

## Effect of Obesity on Arch Index in Young Adults

Ganu, SS and Panhale, V (2013) Effect of Obesity on Arch Index in Young Adults. [Journal (On-line/Unpaginated)]

Full text available as:



[PDF](#) - Published Version

Available under License [Creative Commons Attribution No Derivatives](#).

105Kb

### Abstract

**Background:** Excessive increases in weight bearing forces caused by obesity may negatively affect the lower limbs and feet but minimal research has examined the long-term loading effects of obesity on the musculoskeletal system, particularly in reference to the feet. **Objectives:** The purpose of the study was to investigate the effect of obesity on medial longitudinal arch of foot in young adults. **Method:** 60 subjects, 30 obese & 30 non obese were assessed for height & weight using standard technique. Radiographic images under static condition were used for calculating the arch index. **Result:** The arch index of obese subjects was significantly lower than the non obese subjects & there is a negative correlation between the BMI & the arch index. **Conclusion:** These results suggests that obesity lowers the medial longitudinal arch of foot.

<b>Item Type:</b>	Journal (On-line/Unpaginated)
<b>Keywords:</b>	Obesity; Medial longitudinal arch; Arch index
<b>Subjects:</b>	<a href="#">JOURNALS &gt; Online Journal of Health and Allied Sciences</a>
<b>ID Code:</b>	8937
<b>Deposited By:</b>	Kakkilaya Bevinje, Dr. Srinivas
<b>Deposited On:</b>	04 May 2013 23:09
<b>Last Modified:</b>	04 May 2013 23:09

### References in Article

Select the SEEK icon to attempt to find the referenced article. If it does not appear to be in cogprints you will be forwarded to the paracite service. Poorly formatted references will probably not work.

1. Jahss MH. Disorders of the foot. WB Saunders Company: Philadelphia;1982.
2. Ker RF, Bennett MB, Bibby SR, Kester RC, Alexander RMcN. The spring in the arch of the human foot. *Nature* 1987;325:147-149.
3. Dowling AM, Steele JR. Does obesity influence foot structure and plantar pressure patterns in prepubescent children? *International journal of obesity*. 2001;25:845-852.
4. Cavanagh PR, Kram R. Stride length in distance running: velocity, body dimensions, and added mass effects. *Med Sci Sports Exerc*. 1989;21:467-479.
5. Nyska M, Linge K, McCabe C, Kienerman L. The adaptation of the foot to heavy loads plantar foot pressures study. In: Cavanagh P(ed). *Proceedings of the V Emed Scientific Meeting*. Penn state: Pennsylvania.1996.
6. Steel MW, Johnson KA, Dewitz MA, Ilstrup DM: Radiographic measurement of normal adult foot. *Foot Ankle* 1980;1:151-158.
7. Nyska M, Linge K. The adaptation of the foot to heavy loads plantar foot pressures study. In: Cavanagh P(ed). *Proceedings of the V Emed Scientific Meeting*. Penn state: Pennsylvania.1996.
8. Peltonen M, Lindroos AK, Torgerson JS. Musculoskeletal pain in the obese: a comparison with a general population and long-term changes after conventional and surgical obesity treatment. *Pain* 2003;104:549-557.

This site has been permanently archived. This is a static copy provided by the University of Southampton.

## Metadata

- [ASCII Citation](#)
- [Atom](#)
- [BibTeX](#)
- [Dublin Core](#)
- [EP3 XML](#)
- [EPrints Application Profile \(experimental\)](#)
- [EndNote](#)
- [HTML Citation](#)
- [ID Plus Text Citation](#)
- [JSON](#)
- [METS](#)
- [MODS](#)
- [MPEG-21 DIDL](#)
- [OpenURL ContextObject](#)
- [OpenURL ContextObject in Span](#)
- [RDF+N-Triples](#)
- [RDF+N3](#)
- [RDF+XML](#)
- [Refer](#)
- [Reference Manager](#)
- [Search Data Dump](#)
- [Simple Metadata](#)
- [YAML](#)

Repository Staff Only: [item control page](#)