# "A COMPARATIVE STUDY OF INTERRELATION BETWEEN DEHA- PRAKRITI AND VYAYAMA-SHAKTI BY PUSH-UP TEST AND HARVARD STEP TEST"



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# **ABSTRACT**

## Title:

"A COMPARATIVE STUDY OF INTERRELATION BETWEEN *DEHA-PRAKRITI* AND *VYAYAMA-SHAKTI* BY PUSH-UP TEST AND HARVARD STEP TEST"

### **Introduction**:

According to Ayurveda Samhitas different Dosha Pradhana Deha-Prakriti individuals have different levels of Bala. Vyayama-Shakti is also an important parameter to assume Trividha Bala i.e. Pravara, Madhyama and Avara. According to all these references different Dosha Pradhana Deha-Prakriti individuals should have different levels of Vyayama-shakti too; but there is not any clear reference found about direct interrelation between Deha-prakriti and Vyayama-Shakti.

For examination of *Vyayama-Shakti* there is not any standard test described in *Ayurveda* text, but some of the modern fitness test/ efficiency tests which include different body exercises like Push-up test and Harvard step test can be used for this purpose.

#### Aim & Objectives:

To study if there is interrelation between *Deha-Prakriti* and *Vyayama-Shakti*. To study different *Deha-prakritis* of healthy volunteers. To study *Vyayama-shakti* of healthy volunteers having different *Deha-prakritis*. To compare the Vyayama-shakti assessed by Push-up Test and Harvard Step Test in different *Deha-Prakriti* individuals.

# **Materials-Methods:**

Total 90 healthy volunteers of different *Deha-Prakriti* having age group 18 to 22 years with normal BMI were selected from Parul University Campus, Vadodara for the study after examination of *Deha-Prakriti*. They were grouped in 3 main groups of *Kapha*, *Vata* or *Pitta Dosha Pradhana Deha-Prakriti*. They were asked to perform Push-up Test and Harvard Step Test up to the appearance of *Ardha-Vyayama-Sakti* symptoms for examination of *Vyayama-shakti*. Observations were noted and compared with the standard rating tables for individual tests and finally *Vyayama-shakti* levels of individuals were assessed. *Vyayama-shakti* levels were compared in different *Dosha Pradhana Prakriti* groups.

**Results:** 

Results were calculated and statistically analysed using One Way ANOVA Test.

The test showed significant interrelation between *Deha-Prakriti* and *Vyayama-shakti* with

Push-up Test results.

**Interpretation:** 

Kapha Pradhan Prakriti individuals shown Pravara Vyayama-shakti of Vata

Pradhan Prakriti individuals shown Madhyama Vyayama-shakti whereas Pitta Pradhan

Prakriti individuals shown Avara Vyayama-shakti with Push-up Test results. The Bala

examined by Vyayama-shakti may have combined effect of Sahaja, Kalaja and Yuktikrut

Bala mentioned in texts whereas the Bala levels described in Deha-prakriti laxana may be

of Sahaja Bala only that one got at the time of sukrashonita samyoga.

**Conclusion:** 

There is interrelation between Deha-Prakriti and Vyayama-shakti. Fitness assessed

by the push-up test is more reliable to assess *Vyayama-Shakti* related to *Dosha* constitution

in different Deha-prakriti described in Ayurveda as compare to Harvard step test.

**Key words:** 

Deha-Prakriti, Vyayama-shakti, Push-up Test, Harvard Step Test.