

Retrospective Comparison Of Vitamin D Levels Between Patients With Migraine And Healthy Control Group



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INTRODUCTION

It is thought that neurogenic inflammation and vasodilation play an important role in migraine pain. The thought that vitamin d concentration is inversely proportional to inflammation supports its relationship with migraine. The role of calcium in the contraction process of the smooth muscles of the vascular walls may also provide a rational link. The vitamin D receptor (VDR) in brain, is involved in many physiological brain processes. The aim of this study is to contribute to the literature by comparing vitamin D levels between migraine patients and healthy control group.

METHOD

55 patients older than 18 years old diagnosed with migraine according to ICHD-II diagnostic criteria applied to the Neurology Outpatient Clinic of Bezmialem Vakif University Hospital between July 2020 and July 2022, and 55 healthy controls over the age of 18 applied to the Family Medicine Polyclinic of the Bezmialem Vakif University Hospital in the same date range were included in the study. Vitamin D levels of groups were obtained retrospectively from the hospital's nucleus program and compared.

RESULTS

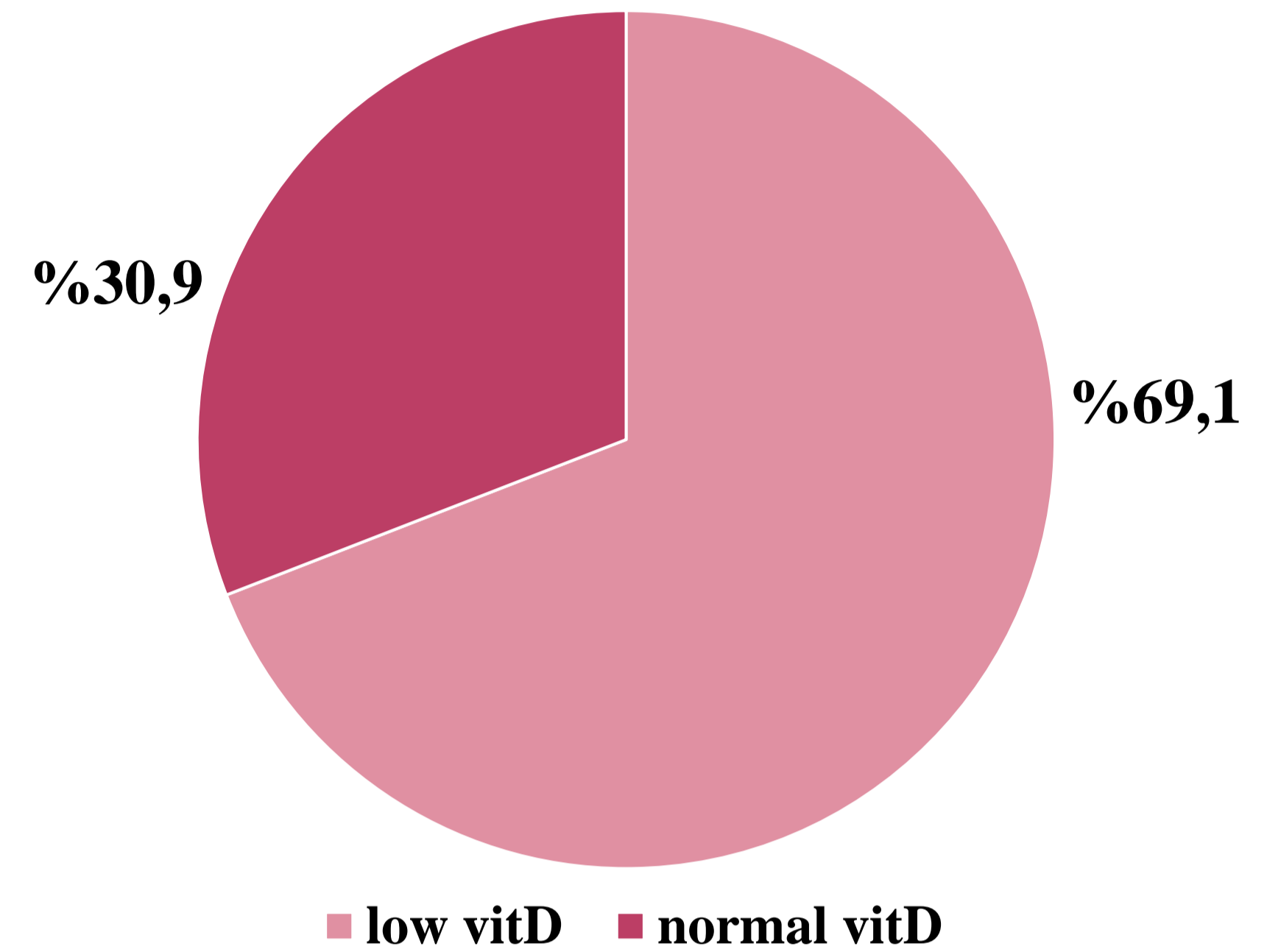
69,1 % of migraine group and 54,5 % of control group's vitamin d levels was found lower than range. 30,9 % of migrane group and 45,5 % of control group's vitamin d levels was found within normal range. No statistically difference was found between migraine and healthy control group in comparison to vitamin d levels. (p= 0,136)

