

CONCUSSION BINGO 2017

PROJECT BACKGROUND

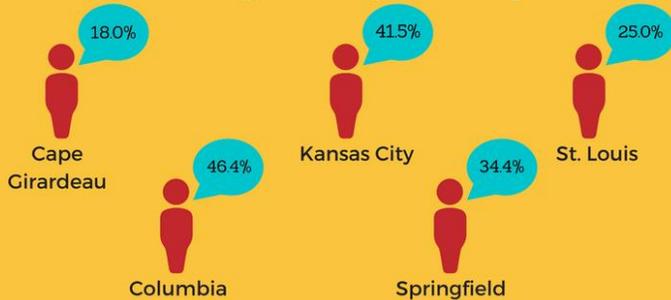
Five regional sports concussion seminars were held across Missouri through collaboration with the Brain Injury Association of Missouri, the Missouri Department of Health and Senior Services, and the University of Missouri Kansas City - Institute for Human Development.

A self-assessment form, Concussion BINGO - Are you prepared?, was shared with all seminar participants with the intent to gather information on if and how frequently Missouri schools implement a variety of TBI screening and education policies and practices.

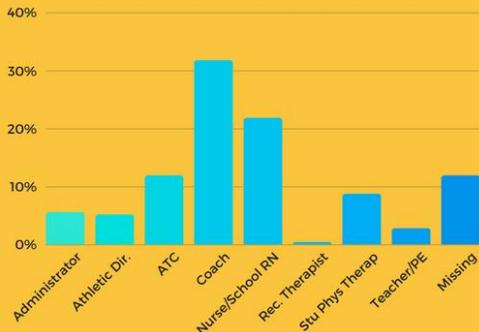
WHO PARTICIPATED?

252 Concussion Bingo forms received from 750 attendees across Missouri

Percentage of attendees who completed Concussion Bingo form by workshop location



Primary roles of attendees who completed BINGO forms



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WHAT IS CONCUSSION BINGO?



As topics were discussed throughout the seminar, attendees were asked to complete the Concussion BINGO assessment (as pictured below) with regard to their concussion management practices within their school or team.

Ratings for each item range from 0 = does not currently implement to 5 = yes, implementing 100% of the time.

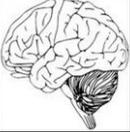
Additional ratings include:

1 = implementing up to 24% of the time;

2 = implementing between 25-49% of the time;

3 = implementing between 50-74% of the time; and

4 = implementing between 75-100% of the time.

Certified Athletic Trainer (Full Time)	Adequately Using Resources (up-to-date)	Ambulance At Some Contests	Minimizing Head Impact Football	Emergency Action Plan
No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes
Adequate Staffing	Parent's Meeting and Education	Team Doctor	Certified Athletic Trainer (part-time)	School Board Policy
No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes
School District Procedures	Administration Meeting and Education		School Nurse Education	Student Athlete Meeting and Education
No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes
Financial Commitment to Best Practices	Return to Learn Form	Ambulance at ALL Contests	Return to Play Form	Baseline Testing
No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes
Emergency Action Plan Practice	Pre-Participation Physical Evaluation Form	School Board Meeting and Education	Safety Equipment Check	Coaches' Education
No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes	No 1 2 3 4 Yes

CONCUSSION BINGO RESULTS

3.8

Overall average rating statewide for both 2016 and 2017. Note: a rating of 3 = implementation of the policy or practice 50-74% of the time.



Concussion BINGO ratings remained relatively stable from 2016 to 2017 throughout each of the 5 regions.





Highest average ratings (4.0) given by Columbia region attendees.



Lowest average ratings (3.6) given by Kansas City region attendees.



Respondents from the Cape Girardeau region reported all items implemented at least 50% of the time.

