## **CENTRE** for **GAMBLING RESEARCH** at **UBC**

## **Session: Understanding Emerging Forms of Gambling**

2. Migration from loot box use to conventional gambling in a sample of BC video gamers

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a place of mind The UNIVERSITY OF BRITISH COLUMBIA

**Department of Psychology** 

## **Purpose of the current study**

1. Replicate the longitudinal associations in regional sample in BC

2. Test the role of randomness/uncertainty of rewards in the link between gaming and gambling



## **1. Why Replication?**

#### **Confirms of the validity of prior observations**

Raises confidence that a particular claim is true

### Allows for the testing of generalizability

- How well does the observation hold up across different populations?
- Testing a claim in a specific region
  - e.g. heightened public interest in British Columbia, regional data useful for regulation/recommendations

## B.C. completes year-long assessment of video gamers to assess possible correlation with gambling addiction

#### FRANCES BULA >

VANCOUVER SPECIAL TO THE GLOBE AND MAIL PUBLISHED DECEMBER 20, 2019 British Columbia

## Richmond addiction group raises concern over 'loot boxes' in video games



Gaming industry spokesperson disputes idea that the randomized power-ups are a form of gambling

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## 2. Role of randomized rewards; loot boxes vs. direct purchase microtransactions

- Direct purchase microtransaction (DPM)
  - Purchase items directly with in game or real currency



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#### DPM

Loot Box

## **Hypothesis:**

Loot box spending at baseline will predict migration to gambling at a six-month follow up..

AND

this effect will be greater than any predictive link between DPM spending and the initiation of gambling. .

#### **METHODS**

## **Participant sampling**

 Crowdsourced community sample advertised on Reddit and University of British Columbia

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Inclusion Criteria:

- Between the ages of 19-25
- Resident of British Columbia
- Played video games for at least 3 hours weekly

## **Procedure/Questions**

**Pre-Screen** Brief eligibility check: Age? Country and Province of residence? Baseline Survey (T1) Do you currently play video games, if so how often (hrs/week)? Are you familiar with loot boxes; direct purchase microtransactions? Six-Month Follow-up (T2)

## **Procedure/Questions**



## **Procedure/Questions**



#### Results

### **Descriptives (Baseline)**

	Non-Gamblers	Gamblers
N at Baseline	113	109
N at follow-up	64 (57%)*	45 (41%)*
Age	21.7	22.4
Gender	73.4% men	73.3% men
Age started gaming	9.66	14.3
Gaming hours / week	16-20 hrs	11-15 hrs
Familiar with loot boxes	95.3%	84.4%
Purchased a loot box	71.0%	84.4%
Sold an item from loot box	60%	80%
12 m spend on loot boxes (mean)	CAD\$326.11	CAD\$1076 *
12 m spend on loot boxes (median)	CAD\$20	CAD\$400 *

Attrition rate was much higher in BC sample; likely due to sampling from Reddit vs Prolific

Loot box spending is much higher in BC sample

# **Predicting T2 migration to current gambler status**



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Sample: Non-Gamblers (T1)

## Summary/Conclusion

- Study provides additional evidence that greater loot box spending predicts future gambling, in a regional sample based in BC.
  - Greater loot box spending significantly predicted gambling initiation over and above DPM spending
- Looking forward...
  - Randomness/uncertainty of reward as the psychological crux linking video gaming to the initiation of gambling
  - Reverse pathway (gambling -> loot box spending)?
    - Could not test this association here due to lack of non-LB users at T1
    - Possible there is an underlying trait which leads people to prefer random rewards

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# Thank you!



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