attention at two large music festivals. One music festival, Festival2015A, was an EDMF while the other music festival, Festival2015B, featured an assorted array of music genres. The main medical tent was staffed with two EM physicians, two EM nurses, in addition to eight paramedics and 52 EMTs. A physician performed a history and physical exam, and data were then recorded by medical volunteers (figure 1). Data were then analyzed for differences between the two festivals.

**Results:** Festival2015A had a three-day attendance of >75,000 with a PPR of 2.3 per 1000 attendees. Festival2015B had a three-day attendance of >120,000 with a PPR of 1.1 per 1000 attendees. Festival2015A patients were more likely to have dilated pupils, diaphoretic skin and consumed more water. Alcohol and recreational drugs were more commonly abused at Festival2015A. The most common drug abused was MDMA (figure 2). There were no deaths at either event. Transport to hospital rates (TTHR) did not differ significantly (figure 3).

**Conclusions:** Despite a 62.5% greater attendance level at Festival2015B, there were more hospital transports at Festival2015A. While this study is consistent with previous data showing that crowd mood is correlates with PPR, it also suggests that crowd size may be less predictive of PPR. Although the patients at Festival2015A presented with more toxidromes, the TTHR did not differ, supporting the emerging notion that an adequately staffed medical tents can reduce over-burdening the local healthcare system.

**Figure 1.** Type of Drug Use Festival A.

**Figure 2.** Type of Drug Use Festival A.

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**25 Engaging the Audience During Medical Simulation**

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**Background:** Today’s medical students rely on smartphones, tablets and various apps to enhance their individual knowledge. During medical simulation, the audience often passively observes team performance. While much research exists on enhancing simulation performance, little is known about audience learning methods and outcomes. Interactive software could engage observers, providing increased knowledge and skill to all participants.

**Objectives:** To evaluate the effect of using interactive software as a teaching tool for a simulation audience.

**Methods:** Early in their EM clerkship, students participated in a DKA simulation case. One student was team leader, while the others (up to 6) were observers. Students were randomized to one of two groups: Nearpod or control. Nearpod is web or app-based software which allows delivery of interactive content to learners. Students in group 1 used a web-connected device to receive questions and prompts, through the Nearpod software, during the case. Students in group 2 simply observed. All students were debriefed together. 2-3 weeks later, a 2nd DKA sim case was administered. Comparison was made between groups on performance of 7 DKA- specific critical actions. Evaluators were blinded as to group allocation. Goal recruitment is 40 students.

**Results:** To date, 28 students have completed the protocol. Sixteen students have been randomized to Nearpod, 12 to control. Students who used Nearpod accomplished on average 5.06 of the 7 (SD 1.4, 72.3 %) critical actions successfully vs 5.42 out of 7 (SD 1.4, 77.4 %) critical actions for those in the control group. There is no significant difference between groups (p=0.5).

**Conclusions:** Based on the current data, the use of interactive software to engage students during audience observation of high fidelity simulation did not result in increase performance of critical actions during a later simulation case. Further study may reveal ideal learning strategies to enhance observer education.

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**26 Enhancement of Cricothyroidotomy Procedural Competency using Cadaver Autograft**

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**Background:** Cricothyroidotomy is a rare but life-saving procedure required in up to 2% of emergent airways. Emergency medicine residencies frequently instruct this procedure via cadaver training, but cadaver cost and availability