GInAS and pharmacovigilanace

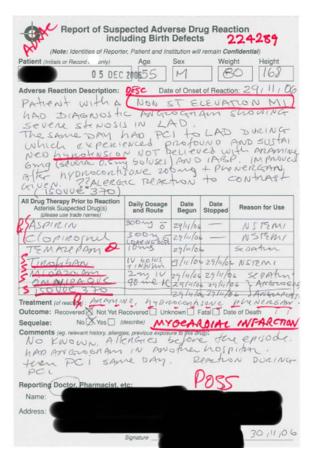
Insights derived from additional substance information

Tomas Bergvall Research Engineer



Intro – Chemical structure – Other applications

Case report from 2005





Adverse drug reactions

Reported information on a possible causal relationship between an adverse event and a drug,

the relationship being **unknown** or **incompletely documented** previously.

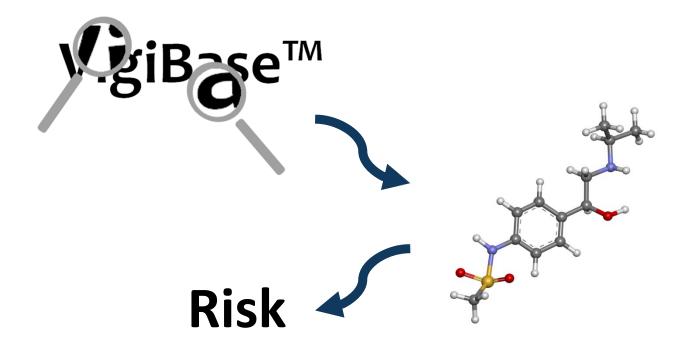


Where do we start?



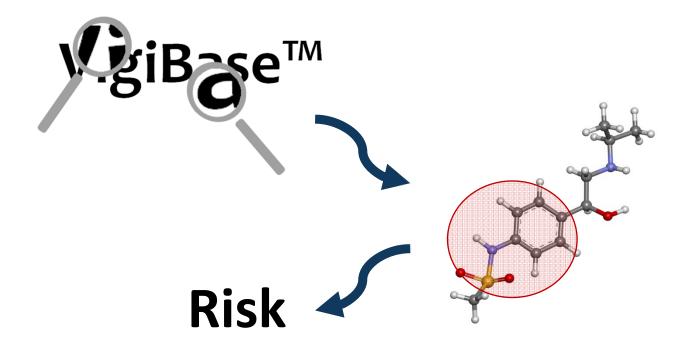


Identify structure associated with risk





Identify structure associated with risk





Acknowledgment

 Collaboration between Uppsala Monitoring Centre and University of North Carolina, Eshelman School of Pharmacy



