

The University of Alabama at Birmingham

Burnout And Depression Among Residents And Faculty In A Single Academic Medical Institution– A Pilot Study

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Introduction

- Burnout is defined as a long term, unresolvable job stress leading to feelings of exhaustion, overwhelm, cynicism, detachment from job and a lack in sense of personal accomplishment
- ✤ > 40% physicians were reporting burnout according to Medscape National Physician Burnout in last 3 years
- Although a well-established problem, there is a scarcity of studies that investigated the association between physician burnout and depression

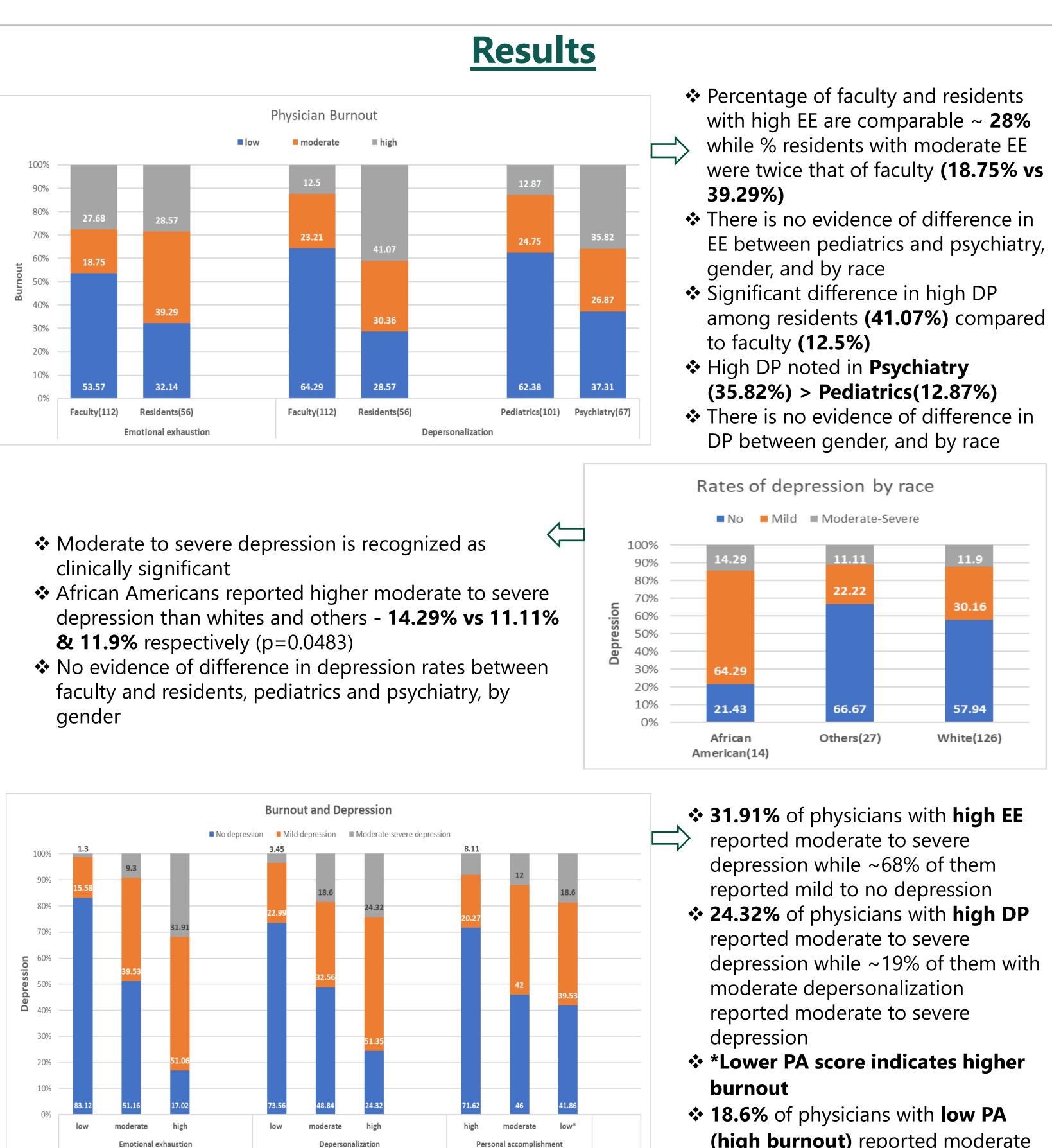
Methods

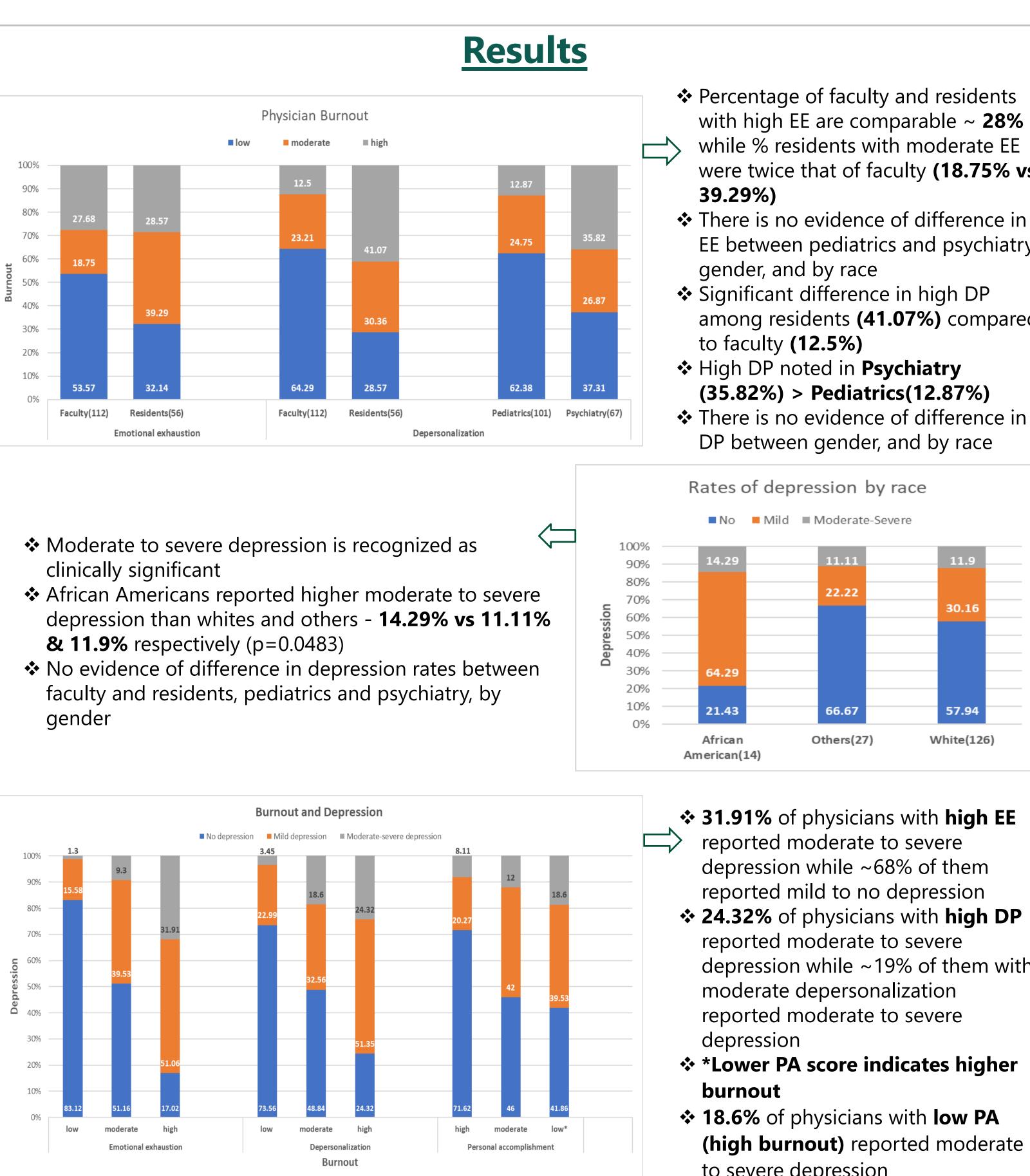
- Research study (IRB approved) was done between December 2018 to February 2019
- Instruments used for burnout and depression measure respectively - Maslach Burnout Inventory (MBI) and Quick Inventory of Depressive Symptomatology – Self Report (QIDS-SR)
- Demographics:

	Role		Specialty		
	Faculty	Residents	Pediatrics	Psycł	niatry
N for MBI=168	112	56	101	6	7
N for QIDS-SR=167	111	56	101	66	
	Gender		Race		
			African		
	Male	Female	American	Others*	White
			/Black		
N for MBI=168	73	95	14	27	127
N for QIDS-SR=167	73	94	14	27	126

*Others in race include -Asian/American Indian/Alaskan Native/ Native Hawaiian/Pacific Islander/Other

- MBI was scored and analyzed as three components : emotional exhaustion/EE, depersonalization/DP, and personal accomplishment/PA
- QIDS-SR scores were categorized as no, mild and moderate – severe depression
- Chi-square and Fischer's exact tests were used to determine if association between various categories was statistically significant; p<0.05 for data presented here





to severe depression

1.9				
).16				
7.94				
e(126)				

Conclusions

- Physicians in training seem to be twice as likely to experience burnout
- High burnout seems to be a predictor of clinically significant depression in physicians
- Higher emotional exhaustion, higher depersonalization and low personal accomplishment are associated with higher depression in physicians
- Current available data estimates rates of depression at 12-19% among physicians and 28.8% among resident physicians compared to 7.1% in the general population
- ✤ 11% of residents and 14% of faculty reported clinically significant depression in our study
- Although this is a pilot study with only two specialties, the rates of depression is found to be higher than general population
- Further analysis is underway which includes burnout and depression rates among physicians based on age groups, marital status, ethnicity etc.
- Future directions: to replicate this study post-Covid-19 for the effects of pandemic on physician well-being and mental health

References

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- Mata DA, Ramos MA, Bansal N, et al. Prevalence of Depression and Depressive Symptoms Among Resident Physicians: A Systematic Review and Metaanalysis. *JAMA*. 2015;314(22):2373–2383

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