jp)Association of Sleep Quality and Free Time Leisure Activities inJapanese and British Civil ServantsAli NASERMOADDELI1, Michikazu SEKINE1, Meena KUMARI2, Tarani CHANDOLA2, Michael MARMOT2 and Sadanobu KAGAMIMORI11Department of Welfare Promotion and Epidemiology, Toyama Medical and Pharmaceutical University, Japan and2International Centre for Health and Society, Department of Epidemiology and Public Health, University CollegeLondon, U. K. Abstract: Association of Sleep Quality and FreeTime Leisure Activities in Japanese and British CivilServants: Ali NASERMOADDELI, et al. Department of Welfare Promotion and Epidemiology, Toyama Medical and Pharmaceutical University--Sleepdisturbance as a pervasive health problem can directlyaffect the physical and psychological wellbeing ofindividuals. See the Terms and Conditions (https://onlinelibrary.wiley.com/terms-and-conditions) on Wiley Online Library for rules of use; OA articles are governed by the applicable Creative Commons License 385Ali NASERMOADDELI, et al.: Leisure Activities and Sleep Qualityindex8), were developed to discriminate between goodand poor sleepers and to provide a clinically useful assessment of a variety of sleep disturbances that might affect sleep quality. We assumed that since leisure time activities areculturally specific, external validity of the results couldbe better interpreted if the study were based on dataderived from populations with distinct cultures. Full details of the screeningexamination for the Whitehall II study are reported elsewhere9). Income data were not accessible for the participants in the T city study, and therefore employment categories are reported as the socio-economic status. Participants were informed that by answering and returning the guestionnaires, they would be giving us their informed consent on data analysis. QuestionnaireWe used the Japanese version of the Pittsburgh SleepQuality index (PSQI-J)10). Therefore, factors that affects leep quality could also influence the general wellbeingof individuals. Daily life pattern contains both positive and negative constructs which affect physical and psychological well-being: job stress, effort-reward imbalance, social support, social/leisure activities, family-work interface and personal health behaviors. In this study we assessed whether participating indifferent leisure or free time activities was associated withsleep quality in two populations of civil servants. In thisregard we assessed the association in the two differentsocieties of Japanese and British civil servants. MethodsSubjectsIn this cross-sectional study we evaluated 2,080 civilservants working in departments related to themunicipality of T city in Toyama Prefecture, Japan, in the spring of 2001. This study was in collaboration with the Whitehall II study9) which was set up to investigate the degree and causes of the social gradient in morbidity and mortality in a cohort of civil servants in London. From the Whitehall II civil servants, 6,873 (66.7%) subjects (phase 5, 1997) for whom we had complete information on sleep problem scores were entered into the analysis. Setting a validated cut-off point of 5.5 for the PSQI-J global score and the upper tertilepoint for the Jenkins' sleep problem scale, we conducted logistic regression analysis to assess the association between leisure time activities and sleepquality. The PSQIgenerates 7 components (range of score 0-3): sleepquality, sleep latency, sleep duration, habitual sleepefficiency, sleep disturbances, use of sleeping medicationand daytime dysfunction. Higher .scoresindicate poorer sleep quality