HEALTHIER WORKERS, HAPPIER WORKERS

SAFETY MANAGEMENT SYSTEMS: PEER-TO-PEER RATINGS IN THE SHARING ECONOMY

Abstracts

Result Vocal effort was associated to school degree, showing an increasing at the primary school where the pupils are noisier. A significant association was found between the sound level evaluated 15 cm from the speaker’s mouth and the noise level (coefficient=1.45, p value=0.016). Multivariable linear regression models explained the sound pressure level emitted by the speaker (SPL) by phonation percentage and reverberation time. Average reverberation times at 1 kHz were 0.8 and 2.3 s, while average STI evaluated by a theoretical model, were approximately 0.6 (sufficient) and 0.4 (poor), in treated and untreated classrooms, respectively. In untreated classrooms the SPL was on average 30% higher (p=0.041).

Discussion The high phonatory load of teaching is significantly worsened by the classroom inadequate acoustic parameters. Long reverberation times and, consequently, poor speech intelligibility, high noise levels and vocal effort are significantly related. Improved acoustic design of the classrooms would reduce the risk for vocal apparatus pathologies.

HEALTHIER WORKERS, HAPPIER WORKERS’ PROGRAMME: A PERSON-CENTRED APPROACH TO APPROACHING HEALTH & SAFETY AT THE WORKPLACE FOR BUS-DRIVERS IN SINGAPORE

Introduction 54% of Singapore’s workforce are 40 years and above. Keeping this ageing population safe and healthy is crucial. As part of Singapore’s Action Plan for Successful Ageing, we focused on sectors with a higher prevalence of lower-income mature workers with limited access to healthcare. They have low to moderate health literacy and fare poorer in health. Their unstructured workplaces with multiple shift patterns make it difficult for them to participate in structured programmes. One of our priorities is the transport sector. Using a person-centric approach, we aimed to impact bus drivers by understanding their needs and addressing both age- and work-related issues through a customised programme brought to their doorstep.

Methods 2114 bus drivers from 2 market leaders were recruited. The holistic programme comprised:

i. Onsite 9 month Health Intervention Programme (n=1,114) Basic profiling showed higher disease rates. Fasting blood Chronic Disease Health Screening was conducted at 4 am at depots with a lifestyle survey. Using the results, bus drivers received monthly group health coaching at interchanges, where they build practical skills to manage chronic disease & bodily pain, and other OSH issues like glare. 8 months later, a post screening was conducted to track improvements.

ii. Workplace Risk Assessment (n=1,000) conducted by OH specialists over 3 phases: risk identification, evaluation & management. This involved evaluating occupational hazards at depots, interchanges and within bus cabins, assessing actual driving, surveys on ergonomics & fatigue and focus groups with supervisors & staff.

iii. Mental Wellbeing Training~90% of supervisors trained to pick up mental wellbeing issues in staff and make suitable referrals.

Results Our person-centric approach was well-received and results were encouraging. ~50% of those with abnormal screening results improved in at least 1 chronic condition by post-screening. Significantly, 1 in 4 improved from abnormal to normal health status in 9 months. After Workplace Risk Assessment, short-term interventions like driving ergonomics training and sunglass issuance have been put in place. Longer-term recommendations for national policies have also been submitted.

Conclusion Peer-to-peer rating systems are created in complex circumstances of pressure from Uber and passengers. If drivers freely exercised their choice to decline unsafe rides, they could lose access to the Uber app and their income source. Overall, ratings were a source of stress for drivers and not an indicator of safety.