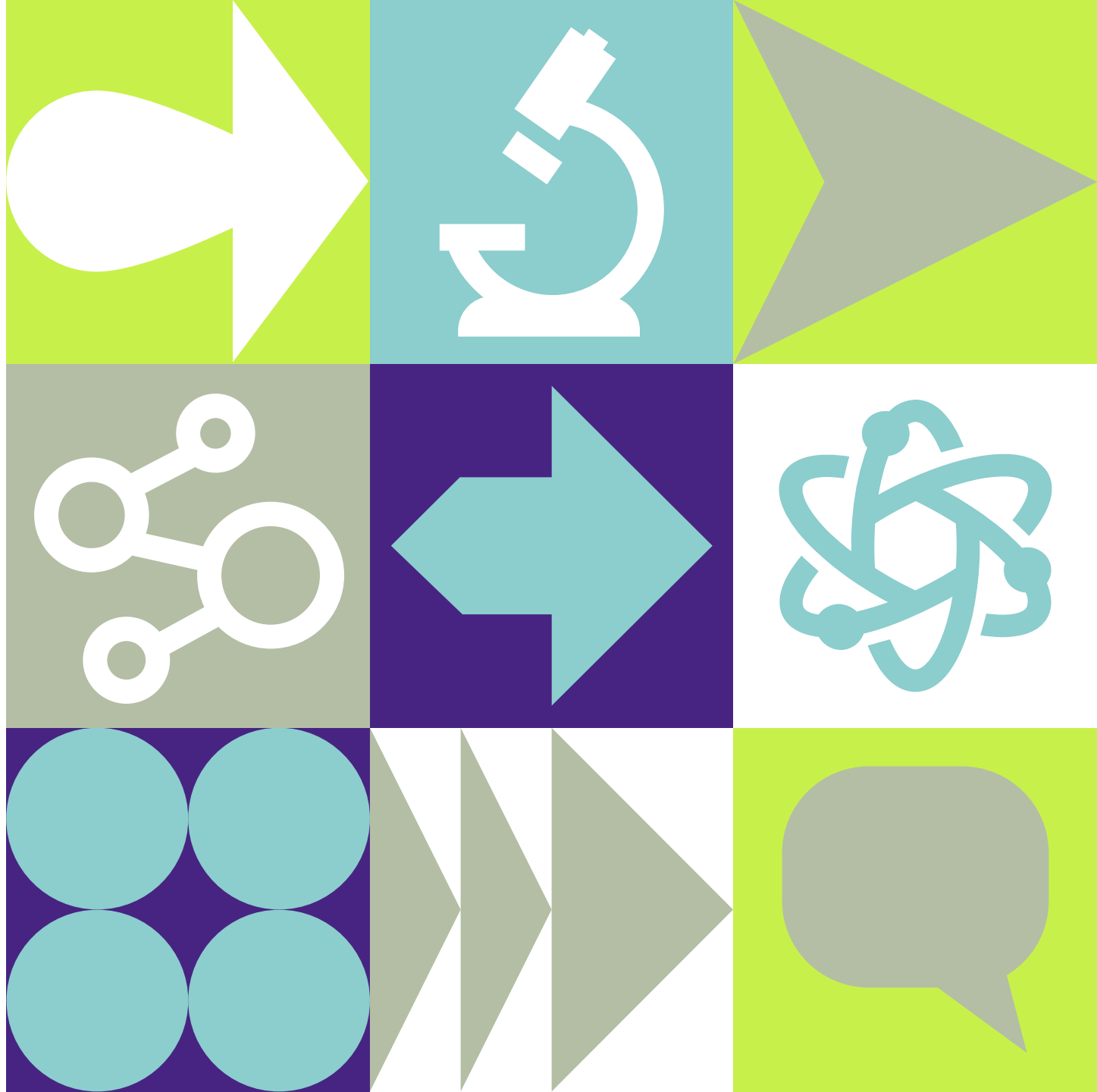




 **IAS 2021**

# Preferences for implementing long- acting injectable pre- exposure prophylaxis among cisgender men who have sex with men in the US

