH) per year)	years,	\boxtimes			26-29
Comments:					
Section 4: Source and study populations		Yes	No	N/A	Page
		57			Number(s)
4.1 Is the source population described?	ATTERIOR CONTROL	\boxtimes	Ц		12-15
4.2 Is the planned study population defined in t	erms of:		_		12.22
4.2.1 Study time period?		\boxtimes			12;23 15
4.2.2 Age and sex?		\boxtimes			
4.2.3 Country of origin?		\boxtimes			12;23
4.2.4 Disease/indication?		\boxtimes		\vdash	15
4.2.5 Co-morbidity?			\boxtimes		19-22
4.2.6 Seasonality?			\boxtimes		17
4.3 Does the protocol define how the study pop will be sampled from the source population event or inclusion/exclusion criteria)		\boxtimes			13-14
Comments:					
Co-morbidities and seasonality will be treated a	s confounde	ers or e	effect n	nodifier	s.
Section 5: Exposure definition and measure	ement	Yes	No	N/A	Page Number(s)
5.1 Does the protocol describe how exposure is and measured? (e.g. operational details for defining categorising exposure)	ACCURATION OF THE PROPERTY OF	\boxtimes			14-16
5.2 Does the protocol discuss the validity of exp	10.000000000000000000000000000000000000				

Sec	tion 5: Exposure definition and measurement	Yes	No	N/A	Page Number(s)
	ascertainment, exposure information recorded before the outcome occurred, use of validation sub-study)				14-16;29- 32
5.3	Is exposure classified according to time windows? (e.g. current user, former user, non-use)	\boxtimes			15-16
5.4	Is exposure classified based on biological mechanism of action and taking into account the pharmacokinetics and pharmacodynamics of the drug?				15
5.5	Does the protocol specify whether a dose-dependent or duration-dependent response is measured?	\boxtimes			28
Con	nments:				
_					
Sec	tion 6: Endpoint definition and measurement	Yes	No	N/A	Page Number(s)
6.1	Does the protocol describe how the endpoints are defined and measured?				17-19
6.2	Does the protocol discuss the validity of endpoint measurement? (e.g. precision, accuracy, sensitivity, specificity, positive predictive value, prospective or retrospective ascertainment, use of validation sub-study)	\boxtimes			17-19;31- 32
Con	nments:				
		V			
Sec	tion 7: Confounders and effect modifiers	Yes	No	N/A	Page Number(s)
7.1	Does the protocol address known confounders? (e.g. collection of data on known confounders, methods of controlling for known confounders)	⊠			19-22;27- 32
7.2	Does the protocol address known effect modifiers? (e.g. collection of data on known effect modifiers, anticipated direction of effect)	\boxtimes			19-22; 28- 29
Con	nments:				
Sec	tion 8: Data sources	Yes	No	N/A	Page Number(s)
8.1	Does the protocol describe the data source(s) used in the study for the ascertainment of:				
	8.1.1 Exposure? (e.g. pharmacy dispensing, general practice prescribing, claims data, self-report, face-to-face interview, etc.)	\boxtimes			14-16
	8.1.2 Endpoints? (e.g. clinical records, laboratory markers or values, claims data, self-report, patient interview including scales and questionnaires, vital statistics, etc.)	\boxtimes			17-19
	8.1.3 Covariates?	\boxtimes			19-22
8.2	Does the protocol describe the information available from the data source(s) on:				
	8.2.1 Exposure? (e.g. date of dispensing, drug quantity, dose, number of days of supply prescription, daily dosage, prescriber)	\boxtimes			14-16
	8.2.2 Endpoints? (e.g. date of occurrence, multiple event, severity measures related to event)8.2.3 Covariates? (e.g. age, sex, clinical and drug use	\boxtimes			17-19
	history co-morbidity co-medications life style etc.)	57			0.00000

Section 8: Data sources	Yes	No	N/A	Page Number(s)
8.3 Is a coding system described for:	22020	1 253		
8.3.1 Diseases? (e.g. International Classification of Diseases (ICD)-10)				19-22
8.3.2 Endpoints? (e.g. Medical Dictionary for Regulatory Activities (MedDRA) for adverse events)				19
8.3.3 Exposure? (e.g. WHO Drug Dictionary, Anatomical Therapeutic Chemical (ATC)Classification System)	\boxtimes			38-50
8.4 Is the linkage method between data sources described? (e.g. based on a unique identifier or other)				23-24
Comments:				
Section 9: Study size and power	Yes	No	N/A	Page Number(s)
9.1 Is sample size and/or statistical power calculated?	\boxtimes			24
Comments:			-	
Sasking 10: Applyaio plan		NI-	N1 / A	Dono
Section 10: Analysis plan	Yes	No	N/A	Page Number(s)
10.1 Does the plan include measurement of excess risks?				26
10.2 Is the choice of statistical techniques described?	\boxtimes			26-30
10.3 Are descriptive analyses included?	\boxtimes			26-28
10.4 Are stratified analyses included?	\boxtimes			28-29
10.5 Does the plan describe methods for adjusting for confounding?				29-30
10.6 Does the plan describe methods addressing effect modification?	\boxtimes			28-29
Comments:	<u>'</u>			
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Section 11: Data management and quality control	Yes	No	N/A	Page Number(s)
11.1 Is information provided on the management of missing data?				16-17;22
11.2 Does the protocol provide information on data storage? (e.g. software and IT environment, database maintenance and anti-fraud protection, archiving)	×			25
11.3 Are methods of quality assurance described?				30
11.4 Does the protocol describe possible quality issues related to the data source(s)?				23
11.5 Is there a system in place for independent review of study results?	\boxtimes			30-31
Comments:				

Yes	No	N/A	Page Number(s)
		\boxtimes	
\boxtimes			30
			24
\boxtimes			31-32
Yes	No	N/A	Page
-			Number(s)
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Yes	No	N/A	Page Number(s)
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Yes	No	N/A	Page Number(s)
Yes			Page
	No	N/A	Page Number(s)
	Yes	Yes No	Yes No N/A