city of Curitiba, PR, the State of Paraná 2008 Knowledge Olympics. One of the many goals of this event was to make young people aware of health preventive practices. One of them, created by SESI was the "Citizenship Square", where participants received information on the many different areas of health such as Speak Pathology. The adolescents were invited to answer the Brazilian version of the Youth Attitude to Noise Scale (YANS) questionnaire in order to study their attitude towards noise. Complementing the questionnaire other subjects were considered related to hearing, family history of hearing alterations, experience with buzzing, ear infections and/or pain and possible temporary buzzing after different activities. Teenagers' habits and the use of ear protective devices were also appraised together with demographic data. Descriptive statistics was used to characterize demographic data while Fisher's and Square Chi were used for the other analyses. Results: From a total of 316 questionnaires only 125 were used for having been fully answered without erasures. The 125 teenagers included in the study were of both genres (68% male and 30.4% female), with an average age of 16.6 years. They were from fundamental and medium level schools of several municipalities of Paraná. Regarding the youths' hearing history it was noticed that 34% of the adolescents present buzzing and they considered themselves sensitive to the noise. It is worth to stand out that 107 (85.6%) of the teens said that they don't worry before going to shows or even discos and that they had had precedent experiences of buzzing after resonant events. 75.2% said they never use any hearing protective equipment. At 0.05% (5%) significance level there were no significant differences between boys and girls. On resonant habits, 46.4% of the sample said that they hear music daily using ear phones; 34.4% hear music with house sound equipment in high volumes. Significant results (p < 0.05%) between genders were found in sporting and nautical activities as wel

#### POSTER SESSION II - DATE: 31/3/2010 TIME: 8H00 - 18H00 - PANEL 7

# PARENTS' AND PEDIATRICIANS' KNOWLEDGE REGARDING NEONATAL HEARING SCREENING: A STUDY IN SAPIRANGA, RS

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Abstract: Neonatal Hearing Screening (NHS) is recommended for early detection of hearing impairment. This study's goal was to verify the knowledge of a group of parents and pediatricians of the city of Sapiranga, Brazil, about this procedure. The city has a population of approximately 86.000 people. The study design developed two questionnaires for parents and pediatricians. Parents answered the questionnaires through interviews at the city's health centers. Due to their time availability, pediatricians received the questionnaires at the health centers and answered them at their spare time. The research group collected the questionnaires at a later date. Fifty parents, 39 (78%) females and 11 (22%) males, participated in the interview. Most parents, 38 (76%), did not have any knowledge about the NHS; 7 (14%) declared that they had "heard about it", but did not know exactly what it was; 4 (8%) knew that it was a test that should be performed after birth and only 1 (2%) affirmed that it was a procedure for the evaluation of hearing of new born children. In 49 births (98%) did not receive any request from the pediatrician for NHS. In the only exam requested, the exam was not made. After these answers, the parents who did not have any knowledge on NHS received a short the newborn babies: to determine if the child is able to hear (74%), to initiate early treatment (24%), and as an important newborn screening test. Regarding the group of pediatricians, there was a low adherence to the study. Of the 12 questionnaires distributed only 4 (33.3%) returned. All professionals affirmed having knowledge of NHS through scientific literature and correspondence from the Brazilian Pediatrics Society. In spite of that, only 1 individual (25%) mentioned referring all his/her patients for NHS. The remaining pediatricians informed that they only referred their patients when there was a family history of hearing impairment, or when there were intercurrences during pregnancy and only when the

#### POSTER SESSION II - DATE: 31/3/2010 TIME: 8H00 - 18H00 - PANEL 8

# NEONATAL SCREENING IN A PUBLIC MATERNITY AND PHONOAUDIOLOGIST PERFORMANCE IN THE PRIMARY HEALTH

Authors

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Abstract: The integrity of the auditory pathways is mandatory for the development of one of the most noble and distinctive functions of the human being, which is language, the basic element for the effectiveness of communication. From the world population below the age of 15, it is estimated that 62 million people have irreversible hearing loss. The specific indicators of risks associated to hearing loss in newborn babies and children, according to the Joint Committee on Infant Hearing (2004), have been used as a parameter in delineating the high and low-risk groups, and according to the neonate rating measures are taken and different procedures are made, aiming always at the best outcome, and, in the detected cases of hearing loss, an early prosthetics is carried out. This is a quantitative retrospective study, characterized by a data collecting research related to the neonate hearing trial, weight and pregnancy age at delivery, and possible risk factors for the hearing loss. The analysis was made up of the organization of the existing data in the reports, such as pregnancy age (in weeks), weight, APGAR score from the first to the fifth minute, vital status, and if the risk factors for hearing loss were present. From the risk factors for hearing loss, the most frequent were: Ototoxicity (34.6%), Low birth weight (12.1%), Congenital Infections (9.4%); Neonate ICU (8.7%); Prematurity (7.7%); Respiratory anomalies (5.2%); Heredity (4.5%); Anoxia/Hypoxia (4.0%); Small baby for the pregnancy age (3.5%); Convulsion attacks (2.8%); Post-term deliveries (1.6%); Respiratory anomalies (1.1%); Precelampsia (1.0%); Craniofacial anomaly (0.8%); Maternal anemia, Incompatible Rh factor and Low APGAR score (0.5%), each one; Advanced mother age, Abortion threat, and Meconial aspiration (0.3%). The issue about the lack of awareness, lack of information on the real and specific effects

