



Universität
Basel

Research Project

A study on the epidemiology of stevens-johnson syndrome and toxic epidermal necrolysis

Third-party funded project

Project title A study on the epidemiology of stevens-johnson syndrome and toxic epidermal necrolysis

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Organisation / Research unit

Bereich Querschnittsfächer (Klinik) / Spitalpharmazie (Meier)

Departement Pharmazeutische Wissenschaften / Clinical Pharmacy (Meier)

Department

Project start 01.07.2014

Probable end 31.12.2015

Status Completed

Stevens-Johnson syndrome (SJS) and Toxic Epidermal Necrolysis (TEN) are severe cutaneous adverse drug reactions. Due to the rare nature of SJS/TEN, available evidence on the frequency of these diseases and on the role of a potential causal involvement of drugs is scarce. Some hospital based studies provide evidence on a possible role of certain drugs, but further evidence is needed, as SJS/TEN treatment is mainly based on discontinuation of suspected drugs. Previously published incidence rates (IRs) are scarce and vary greatly due to the low numbers of patients studied and due to difficulties in defining the population at risk. In addition, follow-up data on mortality and especially on long-term complications in survivors of SJS/TEN are sparse. The planned epidemiological study will include a case-control part identifying drugs which have been taken at the time of the onset of SJS/TEN, as well as two different cohort studies. In the first cohort study we will assess IRs of SJS/TEN overall as well as in new users of different drugs. In the second cohort analysis we will quantify mortality rates and identify long-term complications of SJS/TEN applying a Cox proportional hazard analysis. The suggested project will involve one of the largest SJS/TEN study populations available, and will be among the first SJS/TEN studies using a large longitudinal database (first one on the Clinical Practice Research Datalink - CPRD).

Keywords stevens-johnson syndrome, pharmacoepidemiology, clinical practice research database, drug hypersensitivity

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Published results

3703325, Frey, Noel; Bircher, Andreas; Bodmer, Michael; Jick, Susan S.; Meier, Christoph R.; Spöndlin, Julia, Validation of Stevens-Johnson syndrome or toxic epidermal necrolysis diagnoses in the Clinical Practice Research Datalink, 1053-8569 ; 1099-1557, Pharmacoepidemiology and Drug Safety, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

3846410, Frey, Noel; Jossy, Janine; Bodmer, Michael; Jick, Susan S.; Meier, Christoph R.; Spoendlin, Julia, The Epidemiology of Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in the UK, 0022-202X ; 1523-1747, Journal of Investigative Dermatology, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

4215817, Frey, Noel; Bircher, Andreas; Bodmer, Michael; Jick, Susan S; Meier, Christoph R; Spoendlin, Julia, Antibiotic drug use and the risk of Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis A Population-Based Case-Control Study., 0022-202X, The Journal of investigative dermatology, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

4215818, Frey, Noel; Bodmer, Michael; Bircher, Andreas; Rüegg, Stephan; Jick, Susan S.; Meier, Christoph R.; Spoendlin, Julia, The risk of Stevens-Johnson syndrome and toxic epidermal necrolysis in new users of antiepileptic drugs, 0013-9580 ; 1528-1167, Epilepsia, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

4617931, Marxer, Carole A.; Frey, Noel; Bodmer, Michael; Bircher, Andreas J.; Jick, Susan S.; Meier, Christoph R.; Spoendlin, Julia, Survival after StevensJohnson Syndrome or Toxic Epidermal Necrolysis: A United KingdomBased Cohort Study, 0022-202X ; 1523-1747, Journal of Investigative Dermatology, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

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