JAMIA publication

Accepted

but not published



Case study

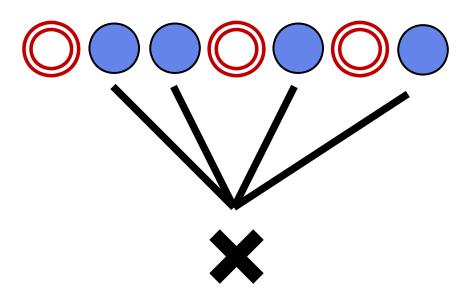
Stevens-Johnson Syndrome



Study design

Positive controls

Drugs associated with 194 Stevens-Johnson Syndrome in VigiBase





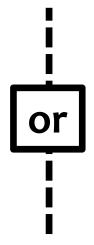
Study design

Negative controls

0170

Drugs not associated with Stevens-Johnson Syndrome in VigiBase

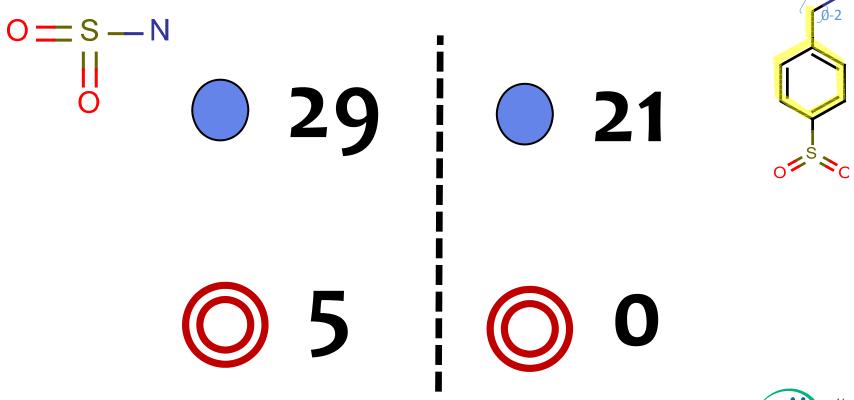
No reports with SJS



Significantly fewer reports with SJS than in VigiBase overall



Sulfonamides vs Sulfonyl arylamines





Sulfonyl arylamines

Not All Sulfa Drugs Are Created Equal

Steven M Toler and Ignacio Rodriguez



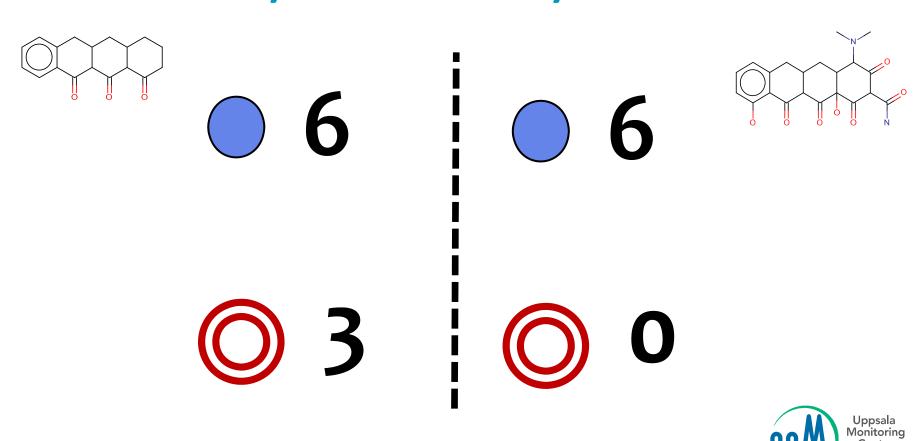
'Sulfur allergy' label is misleading

William B Smith, Senior Consultant, Clinical Immunology and Allergy, Royal Adelaide Hospital, Adelaide; and Constance H Katelaris, Professor, Clinical Immunology and Allergy, University of Western Sydney

