Stress, Depression, and the Role of Racial and Ethnic Concordance in the Early Care and Education Workforce

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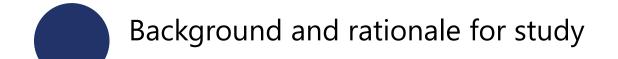
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PRESENTATION OVERVIEW









BACKGROUND



experiencing concerning levels of stress and depression

(Elharake et al., 2022; Lessard et al., 2020)



stress and depression affects worker well-being and turnover

(McMullen et al., 2020)



We know some predictors of stress and depression: wages, supervisory support, professional development

(for reviews, see Cumming, 2017; Hall-Kenyon et al., 2014) Additional research is needed to understand the predictors of teacher stress and depression in early childhood settings.

BACKGROUND



Racial and ethnic concordance, or matching, between teachers and children has been found to predict positive child outcomes

Racial and ethnic concordance has rarely been examined as a source of teacher stress and depression

(For review, see Redding, 2019)

(e.g., McCarthy et al., 2020)

Our study is the first to examine the effects of teacher-children racial and ethnic concordance on stress and depression in the ECE workforce.

RESEARCH QUESTION



What factors predict stress and depression among frontline staff in ECE programs in the U.S., and do those factors have a different effect depending on staff race and ethnicity or concordance with the classroom?



Staff characteristics: staff pay, staff household income, full-time vs part-time, role, receipt of supervision, participation in professional development, gender, race and ethnicity



Classroom characteristics: racial and ethnic concordance,* classroom diversity,* class size, children's ages



Center characteristics: center size, funding source, proportion of children with IEPs, turnover rate



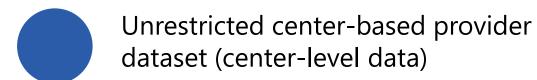
Community characteristics: community poverty, population density (rural, suburban, urban)

DATA





2019 National Survey of Early Care and Education (NSECE)



Unrestricted center-based provider workforce dataset (staff-level data)

OUTCOME VARIABLES

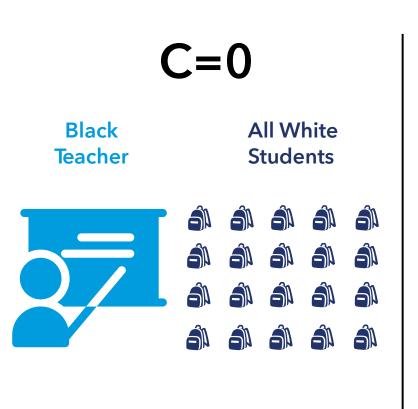


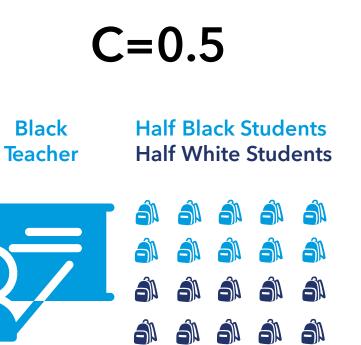
Job Demands Stress: 4 items adapted from the Curbow Job Stress Inventory (2000)

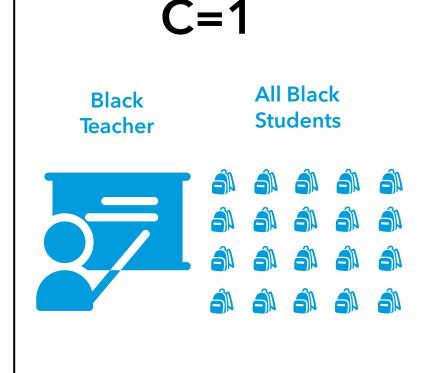
Depression: 7-item Center for Epidemiologic Studies Depression Scale (CESD-7; Levine, 2013)

