#EC: Implications for public health practice and research from a content analysis of tweets about emergency contraception

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Learning objectives

- 1. Define characteristics of social media, including Twitter
- Identify at least two ways which Twitter can be used by public health professionals focused on reproductive health issues
- Describe the methodology applied in a content analysis of English-language tweets related to emergency contraception (EC)
- 4. Explain statistically significant differences found in tweet content and the related implications for public health practice and research

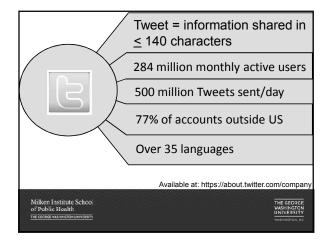
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Social media

 Used by individuals as well as groups to share information on a variety of topics

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Study purpose

Explore differences regarding how emergency contraception is discussed through Twitter

- 1. males versus females
- 2. holidays
- 3. weekends
- 4. shared

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Methods

- Sample
 - English-language Tweets posted March 2011
 - "emergency contraception"
 - "morning after pill"
 - "day after pill"
- Coding
- · Reliability analysis

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Content categories

- Sender characteristics
- EC
- Twitter-specific tools (ie RT, #)
- Specific words of interest (ie abortion)
- Focus of tweet

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Content categories



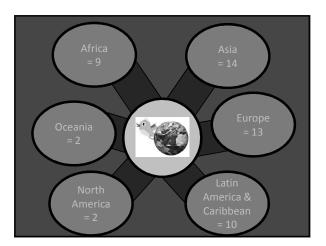
- Focus of tweet
 - News
- Seeking advice
- Access

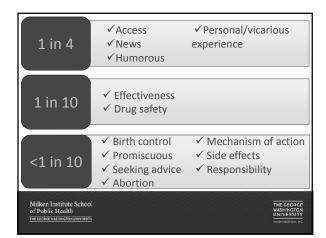
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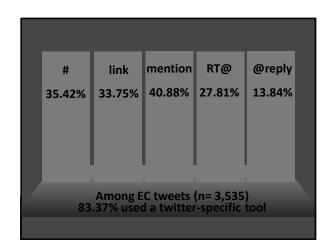
- ❖ EC responsibility
- Humorous
- ❖ Mechanism of action
- ❖ Effectiveness
- Drug safety
- Personal/vicarious

experience

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Males versus females

Females were more likely than males to discuss the following:



- -Birth control (7.12% vs. 4.2%; p = 0.002)
- -Side effects (2.0% vs. 0.87%; p = 0.024)
- -Responsibility (1.56% vs. 0.35%; p = 0.003)

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Par San Son	*Seeking advice: OR = 1.94; p = 0.01 *Personal/vicarious experience: OR = 1.87; *Humorous: OR = 1.56; p < 0.001	p < 0.001
WEEKEN)!	•Seeking advice: OR = 2.45; p = 0.001 •Personal/vicarious experience: OR = 1.57; •Humorous: OR = 1.46; p = 0.005	p = 0.001
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Shared tweets

Content most often shared: (p < 0.001)

- humorous tone (31.0%)
- personal/vicarious experience (28.5%)

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Shared tweets • promiscuity (1.54; p = 0.03) • birth control (1.39; p = 0.04) • personal/vicarious experience (1.26; p = 0.01) • side effects = 5.62 (p < 0.001) • drug safety = 4.15 (p < 0.001) • news = 2.24 (p < 0.001)

Limitations

- 1. Snapshot of how EC is framed in Twitter
- 2. Language of tweets limited to English
- 3. Challenge of gathering user characteristics
- 4. Possibility of different interpretation due to short length of Tweets
- 5. Valence not possible to assess

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Implications for research

- 1. Analyze valence of content
- 2. Repeat analysis to explore changes over time
- 3. Explore differences in discussion about EC on other holidays
- 4. Explore differences in other languages

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Implications for practice

- 1. Leverage public in spreading messages about EC
- 2. Question the need to tailor messages by gender
- 3. Reconsider messaging about EC news
- 4. Consider ways to incorporate humor and personal/vicarious experiences into EC messages

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