ever users of OCP, and 20.7% were ever users of HRT. 8.9% had an aunt on the mother’s side with breast cancer, 8.8% had a sister, and 7.3% had a mother. 68.2% were participating for the first time. 88.8% considered the price acceptable. Television messages and a friend were the most common methods of campaign exposure. Women who participated previously compared to those participating for the first time: were significantly more likely to be older, of higher educational levels, non-smokers, and with a family history of breast cancer.

Methods

The study consisted of a point-prevalence survey of adult patients was conducted from 14 July to 16 August 2010 in the “BUSINICO” Hospital, a regional primary oncology care centre, to measure the prevalence of Healthcare-Associated Infections (HAIs).

Methods

The study consisted of a first phase (30 days), conducted using a daily monitoring system ward by ward and a second phase, starting after hospital discharge and lasting 30 days. International standardised criteria and definitions for the surveillance of HAI were used (CDC).

Results

594 patients were surveyed and the mean length stay was 8.5 days (extra stay of 12.5 if HAI). The most common HAIs were primary bloodstream infections (32%), in bone marrow transplantation unit due to coagulase-negative staphylococci), followed by urinary tract (27%), respiratory tract (18%) and surgical site (14%) infections. The use of antibiotics in class I operations (clean) showed that 63 patients (57%) received inappropriate prophylactic treatment. A univariate analysis (HAI vs several risk factors: length of stay, urinary catheter, mechanical ventilation, central intravenous catheter) showed a statistically significant association (p<0.005). The multiple logistic regression only showed a significant correlation between HAI and length of stays.

Conclusions

Data obtained from this study are representative of an individual setting and our selected activity (immunocompromised patients), necessarily leads to different results than a general hospital. Direct costs of hospitalisation have been proposed as a capacity and quality.

P1.76

HAI SURVEILLANCE IN SARDINIA, ITALY: POINT-PREVALENCE SURVEY IN A REGIONAL ONCOLOGY CARE CENTRE

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Introduction

A point-prevalence survey of adult patients was conducted from 14 July to 16 August 2010 in the “BUSINICO” Hospital, a regional primary oncology care centre, to measure the prevalence of Healthcare-Associated Infections (HAIs).

Methods

The study consisted of a first phase (30 days), conducted using a daily monitoring system ward by ward and a second phase, starting after hospital discharge and lasting 30 days. International standardised criteria and definitions for the surveillance of HAI were used (CDC).

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Conclusions

Data obtained from this study are representative of an individual setting and our selected activity (immunocompromised patients), necessarily leads to different results than a general hospital. Direct costs of hospitalisation have been proposed as a capacity and quality.

P1.77

MATHEMATICAL AND AGENT-BASED ANALYSES UPON EPIDEMIOLOGICAL DIVERSITY OF THE INCIDENCE OF 2009 NOVEL H1N1 FLU (H1N1) AMONG SCHOOL CHILDREN WITHIN AND AMONG SMALL REGIONAL COMMUNITIES, SAITAMA, JAPAN

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Introduction

We examined the epidemiological diversity on the incidence of H1N1 within and among small regional communities using surveillance data and agent-based simulations.

Methods

We investigated 27 elementary and junior high schools in Moroyama-town and Sakado-city located in the central part of Saitama Prefecture, Japan. The surveillance system was built on a www server. Agent-based modelling and simulations were performed using AnyLogic 6.5.1 (XJ Technologies, St.Petersburg).

Results

By the end of March 2010, cumulative incidence rate (CIR) of H1N1 among school children reached 30% and 34% in Moroyama and Sakado, respectively. There was no considerable difference between epidemic curves in these neighbouring town and city. On the other hand, in the individual schools, the CIRs ranged 16%–51% even if the schools are closely located. To examine the cause of this diversity, we performed agent-based modelling and simulations assuming unequal probability of infection within and outside of schools. Repetitive simulations gave CIRs of 23%–44%, indicating that the CIRs of the small population communities may considerably vary even though all the agents were assumed to have the same susceptibility to infection.

Conclusion

The granularity of surveillance/analyses/prevention should be finer than in the past to achieve the most effective policies against influenza and similar communicable diseases in the local communities. The cause of this diversity can be explained in part by the stochastic nature of infection transmission processes in the small populations shown by the agent-based simulations. Relevance of the other issues, for example, environmental factors, vaccination, intrafamilial infection, etc, is currently under investigation.

P1.78

BODY IMAGE DISSATISFACTION AT EARLY ADOLESCENCE AND CHANGES IN ADIPOSI THROUGH ADOLESCENCE

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Objective

To prospectively study the effect of body dissatisfaction on changes in adiposity during adolescence.

Methods

We studied 1490 Portuguese adolescents evaluated at 13 and 17 years, under a population-based cohort (EPTeen). Body dissatisfaction was defined as the difference between perceived and desired body image, assessed by Stunkard figures at 13 y. BMI z-scores were computed based on CDC percentiles and body fat percentage (BF%) was assessed using bioelectric impedance. The association between body dissatisfaction and changes in adiposity was computed using linear regression models [regression coefficients (β) and (95%CI)] and adjusted for adiposity measures at 13 y.

Results

At age 13 y, 39% of females desired a thinner image and 16% desired a larger image. Among males the proportions were 34% and 35%, respectively. In crude analysis, compared with adolescents who did not have body dissatisfaction, BMI z-scores significantly decreased among adolescents that desired a thinner image [β = −0.152 (−0.224; −0.080) in females and β = −0.206 (−0.296; −0.117) in males]. The opposite association was found among those who desired a larger image [β = 0.176 (0.081; 0.272) in females and β = 0.113 (0.023; 0.205) in males]. Similar results were found with BF%. However, after adjustment for adiposity measures at 15 y, these associations lose significance.

Conclusion

We found an association between body image at 13 y and changes in adiposity. The desire of a thinner image was associated with a decrease in adiposity and the desired of a large image associated with an increase. However, the associations were dependent on anthropometric measures at age 13.