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# Preferences for implementing LAI-PrEP among cisgender MSM in the US

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# Disclosures

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# Long-acting injectable PrEP

- IM injection taken every 2 months vs current daily oral pill
- Anticipated approval and introduction to the US & other markets

**HPTN 083 Study Demonstrates Superiority  
of Cabotegravir for the Prevention of HIV**

Jul 7, 2020

# Objectives

To explore potential perceived facilitators of and barriers to LAI-PrEP uptake among a national sample of cisgender gay, bisexual and other MSM

# Methods

- Data Source: American Men's Internet Survey
  - Large annual, cross-sectional online survey since 2013
  - n=10,000 cisgender men
  - Ages 15+
  - Identify as gay, bisexual, and/or reported sex with men
  - US & territories
- Discrete-Choice Experiment (DCE)

# Discrete Choice Experiment

- Common methodology to explore participants' preferences for a particular healthcare service or product
- Participants are presented with a series of product features with varying levels
- DCEs allows for an examination of all attributes and levels relative to one another, as opposed to head-to-head comparisons

# DCE Design: Attributes and Levels

LAI-PrEP ATTRIBUTE	LEVEL 1	LEVEL 2	LEVEL 3
Side effects	Low	Medium	High
Treatment burden	Every 6 months	Every 3 months	Every 2 months
Out-of-pocket expense	\$0	\$25	\$100
Location of services	Private doctor's office	Sexual health clinic	Pharmacy
Negative judgement risk	High	Medium	Low