# POSTER SESSION II - DATE: 31/3/2010 TIME: 8H00 - 18H00 - PANEL 9

#### MIDDLE EAR PRESSURE VARIATION AND DISCOMFORT IN AIRCRAFT

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Abstract: Introduction: With the progress associated with the aeronautic industry, and the fact that more and more people have been using the aircraft as a means of transport, a growing preoccupation with aspects related to comfort in aircraft is observed. During the processes of take-off, cruising and approach of a flight, the aircraft is submitted to atmospheric pressure variation, which leads to a need for pressure equalization in the aircraft cabin to minimize the discomfort of the passengers and crew who have difficulty equalizing the middle ear pressure with atmospheric pressure. Ear pain and a sensation of auricular plenitude are the most common manifestations related to this pressure variation. Aim: The purpose of this study is to investigate the middle ear pressure variation and discomfort in aircraft. Methodology: An electronic questionnaire was made available on the internet and was completed by 178 persons. Only the questionnaires of those who had traveled at least once by airplane were analyzed and used in this research, which corresponds to 146 persons (52% female and 48% male), 45% having traveled more than 20 times. The negative aspects most emphasized were the space between seats (85%), followed by chair inclination and size (77%). The pressure in the middle ear lay in third place, and was emphasized by 54% of respondents, followed by delays (52%), vibration (45%), noise (42%) and others. It is important to observe that 126 persons (86%) mentioned feeling discomfort related to the middle ear pressure during the flight. In addition to those who reported feeling discomfort, 61 (48%) felt it most during take-off and 44 (35%) during approach. The ear pressure variation symptoms disappear after landing for 52 (41%) persons. The practice of chewing gum or simulating the movement of chewing was reported by 71 volunteers (56%) as a strategy to minimize the discomfort in aircraft when there is middle ear pressure variation. It is evident from the responses

## POSTER SESSION II - DATE: 31/3/2010 TIME: 8H00 - 18H00 - PANEL 10

# THE IMPORTANCE OF ALERTS ABOUT THE HIGH INTENSITY AND THE RISKS FOR THE HEARING IN MANUALS OF MP3 PLAYERS Authors

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Abstract: Introduction: The normal human ear can distinguish around 400.000 different sounds and the music makes us remember important times in our lives, but if we hear it at Abstract: Introduction: The normal human ear can distinguish around 400.000 different sounds and the music makes us remember important times in our lives, but if we hear it at high sound pressure levels SPL it can cause irreversible damage to our hearing. After studies testifying the damage caused to the ear through excessive exposition to elevated SPL, IBAMA/INMETRO has ruled by means of a Regulation there are other legal ordinances that must be observed by the makers of toys that are in the Brazilian market. Such as n°108, where levels of continual noise and of impact noise (85dB e 100dB in that order) are mentioned. With the technological advance, devices to play music such as MP3 players have been getting smaller, more powerful and more practical and possibly a risk to the hearing of those who use them in an inappropriate way. Aim: to check whether MP3 players come with the information, in their manual with instructions for use, regarding the maximum amplification, in dB, the duration of its battery, the alert about high intensity and time of exposal, the risks of offsetting a hearing loss chain and ultimately if this information is easily seen in the manual. Methodology: The instruction manuals of ten referred national and international brands of MP3 players which were found in five Brazilian websites for on-line sale. The instruction manuals for these selected brand MP3 players have been read and the following have been looked for: Maximum amplifying; Time that the battery lasts; The existence of an alert or warning with regards to the potential risks of hearing loss, versus the time of exposal and high intensity; Easy visualization of all this information. The data have been nanlysed in a descriptive way. Results: It has been observed that 30% of the MP3 brands mentions in their instruction manuals the maximum amplifying which is 90dB to 120 dB. With regards to the time that the battery lasts we noticed that 90% of the MP3 brands analysed indicate the maximum time of use of the battery, which varied betw

# POSTER SESSION II - DATE: 31/3/2010 TIME: 8H00 - 18H00 - PANEL 11

#### COMPLIANCE WITH REGULATORY STANDARDS OF BRAZILIAN MINISTRY OF LABOR RELATED TO THE HEARING BY THE COMPANIES OF PLASTIC OF JABOATÃO DOS GUARARAPES AND RECIFE/PE

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