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University of Bologna
Department of Biomedical and Neuromotor Sciences



National Conference of Public Health Medical Residents of the Italian Society of Hygiene, Preventive Medicine, and Public Health (S.It.I.)

4th Edition

New GenerActions for Public Health

Bologna, 25-27 May 2017

ABSTRACT BOOK

National Conference of Public Health Medical Residents of the Italian Society of Hygiene, Preventive Medicine, and Public Health (S.It.I.)

New GenerActions for Public Health
4th EDITION – Bologna, 25-27 May 2017

and no hospitalizations. Moreover, tem- screening tool. the safety of both Influenza vaccines.

Keywords: Pharmacovigilance, vaccines, influenza

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C02. Frailty screening and assessment ment tools of frail people tools. A review of charactheristicsand use in Public Health

Capanna A.¹, Gilardi F.², Liotta G.²

- and Preventive Medicine, University of sure data and land cover map from geo-Roma Tor Vergata
- 2. University of Roma Tor Vergata, Roma

Introduction: Improving the health of an ageing population is related to the preby an increased risk of the occurrence of 1. CREAGEN - Environmental, Genetic talizations and/or a worsening of Quality and Reggio Emilia, Modena, Italy of Life. Therefore, the screening and the 2. Department of Medical, Surgical Sciand prevention programs.

Methods: Through a review of the literastudy aims to develop an up-to-date Emilia, Modena, Italy framework for the main procedures and 4. their use in the primary care setting.

Results: The study selected 10 reviews published between January 2010 and December 2016 that define the characteristics of the main tools used to measure frailty. Within the selected reviews sible information and recall bias could only 5 proposed a specific tool as the lead to misclassification of exposure. most appropriate to screen frailty in Methods: We evaluated passive exposure them covers the

Conclusions: Overall, adverse reactions (multidimensionality, quick and easy were reported in about 25% of the co- administration, predictivity, high sensitivhort, but there were no serious reactions ity and specificity) necessary for a

poral association between vaccines and Conclusions: Predictivity of negative outadverse reactions does not necessarily comes could be the appropriate and sufficorrespond with a causal association, cient criterion to assess a tool aimed to There are no statistically significant dif- detect frailty in the community-dwelling ferences for age, type of vaccine and elderly population. The multidimensionalhealth conditions. The survey confirms ity of frailty needs a validated tool able to explore social, functional and health dimensions of individuals in order to address the planning of prevention and care services at community level.

> Keywords: Frailty, older adults, aging of the population, screening and assess-

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1. School of Specialization in Hygiene C03. Comparison of questionnaire expographical information system to assess passive exposure to pesticides: a methodological study.

Filippini T.¹, Malagoli C. ¹, Fiore M.², Violi F. ¹, Costanzini S. ³, Ledda C. ², Mauceri C. vention and managment of frailty at ², Angela D.², Mandrioli J.⁴, Fini N.⁴, Patti community level. Frailty is characterized F.¹, Teggi S.³, Ferrante M.², Vinceti M.¹

- negative outcomes like death or a higher and Nutritional Epidemiology Research rate of institutionalization and/or hospi- Center (CREAGEN), University of Modena
- assessment of frailty are crucial in Public ences and Advanced Technologies "G.F. Health for planning both care services Ingrassia", University of Catania, Catania, Italy
- 3. Department of Engineering "Enzo Ferture and employing the INSA Tool, this rari", University of Modena and Reggio
- Department of Neuroscience, measurement tools available to assess Agostino-Estense Hospital, and University frailty in older adults, paying attention to of Modena and Reggio Emilia, Modena, Italv

Background: Exposure assessment based on questionnaires is frequently implemented in case-control studies, but pos-

community-dwelling older adults. How- to pesticides as possible environmental ever, of the analyzed tools, only one of risk factors for amyotrophic lateral sclecriteria rosis (ALS) using a questionnaire mailed to participants in a case-control study in Emilia Romagna and Sicily. Results from questionnaire assessment were compared with a remote sensing methodology based on geographical information system, i.e. the land use within a circular 100-meter area around subjects' residence. Since land cover maps were made available only about once every ten years, we used the 2003 and 2009 maps for Emilia-Romagna and Sicily, respectively. Thus, we estimated the percentage of 'recent' total crop density close to each participant's home, setting positive exposure above 10% of land use.

Finally, we calculated the agreement between the two different methodologies using Cohen's kappa coefficients for all subjects, cases and controls.

Results and Conclusions: Cohen's kappa was 0.364 (95% CI 0.158-0.569) in total population, 0.378 (0.056-0.700) in cases and 0.354 (0.090-0.618) in controls using the most recent land use map available close to year of case diagnosis. Although a moderate-to-low agreement could be seen between two exposure methods, similar results were found in both cases and controls, suggesting that no recall bias occurred in the most recent period.

In the future, we plan to compare such agreement using historical residence over the 20-30 years prior to diagnosis, in order to validate the long-term exposure to pesticides in subjects.

Keywords: Exposure assessment, questionnaire, geographical information system, epidemiology, information bias, case-control study, Cohen's kappa coefficient

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C04. Colon cancer: more fiber more protection. Systematic review and metaanalysis

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ences, Unit of Public Health, University of Perugia, Perugia, Italy

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Introduction: Colorectal cancer is the 3rd most common cancer worldwide. It represents 10% of all cancers excluding non-melanoma skin cancer. 54% of all cases occur in more developed countries, in particular Oceania and Europe. Growing evidence shows that about 47% of cases of colorectal cancer can be prevented by eating and drinking healthy, being physically active and maintaining an ideal weight. Although it is not easy to write about colon cancer alone, we performed a systematic review and metaanalysis aimed at evaluating the association between dietary fibre intake and incidence of colon cancer.

Methods: A structured computer search on PubMed was performed for epidemiological studies reporting results of primary research evaluating dietary fibre intake in women and men and risk of colon cancer. This meta-analysis followed PRISMA recommendations. We compared subjects exposed to the highest concentration with those exposed to the lowest one. To perform the meta-analysis we used the software Prometa3®.

Results: The search strategy identified 376 papers, after a screening, 25 studies were included in our meta-analysis. Results suggest a protective effect of the dietary fibre intake on colon cancer ES=0.74 (95% CI=0.67 -0.82), value=0.000, no statistical heterogeneity (Chi2=42.73, p-value=0.011) was found. Conclusion: Colorectal cancer is still one of the leading causes of cancer mortality all over the world. Moreover, there are concurrent or sequential actions involved in the aetiology. These are the reasons why it is important to identify preventive efforts, especially following a healthy life style, such as a healthy diet.

Keywords: Fibre, dietary intake, cancer risk, colon cancer, meta-analysis

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