Columbia, Kansas City, Springfield, and St. Louis region respondents reported having an "ambulance at all contests" was implemented less than 50% of the time, on average. Other policies or practices implemented less than 50% of the time included:

KANSAS CITY

"financial commitment to best practice"

SPRINGFIELD

"team doctor"
"baseline testing"
"school board meeting and education"

ST. LOUIS

"ambulance at some contests"
"school board meeting and education"

AVERAGE STATEWIDE RATINGS



"Physical evaluation form"

- Rated **4.5**
- Highest average rating statewide
- Note: a rating of 4 = implementation of the policy or practice between 75-100% of the time.



"Ambulance at all contests"

- Rated **2.6**
- Lowest average rating statewide
- Note: a rating of 2 = implementation of the policy or practice between 25-49% of the time.

Additional policy or practice items that received an average statewide rating of **4.0** or higher include:

- Return to play form
- Coach's education
- Safety equipment check
- School nurse education
- Emergency action plan

On average, respondents reported that all but one item ("ambulance at all contests") were implemented at least 50% of the time, with a rating of 3 or higher.

OVERALL STATISTICALLY SIGNIFICANT RATING CHANGES FROM 2016 TO 2017



INCREASED RATINGS

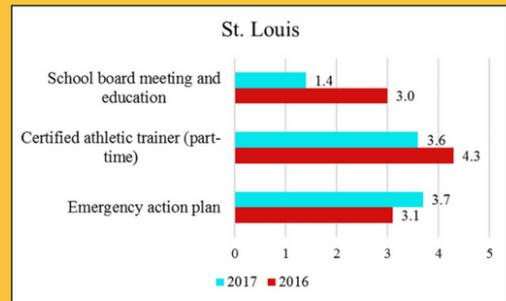
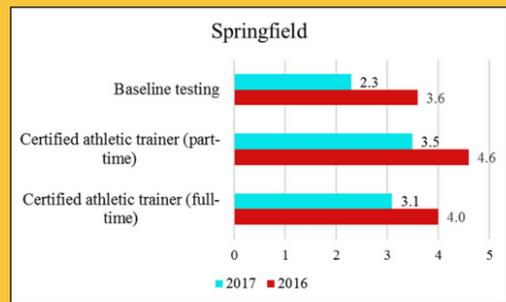
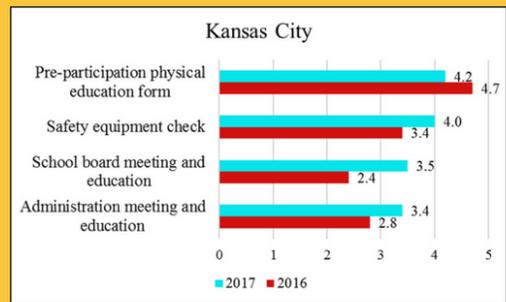
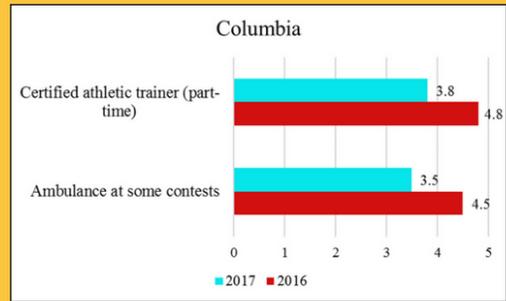
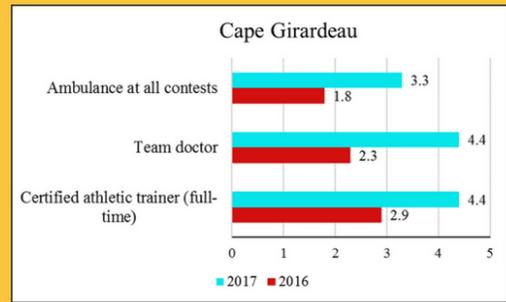
"emergency action plan practice"
"administration meeting and education"

DECREASED RATINGS

"certified athletic trainer (part-time)"
"pre-participation physical education form"



STATISTICALLY SIGNIFICANT RATING CHANGES BY REGION, 2016 TO 2017*



*NOTE: Given the diversity in respondents' professional roles, their knowledge and awareness of current policies and practices within their organization may vary. Moreover, given the low sample sizes from some of the regions, results should be interpreted with caution.

