Supplementary Materials

Search strategy

The search strategy reported below refers to PubMed and has been converted to be run in the other prespecified databases.

Electronic database (PubMed)


AND

“complications”[sh] OR "drug interactions"[mh] OR “Drug-Related Side Effects and Adverse
Reactions”[mh])

AND

(“pharmacovigilance analysis”[tiab] OR signal*[tiab] OR "signal detection”[tiab] OR
ADRs”[tiab])

NOT

"Published Erratum”[pt])

Grey literature: Google Scholar

(“signal” OR “signals”) AND (“side effect” OR “ADR” OR “adverse drug reaction” OR “adverse
event”) AND “pharmacovigilance”

Grey literature: signals publicly available on regulatory websites

List of English language websites of drug regulatory agencies drawn from Onakpoya et al. [1]
adapted for searches of signals of adverse drug reactions with medicinal products.
Numbered items followed by a letter were added by DS after consultation with Uppsala Monitoring Centre’s Global Services and represent additional members of the WHO Programme for International Drug Monitoring.


2. **Bahamas**: Bahamas National Drug Agency (BNDA):


8a. **Hong Kong**: Hong-Kong’s Department of Health Drug Office

9. **India**: Central Drugs Standard Control Organization (CDSCO):

10a. **Japan**’s Pharmaceuticals and Medical Devices Authority:  
https://www.pmda.go.jp/english/

11. **Kenya**: Pharmacy and Poisons Board, Kenya:  
http://pharmacyboardkenya.org/

11a. **Korea (Republic of)**: Korea Institute of Drug Safety and Risk Management  
https://www.drugsafe.or.kr/en/index.do

12. **Liberia**: Liberian Medicines Health Products Regulatory Authority:  
https://healthresearchweb.org/en/liberia/research_regulation_4284

12a **Malaysia**: National Pharmaceutical Regulatory Agency  

13. **Malta**: Malta Medicines Authority:  
http://www.medicinesauthority.gov.mt/home?l=1

14. **Namibia**: Namibia Medicines Regulatory Council:  
http://www.nmrc.com.na/

15. **New Zealand**: New Zealand Medicines and Medical Devices Safety Authority:  

16. **Nigeria**: National Agency for Food and Drug Administration and Control (NAFDAC):  
http://www.nafdac.gov.ng/

17. **Pakistan**: Drug Regulatory Authority of Pakistan (DRAP):  
http://www.dra.gov.pk/gop/index.php?q=aHR0cDovLzE5Mi4xNjguNzAuMTM2L2RyYXAv

18. **Philippines**: Food and Drug Administration, Philippines (FDA):  
https://www.fda.gov.ph

19. **Rwanda**: Ministry of Health, Republic of Botswana:  
19a. **Saudi Arabia:** Saudi Food and Drug Administration

[https://www.sfda.gov.sa/En/Pages/default.aspx](https://www.sfda.gov.sa/En/Pages/default.aspx)

20. **Sierra Leone:** Pharmacy Board of Sierra Leone: [http://www.pharmacyboard.gov.sl/](http://www.pharmacyboard.gov.sl/)

21. **Singapore:** Health Sciences Authority: [http://www.hsa.gov.sg/content/hsa/en.html](http://www.hsa.gov.sg/content/hsa/en.html)

22. **South Africa:** South Africa Medicines Control Council (MCC): [http://www.mccza.com/](http://www.mccza.com/)


24. **Tanzania:** Tanzania Food and Drugs Authority (TFDA): [http://www.tfda.or.tz/](http://www.tfda.or.tz/)

25. **Thailand:** Food and Drug Administration, Thailand:


26. **Trinidad and Tobago:** Ministry of Health, Trinidad and Tobago:


27. **Uganda:** National Drug Authority: [http://www.nda.or.ug/](http://www.nda.or.ug/)

28. **United Kingdom:** Medicines and Healthcare products Regulatory Agency (MHRA):


29. **USA:** Food and Drug Administration (FDA): [http://www.fda.gov/](http://www.fda.gov/)

30. **Zambia:** Pharmaceutical Regulatory Authority (PRA): [http://www.zamra.co/](http://www.zamra.co/)

31. **Zimbabwe:** Medicines Control Authority of Zimbabwe (MCAZ): [http://www.mcaz.co.zw/](http://www.mcaz.co.zw/)

**References**