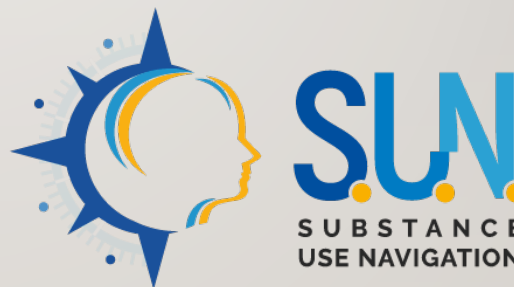


DEVELOPING SUBSTANCE USE NAVIGATION: INTEGRATED EDUCATION AND MOBILE HEALTH TRACKING FOR COLLEGE STUDENTS

BARBARA “BASIA” ANDRAKA-
CHRISTOU, J.D., PH.D.

ANDRIY KOVAL, PH.D.
HEALTH MANAGEMENT &
INFORMATICS, UCF



PARTNERS & RESEARCH PERSONNEL

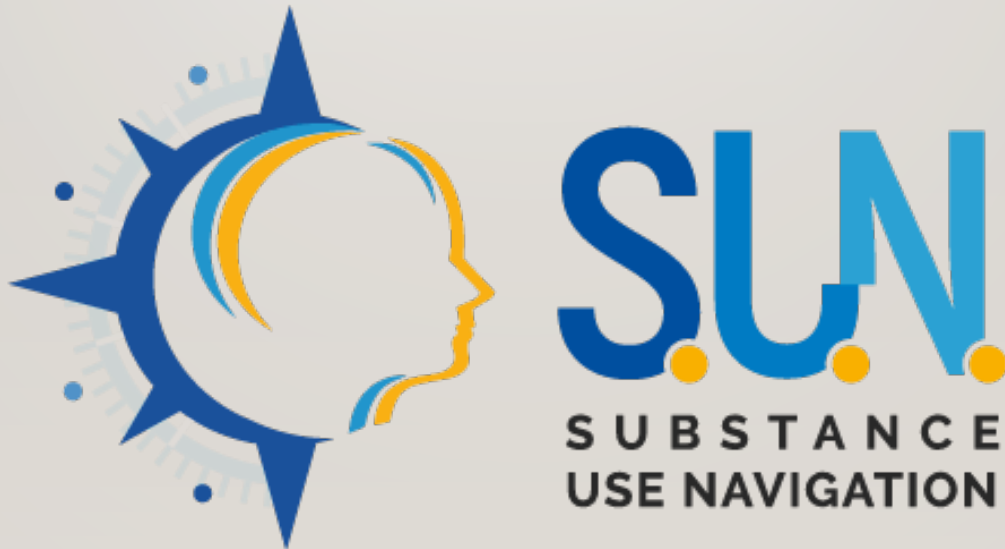
- Jody Madeira, J.D., Ph.D.,
Principal Investigator,
Indiana University
- Basia Andraka-Christou,
J.D., Ph.D., Co-Principal
Investigator, University of
Central Florida
- Andriy Koval, PhD,
Coinvestigator,
University of Central
Florida
- Enfoglobe LLC
(technology vendor)



UNIVERSITY OF
CENTRAL FLORIDA

3

[HTTPS://EXPLORESUN.COM/](https://exploresun.com/)



