From 436 respondents, 68.1% of them reported using SPSS version 15.0.

Methods Respondents were considered as having Computer Vision Syndrome (CVS) if they reported at least one of the vision symptoms as in the questionnaire. Analysis was aimed to explore ergonomic risk factors that may contribute to the prevalence of CVS.

Results From 436 respondents, 68.1% of them reported Computer Vision Syndrome (CVS). χ² Test showed that CVS was significant with gender, education, duration of computer usage, position of monitor to user, computer screen glare and computer monitor level. Exploring the OR, significantly higher odds for CVS were found among respondents who used computer more than five hours per day (OR: 1.8, CI 1.2 to 2.3), not facing computer screen while computing (OR: 2.9, CI 1.9 to 4.4), computer screen glaring (OR: 2.7, CI 1.4 to 5.1) and high monitor level (OR: 1.5, CI 1.0 to 2.4).

Conclusions Prevalence of computer vision syndrome was high (two in every three). Using computer more than 5 h per day, not facing computer screen while computing, screen glaring and high monitor level may predispose someone to get CVS.

Introduction Malaria is a global health problem. It is endemic in 10 of the 11 member countries of the WHO South-East-Asian Region, including Indonesia. In 2008 there were 2.4 million laboratory confirmed cases and 400,000 deaths from malaria in Indonesia. Based on the Basic Health Census, the national incidence of malaria in 2010 was 22.9 per 1000 population. This study aimed to describe the predictors of malaria occurrence in individuals aged 15 years and over.

Methods Data from the Basic Health Census for 177,920 respondents were analysed using cross-sectional methodology.

Results Multivariate analyses found that age, gender, home wall type, region type, home proximity to rivers, forests or beaches, residence in a high-human density area, proximity to farms or plantations, use of bed nets, use of repellent and chemo-prophylaxis predicted malaria occurrence.

Conclusions The findings from this study support the use of repel- lent by persons living in high risk areas, and argue for the Ministry of Health to improve coverage of malarialogist in rural areas and enhance vector control. Further studies using a case-control design are needed to assess the association and interplay between the various factors.

Introduction The “Computer Vision Syndrome” (CVS) is one of the health effect related to the activities while on computer work. This problem is commonly overlooked and neglected therefore this study was aimed to explore ergonomic risk factors that may contribute to CVS.

Methods Using a cross-sectional study, university staff (academician and support staff) that used computer at least 2 h per day at work was interviewed using guided questionnaire to get information on sociodemographic, eye symptoms and possible contributing factors. Respondent’s workstations were assessed for ergonomic factors. Respondents were considered as having CVS if they reported at least one of the vision symptoms as in the questionnaire. Analysis was using SPSS version 15.0.

Results From 436 respondents, 68.1% of them reported Computer Vision Syndrome (CVS). χ² Test showed that CVS was significant with gender, education, duration of computer usage, position of monitor to user, computer screen glare and computer monitor level.

Conclusion Blacks have significantly higher rates of leg amputation with significantly lower rates of both endovascular and surgical revascularisation. Asians have significantly lower rates of amputation and revascularisation. These variations warrant further investigation.
Methods A cohort of HIV positive patients who had initially tested non-reactive to the TST were followed up for the period between November 2007 and February 2010. The Kaplan–Meier method was used to estimate the probability of not repeating the TST and Cox’s Regression analysis used to analyse the factors associated with the time until TST was repeated. Cox’s multivariate analysis was stratified according to the hospital the patients were followed, as this variable did not respect the principle of proportionality of risk.

Results The probability of not repeating the TT by the end of the follow-up period was 42%. The variables that remained associated with repetition of the TT in the final Cox multivariate model were: aged 40 years or more, BMI between 18.0 and 24.9, being female, and years of schooling.

Conclusion The analysis identified groups of individuals who should be the target of interventions aiming to ensure the TT is repeated following an initial non-reactive test in individuals infected with HIV.

**P2-496** AN INTERACTION OF SOCIAL SUPPORT AND REMOTENESS IN THE PREDICTION OF PSYCHOLOGICAL DISTRESS
doi:10.1136/jech.2011.142976m.23
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Introduction The influence of social support on mental health outcomes may vary with remoteness in Australian communities. However, the potential variation of determinants of mental health with remoteness has rarely been directly examined. The current research aims to examine the association of social support and distress with remoteness.

