# **Abortion Data Privacy: Analysis of Third Party Tracking**

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### **Background**



Privacy is an increasing concern for individuals seeking or providing abortions after the ruling in *Dobbs v Jackson's Women's Health Organization* 



3<sup>rd</sup>-party requests occur on 99% of hospital [1] and abortion-clinic websites [2]



Personalized ads use 3<sup>rd</sup>-party tracking across multiple sites and can reveal medical information

#### **Research Question**

Are there more personalized, abortion-related sensitive advertisements for abortion-seeking individuals than for generic Internet users?

#### **Methods**

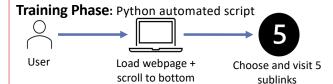
#### **Study Overview**



Training Phase: User profiles built by visiting



Testing Phase: Ads collected and analyzed



#### **Training Websites Visited:**

Condition	Websites visited
Control A: Generic	110 Generic
Control B: Generic	110 Generic
Exp. A: Abortion Clinic	10 Abortion Pill + 100 Abortion Clinic
Exp. B: Abortion Clinic	10 Abortion Pill + 25 Generic + 85 Abortion Clinic
Exp. C: Crisis Pregnancy Center (CPC)	10 Abortion Pill + 100 CPC

#### **Testing Phase:** NodeJS automated script



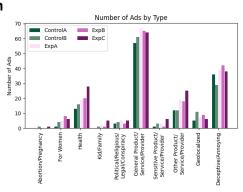
#### **Testing Websites:**

- 10 general news websites
- 10 health information/misinformation sites

### Results

#### Ad Distribution

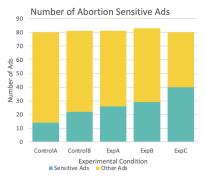
More healthrelated ads for experimental conditions than control



#### **Ratio of Sensitive Advertisements**

Sensitive Ads = ads related to info that could be used to imply a pregnancy/abortion, e.g., abortion products, babies, women's products

Ratio of sensitive ads is higher for abortionseeking conditions than control



## **Conclusions**

- More health-related and sensitive ads shown for individuals visiting abortion-related webpages, indicating 3<sup>rd</sup>-party tracking is occurring across these websites
- Understanding these risks is necessary for users to make informed choices about websites to visit and privacypreserving behaviors to engage in

### **Future Directions**

- Minority, Gender, Income Status: are individuals tracked differentially based on gender/race/socioeconomic status?
- **Privacy Policy analysis**: Do abortion websites contain privacy policies and is data sharing in line with policy?
- Privacy Preserving behaviors: are there extensions that reduce third party tracking?