under investigation. Of these, six were male and white. The median age was 68 years old, ranging from 40 to 77. Four had completed higher education, four high school and two elementary education. Ten died. None of the suspected cases underwent iatrogenic exposure and had no family history of disease. All had cerebellar ataxia, 80% had progressive dementia and extra-pyramidal signs and 60% had psychiatric disorders, pyramidal signs, myoclonus and sleep disturbances. Of the specific tests performed five had typical result by electroencephalogram; six with typical diffusion by MRI/CT; five presented Protein 14-3-3; none of them presented mutation of prion; four patients had spongiform encephalopathy brain by biopsy; four positive by immunohistochemistry for PRNPc. Only three patients underwent necropsy had histological positive result.

**Conclusion**

Since this is a new and yet unknown disease in our country, needs to improve the clinical diagnosis as a way to better understand the natural history of it and thereby promote effective measure control.

---

### P1-131 THE IMPACT OF ATTRITION ON THE REPRESENTATIVENESS OF COHORT STUDIES OF OLDER PEOPLE

**Introduction**

There are well-established risk factors, such as lower education, for attrition of study participants. Consequently, the representativeness of the cohort in a longitudinal study may deteriorate over time. Death is a common form of attrition in cohort studies of older people. The aim of this paper is to examine the effects of death and other forms of attrition on risk factor prevalence in the study cohort and the target population over time.

**Methods**

Differential associations between a risk factor and death and non-death attrition are considered under various hypothetical conditions and data from the Australian Longitudinal Study on Women’s Health (ALSWH) and the Australian Censuses and National Health Surveys are used to illustrate the evolution of bias over 12 years.

**Results**

Between 1996 and 2008, 28.4% of ALSWH participants born in 1921–1926 died, 16.5% withdrew and 10.4% were lost to follow-up. Hypothetical scenarios illustrate how death and other attrition can affect changes in bias over time. For this cohort there were differential associations with various risk factors, for example, being born in a non-English speaking country was associated with non-death attrition but not death whereas being underweight was associated with death but not other forms of attrition.

**Conclusions**

Deaths occur in both the target population and study cohort, while other forms of attrition occur only in the study cohort. Therefore non-death attrition may cause greater bias than death in longitudinal studies. However although more than a quarter of the oldest participants in the ALSWH died, differences from the national population changed only slightly.

---

### P1-132 DESCRIPTION OF A NATIONWIDE AND MULTIDISCIPLINARY PROJECT FOR THE EVALUATION OF INTERVAL BREAST CANCER RATES, DETERMINANTS AND CHARACTERISTICS, IN SPAIN. INCA STUDY

**Introduction**

Interval cancer (IC) rate, risk factors and biological characteristics have been scarcely evaluated. In January 2010 started a multicentric project with the aim to estimate rates and determinants of IC and to compare their characteristics with those detected in the routine screening mammography.

**Methods**

Information from women aged 45/50 to 69, participating in seven population-based screening programs in Spain from January 2000 to December 2006, was collected. The cohort was followed-up to June 2009 for cancer (IC and screening) identification. Three protocols were defined: (1) To describe the joint database format and architecture, and for the achievement of variables, including women and tumour-related data (prognostic factors and biomarkers expression); (2) To unify IC diagnosis criteria and identification process; (3) A radiological protocol for mammogram’s review and IC classification, based on European Guidelines.

**Results**

A database with information of 1,580,058 mammographies from 759,604 screened women has been built. 94.2% were analogical and 5.8% digital mammographies. A total of 4,656 screen-detected cancers and 1,479 IC have been identified. For IC identification, which is not finished, databases of screening programs have been linked with poblational and hospital-based cancer registries and data from active case search.

**Conclusions**

The database will allow us to evaluate women’s and screening determinants for IC (including true interval and false negatives cancers), and to compare tumour characteristics between IC and screen-detected cancers. This information will be useful to improve the efficiency of screening programs and the breast cancer classification, and could offer new insights on cancer prevention for specific subsets of women.

---

### P1-133 TOBACCO CONSUMPTION AMONG ADOLESCENTS IN RURAL INDIA: WHERE AND HOW TOBACCO CONTROL SHOULD FOCUS ITS ATTENTION?

**Introduction**

The objectives of the present study were to study the pattern of tobacco use among rural adolescents (15–19 years) and to find out reasons for use and non use of tobacco products in rural central India.

**Material and Methods**

In the present community based research, triangulation of qualitative (free list, focus group discussions) and quantitative methods (survey) was undertaken. The findings of qualitative assessment and the Global Youth Tobacco Survey (GYTS) questionnaire were used for development of locally relevant questionnaire. Assuming the rough estimate of rural adolescents’ proportion, for knowledge and practices of study variables as 0.5, 95% CI and 5% precision, the minimum sample size required was 384 which was inflated by 10% to cover non-response. A team of trained medical personnel interviewed 385 adolescents (92% response rate) by paying home visits. After survey, six focus group discussions were undertaken with adolescent boys to bridge gaps in information and develop a conceptual framework of pro-tobacco influences.

**Results**

About 68.3% boys and 12.4% girls had consumed any tobacco products in last 30 days. Among boys, 51.2% consumed it...