department(ED). With serious games, the mechanism of learning is thought to be via the gameplay experience. Objectives built into gameplay are aimed at teaching players about a specific concept; in this case, we hoped to teach players about interprofessional collaboration and basic mechanics that drive flow in the ED. However, before a player can be taught, he or she must be engaged and have a positive gameplay experience. From the GridlockED gameplay, we aim to explore how a players gameplay experience related to observed actions while playing the game, including participating in decision making and keeping the team organized. Methods: From April-August 2017, participants were invited to play 4 turns of a GridlockED game session. They were video recorded during gameplay. After playing the game, they were surveyed using the previously derived Game Experience Questionnaire (GEQ) to measure their gameplay experience. The videos were reviewed by two research team members (SH, EJ), tallying various observed game actions. We conducted Pearson correlation between players GEQ total score and their observed actions. **Results:** A total of 32 participants (13 attendings, 5 senior residents, 10 junior residents, and 4 nurses) played the game. The average total GEQ was 67.2/132 (SD = 10.7), suggesting most players had a moderately good gameplay experience. The total GEQ score correlated with component subscores within the questionnaire. Overall observed activity correlated well with each observed action subtype. However, the GEQ total score did not correlate significantly with the total observed action (Pearsons r = 0.18, p = 0.32). GEQ total score was found to be moderately correlated to an observation that a player participated in determining strategy during gameplay (r = 0.36, p = 0.04). There was a moderate negative correlation between determining strategy during gameplay and teaching about the game (r = -0.37, p = 0.04) or emergency medicine concepts (r = -0.47, p = 0.04)p < 0.01). Conclusion: The GEQ is internally consistent, but does not have a strong relationship to observed actions, suggesting that game experience does not necessarily correlate with observable actions. This suggests that players may be intellectually stimulated or engaged without necessarily completing any observable actions during

Keywords: education, simulation, serious games

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Assessment of the quality of evidence presented at the Canadian Association of Emergency Physicians annual meeting over a five-year period (2013-2017)

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Introduction: The CAEP annual meeting presents the latest evidence for clinical practice, but there has not yet been an appraisal of the abstracts presented at this conference. Therefore, we sought to evaluate the level of evidence of research presented at the annual meeting, and assess for trends over a five-year period (2013-2017). Methods: We conducted a scoping review that included all CAEP abstracts from 2013-2017, obtained through the Canadian Journal of Emergency Medicine. Two reviewers assessed eligibility and extracted data from abstracts individually, with conflicts resolved by a third reviewer. Qualitative research was excluded. Extracted data included type of presentation (ex. oral, poster), sample size, study design and type of study (therapeutic, prognostic, diagnostic, education, quality improvement, or systems-wide/economic analyses research). A level of evidence (LOE) was assigned using the 2011 Oxford Centre for Evidence-Based Medicine criteria. Results: Abstracts from 2014-2017 have been analyzed thus far, 1090 of which were eligible and 990 included. Inter-rater

agreement for screening and data extraction was high (value 0.87 and 0.84 respectively). Systems-wide/economic analyses research was the predominant type of study (28.6%, 283/990), followed by therapeutic (19.9%, 197/990) and education (19.9%, 195/990). The mean LOE was 2.81 (95% CI 2.77,2.85). The highest proportion of studies were of level III evidence (77.7%, 769/990), followed by level II (9.6%, 95/990) and level I evidence (7.8%, 77/990). 72.1% (124/172) of all level I and II abstracts were presented in 2016 and 2017. A significant change in LOE between years was evident (p < 0.0001, chi-squared). The greatest proportion of level I and II abstracts were lightning oral (41.9%, 72/ 172), followed by posters (36.0%, 62/172). The best average LOE was observed for lightning oral (2.64, 95% CI 2.56, 2.72), with the poorest average LOE witnessed for moderated posters (2.90, 95% CI 2.83, 2.97). A significant difference was present in mean LOE between types of presentations (p < 0.0001, one-sided ANOVA). Conclusion: The majority of abstracts were level III evidence. The lightning oral sessions had the greatest proportion of level I and II evidence presented. Recent years of the conference have also seen the presentation of a greater number of level I and II evidence, which may suggest a shift towards generating and disseminating higher level evidence in emergency

Keywords: evidence-based medicine, level of evidence, quality of evidence

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The role of audit and feedback in the ED setting: are physicians able to accurately predict their own practice?

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Introduction: Prior research has shown that audit and feedback (A &F) can be an effective tool for practice change. However, questions remain about how to optimize A&F. The objectives of this project were to determine if: 1) there are differences in practice between physicians who do, and do not, consent to receive a confidential report on their practice and; 2) if there is a relationship between consenting physicians self-predicted and actual practice. Methods: This was a prospective, cross-sectional study embedded in a larger quality improvement (QI) initiative to align physician practice with best evidence in the emergency department (ED) care of infants with bronchiolitis. All physicians practicing in the ED of a tertiary care pediatric hospital were offered the opportunity to consent to receive an individual, confidential data report on their practice. Prior to receiving their data, consenting physicians completed a survey which asked them to predict the proportion of bronchiolitic patients for whom they ordered diagnostic tests or treatments. We used chi-squared testing to compare the proportion of consenting and non-consenting physicians whose diagnostic test (Chest X-ray (CXR), viral study) and treatment (steroid, Ventolin) ordering was above the median for all ED physicians. We used Pearsons correlation to assess the relationship between consenting physicians self -predicted and actual practice. Results: 56% (37/66) of physicians consented to receive a data report. The median proportion of patients with an x-ray ordered was 20%, 63% of nonconsenters were above the median, compared to 36% of consenters (X2 (1, N=66)=4.91, p=0.03). For viral testing, 31% of patients had a test ordered, with 50% of non-consenters and 50% consenters above the median (X2 (1, N = 66) = 0, p = 1); 11% of patients had steroids ordered, with 53% of non-consenters and 47% of consenters above the median (X2 (1, N = 66) = 0.24, p = 0.621); and 18% of patients had Ventolin ordered, with 60% of non-consenters and 42% of consenters above the median (X2 (1, N = 66) = 2.2, p = 0.138). There was a