**Author’s response to reviews**

**Title:** Replicating Medication Trend Studies Using Ad Hoc Information Extraction in a Clinical Data Warehouse

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Answer to “(1) Ethics Approval”:

We requested and received a statement from the IRB confirming that the need of an ethics approval is waived. It states, that there are no fundamental ethical and legal concerns. The letter of the IRB containing this statement is attached to the submission.

The corresponding IRB is the ethics committee of the University Hospital of Würzburg. ([https://www.med.uni-wuerzburg.de/ethik-kommission/startseite/](https://www.med.uni-wuerzburg.de/ethik-kommission/startseite/))

The section “Ethics approval” is changed to:

An ethics approval was waived by the corresponding IRB.

The used clinical Data Warehouse contains pseudonymized data only.

Answer to “(2) Authors' Contributions”:

We described each author's contribution in more detail, showing that every author fulfills all four points. The section was changed to:
GD and FP conceived the presented idea.

GD carried out the implementation for the tests, designed and performed the experiments and wrote the manuscript.

FP contributed to the analysis and the interpretation of the results and technical evaluations.

FP also contributed to the refinement of the used techniques and methods.

JK made substantial contributions to the design by implementing big parts of the text segmentation used by the context detection.

LL implemented big parts of the CDW that were necessary for the study.

GF made substantial contributions to the acquisition of data.

GF imported the data to be analyzed into the CDW.

ME made substantial contributions to the acquisition of data.

ME exported the data from the clinical information system of the University Hospital of Würzburg.

MK acquired the ABDA-Database, which was used as background knowledge.

SS made substantial contributions to the analysis and interpretation of all medical data.

All authors critically revised sections.

All authors give their final approval of the version to be published.

All authors agree to be accountable for the work.