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Comparison of agreement in asthmagen exposure assessments between rule-based automatic algorithms and a job exposure matrix in healthcare workers in Australia and Bhutan

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Abstract

Background: Assessment of occupational exposures is an integral component of population-based studies investigating the epidemiology of occupational diseases. However, all the available methods for exposure assessment have been developed, tested and used in high-income countries. Except for a few studies examining pesticide exposures, there is limited research on whether these methods are appropriate for assessing exposure in LMICs. The aim of this study is to compare a task-specific algorithm-based method (OccIDEAS) to a job-specific matrix method (QAsJEM) in the assessment of asthmagen exposures among healthcare workers in a high-income country and a low- and middle- income country (LMIC) to determine an appropriate assessment method for use in LMICs for future research.

Methods: Data were obtained from a national cross-sectional survey of occupational asthmagens exposure in Australia and a cross-sectional survey of occupational chemical exposure among Bhutanese healthcare workers. Exposure was assessed using OccIDEAS and the QAsJEM. Prevalence of exposure to asthmagens and inter-rater agreement were calculated.

Results: In Australia, the prevalence was higher for a majority of agents when assessed by OccIDEAS than by the QAsJEM (13 versus 3). OccIDEAS identified exposures to a greater number of agents (16 versus 7). The agreement as indicated by κ (Cohen's Kappa coefficient) for six of the seven agents assessed was poor to fair (0.02 to 0.37). In Bhutan, the prevalence of exposure assessed by OccIDEAS was higher for four of the seven agents and κ was poor for all the four agents assessed (-0.06 to 0.13). The QAsJEM overestimated exposures to high-level disinfectants by assigning exposures to all participants from 10 (Bhutan) and 12 (Australia) ISCO-88 codes; whereas OccIDEAS assigned exposures to varying proportions of participants from these ISCO-codes.

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Regulatory Toxicology in the European Union Tim Marrs, Kevin Woodward, 2018-02-26 Consumer and environmental protection depend on the careful regulation of all classes of chemicals Toxicology is the key science used to evaluate safety and so underpins regulatory decisions on chemicals With the growing body of EU legislation involved in chemical regulation there is a concomitant need to understand the toxicological principles underlying safety assessments Regulatory Toxicology in the European Union is the first book to cover regulatory toxicology specifically in Europe It addresses the need for a wider understanding of the principles of regulatory toxicology and their application and presents the relationship between toxicology and legislative processes in regulating chemical commodities across Europe This title has a broad scope covering historical and current chemical regulation in Europe the role of European agencies and institutions and also the use of toxicology data for important classes of chemicals including human and veterinary medicines animal feed and food additives biocides pesticides and nanomaterials This book is therefore extremely pertinent and timely in the toxicology field at present This book is an essential reference for regulatory authorities industrialists academics undergraduates and postgraduates working within safety and hazards toxicology the biological sciences and the medicinal and pharmaceutical sciences across the European Union **Asthmagen?** , 1997 This publication is aimed at managers and supervisors in a variety of occupations including paint spraying work with laboratory animals and bakery work It contains a series of critical assessments of chemical substances and biological agents implicated in occupational asthma **Safety at Work** John Channing, 2013-11-20 The leading book on the subject of occupational health safety revised in line with recent UK legislation and practice New to this edition is the foreword by Judith Hackitt CBE Chair of the Health and Safety Executive and a brand new chapter on the latest EU and international regulations and directives Safety at Work is widely accepted as the most authoritative guide to health and safety in the workplace Offering detailed coverage of the fundamentals and background in the field this book is essential reading for health and safety professionals or small company owners Students on occupational health and safety courses at diploma bachelor and masters level including the NEBOSH National Diploma will find this book invaluable providing students with the technical grounding required to succeed Edited by an experienced and well known

