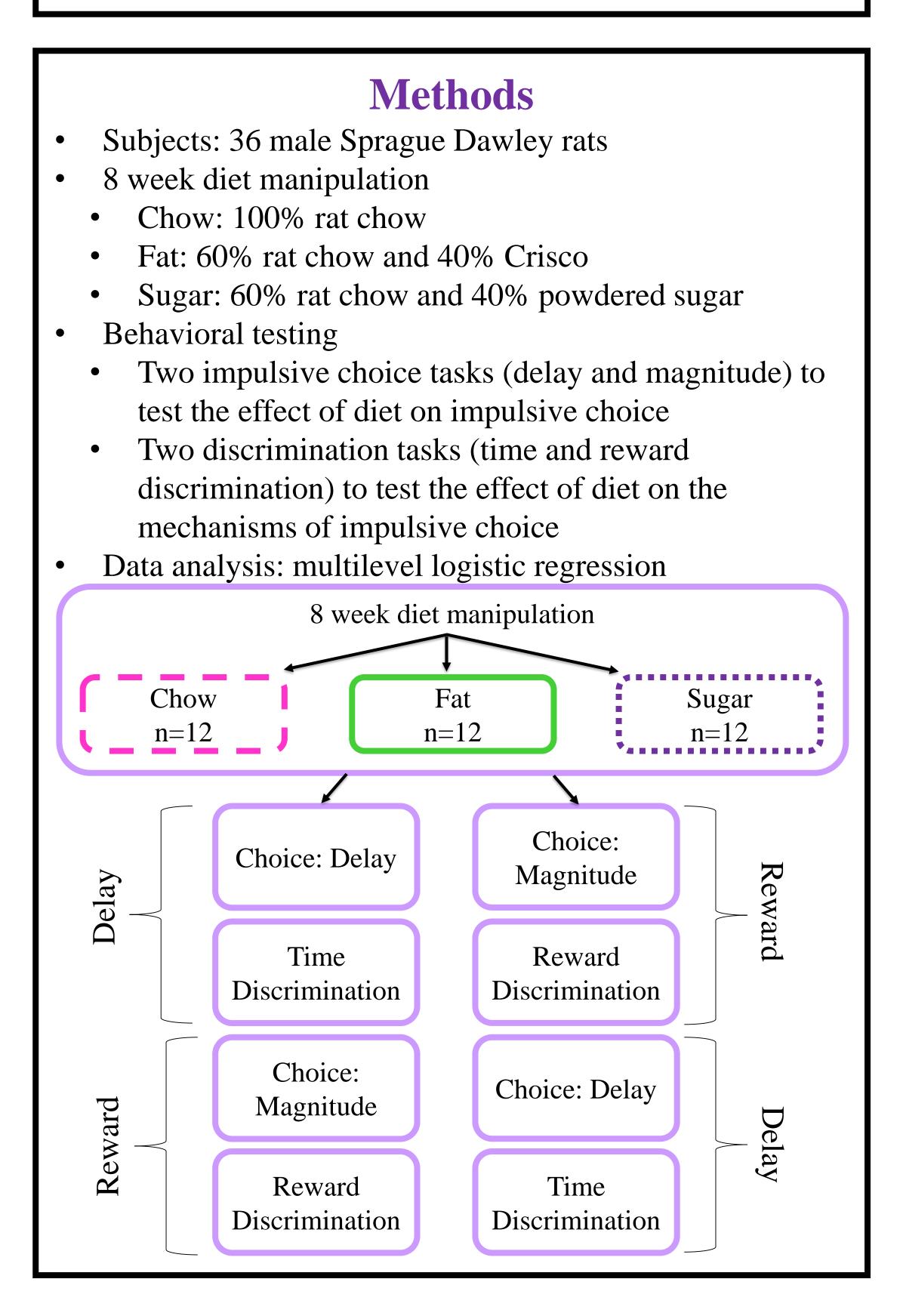
Diet-induced impulsivity: The effect of high-fat and high-sugar diets on the mechanisms of impulsive choice



Introduction

- Impulsive choice is implicated as a possible factor leading to the obesity epidemic
- People who are obese make more impulsive decisions¹ People who eat diets high in fat and sugar are more
- impulsive²
- Rodent models, which demonstrate causal effects of diet on behavior, have shown that diets high in fat or sugar induce impulsive behavior³, as indicated by a preference for the smaller-sooner (SS) reward over the larger-later (LL) reward. This may explain the relationship between obesity and impulsive choice
- Time and reward discrimination deficits have been implicated as mechanisms leading to impulsive behavior.⁴ However, the direct effects of diet on time and reward discrimination are unknown
- Current study: Determine the effect of long-term exposure of high-fat and high-sugar diets on the mechanisms of impulsive choice to determine deficits that could be targeted in behavioral interventions



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