4 SUN GOALS: COLLEGE SETTING



INCREASE STUDENT
KNOWLEDGE OF SUDS AND
TREATMENTS



PROMOTE POSITIVE
ATTITUDES TOWARDS
PEOPLE WITH SUDS AND
TREATMENTS



IMPROVE THERAPEUTIC
ALLIANCE BETWEEN
STUDENTS & COUNSELORS

5 INTERVENTIONS



Student portal with
educational videos

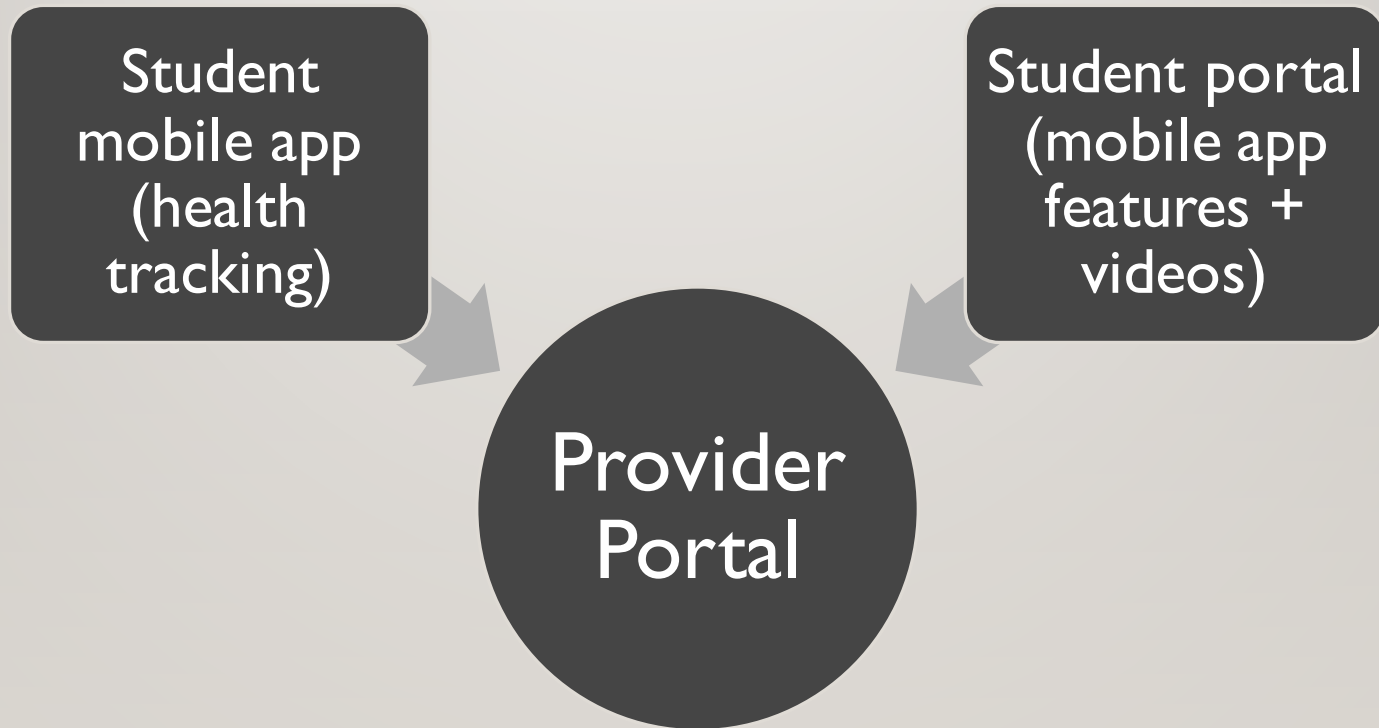


Student mobile health
tracking application



Provider portal (see
mobile data & video
progress)

6 THE SYSTEM



Aim	Intervention(s)	Evaluation method(s)
1) Examine effect of SUD videos on student SUD knowledge/attitudes	Student portal w/ videos	Pre-post test (before video, after video, 3 months later)
2) Examine effect of treatment videos on student treatment knowledge/attitudes	Student portal w/ videos	Pre-post test (before video, after video, 3 months later)
3) Examine effect of mobile health app, student portal (w/videos) & provider portal on therapeutic alliance	Mobile health app, student portal w/ videos, & provider portal	Working Alliance Inventory instrument at enrollment & 1 month later
4) Identify implementation outcomes and barriers/facilitators of SUN	Mobile health app, student portal w/ videos, & provider portal	Interviews w/ counselors & students; SUN usage data; Enlight usability & acceptability survey

