**ISA ISPID  
  
Abstract Submission  
  
Nº: 250**

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| Topics: **SIDS/SUID** |
| Type: **Poster** |
| **What risk factors for SIDS are medically complex infants exposed to at home?** |
| **Wong, Daniel** 1; **Paes, Bosco**2; **Lanctot, Krista**1; **Li, Abby**1; **Mitchell, Ian**3 *1 - University of Toronto. 2 - McMaster University. 3 - University of Calgary.* |
| **Introduction**  Premature infants have a higher risk of SIDS than term infants. Hence it is important to ensure that parents are aware of avoidable risk factors such as prone sleeping, infant exposure to smoking, artificial feeding, and sharing a sleep surface with an adult. To aimed to examine the exposure of preterm and term infants to avoidable risk factors for SIDS using the Canadian Registry of Synagis (CARESS).  **Material and Methods** CARESS is a database of infants who have received ≥1 dose of palivizumab for RSV prophylaxis. High-risk subjects are followed monthly until the end of the annual RSV season. Two recent RSV seasons (2013 – 2015) collected additional information about infant sleep patterns. We compared Term and Premature infants, both with medical co-morbidities, aged ≤ 6 months at enrollment. Results were analyzed using Chi-square tests, Multinomial logistic and Cox regression.  **Results** Demographics, smoking exposure, feeding history and sleep history are shown in Tables 1-3. Number (%) is depicted for each.  **Table 1. Demographics, comorbidities and smoking exposure**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | **Term (N=670)** | **Preterm (N=2526)** | **χ2** | **df** | **p-value** | | Male | 357 (53.3) | 1451 (57.4) | 3.728 | 1 | 0.053 | | Caucasian | 478 (71.3) | 1657 (65.6) | 7.882 | 1 | 0.005 | | Comorbidities | | | | | | | Chronic lung disease | 45 (6.7) | 65 (2.6) | 27.352 | 1 | <0.0005 | | Congenital Heart Disease | 261 (39.0) | 4 (0.2) | 1048.2 | 1 | <0.0005 | | Other | 364 (54.3) | 22 (0.9) | 1425.1 | 1 | <0.0005 | | Smoking Exposure | | | | | | | Maternal smoking | 62 (9.3) | 337 (13.3) | 8.116 | 1 | 0.004 | | In household | 164 (24.5) | 689 (27.3) | 2.120 | 1 | 0.145 |   **Table 2.** **Feeding patterns**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | **Term** | **Preterm** | **χ2** | **df** | **p-value** | | Exclusive breastfeeding | 233 (36.0) | 634 (26.9) | 20.480 | 1 | <0.0005 | | Exclusive formula | 165 (25.5) | 635 (27.0) | 0.546 | 1 | 0.460 | | Both | 248 (38.3) | 1070 (45.4) | 10.347 | 1 | 0.001 |   **Table 3. Sleeping surface**   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  | | **Term** | **Preterm** | **χ2** | **df** | **p-value** | | **Enrolment** | | | | | | | | Bed Type | Bassinette | 150 (27.7) | 767 (37.6) | 18.411 | 1 | <0.0005 | | Crib | 290 (53.5) | 809 (39.7) | 33.594 | 1 | <0.0005 | | Adult bed | 49 (9.0) | 136 (6.7) | 3.628 | 1 | 0.057 | | Position put down to sleep | Supine | 478 (88.7) | 1702 (83.5) | 8.865 | 1 | 0.003 | | Prone | 18 (3.3) | 180 (8.8) | 18.110 | 1 | <0.0005 | | Side | 43 (8.0) | 157 (7.7) | 0.046 | 1 | 0.830 | | **Contact 6** | | | | | | | | Bed Type | Bassinette | 10 (8.7) | 46 (13.9) | 2.103 | 1 | 0.147 | | Crib | 95 (82.6) | 266 (80.4) | 0.279 | 1 | 0.597 | | Adult bed | 7 (6.1) | 9 (2.7) | 2.799 | 1 | 0.140 | | Position put down to sleep | Supine | 87 (75.7) | 289 (87.6) | 9.254 | 1 | 0.002 | | Prone | 9 (7.8) | 23 (7.0) | 0.094 | 1 | 0.760 | | Side | 19 (16.5) | 18 (5.5) | 13.702 | 1 | <0.0005 |   **Conclusions** These two infant groups are followed closely by medical personnel, yet are still exposed to known risk factors for SIDS. There were few differences between the first and sixth contact. Specifically, over 12% were put to bed in unsafe sleep positions, more than 25% were exposed to smoking and few were exclusively breast-fed. All health care professionals must reinforce safe sleep practices at every health care encounter, especially if infants are already medically compromised. |
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| **CONTACT** | |
| Name: | **Ian** |
| Lastname: | **Mitchell** |
| E-mail: | **imitche@ucalgary.ca** |
| Country: | **Canada** |
| Institution | **University of Calgary** |
| Cellphone: | **1-403-473-6272** |
| City: | **Calgary** |