**3<sup>5</sup> design, 27 tasks in 3 blocks**

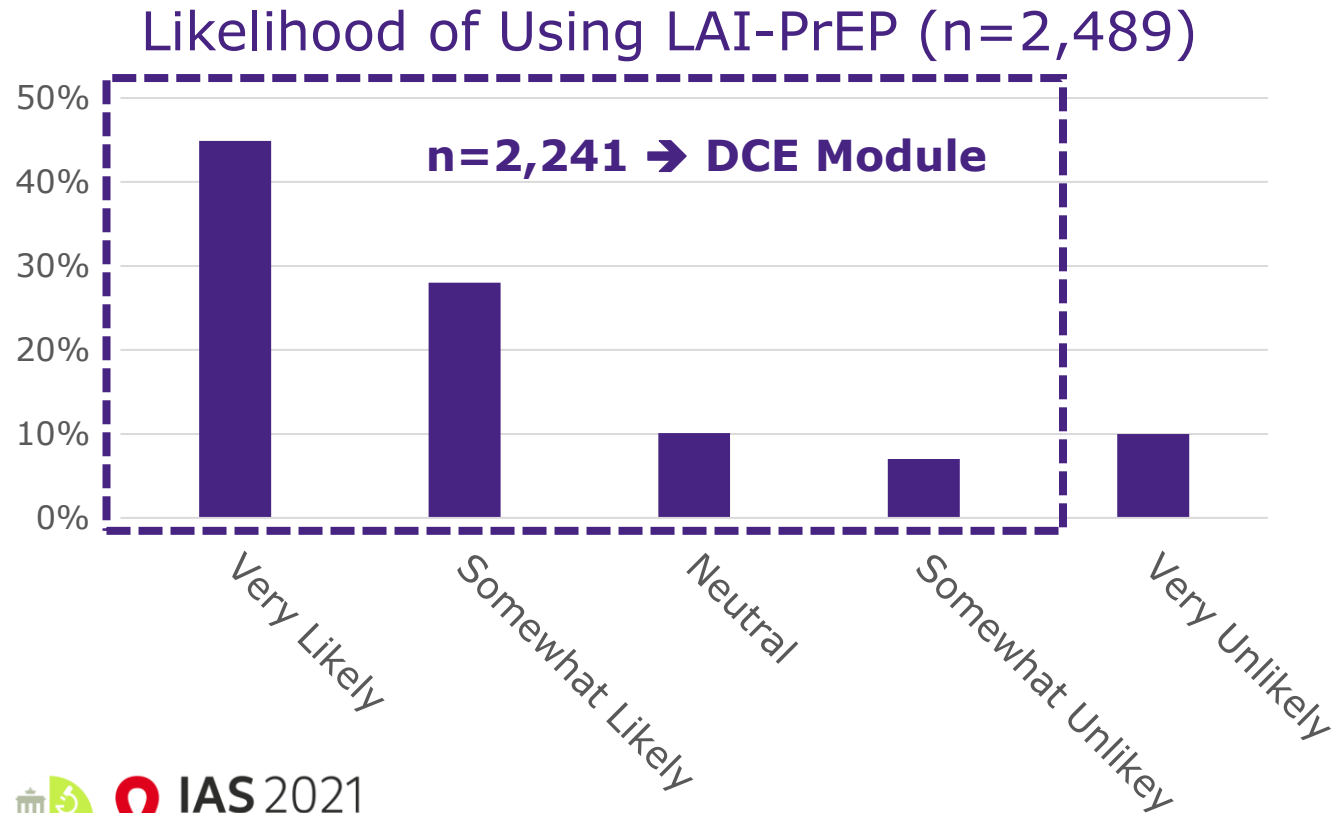


# DCE Example Task

<b>CHOICE A</b>	<b>CHOICE B</b>
Mild side effects	Severe side effects
Injection done every 3 months	Injection done every other month
\$25 out of pocket	\$0 out of pocket
Injection done at private doctor's office	Injection done at a pharmacy
Medium-level risk that others will judge you negatively for being on PrEP	Low-level risk that others will judge you negatively for being on PrEP

For this pair, which characteristics of a PrEP injection would you prefer?

