Online Resource 3: Construction of WEB-RADR reference set

This is a *Drug Safety* online resource of the article '*An assessment of the utility of social media for broad-ranging statistical signal detection in pharmacovigilance: Results from the WEB-RADR project*' by Ola Caster, Juergen Dietrich, Marie-Laure Kürzinger, Magnus Lerch, Simon Maskell, G. Niklas Norén, Stéphanie Tcherny-Lessenot, Benoit Vroman, Antoni Wisniewski, and John van Stekelenborg.

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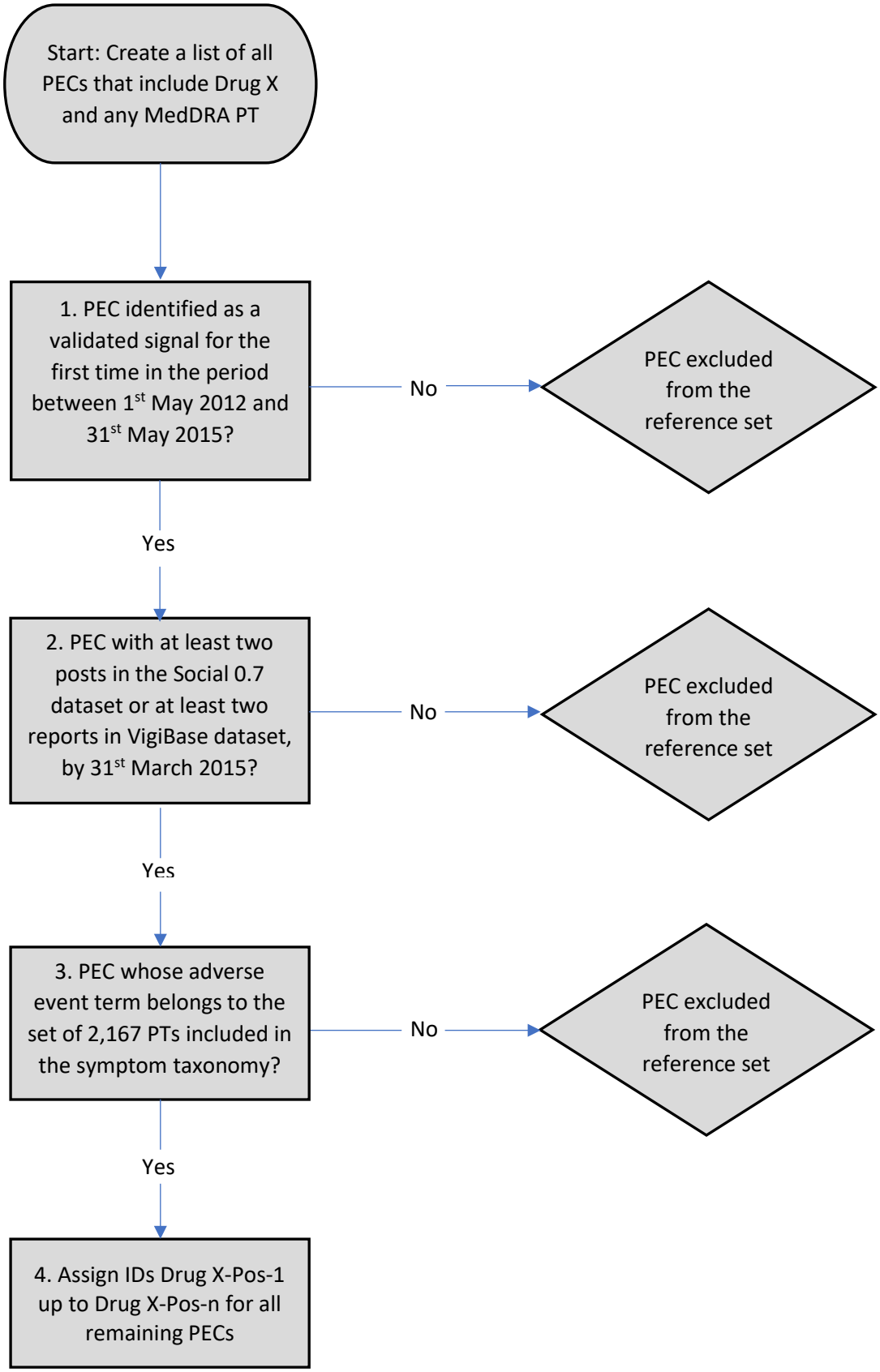
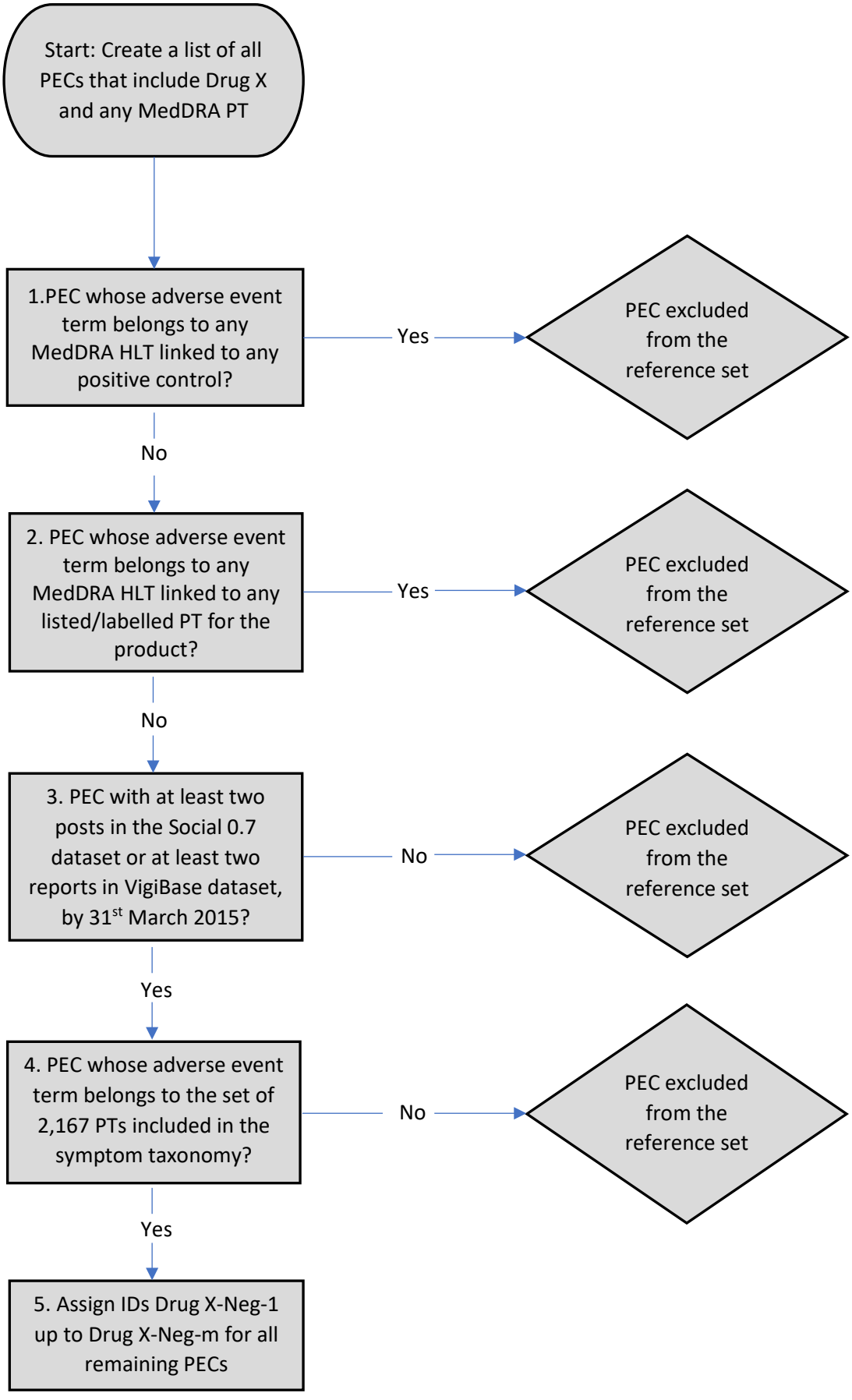
As mentioned in the main article (see Section 2.2.2), the Harpaz reference set was complemented by the more relevant WEB-RADR reference set, focussing on product/event combinations (PECs) that were identified as validated signals by the participating manufacturers during the study period. The step-by-step process that was followed to construct this reference set is presented in the following flowchart.

