

marie claire health reportage

t was on a routine visit to her gynaecologist during her second pregnancy that Shalina Vichitra chanced upon some leaflets about umbilical cord stem cell banking. They told her how the firm would store the cord blood - rich in stem cells that can repair damaged tissue - for future use in the event of her child suffering from degenerative diseases. Curious, Shalina enquired with her doctor who advised her that it was a good investment to make if one could afford it. The procedure would cost the couple roughly Rs 70, 000, but Shalina was convinced that it was worth it. Not that she or her husband had a family history of a serious disease. "If you think of all the money we spend on improving our lifestyles, on travelling and other sundry expenses, this is a small price to pay for good health," she says emphatically, overjoyed to know that her older child too can benefit from the stem cells. The fee was steep, but the couple decided to take up an instalment option and go ahead with the 'investment'.

Pooja Bhanot*, a 29-year-old, made another wise investment. Her mother had lost a breast to cancer when Pooja was a teenager. Now, on the verge of turning 30, Pooja decided to go for the rather expensive diagnostic which

A timely guide for genetic testing as an investment in health. By Priyamvada Kowshik

Be smart Stay healthy ■ You can test for changes in your genes that predict high-risk diseases like breast cancer. Advisable if you have a family history of the disease.

> You can order DNA/RNA-based diagnostics for infectious diseases. Advisable if you are exposed to highrisk areas or show long-term symptoms of infections.

 You can go for personalised medicine tailored to your individual genes, instead of umbrella cures. In UK, for instance, DNA-testing helped hundreds of diabetes patients switch from insulin injections to cheaper, more effective drugs after a simple test showed that they had a particular genetic form of the disorder.

> would reveal the probability of her developing the cancer.

It's a trend that is steadily growing in urban India. Making an 'investment' which promises good health. And it's to do with more than simply paying gene sequencing. your health insurance premiums. Instead, what you're paying for is predictive diagnostics tailored to help you zoom into the future to know what disease may strike you; or rewind into the past to locate a truant gene in your family's genetic pool, that may hold the possibility of ruining your health. Or like in the case of cord-blood banking, keeping in cold freeze a tool that may have the potential to fight cancers, degenerative diseases like Parkinson's, injuries to vital organs, burns, arthritis and even diabetes.

It's a new era of healthcare that puts your future under the microscope. Predictive diagnostics, preventive bank, which has 40 centres across the therapeutics and personalised therapy country. are giving the field of medicine a complete makeover. Where doctors don't just treat, they predict. Like an astrologer's parrot that picks a card a relaxing spa massage, you can now which holds your future, they employ order wellness tests that diagnose high-end diagnostics to foretell what's your pre-disposition to diseases like to come.

Urban India's engagement with

66 Zoom into the future to know what disease might strike or rewind into the past to locate a truant gene

health is not uncalled for. We're a nation that is growing obese and unhealthy. We're the diabetes capital of the world; carry the highest burden of cervical cancer; and are home to 60 per cent of the world's heart-disease patients. And while our sedentary lifestyles and growing affinity to junk food is a major factor, there is more to it. A report in Diabetes Voice, which provides a global perspective on diabetes, says that Asian Indians living in different parts of the world too have reported a higher prevalence of diabetes than the ethnic groups living in the same countries. "Similarly, prevalence of Thalassemia is high among North Indians," says Dr I.C. Verma, head of department of the genetics department at Sir Gangaram Hospital. The department has done pioneering work in diagnostic tests by

Of course, the tests demand certain affluence, in a country where a majority of the population lacks even basic healthcare. According to a PricewaterhouseCoopers report on the emerging healthcare market in India, in 2007, the private sector accounted for more than 80 per cent of total healthcare spending in India. More and more of us are willing to spend on procedures that will keep us living longer and staying healthier. "It's interesting to note that the trend has filtered into smaller towns across India too," says Mayur Abhaya, executive director of LifeCell, India's first cord blood

This new trend is blurring boundaries and getting into newer territories like wellness. No longer limited to osteoporosis, diabetes, thyroid and heart disease even before you get sick.

> "These tests tell you how to minimise the possibility of occurrence. They are userfriendly and can be ordered by anyone, and also tell you what kind of follow up actions can be taken even before >

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gnostics empower ourselves, or peco nealth?

launching their Gurgaon centre.

the name suggests, also comes at a Dr Menon.

now a more accurate test for checking create complete health-risk profiles.

▶you have visited the doctor," says not end up with brittle bones," says Dr Dr P.K. Menon, senior medical Menon. Diagnostics offer solutions to and could go up to Rs 10,000. director, Quest Diagnostics, which several other women's health concerns Diagnostic services are also creating recently began India operations by like breast cancer, thyroid and cervical online communities which allow cancer. Here, the most updated method individuals to interact with peers on Some may call it intelligent of 'liquid-based cytology' coupled with health-related topics, discuss problems marketing of healthcare. Others look the regular PAP smear test makes it on forums and blogs, access medical at it as a matter of convenience. Still far more accurate. "It is 99 per cent experts or learn more about disease others with a family history of a disease predictive for cervical cancer, the only through health libraries. may look at it as a tool to control their cancer which is totally curable with health. But high-end diagnostics, as vaccination on early detection," adds

between a few thousands to a few lacs. techniques to use. Imagine getting an Dr Puneet Bedi, a Delhi-based These are a step ahead of even the 'gold overview of your entire organ system... gynaecologist. While advising a standards' that are routinely available are you likely to get heart disease? Can balanced approach, a doctor at Quest in laboratories today. For instance in your irregular periods be linked to a narrates the case of a young woman osteoporosis, which is common among thyroid disease? Yes, high-end labs in the US who had a highly advanced menopausal Indian women, by the like Quest can now create a complete predictive test for breast cancer; when time a bone density test detects bone health profile. they take into account it showed a slight probability, she got deterioration, almost 30 per cent of lab tests and variables like age, blood both breasts surgically removed for fear loss is already done. Instead, there's pressure, body mass index, et cetera, to of developing cancer decades later.

from a much earlier stage so she does Watson and Crick about five decades raises questions in its answers.

ago, DNA has been in the news. In the past few years, there have been a flurry of websites that promise to help trace your family ancestry and lost genetic cousins with a mere cheek-swab test. Despite this, DNA tests had not been a routine medical tool for most of us. But that's about to change.

At Reliance Life Sciences, Mumbai, DNA/RNA-based diagnostics are now used to detect and assess the viral or bacterial load of infectious agents like HIV, HPV, hepatitis B and C virus, chikungunya, tuberculosis and malarial parasites, says K.V. Subramaniam, president and CEO. They also have the technology to detect mutations in genes. This means that any changes in the genetic make-up which may be an indicator of high risk of diseases,

like breast cancer and certain strains of leukaemia or even male infertility, will show up. The tests for infectious diseases are priced

generally between Rs 1,000 to Rs 3,000. But this is largely dependent on the number of genes to be screened

The trend is not without sceptics. "Why is it necessary to know the genetic disease potential when there fat price. They range from anywhere There are more ways to put these is no family history?" questions

Will we use it to empower ourselves, levels of calcium and vitamin D. "This
Ever since its complex double-helix or become medical junkies shopping will help the woman take precautions structure was discovered by physicists for good health? Predictive diagnostics

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