health and safety professional with contributions from leading experts in research and practice **Health and Safety Enforcement** Richard A. Matthews (barrister.), Richard Matthews QC, James Ageros, 2010-10-21 This publication provides a practical and comprehensive guide to the key issues in this growing area of the law This edition contains expanded coverage of judicial review and abuse of process reasonable practicability disclosure case management funding and the Corporate Manslaughter Act *Allergy* Great Britain: Parliament: House of Lords: Science and Technology Committee, Lord Broers, 2007-09-26 **Oxford Handbook of Occupational Health** Julia Smedley, Finlay Dick, Steven Sadhra, 2013-03-28 Fully revised for this second edition the Oxford Handbook of Occupational Health provides a concise practice based guide Bringing together the latest legislation and guidance with current practice in the field this is your authoritative guide to assessing and managing health risks in the workplace Consisting of twelve sections covering the full breadth of practice the Handbook includes workplace hazards and diseases occupational health emergencies and practical procedures This second edition is also updated with new information on psychiatric emergencies psychological therapies chronic pain management writing a policy and obesity Providing a thorough easy to use guide to the whole of occupational health this Handbook is the essential resource for all occupational physicians occupational health nurses occupational hygienists and all those dealing with workplace health and fitness giving you the information you need at your fingertips **Safety at Work** John Ridley, John Channing, 2008-01-14 Safety at Work is widely accepted as the most authoritative guide to safety and health in the workplace Its comprehensive coverage and academically rigorous approach make it essential reading for students on occupational safety and health courses at diploma bachelor and master level including the NEBOSH National Diploma Health and safety professionals turn to it for detailed coverage of the fundamentals and background of the field The seventh edition has been revised to cover recent changes in UK legislation and practice including Construction Design Management Regulations 2007 Regulatory Reform Fire Safety Order 2005 Work at Height Regulations 2005 Control of Noise at Work Regulations 2005 Control of Vibration at Work Regulations 2005 Waste regulations 2005 2006 ISO 12100 Safety of Machinery Basic concepts and general principles **Monographs in Contact Allergy, Volume 1** Anton C. de Groot, 2021-03-22 Monographs in Contact Allergy Volume 1 Non Fragrance Allergens in Cosmetics Part 1 and Part 2 is the first 2 part volume in an exciting series on contact allergy It presents over 500 natural or synthetic chemicals and compounds which have caused allergic contact dermatitis in cosmetic products Included here are INCI names synonyms description definition CAS and EU numbers chemical class function in cosmetics molecular formula structural formula and advice on patch tests A full literature review is given of patch testing in patients case reports of cosmetic allergic contact dermatitis irritant contact dermatitis photosensitivity immediate contact reactions and systemic side effects This text is suitable for anyone with an interest in contact allergy from university students to professionals and all readers will find this informative and detailed series an invaluable resource Key Features Monographs of all known non fragrance chemicals and substances

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Occupational Health & Safety Solutions Ian

Bollans,David Preece,2024-05-31 Health and safety legislation places significant responsibilities on employers and managers to protect the health and safety of their workers but the subject area is seen as both complex and technical in nature often requiring the input of professionals This book dispels these myths by taking a unique approach allowing somebody with little or no knowledge of the subject to understand their legal duties and then take a practical step by step approach to control workplace risks and prevent accidents Occupational Health Safety Solutions Practical Compliance is a reworking and updating of Jordan Publishing s Health and Safety Management published by LexisNexis from 1997 to 2023 The book takes a comprehensive approach by covering the main subject areas of occupational health and safety and is relevant to all types of workplaces It provides enough background knowledge for the reader to understand what the law requires and what needs to be done to achieve compliance with the main emphasis being on practical application Providing the reader with the ability to manage health and safety through a process of flowcharts diagrams and extensive checklists the book draws on the expertise of the authors and current best practice within industry Each chapter sets out a clear practical approach to identifying and managing risks thereby enabling a robust and successful health and safety management system to be established in any workplace The book is written for non safety professionals such as managers and directors who want to discharge and manage their health and safety responsibilities in their workplace without the need to engage a consultant It will also appeal to the safety professional by providing an authoritative guide to current best practice together with the practicalities of managing health and safety risks

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Table of Contents Asthmagen Critical Assessments Of The Evidence Foragents

1. Understanding the eBook Asthmagen Critical Assessments Of The Evidence Foragents
 - The Rise of Digital Reading Asthmagen Critical Assessments Of The Evidence Foragents
 - Advantages of eBooks Over Traditional Books
2. Identifying Asthmagen Critical Assessments Of The Evidence Foragents
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Asthmagen Critical Assessments Of The Evidence Foragents
 - User-Friendly Interface
4. Exploring eBook Recommendations from Asthmagen Critical Assessments Of The Evidence Foragents
 - Personalized Recommendations
 - Asthmagen Critical Assessments Of The Evidence Foragents User Reviews and Ratings
 - Asthmagen Critical Assessments Of The Evidence Foragents and Bestseller Lists
5. Accessing Asthmagen Critical Assessments Of The Evidence Foragents Free and Paid eBooks

- Asthmagen Critical Assessments Of The Evidence Foragents Public Domain eBooks
 - Asthmagen Critical Assessments Of The Evidence Foragents eBook Subscription Services
 - Asthmagen Critical Assessments Of The Evidence Foragents Budget-Friendly Options
6. Navigating Asthmagen Critical Assessments Of The Evidence Foragents eBook Formats
- ePub, PDF, MOBI, and More
 - Asthmagen Critical Assessments Of The Evidence Foragents Compatibility with Devices
 - Asthmagen Critical Assessments Of The Evidence Foragents Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Asthmagen Critical Assessments Of The Evidence Foragents
 - Highlighting and Note-Taking Asthmagen Critical Assessments Of The Evidence Foragents
 - Interactive Elements Asthmagen Critical Assessments Of The Evidence Foragents
8. Staying Engaged with Asthmagen Critical Assessments Of The Evidence Foragents
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Asthmagen Critical Assessments Of The Evidence Foragents
9. Balancing eBooks and Physical Books Asthmagen Critical Assessments Of The Evidence Foragents
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Asthmagen Critical Assessments Of The Evidence Foragents
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Asthmagen Critical Assessments Of The Evidence Foragents
- Setting Reading Goals Asthmagen Critical Assessments Of The Evidence Foragents
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Asthmagen Critical Assessments Of The Evidence Foragents
- Fact-Checking eBook Content of Asthmagen Critical Assessments Of The Evidence Foragents
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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