RACIAL AND ETHNIC CONCORDANCE

Black





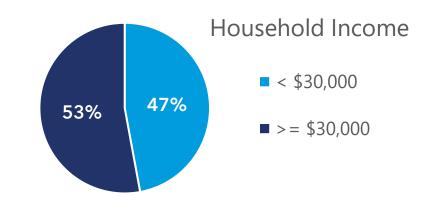


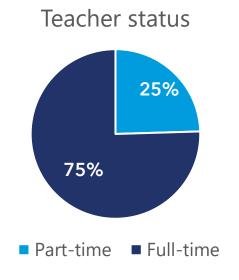
SUMMARY STATISTICS: TEACHERS

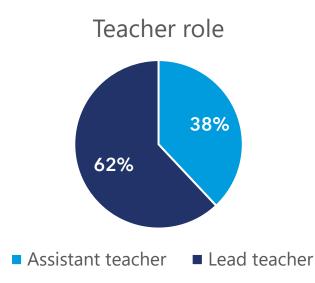




Mean wage \$13.92 (SD = 7.18)

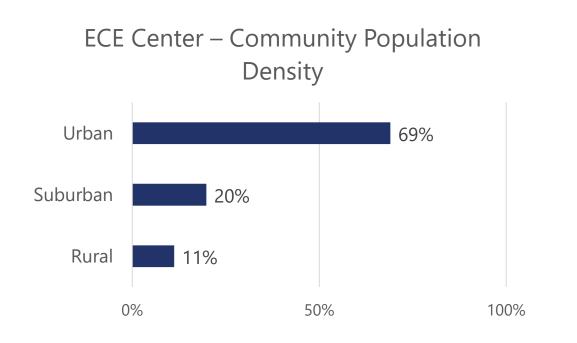


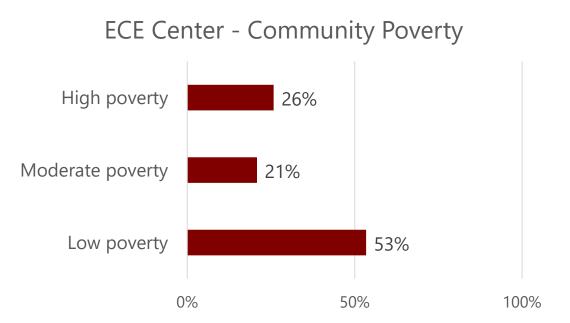




Weighted concordance sample: n = 1,000,101Unweighted concordance sample: n = 3,547

