Campus Safety CONFERENCE 2021 Be Vigilant

Improve Student
Mental Health and
Welfare: How Schools
Can Leverage
Technology to Help

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About Us





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About this Session

Session Takeaways

- Receive tips to monitor students' activities, engagement, and mood with the help of technology to prioritize early intervention.
- See specific tools that can be used to record aggregate data to help predict issues related to mental health.
- Learn how information delivery can be customized and why tailored messages and platforms are so critical as we consider student mental health especially as we emerge from the COVID-19 pandemic.



What is Situational Awareness?

Being aware of what's happening around you in order to take action to save or improve lives.





Events we are notified about after they occur...



Fire



Burglary



Medical **Emergency**



Armed Intruder



Environmental **Emergency**



Suicide



In any event the goal should be to move from response to prevention.



Early Intervention

Observations and assessments provide us with insights that can change the outcome of a situation.

The COVID/Social Isolation Factor

...60% of high school students answered that their mental health had worsened or worsened significantly. This is concerning because young people's mental health needs were already not being met before the pandemic. In a study from 2017-2018, it was found that "60% of youth with major depression did not receive any mental health treatment."





Imagine what monitoring and compiling information could lend itself to in the way of predicting what might happen in the future, and more importantly how a change in course could prevent bad things from happening to good people.



Observations of a student...

Even when self-reporting is an option, this does not guarantee that all students will take advantage of it or that they will be flagged, so there needs to be redundancy when it comes to monitoring students' mental health.







Grades



Behavior



Involvement, Activities, Social Interaction



Hygiene



Change in Family Dynamics



Change in Friend Dynamics



Physical Changes (ie. Weight loss/gain)



Observers...



Teachers



Other Students



Doctors/ Therapists



Friends



Guidance/School Counselors



Other Parents



Parents or Guardians



Coaches



Bullying Example

Bullying can seriously impact a student's mental health. Giving students the option to self-report this through surveys or a communication portal is a great way to encourage students to ask for help. But monitoring students in these other ways can also help reveal a student that might be experiencing bullying.





By implementing technology that builds situational awareness for and about a student through monitoring behavior and mental health in various ways, schools can help ensure that no student falls through the cracks.



Components of incident prevention

- Observers People or systems that provide critical information
- Observations objective and subjective data derived from observer-provided information, used to paint a picture of student's behavior and trajectory
- Interventions Actions performed to "change course" based on these observations





A multimodal approach to student well being and mental health

Proper intervention requires understanding the root cause of negative behavior.

Observations may be indicative of a root cause, or they may simply illustrate symptoms of an underlying condition or situation.

Therefore, it is important to make many observations from many angles to properly address the root cause.





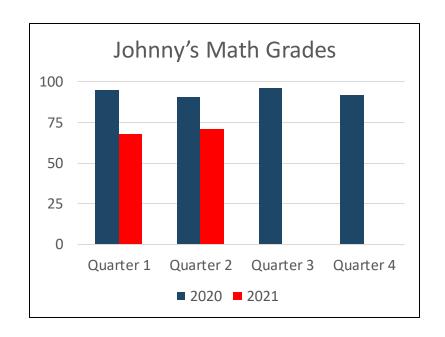
- Johnny begins to skip math class
 - Attendance as a predictor of substance abuse, delinquency, teen pregnancy, dropping out of school, decline in mental health
 - Later violence, marital problems, job problems (Dryfoos, 1990)
 - 75% of chronic truants fail to graduate high school (Ratcliff, 1980)





Scenario 1: Classroom factors only

Historically, Johnny has been a good math student who is engaged during class. But lately, his grades are dropping, he has not been engaged and he's even been skipping class. When asked about these recent events, Johnny tells his teacher that the class material is too challenging.





Scenario 2: Adding in self-report surveys

Johnny completes short, biweekly surveys via his smart phone or tablet as a part of homeroom, which are automatically synchronized with his records.

- This quarter his score on the Beck Anxiety index increased
- His perceived social support, as indicated by the Multidimensional Scale of Perceived Social Support (Cheng et al, 2004), has gone down





Adding in family factors

Why do we start with family factors?

Family factors are particularly strong predictors of truancy leading to delinquency - having siblings with behavioral problems, separation from a parent, having parents who are uninterested in academic achievement (Farrington, 1996)





Scenario 3: Adding in family factors

From after school activities to parent teacher conferences, Johnny's parents are very engaged. There is no reason to believe anything at home is negatively impacting Johnny. Additionally, their self-report surveys indicate that Johnny's behavior at home seems normal.

Here, we hit a dead end - perhaps Johnny really is just struggling with math this quarter.





Scenario 4a: Adding in school/community factors

Johnny was registered on the wrestling team, which just started practicing this quarter. The system indicates that this is Johnny's 2nd year on the team, and that Johnny attended practice but quit the team after a couple of weeks. Johnny's coach adds a note that he was struggling with coursework and didn't have the time. He is unaware of any negative interactions with teammates or any other issues.

Here, again, we hit a dead end. However, there is a clear deviation from baseline given Johnny's past participation.



Scenario 4b: Additional school/community factors

Johnny's teammate witnesses him being bullied by another wrestler in the locker room. The incident is anonymously reported. By automatically cross referencing the



bully with other parts of Johnny's school life, it turns out he is in the same math class as Johnny. This is supported by his observed anxiety and perceived social support from self report surveys (Evans et al, 2017)

When confronted, Johnny admits the reason for his absenteeism and the appropriate interventions are implemented.



Conclusion

Today, systems are secure and connected, allowing for cross correlation between many variables that in the past seem unrelated. With enough data and machine learning, many of these indications can be automated and presented to observers in real time, allowing for swift intervention and better student mental health management.



Questions?





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