Methods Community cohorts from rural and urban New South Wales were combined (N=5924; mean age=61.1 yrs; 44.2% Male). Standardised scores were used to facilitate assessment of participant satisfaction with social support networks as measured by the Duke Social Support Index and Interview Schedule for Social Interaction. Remoteness was assessed using a continuous measure, the Accessibility and Remoteness Index of Australia. The association between demographic characteristics, social support, remoteness, the interaction of social support and remoteness, and psychological distress (cut-off >24 on the Kessler 10) was studied using logistic regression.

Results Younger age (OR 0.99; 95% CI 0.98 to 0.99), not being in a married or defacto relationship (OR 1.50; 95% CI 1.19 to 1.95) and decreased social support (OR 0.48; 95% CI 0.45 to 0.53), but not gender or remoteness, significantly predicted psychological distress. There was a significant interaction of social support by remoteness (OR 1.12, 95% CI 1.05 to 1.22).

Conclusion Social support displayed a differential effect on distress outcomes across urban and rural environs. These results suggest that remoteness and associated community characteristics may moderate the protective influence of social support and that urban environments may be particularly influenced by very low levels of social support.

**P2-497** SELF-REPORT OF ORAL HEALTH IN THE ELDERLY AND ASSOCIATED FACTORS
doi:10.1136/jech.2011.142976m.24

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Background The self-report of oral health is an index of subjective functional, social and emotional well-being related to oral status, and is an important determinant of the demand for dental services. This study aimed to assess this outcome and associated factors among the elderly.

**Methods** A cross-sectional study was conducted with 876 participants in a representative sample of elders (65 years or older) in Campinas, Sao Paulo, Brazil. Dental examinations followed criteria standardised by the WHO for epidemiological surveys on oral health. The self-report of oral health used the GOHAI—Geriatric Oral Health Assessment Index. Individuals were classified by socio-demographic characteristics, dental status and the prevalence of biological frailty. Data analysis used Poisson regression models, considering sample weights and the complex structure of cluster sampling.

**Results** Among participants, 18.3% preserved more than 20 teeth; 38.2% wore full dentures in both arches, 8.5% needed a denture in at least one dental arch. The average GOHAI index was high: 33.9 (maximum=60.0). Preserving more than 20 teeth, using denture in both arches, not needing such treatment, presenting with no alteration of oral mucosa and no signs of biological frailty were significantly associated with better self-perceived oral health (p<0.05).

**Conclusions** The assessment of self-perceived oral health allowed identifying the main factors that associate with this outcome. This tool may contribute to the planning of dental services, instructing strategies for health promotion aimed at an improved quality of life of people within this age group.

**P2-498** PARENTS’ PERCEPTIONS AND PRACTICES REGARDING CONSANGUINITY RELATED TO β-THALASSAEMIA: A MATCHED CASE CONTROL STUDY
doi:10.1136/jech.2011.142976m.25
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Introduction β-thalassaemia is most commonly genetically transmitted disorder in Eastern Mediterranean region including Pakistan. Like other recessive disorders, prevalence increases through consanguinity; Pakistan Demographic and Health Survey reports 50% consanguineous marriages. Perceptions about consanguinity in our population have recently not been studied. Objectives were to determine consanguinity related characteristics among parents of children with thalassaemia and without thalassaemia visiting a major health centre in Karachi-Pakistan. To compare consanguinity practices among such families and to assess susceptibility, benefits and barriers towards thalassaemia.

**Methods** Sample of 340 cases and 340 controls; age-sex matched were selected from February to April 2010. Parents of thalassaemic children and parents of non-thalassaemic children were interviewed after consent. Consanguinity related characteristics followed in families were inquired. Perceptions regarding susceptibility to thalassaemia, benefits and barriers to screening were determined. Conditional logistic regression used to calculate matched OR. Parents’ approaches towards index child were assessed.

**Results** Compared to no cousin marriage, parents of thalassaemic children had more cousin marriages (MOR: 7.8, 95% CI 3.6 to 14.6), and grand-parents cousin marriage (MOR: 2.5, 95% CI 1.8 to 4.4) than controls, more cousin marriages occurred in immediate family in last 5 years of cases than controls (MOR: 2.7, 95% CI 1.7 to 4.3) adjusting for ethnicity defined by mother tongue. Among case parents, (51%) were taking index child to social events and only 21% were satisfied with attitudes of other’s towards index child.

**Conclusion** Study supports hypothesis that among parents of thalassaemic (cases), practices and perceptions favouring consanguinity were greater as compared to parents of non-thalassaemic children (controls).