8 COMPONENT #1: VIDEOS (IN STUDENT PORTAL)



9 LESSONS LEARNED: VIDEO DESIGN/DEVELOPMENT



3-5 minute videos



Relatable but genderless animated figure



Balanced message (esp. alcohol & marijuana)

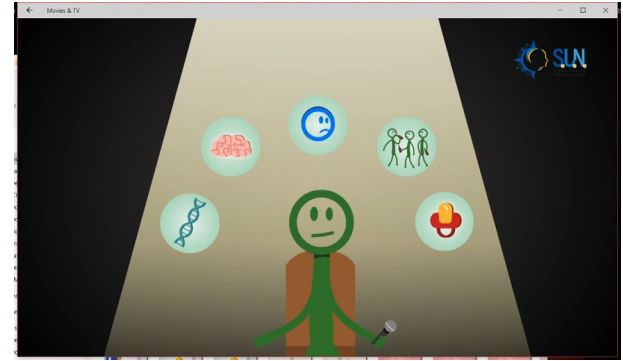


Short-term rather than long-term effects



Narrative story telling PLUS
science

Andraka-Christou, B., Alex, B., Madeira, J. College Student Preferences for Substance Use Disorder Educational Videos: A Qualitative Study. *Subst Use Misuse*, 2019;54(8):1400-1407.



LESSONS LEARNED: MOBILE APP DESIGN/DEVELOPMENT



**8 or fewer
questions per
day; select
time**



**See changes &
relationships
between
variables**



**Toggle option
to “turn off”
sharing w/
provider**



**Originally: just
daily questions
[can share w/
provider]**

How is your day
going? (ordinal)

How is your day
going - Why? (MC)

How are you feeling?
(ordinal)

How are you feeling -
Why? (MC)

How strong are your
cravings? (ordinal)

How confident are
you that you won't
use? (MC)

What have you done
for yourself today?
(MC)



**Additional
[cannot share
w/ provider]**

Resources

Gratitude list

Daily goals list

Free write journal



Is now a good time
to check-in?



Please slide to select your answer.



MAIN MENU



Copyright © Indiana University 2017

Original questions (by advisory board with some student feedback)



Click on the question below
to see analytics for that question

How is your day going?

How is your day going-why?

How are you feeling?

How are you feeling-why?

How strong are your cravings?

How confident are you
that you won't use?

What did you do for yourself today?

BACK

NEXT

Copyright © Indiana University 2017



How are you feeling?



1) literature review for validated instruments → none for this population for daily use on a mobile phone about both SUD and MH



2) Focus grouped 2 facially most appropriate instruments (CHU9D & Warwick-Edinburgh) with students → assessed usefulness, clarity



3) Focus group results from thematic analysis → modified some questions, kept original wording of some questions

