British Society for Paediatric Dermatology

926

IMPACT OF DIVERSITY IN TRAINING RESOURCES ON SELF-CONFIDENCE IN DIAGNOSING SKIN CONDITIONS ACROSS A RANGE OF SKIN TONES: AN INTERNATIONAL SURVEY

¹Shaarna Shanmugavadivel, ²Danilo Buonsenso, ¹Jo-Fen Liu, ³Tessa Davis, ⁴Damian Roland. ¹University of Nottingham; ²Department of Women and Child Health and Public Health, Fondazione Policlinico Universitario A. Gemelli IRCCS, Rome, Italy; ³Paediatric Emergency Department, Royal London Hospital, London UK; ⁴Paediatric Emergency Medicine Leicester Academic (PEMLA) Group, Children's Emergency Department, Leicester Royal Infirmary, Leicester, UK

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Background There is increasing recognition of the lack of diversity representation in all areas of medicine, in particular within medical education. Studies assessing diversity of skin tone image representation among textbooks and major scientific journals showed that the majority of images reported are in children with light skin tones. However, the impact of the lack of diversity of skin tone representation in medical resources on the ability of healthcare workers to recognise childhood skin conditions has not been explored.

Objectives To assess diversity in medical training resources and its impact on self-confidence in diagnosing skin conditions on different skin tones of healthcare workers across the globe.

Methods Participants were asked to log in to the online platform (www.dftbskindeep.com) and self-declare the following information: continent of practice, ethnicity, profession, specialty, years of experience, majority Training Resources (white skin, a mix of skin tones, darker skin tones only), and confidence in diagnosing skin conditions. Data analyses were performed using IBM SPSS 26.0 for Windows (IBM Corp, Armonk, NY USA). Categorical variables were presented as proportions, and Chi-squared or Fisher's exact tests were used to compare the distribution between groups as appropriate. A p-value of <0.05 was deemed statistically significant in all analyses.

Results 600 eligible participants were included in the analysis.

Demographics

Participants responded from all continents, although Europe (56%) and Oceania (23%) were the most represented. The majority of participants were white/Caucasian (69%). 439 (73%) were clinicians, mostly paediatricians (37%), emergency doctors (22%) paediatric emergency doctors (12%) and a minority were dermatologists (3%). Just over half of participants (56%) reported at least six years of practice since graduation.

Training resources

Participants were asked to report the majority of training resources used during their training. 441 (74%) reported that only white skin was usually represented, while resources including a mix of skin tones (24%) or other skin tones (3%) were rarely used.

Self-confidence

When diagnosing skin conditions in darker skin tones, participants reported that they are 'generally uncertain if correct' in 43% cases, 'sometimes uncertain but clinically safe' (43%), and 'confident across a range of skin tones' in a minority of cases (5%).

Self-confidence levels were associated with geographical location (higher in Africa (4/14, 29%) and Latin America (1/9,

11%), ($P < 0.001$); diversity of training resources used (higher with a mix of skin tones (15/144, 10%) or darker skin tones only (3/15, 20%) (< 0.001); with longer working experience (6 to 10 (9/188, 5%) or >10 years of practice (18/159, 11%) ($P < 0.001$) and with specialty (higher in dermatologists (9/17, 53%, $P < 0.001$). Self-confidence was very low among paediatricians, emergency medicine and paediatric emergency medicine specialists (<5%). Ethnicity did not seem to be associated with self-confidence ($P > 0.05$).

Conclusions Our study provides further support of the lack of diversity in training resources used by healthcare professionals on a global scale. Moreover, our findings provide preliminary evidence that this lack of diversity affects self-confidence in diagnosing skin conditions on a variety of skin tones.

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928

MISSED AND DELAYED NEWBORN BLOOD SPOT SCREENING IN SPECIALIST HOSPITALS AND NEONATAL UNITS

Helen Lewis-Parmar, Michele Seddon, Christine Cavanagh. *Public Health UK*

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Background Delayed diagnosis means delayed initiation of treatment for screen positive babies in the newborn blood spot screening (NBS) programme which can have a significant impact on long term clinical outcome. The need to repeat a sample because the initial sample is of insufficient quality for testing in an important contributor. These 'avoidable repeats' are monitored at maternity unit level as a key performance indicator. To check that NBS samples have a result in the recommended timeframes all maternity units in England use an IT system called the newborn blood spot failsafe solution (NBSFS). In North West England half of all delays in initial blood spot samples are for babies in a hospital setting. Babies that need to be admitted are more likely to have a screening positive condition and are also those that are the most likely to have a delay in initial sampling.

Objectives

- Comparison of avoidable repeat rates for babies in hospital settings compared to those in the community at the time of sampling
- Make recommendations for quality improvement in the timeliness of NBS screening completion for inpatient babies.

Methods Review of newborn blood spot failsafe solution data to see how it can be used to provide assurance of the completion of screening for babies in hospital at the time of sampling

Identification and analysis of laboratory data from one North West laboratory to calculate an avoidable repeat rate for babies that are in hospital at the time of sampling.

Feedback from quality assurance visits on processes to prompt timely initial blood spot screening and any repeat samples for babies on neonatal units and other inpatient settings.

Results NBSFS is incomplete for recording of inpatient status. The field is not mandated and the use of the term NICU does not allow for babies in other settings e.g. children's