# AMIS 2019 Sample



## Sociodemographics

64% < 30 years old

63% white

78% some university

60% urban/suburban

## Sexual Histories, past 12 months

84% 2+ male partner

73% condomless anal sex

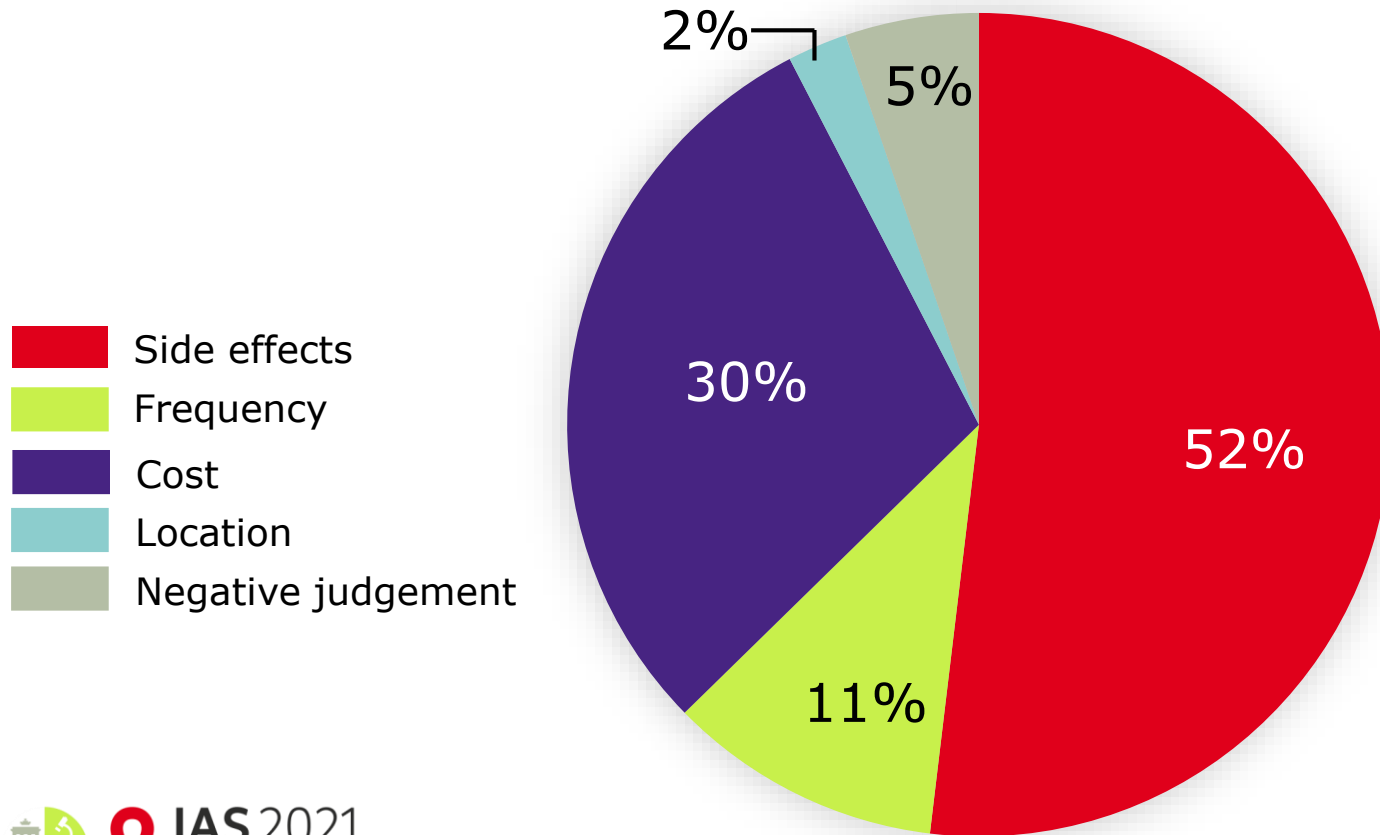
14% STI diagnosis

## Oral PrEP Use

28% past or current use

76% willing to use

# DCE Results: Relative Importance of Attributes



## Most important:

- Avoiding severe side effects
- Avoiding \$100 out-of-pocket costs

## Moderately important:

- Less frequent injections

## Less important:

- PrEP-related stigma
- Location of services

# DCE Results: Willingness to Pay (WTP)

WTP for 1 unit change	USD
Reduce side effects severity	84
Avoid "unit" of negative judgement bias	8.75
Delay injection frequency 1 month	6.60
Increase location privacy	0.37

- Participants were willing to pay more to reduce severe side effects than for any other attribute
- Privacy was of least concern to participants

# Limitations

- **Generalizability**
  - Majority of sample was white, educated MSM
  - Study was limited to individuals with internet access
- Results may not reflect preferences of the larger MSM population
  - Especially of MSM from racial and ethnic minority groups

# Conclusions – Potential Facilitators

- **Frequency** of injections
  - Every 2 months is acceptable, but less frequent dosing would be preferable
  - Emphasis on optimizing adherence, persistence, and reducing clinical burden
- **Of least concern**
  - Location of services
  - PrEP stigma

# Conclusions – Potential Barriers

- Potential severe **side effects** were most important
  - Effective social & behavioral strategies to encourage PrEP usage
  - Effective communication of clinical data
- Out-of-pocket **costs** were the second largest concern
  - Particularly relevant for youth, racial/ethnic minorities, those in lower socioeconomic status who may be in higher risk environments
  - Need for insurance and other subsidies to cover LAI-PrEP

# Related Presentations from AMIS 2019

## **On-demand Oral Abstract:**

- Beckham, et al
- Variation in preferences for long-acting injectable PrEP among US men who have sex with men: A latent class analysis

## **E-poster:**

- Sanchez, et al
- High interest in long-acting injectable HIV pre-exposure prophylaxis among nationwide online sample of United States men who have sex with men, 2019



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