Lessons Learned from an Annual Kids' Art Competition to Promote Antimicrobial Stewardship

Tabitha Reefer¹, Sameh Boktor², Natalie Mueller³, Anne Dodds⁴, Mary Leonard⁵, Courtney Yealy², Nkuchia M. M'ikanatha² ¹Pennsylvania Dept. of Health., Pittsburgh, PA, ²Pennsylvania Dept. of Health., Harrisburg, PA, ³Cooper Thomas, LLC, Washington, DC, ⁴Keystone STARS, York, PA, ⁵Univ. of Pennsylvania, Philadelphia, PA

Introduction

Antimicrobial Resistance

- Ability of microbes to resist the effects of drugs
- In the US each year, resistance accounts for:
 - 2,049,422 illnesses
 - 23,000 deaths (1)

Antimicrobial Stewardship in Pennsylvania

In collaboration with the CDC Get Smart: Know When Antibiotics Work Program and academic partners, Pennsylvania developed a website to promote antimicrobial stewardship (KnowWhenToSayNo.org)

Objective

Evaluate the use of an annual kids' art competition for ages 3-8 to promote appropriate antibiotic use and increase awareness of the website

Methods

- Competition guidelines direct participants to Pennsylvania Get Smart website (KnowWhenToSayNo.org)
- Various methods were used to promote the competition including:
 - Emails and newsletters directed to childcare facilities
 - Flyers to multiple settings including pediatric clinics, and libraries (Figure 1)
- Review of participant records for the 2013 kids' art competition
- Google Analytic's records on visits to the site were reviewed to assess site visit correlation with kids' competition announcement (Figure 2)

Conflict of Interest: None of the authors have a conflict of interest.







Results

- 388 entries submitted from 31% (21 of 67) of counties in Pennsylvania.
- 1/3 of entries were mailed from childcare facilities.
- Ages of participants:
 - 24% under four years of age
 - 36% ages five to six
 - 40% ages seven and eight
- Following the announcement of the winners on the website:
 - 81.4% of the 1,839 unique visitors were new • Bounces in activity correlated with: Competition announcement in
 - - 2013
 - February 2014



Figure 1: Current year art competition flyer

Funding: This work was supported in part by the Commonwealth of Pennsylvania and the CDC's Get Smart: Know When Antibiotics Work Program through a cooperative agreement: CDC ELC-04040.

September, October, and November

Receiving of prizes to winners from state's Physician General in

Results (cont.)

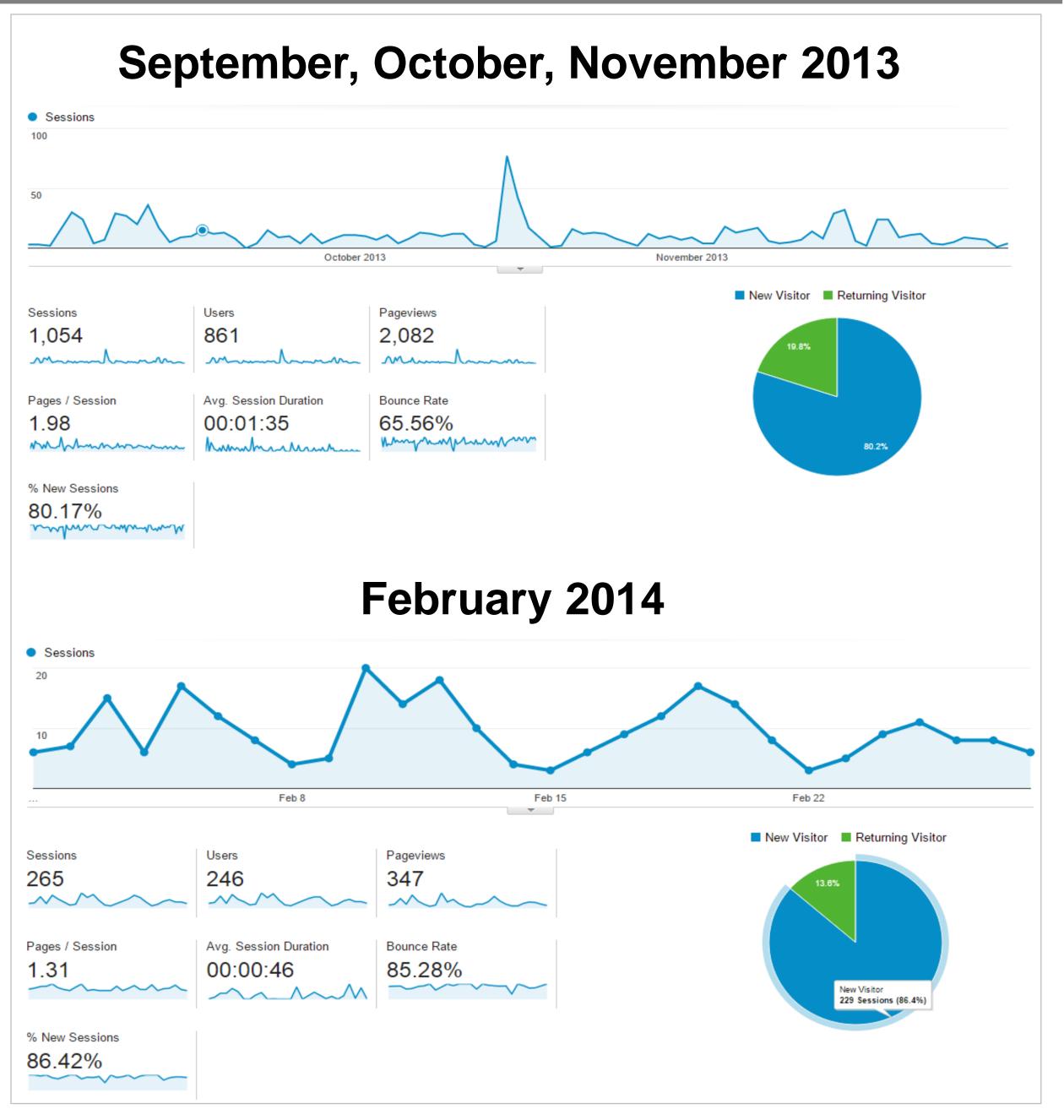


Figure 2: Google Analytics data showed the majority of users were new to the site.

Conclusion

- childcare providers
- Increases in website traffic correlated with drawing competitions announcements
- Given the size of Pennsylvania, the evaluation process and ability to disseminate the information to all residents, including low income populations, was a limitation of this study.
- Suggesting that this approach could be used to increase awareness of online public health interventions

References resistant_bacteria.pdf





Nkuchia M'ikanatha, DrPH, MPH (717) 787-3350 nmikanatha@pa.gov

Competition engaged children, parents, and

More research is needed on ways to sustain interest in online resources over time.