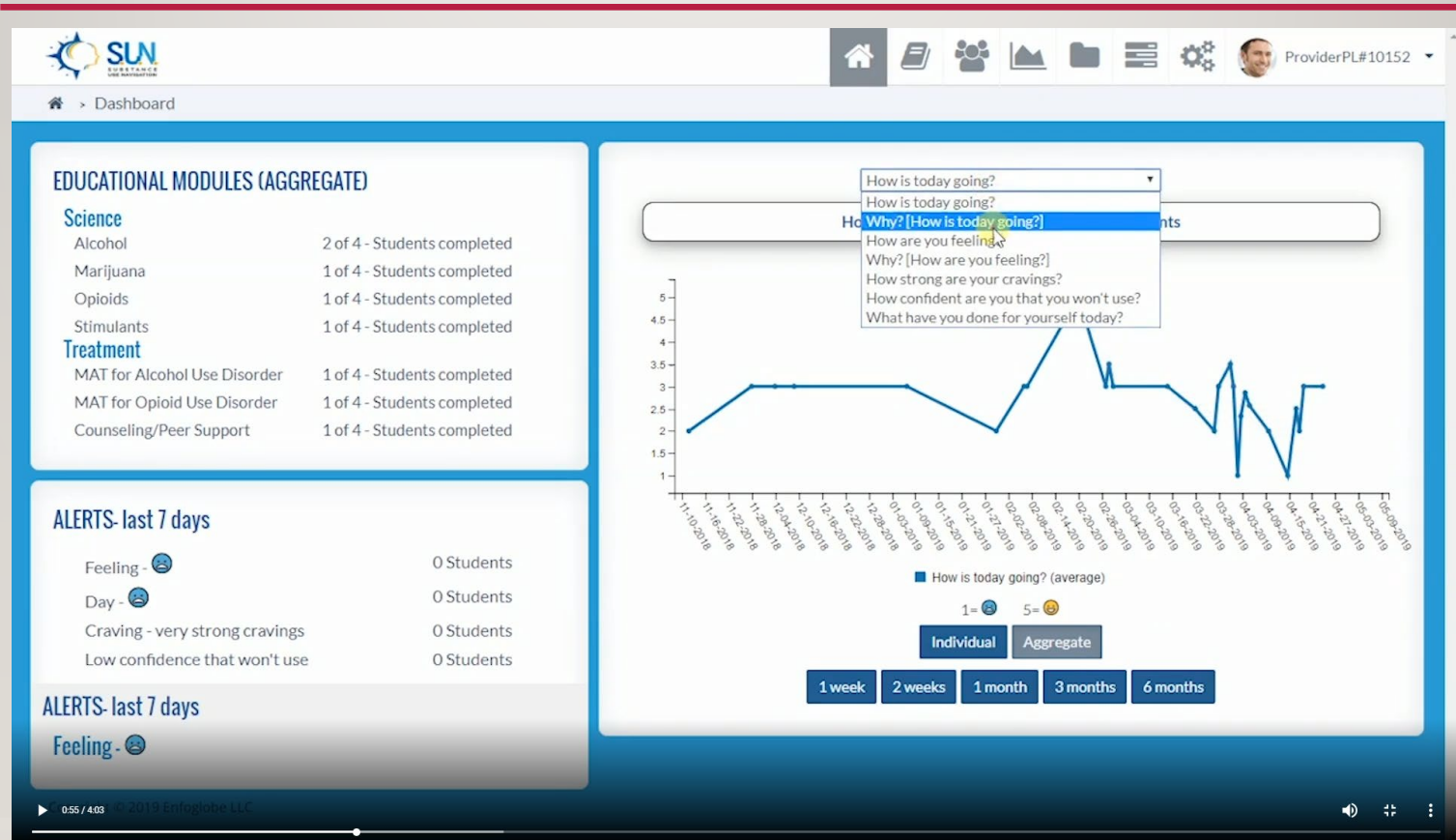


4) Validated new questions using online pilot survey of IU students (compared original validated questions to modified questions, factorial analysis, open-ended feedback requested)

UPDATING MOBILE APP DAILY QUESTIONS

14

15 SYSTEM COMPONENT 3: PROVIDER PORTAL



16 NEW SCALE DEVELOPMENT

See methodological appendix

17 LESSONS LEARNED: PROVIDER PORTAL DESIGN/DEVELOPMENT



No free-writing (i.e. only ordinal or MC)



Integration w/ medical record



42 CFR Part 2 & HIPAA relevant (& misunderstood)
→ provider-provider sharing



Liability concern & alerts



Invite student; not the other way around



More interested in individual level data

18 ADDITIONAL LESSONS



Fitting everything on a mobile app screen → videos in portal only



Lengthy university security review



Need simple but secure registration & sign-in



In person training preferred but difficult to coordinate



Need strong leadership voice at clinic



Include end users in development (customize)

19 NEXT STEPS



Complete IU
Feasibility Study (see
previous aims)



Future: RCT at 2+
universities



www.exploresun.com