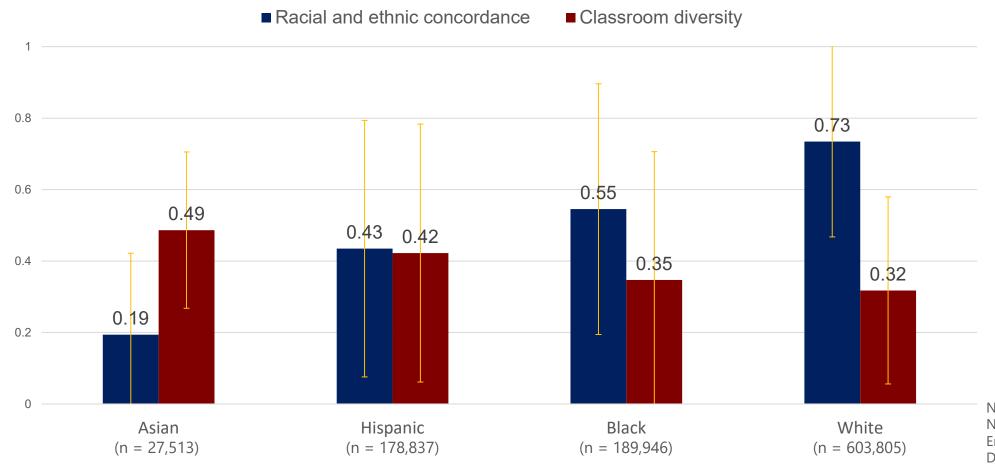
SUMMARY STATISTICS: CENTERS





FINDINGS: CONCORDANCE & DIVERSITY

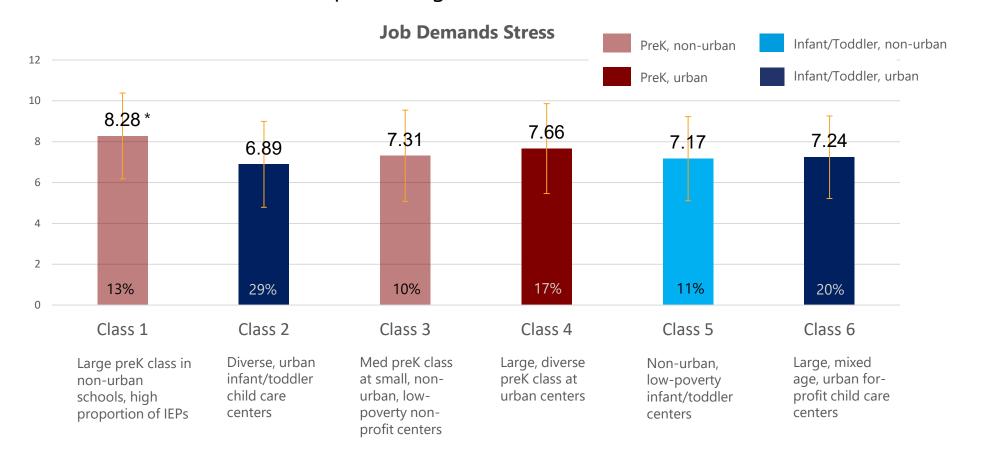




Note: samples are weighted per NSECE 2019 guidance. Error bars are Standard Deviations.

FINDINGS: PREDICTING JOB STRESS

- Latent Class Analysis 6 types of ECE centers
- Teachers at centers in Class 1 reported higher stress than teachers in the other classes



AIC = 47443.861,BIC = 47896.104.

Error bars are Standard Deviations.

FINDINGS: PREDICTING JOB STRESS

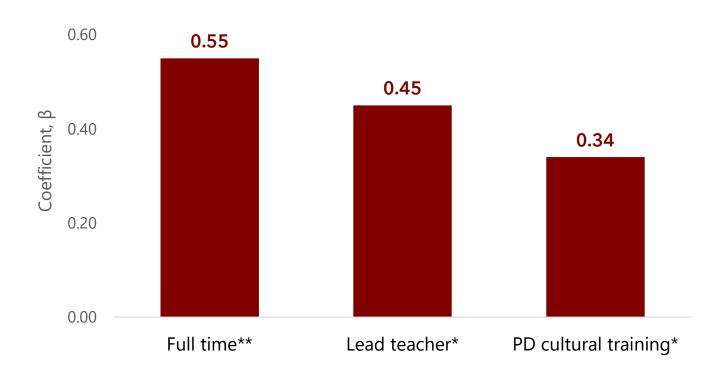
 $R^2 = .07$



For teachers who identify as Black, racial and ethnic concordance with children in their classroom predicted lower levels of job demands stress.

Teacher race-Black*Concordance: $\beta = -1.48*$

Predictors of higher job demands stress



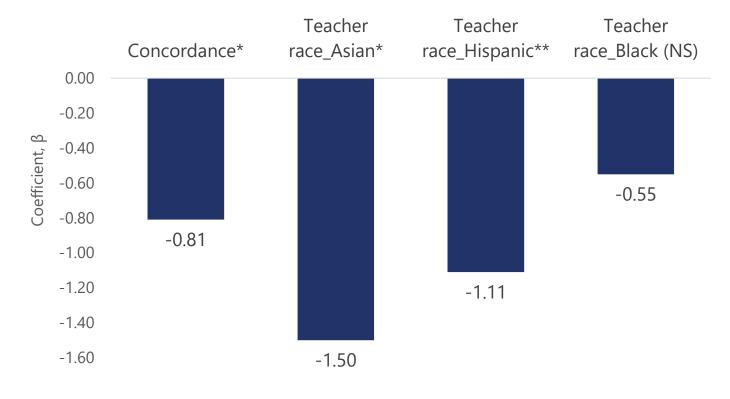
FINDINGS: PREDICTING DEPRESSION

 $R^2 = .04$



Racial and ethnic concordance with children in their classroom predicted lower levels of depression for teachers.

Predictors of lower depression



KEY FINDINGS



- Racial concordance between ECE teachers and children in their classroom predicted lower levels of teacher depression.
- For Black teachers, racial concordance predicted lower job demands stress.
- Working full time, being a lead teacher, receiving PD on working with children from different cultures, and teaching at a center in Class 1 all predicted higher levels of job demands stress.

NEXT STEPS



- Further explore LCA center types as predictors of ECE teacher stress and depression
- Examine classroom diversity as a predictor of ECE teacher stress and depression

Explore policy and practice implications (e.g., supporting ECE workforce in concordant and discordant classrooms)

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