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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</u> <u>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</u> <u>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:

Study about the results of the addition of a sulfonylurea, DPP4 inhibitors or SGLT2 inhibitors as a second antidiabetic drug in patients with diabetes mellitus type 2 in treatment with metformin and insufficient glycemic control. (eControl Met +)

Study reference number:

EUPAS23769

<u>Sec</u>	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	\square			108
	1.1.2 End of data collection ²	\square			108
	1.1.3 Study progress report(s)			\bowtie	
	1.1.4 Interim progress report(s)			\square	
	1.1.5 Registration in the EU PAS register	\square			108

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 1: Milestones	Yes	No	N/A	Section Number
1.1.6 Final report of study results.	\boxtimes			108

NA

<u>Sec</u>	ion 2: Research question	Yes	No	N/A	Section Number
2.1	Does the formulation of the research question and objectives clearly explain:	\boxtimes			195
	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)	\boxtimes			190-194
	2.1.2 The objective(s) of the study?	\boxtimes			218-251
	2.1.3 The target population? (i.e. population or subgroup to whom the study results are intended to be generalised)			\bowtie	
	2.1.4 Which hypothesis(-es) is (are) to be tested?	\boxtimes			197-207
	2.1.5 If applicable, that there is no <i>a priori</i> hypothesis?			\square	
Com	ments:				

na

<u>Sect</u>	ion 3: Study design	Yes	No	N/A	Section Number
3.1	Is the study design described? (e.g. cohort, case- control, cross-sectional, new or alternative design)	\boxtimes			255-282
3.2	Does the protocol specify whether the study is based on primary, secondary or combined data collection?	\boxtimes			260
3.3	Does the protocol specify measures of occurrence? (e.g. incidence rate, absolute risk)			\square	
3.4	Does the protocol specify measure(s) of association? (e.g. relative risk, odds ratio, excess risk, incidence rate ratio, hazard ratio, number needed to harm (NNH) per year)			\boxtimes	
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)				364-377

Comments:

<u>Sec</u>	ion 4: Source and study populations	Yes	No	N/A	Section Number
4.1	Is the source population described?	\square			405-422
4.2	Is the planned study population defined in terms of:				
	4.2.1 Study time period?	\square			285-286

<u>Sect</u>	ion 4: Source and study populations	Yes	No	N/A	Section Number
	4.2.2 Age and sex?	\boxtimes			307
	4.2.3 Country of origin?			\bowtie	
	4.2.4 Disease/indication?	\square			307
	4.2.5 Duration of follow-up?	\bowtie			293-300
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			303-319

na

<u>Sect</u>	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)	\boxtimes			323-326
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)		\boxtimes		
5.4	Is exposure classified based on biological mechanism of action and taking into account the pharmacokinetics and pharmacodynamics of the drug?		\boxtimes		

Comments:

na

<u>Sect</u>	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?	\boxtimes	327-329		
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:				

comm

<u>Sect</u>	ion 7: Bias	Yes	No	N/A	Section Number
7.1	Does the protocol describe how confounding will be addressed in the study?	\boxtimes			373; 510
	7.1.1. Does the protocol address confounding by indication if applicable?			\boxtimes	
7.2	Does the protocol address:			\square	
	7.2.1. Selection biases (e.g. healthy user bias)	\square			515
	7.2.2. Information biases (e.g. misclassification of exposure and endpoints, time-related bias)	\boxtimes			533
7.3	Does the protocol address the validity of the study covariates?				515

na

<u>Sect</u>	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)				

Comments:

<u>Sect</u>	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)				420
	9.1.2 Outcomes? (e.g. clinical records, laboratory markers or values, claims data, self-report, patient interview including scales and questionnaires, vital statistics)	\boxtimes			418
	9.1.3 Covariates?			\square	
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			321-337
	9.2.2 Outcomes? (e.g. date of occurrence, multiple event, severity measures related to event)	\boxtimes			321-337
	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)				321-337
	9.3.2 Outcomes? (e.g. International Classification of Diseases (ICD)-10, Medical Dictionary for Regulatory Activities (MedDRA))	\boxtimes			321-337
	9.3.3 Covariates?			\boxtimes	

<u>Sect</u>	ion 9: Data sources	Yes	No	N/A	Section Number
9.4	Is a linkage method between data sources described? (e.g. based on a unique identifier or other)		\square		

9.4There will be additional operational protocol for extraction and linkage of data

Section 10: Analysis plan	Yes	No	N/A	Section Number
10.1 Is the choice of statistical techniques described?	\boxtimes			459-492
10.2 Are descriptive analyses included?	\boxtimes			459-492
10.3 Are stratified analyses included?			\boxtimes	
10.4 Does the plan describe methods for adjusting for confounding?	\boxtimes			459-492
10.5 Does the plan describe methods for handling missing data?	\boxtimes			459-492
10.6 Is sample size and/or statistical power estimated?	\square			423-443

Comments:

na

Section 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)	\boxtimes			449-457
11.2 Are methods of quality assurance described?	\square			494-502
11.3 Is there a system in place for independent review of study results?	\boxtimes			494-502

Comments:

na

Section 12: Limitations	Yes	No	N/A	Section Number
12.1 Does the protocol discuss the impact on the study results of:				
12.1.1 Selection bias?	\square			507-539
12.1.2 Information bias?	\square			507-539
12.1.3 Residual/unmeasured confounding? (e.g. anticipated direction and magnitude of such biases, validation sub-study, use of validation and external data, analytical methods)	\boxtimes			507-539
12.2 Does the protocol discuss study feasibility? (e.g. study size, anticipated exposure, duration of follow-up in a cohort study, patient recruitment)			\boxtimes	
Comments:				

Section 13: Ethical issues	Yes	No	N/A	Section Number
13.1 Have requirements of Ethics Committee/				573-602
Institutional Review Board been described?				625-289
13.2 Has any outcome of an ethical review procedure been addressed?	\boxtimes		\boxtimes	
13.3 Have data protection requirements been described?	\boxtimes			573-602

na

Section 14: Amendments and deviations	Yes	No	N/A	Section Number
14.1 Does the protocol include a section to document amendments and deviations?	\boxtimes			105

Comments:

na

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)?	\boxtimes			612-624
15.2 Are plans described for disseminating study results externally, including publication?	\boxtimes			612-624
Comments:				
na				

Name of the main author of the protocol: Josep Franch Nadal

Date: 05/05/2018

1.

Signature: