

Integrating theories of alcohol consumption: how do drinking motives influence HAPA self-efficacy?



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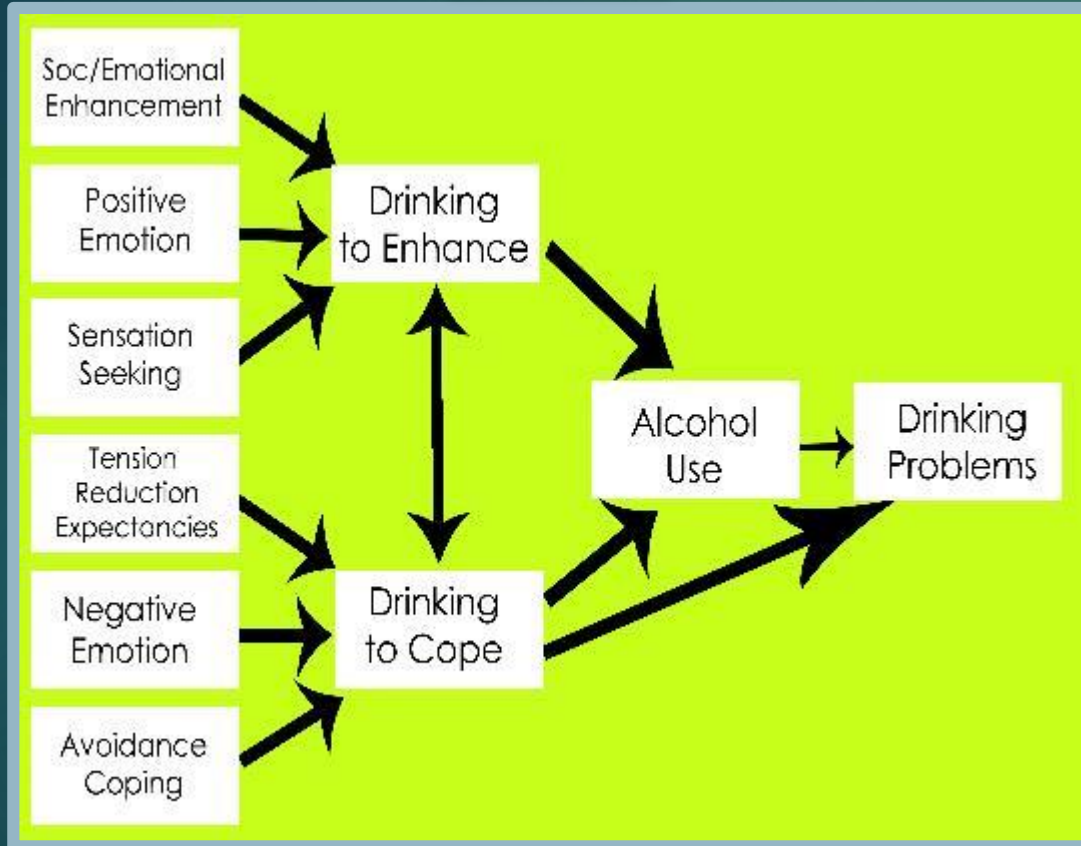
Why integrate MMAU with HAPA?

- ▶ Socio-cognitive models are used to examine drinking behaviour
- ▶ E.g. Health Action Process Approach (HAPA) : Motivation to change drinking behaviour and consume less alcohol
- ▶ Motivational Model of Alcohol Use (MMAU): Motivation to consume alcohol to regulate positive and negative emotions
- ▶ Still substantial variance in drinking behaviour unaccounted for (+ 70%)
- ▶ E.g. HAPA – 23%, MMAU – 28%
- ▶ Integrating models can reduce unexplained variance and provide additional explanations for drinking behaviour



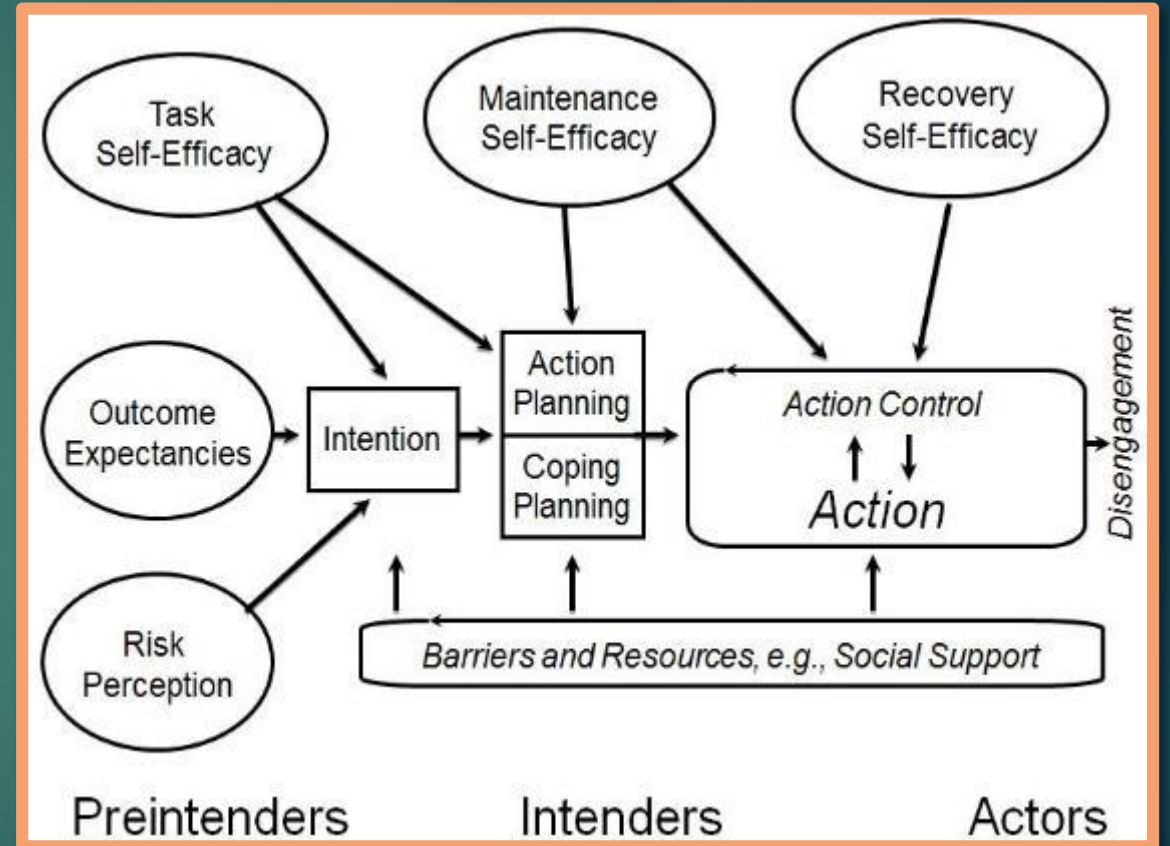
MMAU and HAPA examples:

MMAU



MODEL OF ALCOHOL USE AS AN EMOTION MANAGEMENT STRATEGY

HAPA



MOTIVATIONAL STAGE

VOLITIONAL STAGE

What was the aim of the study?

- ▶ Investigate how motivational factors that cause people to drink (drinking motives), interact with motivation to drink less (self-efficacy)
- ▶ Increase understanding of drinking behaviour and reduce unexplained variance in statistical models.



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Why is this research important?

- ▶ In 2009, guidelines established to provide information on safe drinking.
- ▶ In 2012, 19.5% of Australians drank over the limits of guideline 1 of two standard drinks per day
- ▶ 44% of Australians exceeded guideline 2 of no more than 4 standard drinks per drinking occasion
- ▶ In 2013 - 2014, Australians consumed 184 million litres of pure alcohol, equivalent to 74 Olympic swimming pools.
- ▶ Lowest level in 50 years but more needs to be done



Why drink at healthier levels?

- ▶ Risk of immediate alcohol related injury: **Motor vehicle accidents * Falls * Fire * Aggression * Family violence * Intentional self-harm**
- ▶ The cumulative effects of alcohol have been linked to chronic diseases such as : **Cardiovascular disease * mouth * throat * liver and breast cancer * type II diabetes etc.**

Research can help...

... identify the main psychosocial determinants that indicate why some individuals drink at healthier levels than others

Source: National Health and Medical Research Council (NHMRC), 2009; Schwarzer, Lippke, & Luszczynska, 2011; Hagger, 2009



VS



How was data collected?

- ▶ A convenience sample of 405 adults were recruited on a vehicular ferry in Southern Queensland.
- ▶ The data were collected using self-report questionnaires
- ▶ The study was a cross-sectional design

Key variables:

- ▶ **Self-efficacy:** An optimistic belief in ones ability to perform a task e.g. “I am certain I can reduce my alcohol intake” (Internal reliability: $a = .80$)
- ▶ **Drinking motives:** The final reason to drink or not – activated just prior to actual drinking event, e.g. “I drink alcohol because it makes me feel good” (Internal reliability: $a = .76$)



Thanks to Palace Backpackers & Air Fraser for the use of this photo

Results: Drinking Motives

- ▶ 398 surveys were retained for analysis. Data ranged from non-drinkers to heavy drinkers (+10 standard drinks daily) with 59% being male
- ▶ MMAU - Enhancement drinking motives were positively related to drinking behaviour. That is, as the motives to drink increased, alcohol consumption increased ($r = .51$)



Alcohol doesn't make me feel good - therefore I seldom drink it



Alcohol makes me feel good - therefore I drink it twice a week



Alcohol makes me feel GREAT! - therefore I drink it all the time!!

Results: Self-efficacy

- ▶ Self-efficacy was negatively related to drinking behaviour – That is as belief in one's ability to drink less alcohol increased, the amount of alcohol consumed decreased ($r = -.4$)



I don't believe I could reduce my alcohol intake - I usually drink above the guidelines...



I could reduce my alcohol intake – but sometimes I drink above the guidelines so I am not sure



I believe I can easily reduce my alcohol intake - because I usually drink within the guidelines anyway.

Results: Motives vs. Self-efficacy

- ▶ Drinking motives were negatively related to self-efficacy – That is, as motivation to drink alcohol increased, belief in one's ability to drink less alcohol decreased ($r = -.39$)



Alcohol makes me feel great.... Therefore I don't believe I could ever reduce my alcohol intake



Alcohol Makes me feel quite good... therefore I think I could reduce my alcohol intake most of the time

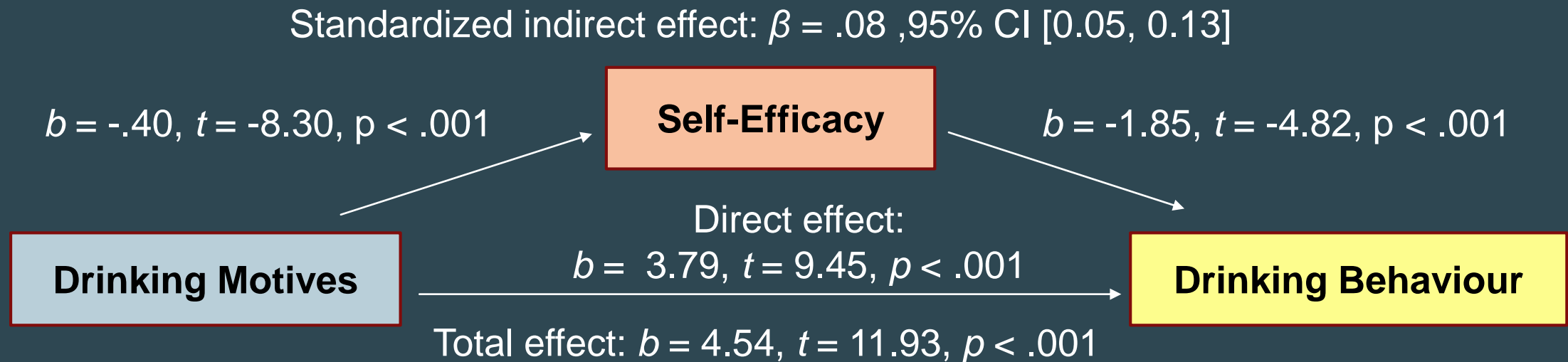


Alcohol doesn't really make me feel good therefore I believe that I could easily reduce my alcohol intake



Results: Mediation

- ▶ Hayes Process Model 4 suggested Self-efficacy mediated the relationship between drinking motives and drinking behaviour - This implies an indirect effect in addition to the direct effect
- ▶ Motives had a positive effect on drinking behaviour and a negative effect on self-efficacy. This represented a medium effect ($k^2 = 9\%$)
- ▶ Total model summary accounted for 30.5% of variance in drinking behaviour.



What have we contributed to research?

- ▶ Self-efficacy suggests lower levels of drinking over and above motives
- ▶ Strong Motivation to drink suggests a suppression of self-efficacy
- ▶ Increased motivation to drink suggests increased drinking because of the negative effect on self-efficacy

What's interesting?

- ▶ High levels of self-efficacy as well as high levels of motivation to drink can occur
- ▶ Drinking motives are activated by cues to drink; their influence on self-efficacy is sporadic
- ▶ A change in the situational frame, changes motives, resulting in self-efficacy being differently effective



Where to next ?

- ▶ Investigate integration of MMAU drinking motives and all HAPA variables
- ▶ Consider utility of integrating motive replacement and self-efficacy enhancement into HAPA planning to provide a framework for delivering healthier drinking interventions.
- ▶ Examine whether planning integration: a) improves planning/self-efficacy mediation and b) takes up drinking motive variance without encumbering HAPA model with additional variables
- ▶ Investigate the relationship between drinking motives, past behaviour and habit
- ▶ Conduct larger longitudinal studies to test integrated model as current research limited by cross sectional design

Any further enquiries?

For any further questions, please feel free to contact
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