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European Network of Centres for Pharmacoepidemiology and Pharmacovigilance

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</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 presented in the Guidance and Module VIII of the Good pharmacovigilance practices (GVP).

Study title: Influence of social deprivation on benzodiazepines and antidepressants drugs dispensing among children and adolescents: a large cross-sectional population-based study in France.

EU PAS Register[®] number: EUPAS32925

Study reference number (if applicable):

<u>Sec</u>	ion 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			
	1.1.2 End of data collection ²	\square			
	1.1.3 Progress report(s)	\bowtie			III B
	1.1.4 Interim report(s)	\bowtie			
	1.1.5 Registration in the EU PAS Register $^{\scriptscriptstyle (\!R\!)}$	\square			

² Date from which the analytical dataset is completely available.



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.

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

<u>Sect</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			V
	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			IV A
	2.1.2 The objective(s) of the study?	\square			V
	2.1.3 The target population? (i.e. population or subgroup to whom the study results are intended to be generalised)	\boxtimes			VI C
	2.1.4 Which hypothesis(-es) is (are) to be tested?	\bowtie			IV B
	2.1.5 If applicable, that there is no <i>a priori</i> hypothesis?				-

Comments:

<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, other design)	\square			VI A
3.2	Does the protocol specify whether the study is based on primary, secondary or combined data collection?	\boxtimes			VI B
3.3	Does the protocol specify measures of occurrence? (e.g., rate, risk, prevalence)	\boxtimes			VI E
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))	\boxtimes			VI G
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)			\boxtimes	-

Comments:

<u>Sec</u>	ion 4: Source and study populations	Yes	No	N/A	Section Number
4.1	Is the source population described?	\boxtimes			VI B
4.2	Is the planned study population defined in terms of:				
	4.2.1 Study time period	\bowtie			
	4.2.2 Age and sex	\bowtie			

<u>Sect</u>	ion 4: Source and study populations	Yes	No	N/A	Section Number
	4.2.3 Country of origin	\square			VI B & C
	4.2.4 Disease/indication			\bowtie	
	4.2.5 Duration of follow-up	\square			
4.3	Does the protocol define how the study population will be sampled from the source population? (e.g. event or inclusion/exclusion criteria)				VI C

<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	-
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 categorised according to time windows?			\square	-
5.4	Is intensity of exposure addressed? (e.g. dose, duration)			\boxtimes	-
5.5	Is exposure categorised based on biological mechanism of action and taking into account the pharmacokinetics and pharmacodynamics of the drug?				-
5.6	Is (are) (an) appropriate comparator(s) identified?			\square	-

Comments:

Main "exposure like" data of interest (EDI) is described and justified in VI F

<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			VI E
6.2	Does the protocol describe how the outcomes are defined and measured?	\square			VI E
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)	\boxtimes			VI E
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)				VI E

Comments:

Reference and abstract of the initial study detailing the source of the data are enclosed in

Appendix (X)

<u>Sec</u>	ion 7: Bias	Yes	No	N/A	Section Number
7.1	Does the protocol address ways to measure confounding? (e.g. confounding by indication)	\boxtimes			VI G & H
7.2	Does the protocol address selection bias? (e.g. healthy user/adherer bias)	\boxtimes			VI H
7.3	Does the protocol address information bias? (e.g. misclassification of exposure and outcomes, time-related bias)				VI H

Comments:

<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)			\square	-

Comments:

Limitations are discussed in VI H

<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)				VI B
	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			VI B
	9.1.3 Covariates and other characteristics?	\square			VI B
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			VI F
	9.2.2 Outcomes? (e.g. date of occurrence, multiple event, severity measures related to event)				VI E
	9.2.3 Covariates and other characteristics? (e.g. age, sex, clinical and drug use history, co-morbidity, co-medications, lifestyle)	\boxtimes			VI F
9.3	Is a coding system described for:				
	9.3.1 Exposure? (e.g. WHO Drug Dictionary, Anatomical Therapeutic Chemical (ATC) Classification System)				VI F
	9.3.2 Outcomes? (e.g. International Classification of Diseases (ICD), Medical Dictionary for Regulatory Activities (MedDRA))				VI E
	9.3.3 Covariates and other characteristics?	\square			VI F

Section 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)				х

Reference and abstract of the initial study detailing the source of the data are enclosed in Appendix (X)

Section 10: Analysis plan	Yes	No	N/A	Section Number
10.1 Are the statistical methods and the reason for their choice described?	\boxtimes			VI G
10.2 Is study size and/or statistical precision estimated?	\boxtimes			VI G
10.3 Are descriptive analyses included?	\boxtimes			VI G
10.4 Are stratified analyses included?			\boxtimes	-
10.5 Does the plan describe methods for analytic control of confounding?			\boxtimes	-
10.6 Does the plan describe methods for analytic control of outcome misclassification?			\boxtimes	-
10.7 Does the plan describe methods for handling missing data?	\boxtimes			VI H
10.8 Are relevant sensitivity analyses described?	\boxtimes			VI G

Comments:

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)				VII
11.2 Are methods of quality assurance described?	\boxtimes			VII
11.3 Is there a system in place for independent review of study results?	\boxtimes			VII

Comments:

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			
12.1.2 Information bias?	\square			VI H
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).				

Section 12: Limitations	Yes	No	N/A	Section Number
12.2 Does the protocol discuss study feasibility? (e.g. study size, anticipated exposure uptake, duration of follow-up in a cohort study, patient recruitment, precision of the estimates)			\boxtimes	-

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

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?	\boxtimes			VIII

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)?	\boxtimes			IX
15.2 Are plans described for disseminating study results externally, including publication?	\boxtimes			IX

Comments:

Name of the main author of the protocol: Yohann Vergès / Damien Driot

Date: 24/12/2019

/// Signature: