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composition rather than weight. Body fat doesn't turn into muscle nor does muscle turn into fat. Effective exercise will help burn off body fat and increase muscle mass.

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# Podiatry



Ear, Nose & Throat Yankton

I've read several articles about people running barefoot. Do you think this is a good idea? Tere

ence	Pedersen,	D	.P.M.

The latest research that I have read discussed a few simple basic points that may help you.

Running with a well-padded typical running shoe causes a person to do two basic things; One, run with a "heel-to-toe gait." That is, that person will strike on the heel, and the foot will naturally roll to the ball, and then onto the toes. Second, the typical running shoes causes a runner to lengthen the stride. Therefore, the shoe-runner will strike the ground less often running the same distance as the barefoot runner running the same distance. The shoe-runner will also put more pressure and strain on the heel. Running barefoot, causes 2 basic changes in running; One, running stride will be shorter,

and the runner will strike the ground with the ball of the foot and not the heel. Therefore, the barefoot runner will avoid pressure on the heel, while at the same time take more steps

when running the same distance as would the runner with the typical running shoe. Runners who use a "minimalist" running shoe may run with a stride somewhere in between the barefoot runner, and typical "running shoe." This is a very generalized statement, because there are many different types of minimalist running shoes, with different menute of shoke abacebic material. different amounts of shock absorbing material.

Therefore the answer to your question depends on what you believe according to statements above. My advice would be that if you decide to become a barefoot runner, start with a typical running shoe. Then, switch to a minimalist running shoe, and finally to barefoot running. Take it slow, and deliberate. I believe, if you do a combination of the three different running styles, and listen to your body, you can decide which type of running is best for you. Perhaps, running equal amounts of distance and speed with the three types of running, will

work your muscle groups differently. This may avoid overuse injuries that people experience from using only once style of running

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## Pharmacy/Nutrition



3 New Flu Vaccine Formulations For 2013-2014

Leah Rempher Pharm. D.

Flu season is here. Have you thought about getting your flu shot yet? There are a few new flu vaccines to consider this year.

Flumist, the only non injectable option for healthy, non-pregnant, people ages 2 to 49, now protects against 4 flu virus strains instead of the usual 3 virus strains.

Fluzone, Fluarix, and FluLaval, will come in both trivalent (3 strain) and the new quadrivalent (4 strain) versions. The quadrivalent version is especially beneficial for kids and teens as they tend to be hit harder by the "B" strains of the flu virus. The new quadrivalent vaccines of course cost more than the trivalent form.

Flucelvax is a cell culture approved only for adults. It may contain small amounts of egg protein, so if one is severely allergic to eggs, it is not a good choice. Flublok is a new egg free vaccine approved for ages 18 to 49. Flublok is made by replicating the viral protein that triggers immunity, not the virus.

