

Piriformis tightness in relation to sitting duration so that appropriate corrective and preventive measures can be implemented in time, potentially lowering the rate of low back pain due to Piriformis tightness.

Methodology

A observational study was conducted using convenient sampling on 213 IT Professionals in Bangalore. The study subjects were selected based on the inclusion criteria were IT Professionals working for a minimum of 8 hours in sitting and the individual must be working in the profession for a minimum of 1 year was included. Individuals with history of back surgery or lower limb surgery ,trauma to back or lower extremity ,low back pain within the last six months ,diagnosed cases of rheumatoid arthritis or osteoarthritis of the spine or hips ,spinal deformity ,tightness of tensor fascia latae ,neurological disease ,any history of cardiovascular diseases such as hypertension and females with pregnancy were excluded in the study.The purpose and procedure of the study was explained to the study subjects. Informed consent was taken and general demographic data like age , gender, height, weight was obtained from the individuals followed by Piriformis stretch test was performed. After collecting data form the population, the data was tabulated and statistical analysis was done.

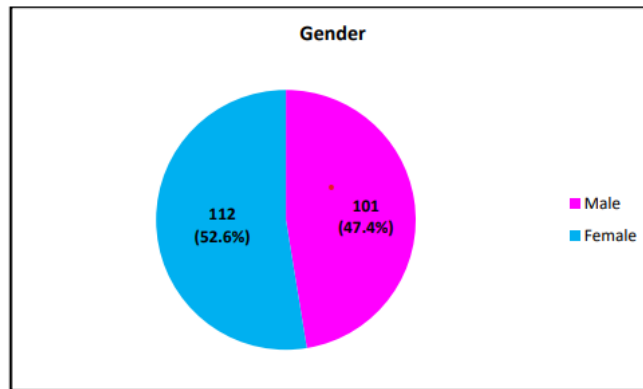


Fig 1

Table 1:

(n = 213)		Frequency	%
Gender	Male	101	47.4
	Female	112	52.6

The above table represents the frequency of the male and the female subjects. Out of 213 study subjects 101 (47.4%) are male and 110 (52.6%) are female.

Table 2:

	Range	Mean	S.D.
Age (Years)	24 to 57	37.7	8.9
Height (Cm)	142 to 185	166.6	8.0
Weight (Kg)	46 to 95	65.2	10.2
BMI (Kg/M ²)	16.5 to 36.2	23.5	3.5

The mean age of the study subjects is 37.7 ± 8.9(SD) years. The mean height of the study subjects is 166.6 ± 8.0(SD) Cm. The mean weight of the study subjects is 65.2 ± 10.2(SD) Kg. The mean Body Mass Index of the study subjects is 23.5 ± 3.5(SD) Kg/M²

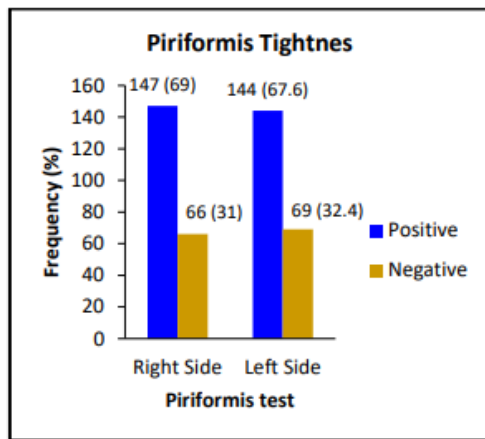


Fig 2

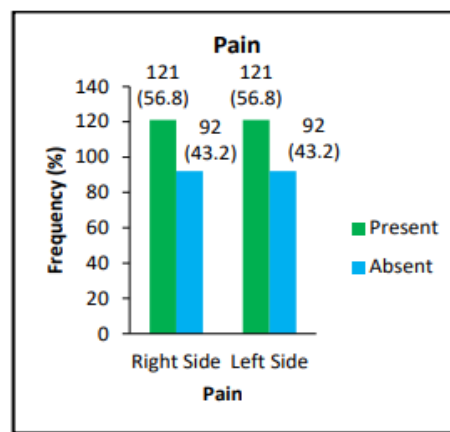


Fig 3

Table 3:

		Right Side		Left Side	
		n	%	n	%
Piriformis test	Positive	147	69	144	67.6
	Negative	66	31	69	32.4
Pain	Present	121	56.8	121	56.8
	Absent	92	43.2	92	43.2

Out of 213 study subjects 147 (69%) had Right sided Piriformis Tightness. Out of 213 study subjects 144 (67.6%) had Left sided Piriformis Tightness. Out of 213 study subjects 121 (56.8%) experienced pain due to Piriformis tightness

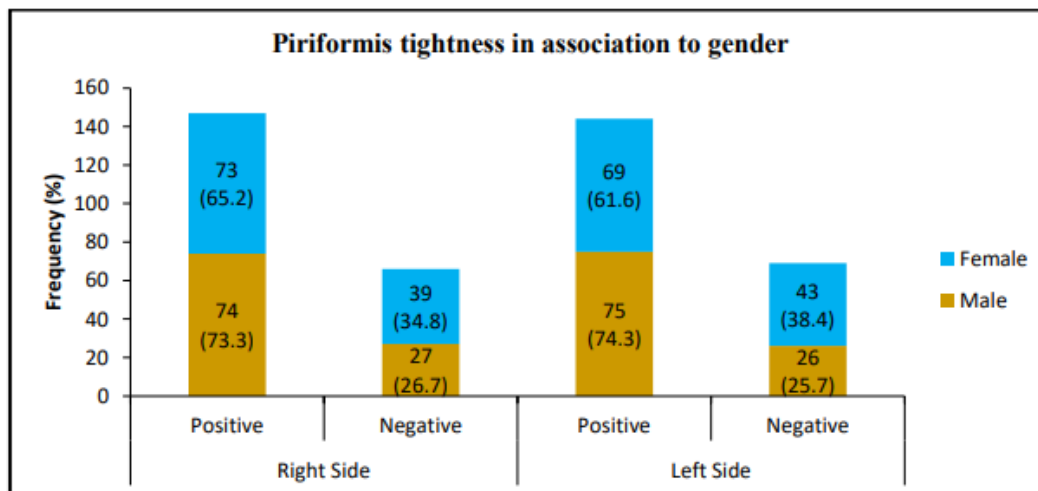


Fig 4