CONCLUSION

There are studies support a significant relationship between vitamin D deficiency and migraine, also there are studies with no significant results in literature. In our study, we did not find statistically significant relationship between migraine and vitamin d deficiency. In order to make conclusion, larger series should be investigated.

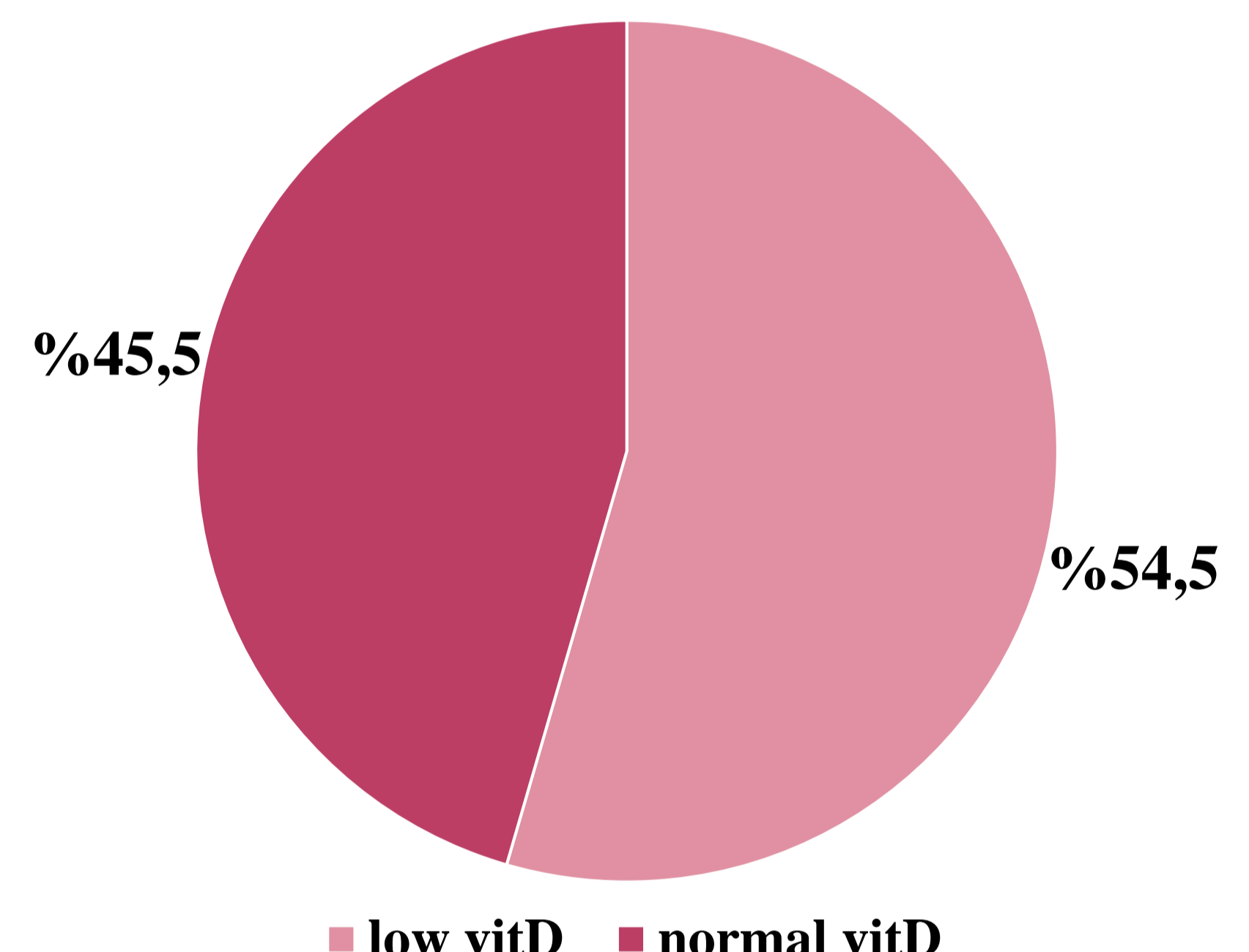
Key words: Vitamin d, migraine, healthy control

group: migraine



■ low vitD ■ normal vitD

group: control



■ low vitD ■ normal vitD

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