

URGENCY: GBD STUDY, 2021/22

2019: 970 miljoen people (1/8) met mentale stoornis

Angst, depressie, verslaving meest voorkomend

> 25% toename tijdens COVID (angst, depressie, verslaving meer gemengd beeld).

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Complexiteit omarmen

 Technologie helpt om mentale gezondheid intensief te meten Interdisciplinair onderzoek (UMH samenwerking 3 faculteiten: wis & natuurkunde, geneeskunde, sociale en gedragswetenschappen)
 Nieuwe modelleer-benaderingen om complexe systemen in kaart te brengen
 Samen met het Institute for Advanced Studies (IAS) UvA

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URBAN ENVIRONMENT ECONOMICALLY
ATTRACTIVE, BUT BAD FOR MENTAL HEALTH

ORDER OF THE PROPERTY OF





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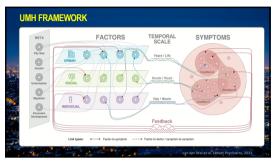






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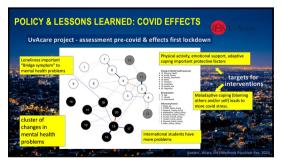






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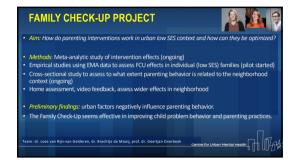


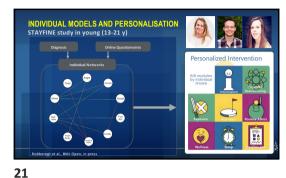




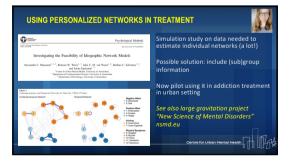
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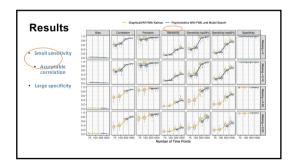






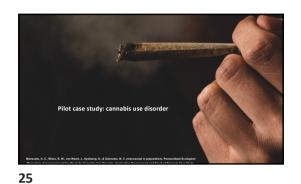
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Application development We developed an application where clinicians can explore the ESM data of their patients and print resulting graphs to discuss with clients. The application allows to: Explore trends of different variables over time Explore histograms of substance use occasions in different locations and with different people Estimate multiple networks investigating different constructs that can influence substance use including a maximum of 6 variables at a time

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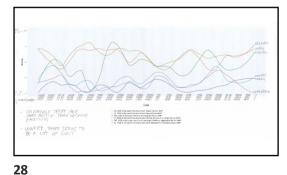


The procedure

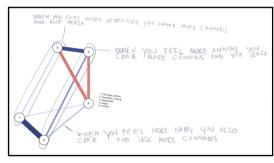
1. Client chose personalized ESM items

- 2. Collected data 5 times per day for three weeks 3. Researcher and practitioner met to explore ESM data using application
- 4. Graphs considered useful for session were selected
- 5. These were printed and discussed with client in intervention session

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THIS SHOWS IN WHICH CONTEXTS CANNABLS IS USED



ESM items

• Mandatory: substance use, craving, anxious, depressed, angry, happy, relaxed, where, with whom • Personalized: choose at least one in each category (Emotions, Cognitions, Behaviors, Physical symptoms, Positivity, Self-written

Examples:

"In the past three hours, how much urge to consume cannabis did you

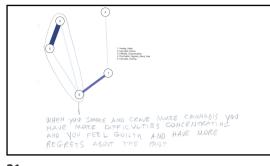
feel? "

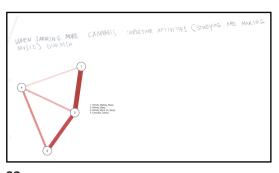
"In the past three hours, how much time did you spend working or

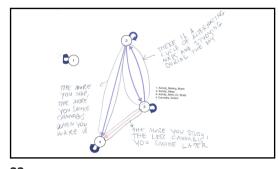
studying?" "Where were you, specifically, when you consumed cannabis? Select all locations that apply."

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SUGGISH, WHEN YOU FEEL MORE SLUGGISH AFTER 3
SUGGISH, WHEN YOU HAP MORE AFTER 3
HOURS YOU NAP MORE CANNABIS.
HOURS YOU NAP MORE CANNABIS.
IS IT A VICTOUS CIRCLE?

Current Study - Small RCT in preclinical population (N=22) - Short intervention (2 sessions) - Two groups: functional analysis with and without ESM and feedback Important difference from case study - Practitioners decide in advance which nodes to include in separate networks based on clinical hypotheses on the client - Study Alms - Interviews and think-along procedure to improve and simplify our tool - Recordings of therapy sessions to analyze communication: are clients who use our tool more actively involved in the therapeutic communication? Is the FA richer? - Preliminary results on therapy outcomes: Can our tool ultimately improve therapy outcomes?

Study Starting September 2023

- Small RCT in patients (N=40)
- Full CBT intervention at clinic
- Two groups: functional analysis with and without ESM and feedback
- Study Alms
- Like preclinical study, but in patients doing CBT at an outpatient clinic

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