

Health thinking' and approaches that may be (and have been) successfully introduced into the national health policies and programs, in the case of some local and regional ongoing experiences in Brazil, include the following:

- i. development or strengthening of a clear understanding that almost all young or adult 'citizens' and/or 'patients' are also 'workers';
- ii. introduction of the classic Ramazzinian question ('what is your occupation?'), improved by Sir Percival Pott, by adding a temporal dimension (occupational anamnesis), as a routine, into the Family/Primary health practice;
- iii. mapping, visiting productive premises or other economic activities located within the territorial jurisdiction of the Primary/Family health responsibility;
- iv. analysis of all economic/productive informal activities carried out within houses, involving children, minors and women, among other activities. There are successful outcomes that may be shared.

#### 1720d NEW METHODS IN EPIDEMIOLOGY OF WORK-RELATED ASTHMA

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Around 15% of adult asthma may be attributable to occupational exposures. Among adults with asthma, occupational exposures have also been associated with disease exacerbations and poor asthma control. While the number of identified occupational astmagens (hazards known to induce asthma) increases regularly, the burden of work-related asthma remains underestimated. Moreover, for some categories of exposure such as cleaning products, specific causal agents remain unclear, limiting the development of prevention strategies. Two of the main methodological challenges in epidemiological studies on work-related asthma are (1) exposure assessment, as a differential misclassification bias may be particularly important when exposure is self-reported; and (2) the healthy worker effect, as individual with asthma may change job shortly after experiencing work-related symptoms. New methodological approaches have been developed to address these two challenges and will be presented. Methods for evaluation of exposure to specific cleaning products and disinfectants will be discussed, illustrating the interest of using (a) job-task-exposure matrices instead of common job-exposure matrices or self-report to reduce exposure misclassification; and (b) a smartphone application with a barcode reader to evaluate exposure to numerous chemicals contained in cleaning products/disinfectants. To address the healthy worker effect, new approaches based on causal inference methods have been developed in occupational epidemiology. The specific impact of the healthy worker effect in work-related asthma studies, and how it can be addressed using marginal structural models, will be presented. In summary, new epidemiological methods may help better evaluating the burden of work-related asthma, and improve ability to identify specific harmful agents, which is warranted to suggest new targets for work-related asthma prevention.

#### 1720e BIAS AND TARGET PARAMETERS IN OCCUPATIONAL EPIDEMIOLOGY

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Along with the issues and limitations inherent in all observational studies, occupational epidemiologic studies have to address biases arising from the healthy worker effect. This mechanism can be described as one of a time varying confounder affected by prior exposure, which cannot be addressed in standard regression approaches. Recent applications of a series of methods collectively known as 'g-methods', have sought to address this issue in occupational epidemiologic studies. Furthermore, some studies seek to provide direct estimates of risk (cumulative incidence) in relation to exposures of interest, under hypothetical exposure scenarios and interventions. These measures are advantageous compared to traditional measures of contrast relying on the hazard or the odds, and are of direct significance to risk and policy assessment. This talk will portray issues that may give rise to bias in occupational studies, such as time-varying confounding affected by prior exposure, right censoring, competing events, and left truncation in relation to methods used to address them. We also lay out steps in identifying target quantities of interest, given the existing knowledge and questions at hand, assessing whether that quantity is identifiable with available estimation methods, and the interpretation of these quantities after estimation.

#### 20 STIGMA TOWARDS WORKERS DIAGNOSED WITH OCCUPATIONAL DISEASES

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**Introduction** Stigma has been defined as 'the situation of the individual who is disqualified from full social acceptance or social 'disgrace' arising within social relations' or biased acts or behaviours. Stigma related to chronic health conditions have been known for a long time. Especially, internal and external (perceived and experienced) stigmatisation have been described among the patients with communicable diseases. Despite a growing awareness of chronic diseases, there is not yet enough research about patients with occupational diseases (OD) with regards to stigmatisation. This research aimed to investigate the scope and types of stigmatisation among OD patients in an outpatients clinic.

**Methods** This is a qualitative research. Semi-structured in-depth interviews conducted by two interviewers. 13 patients who diagnosed OD between November 2013-February 2016 recruited to the study. The interviews conducted with tape-recorded accompanied by note-taking. The tape records resolved and evaluated by content analysis methods.

**Result** In our study, we found that at least one theme of internal or external stigmatisation was found in all employees after OD diagnosis. In particular, employees who are symptomatic have been shown to be embarrassed by the complaints and