

Search strategy used for eligible studies

Boolean operator 'AND' was used to search for combination of Domains (1: adverse events) AND (2: observational study design) AND (3: drug treatment AND diabetes); operator 'OR' was used to include all headings and terms within each domain.

	Domains	MeSH	Subheading	Free text terms
1	Adverse events	1. exp Drug Toxicity/	1. adverse effects.fs. 2. chemically induced.fs	(safety or side effect\$ or adverse drug event\$ or adverse drug reaction\$ or drug complication\$ or adverse effect\$ or ADR\$ or medic\$ error\$ or complication\$ or adverse medical event\$ or medication symptom\$ or drug-drug interaction or medication-attributed barrier\$ or patient-important outcome\$ or toxic effect\$ or toxicity or drug related morbidity or medication-related problem\$ or tolera\$ or risk).tw.
2	Observational study design	1. exp Product Surveillance, Postmarketing 2. Drug Monitoring/ 3. Risk Assessment/ 4. exp Data Collection/		(prescription-event monitoring or prescription event monitoring or PEM or post-marketing surveillance\$ or post marketing product surveillance\$ or postmarketing surveillance\$ or postmarketing evaluation stud\$ or post-marketing evaluation stud\$ or post marketing evaluation stud\$ or postmarketing drug surveillance\$ or post-marketing drug surveillance\$ or post marketing drug surveillance\$ or cross sectional stud\$ or cross-sectional stud\$ or survey\$ or case-control or cohort stud\$ or prospective cohort or retrospective cohort or precrib\$ or prescript\$ or risk perception or follow-up stud\$ or follow up stud\$ or record\$ review or chart review or voluntary report\$ or spontaneous report\$ or intensive monitoring or electronic record\$ or questionnaire\$ or report\$ or self-report\$ or patient-report\$ or subjectively-report\$ or withdraw\$).tw.
3	Drug treatment Diabetes	exp Drug Therapy/ exp Diabetes Mellitus/	Drug therapy. Fs.	(drug or pharmacotherap\$ or polypharmacy).tw (diabet\$).tw.