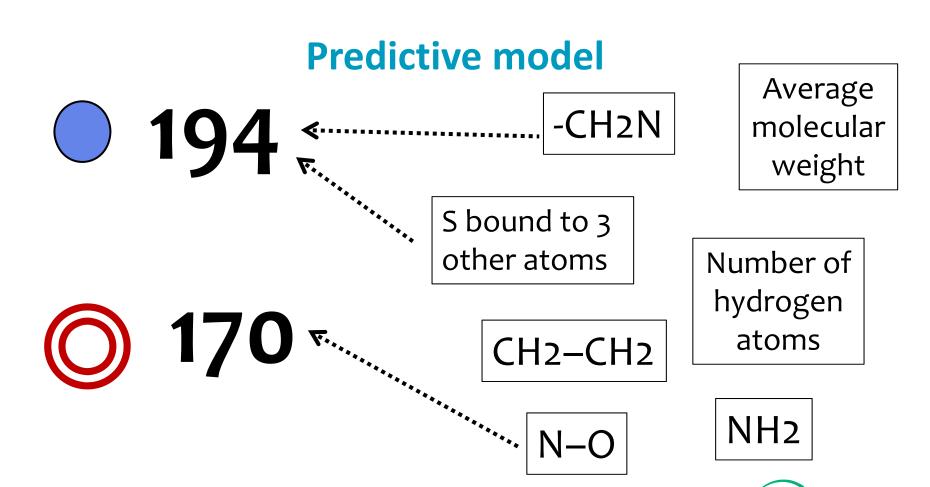


 β -lactam vs β -lactam with sulfur

Tetracyclines vs Tetracyclines with N



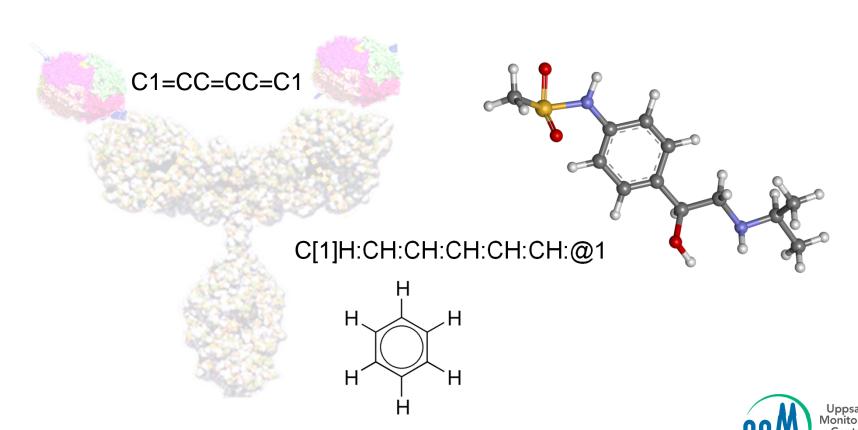
Deliverable



Uppsala

Where would GInAS help

Easy access to chemical structure



Intro – Chemical structure – Other applications

What can we use it for?

Levothyroxine in Spain

MedDRA PTs

Drug ineffective

Therapeutic product ineffective

Drug effect decreased

Drug effect delayed

Drug effect increased

Drug effect prolonged

No therapeutic response

Therapeutic response decreased

Therapeutic response delayed

Therapeutic response prolonged

Therapeutic response increased

Therapeutic response unexpected

Therapeutic response unexpected with drug substitution

Product measured potency issue

Product formulation issue

Product quality issue

Product label issue

Physical product label issue

Product lot number issue

Product barcode issue

Product identification number issue

Product packaging quantity issue

Poor quality drug administered

Unintended pregnancy





Intro – Chemical structure – Other applications

What can we use it for?

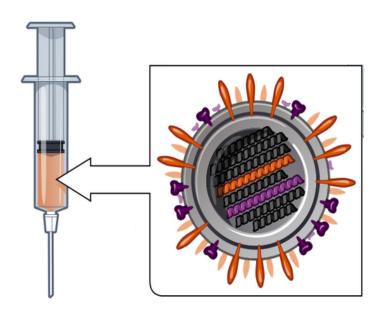
Vaccines



What can we use it for?

Rabies Vaccines

Erythema Multiforme



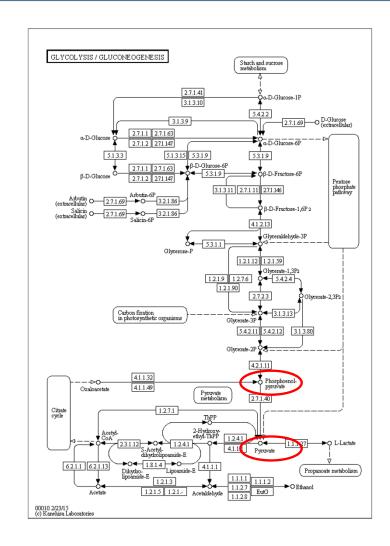




Intro – Chemical structure – Other applications

What can we use it for?

Pathways











A WHO Collaborating Centre





One goal

In our role as a WHO Collaborating Centre, we adhere to WHO policies and work in close liaison with WHO headquarters. We provide scientific leadership and operational support to the WHO Programme for International Drug Monitoring. We share the WHO's goal of better health for all, but are organisationally and professionally distinct from the WHO itself.