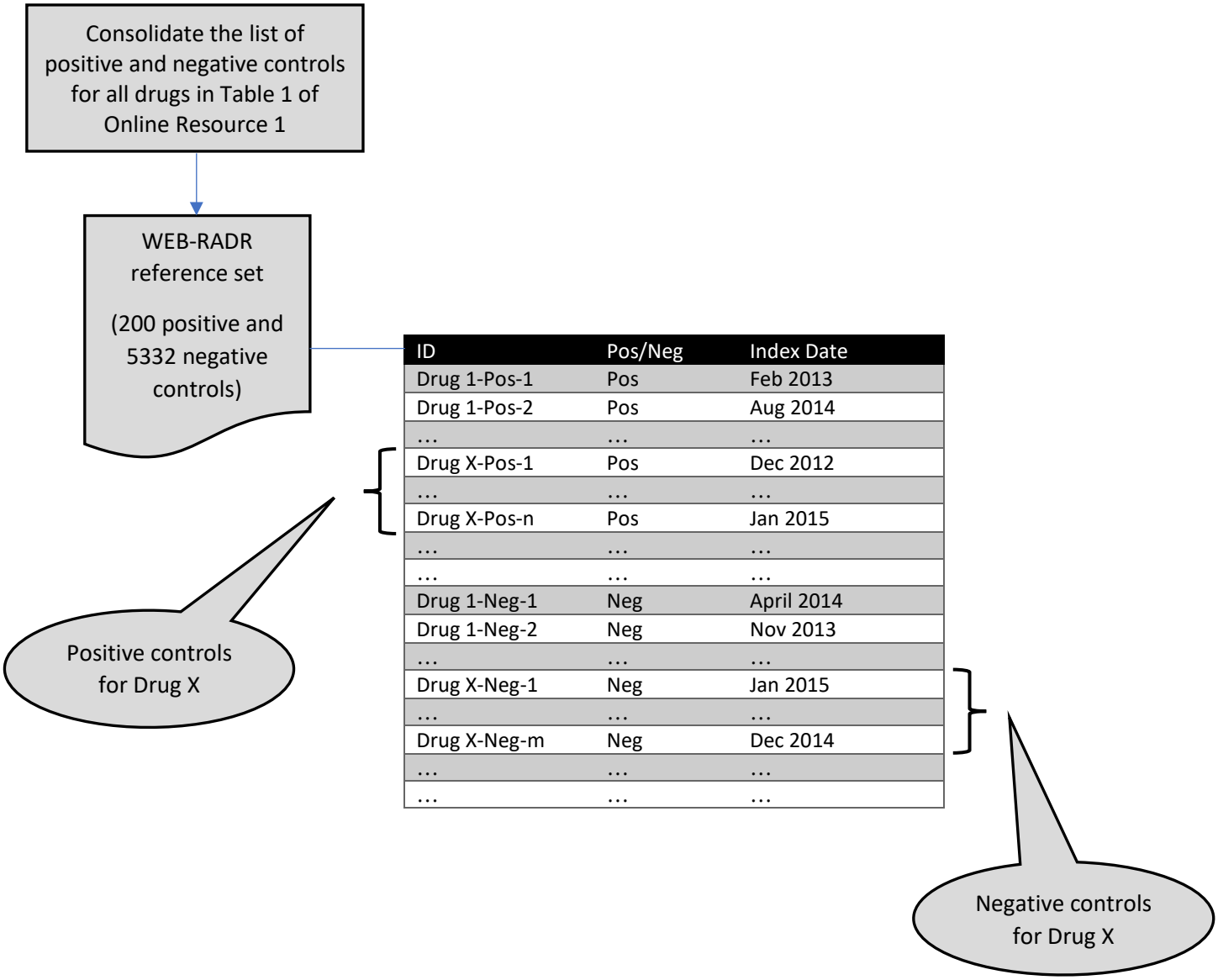
Identification of positive controls for each drug (denoted *Drug X*) in Table 1 of Online Resource 1:



Identification of negative controls for each drug (denoted *Drug X*) in Table 1 of Online Resource 1:



Building the WEB-RADR Reference Set:



ID	Pos/Neg	Index Date
Drug 1-Pos-1	Pos	Feb 2013
Drug 1-Pos-2	Pos	Aug 2014
…	…	…
Drug X-Pos-1	Pos	Dec 2012
…	…	…
Drug X-Pos-n	Pos	Jan 2015
…	…	…
…	…	…
Drug 1-Neg-1	Neg	April 2014
Drug 1-Neg-2	Neg	Nov 2013
…	…	…
Drug X-Neg-1	Neg	Jan 2015
…	…	…
Drug X-Neg-m	Neg	Dec 2014
…	…	…
…	…	…