Healthy Body
OWNER'S MANUAL

BONES-

There's nothing scary about your skeleton. Its 206 heroic bones support your every move, so use these strategies to keep your framework strong.

BY SARA ALTSHUL ILLUSTRATION BY MARK ALLEN MILLER

BONES ARE LIKE FACTORIES

Though they appear to just sit there, bumpy and rocklike, bones are really busy worker bees. They manufacture and store marrow, a stem cell-rich substance that produces red and white blood cells. Your bones also constantly break down and rebuild themselves in a process called remodeling, which keeps your skeleton strong, helps it adapt when your weight changes, and regulates how much calcium is in your blood and tissues.

Arms account for almost half of all adult broken bones. The smallest, lightest bone is the stapes, in your middle ear.

YOUR SKELETON LOVES A GOOD WORKOUT

You can bulk up your bones by putting them under tension and pressure, so highimpact moves like jogging, tennis, or stair-climbing are ideal, says Kathleen D. Little, Ph.D., an associate professor of exercise science at **Cleveland State University.** Impact bends the bones a little, making certain cells attract calcium, she says. Oh, and your bones like weight training, too. They're not asking for much: only 10 minutes of exercise a few times a day. Most important is to get up and do something. Your skeleton lives by the use-it-or-lose-it principle, which is why astronauts lose bone mass in space with no gravity to work against.

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AGE-PROOF YOUR ARMATURE

ore than

a quarter

of the

bones in

your body

are in your

hands (54).

If bones had feelings, they'd fear menopause (OK, and maybe skateboarding). Thanks to dropping estrogen levels, you can lose up to 20% of your bone density within five to seven years after your last period, says Andrea J. Singer, M.D., director of bone densitometry at MedStar Georgetown University Hospital in Washington, D.C. That can set you up for osteoporosis, the disease that makes your skeleton lacy and fragile. So be sure to get enough calcium and exercise before menopause.

> Each foot contains 26 bones.

By age 30, your bones are as dense as they're going to get. After that, you need to maintain what you have with a nourishing diet and exercise.

The longest, strongest bone is your femur, a.k.a. the thighbone.

Your bones constantly replace their old cells with fresh, new ones, so you'll have a completely new skeleton 10 years from now.

BAD-TO-THE-BONE MOVES

Your skeleton really wants you to avoid:

Slurping sodas. Colas contain phosphorus (as do many processed foods), which increases your kidneys' workload and makes it harder for them to maintain a healthy calciumphosphorus balanceand that's bad for bones. Drinking it black. Some, but not all, studies show that drinking 300 to 500 mg of caffeine daily (that's about two to three 8-oz cups of coffee) causes calcium loss over time, especially for older women. Adding a few tablespoons of milk to your joe may offset the loss. Salt, salt, and more salt. Too much sodium leaches calcium from your body. Aim to stay

below 1,500 mg a day.

