

Acupuncture may help some older children with lazy eye

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Acupuncture could potentially become an alternative to patching for treating amblyopia (lazy eye) in some older children, according to a report in the December issue of *Archives of Ophthalmology*.

About 0.3 percent to 5 percent of individuals worldwide have [amblyopia](#), according to background information in the article. About one-third to one-half of the cases are caused by differences in the degree of nearsightedness or farsightedness between the two eyes, a condition known as anisometropia. Correcting these refractive errors with glasses or [contact lenses](#) has been shown to be effective in children age 3 to 7 years, but among older children age 7 to 12, only 30 percent respond to visual correction alone.

Adding occlusion therapy—in which one eye is patched—increases this response rate to two-thirds, but some patients may not comply and those who do may experience emotional problems or reverse amblyopia, the authors note. Jianhao Zhao, M.D., of Joint Shantou International Eye Center of Shantou University and Chinese University of Hong Kong, Shantou, China, and colleagues compared acupuncture—which has also been used to treat dry eye and myopia—to patching in a randomized controlled trial involving 88 children.

Of these children, 43 were randomly assigned to the acupuncture group and received five treatments per week targeting five acupoints, or needle insertion sites. The remaining 45 children had their good eye patched for two hours a day and were instructed to do at least one hour of near-

vision activities with the lazy eye, such as reading or typing.

After 15 weeks, visual acuity improved by about 1.8 lines in those whose eyes were patched and 2.3 lines in those who had acupuncture. An improvement of two lines or more occurred in 28 (66.7 percent) of those in the patching group and 31 (75.6 percent) of those in the acupuncture group. [Lazy eye](#) was considered resolved in 16.7 percent of patched eyes and 41.5 percent of eyes in the acupuncture group.

Both treatments were well tolerated; children had no problems complying with either therapy, and no serious adverse effects were found in either group. Acupuncture was performed after school to avoid interfering with participants' studies.

"Although the treatment effect of acupuncture appears promising, the mechanism underlying its success as a treatment for amblyopia remains unclear," the authors write. Targeting vision-related acupoints may change the activity of the visual cortex, the part of the brain that receives data from the eyes. It may also increase blood flow to the eye and surrounding structures as well as stimulate the generation of compounds that support the growth of retinal nerves, they note.

"The findings from this report indicate that the treatment effect of acupuncture for amblyopia is equivalent to the treatment effect of patching for amblyopia. However, only patients with anisometropic amblyopia were involved in our study and the follow-up period was relatively short," the authors conclude. "Moreover, acupuncture itself is a very complicated system of therapy. Differences exist among acupuncturists, and there are divergent manipulation modes, stimulation parameters, treatment styles and subjective sensations evoked by [acupuncture](#) stimulation. Because of the good results obtained in our study, the acupoints that we used could be considered for use in clinical practice."

More information: Arch Ophthalmol. 2010;128[12]:1510-1517.

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