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)

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 September, October, and November 2013
    - Receiving of prizes to winners from state’s Physician General in February 2014

Results (cont.)

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

Conclusion

- Competition engaged children, parents, and 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
- More research is needed on ways to sustain interest in online resources over time.

References:


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