A method for the minimization of competition bias in signal detection from spontaneous reporting databases

Running title: Minimization of competition bias in signal detection

Journal: Drug Safety

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Table ESM2 Number of potential competitor drugs/drug classes of each adverse event, and related reports (n=82,885), identified by Masking Ratio (MR) with the tested anatomical therapeutic chemical (ATC) level/MR threshold combinations.

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<th>Aplastic anemia</th>
<th>Gastrointestinal bleeding</th>
<th>Convulsions</th>
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Table ES M4 Number of signals of disproportionate reporting (SDRs) detected after removing reports related to potential competitors identified by Masking Factor (MF) with the tested anatomical therapeutic chemical (ATC) classification level/shrinkage/MF threshold combinations

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Total number of SDRs unmasked (number of SDRs unmasked considered as validated)

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Table ESM5 Number of signals of disproportionate reporting (SDRs) detected after removing reports related to potential competitors identified by Masking Ratio (MR) with the tested anatomical therapeutic chemical (ATC) classification level/MR threshold combinations

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<th>Acute pancreatitis</th>
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ATC level 3

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ATC level 4

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## Performance for SDR unmasking

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### ATC level 4

#### Shrinkage of 50

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#### Shrinkage of 70

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### ATC level 5

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#### Shrinkage of 70

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