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Euro proves to be an irritant

Scientists in Zurich have found that majority of them women. some euro coins can cause people to break out in a rash.

They say the presence of too much nickel in the coins is to blame for the skin problems.

The scientists from Zurich's University Hospital and the Federal Institute of Technology launched their study after people complained of adverse reactions to the one- and two-euro coins.

Tests carried out at the hospital showed that people who are allergic to nickel suffered blistering, redness of the skin and strong itching.

Seven patients took part in the tests, spending up to 72 hours with the coins taped to their skin. All of them displayed some form of cutaneous reaction.

around the world," Frank Nestle, a dermatologist who led the study, told swissinfo.

"This means that people who handle coins a lot could experience some

According to Nestlé, the result is significant despite the small number of people tested.

"All the patients showed some kind of symptom," he said.

Around 15 per cent of population suffers from nickel allergies, the

The researchers said sweat eroded the metal in the coins, releasing up to 320 times the amount of nickel allowed under European Union guidelines.

The scientists also pointed out that the composition of the coins - an outer ring of yellow metal and an inner 'pill' of white metal - was probably at fault.

"We think that the fact that these coins consist of two different nickel allovs enhances the nickel release. and therefore the skin reaction," said Markus Speidel, a metals specialist at the Federal Institute of Technology.

"When sweat comes into contact with the two metals, it starts a reaction, releasing nickel ions that can penetrate human skin."

Contact with human sweat also "This is a standard allergy test corrodes the coins. A euro suspended in artificial sweat turned brown after 36 hours exposure.

> Only the one- and two-euro coins are apparently at fault according to the scientists.

> "These coins contain two metals, unlike others that have just one nickel alloy," Speidel told swissinfo.

The researchers are now considering whether to increase the scope of their study, but there could be a major

"Switzerland is not a part of the euro

zone," said Nestlé. "It would be difficult for us to conduct a true user study."

The European Commission says it will probably look at the results of the study, published in a recent edition of the scientific journal Nature.

However, an official said last month that the decision on the metal content of the coins had been carried out after three different studies.

He added that the European nickel directives were designed for objects such as jewellery, which remain in prolonged contact with the skin - unlike

source swissinfo.org

Time waits for solar system research

Two years from now when a Nasa spacecraft returns to Earth, scientists in Zurich plan to analyse pieces of the Sun it has collected.

The samples of solar wind should improve our understanding conditions in the distant past before Earth and other planets formed. Genesis is designed to collect samples of solar wind.

"We will analyse particular samples from this mission with unique techniques developed in our laboratory," said cosmo-chemist, Rainer Wieler, from the Federal Institute of Technology in Zurich.

Wieler was talking at an international geochemistry conference in the Alpine resort of Davos.

Scientists all over the world will work with portions of the returned samples to try to understand how the Sun, Earth and planets formed.

They will isotopic measure compositions of oxygen, nitrogen, and noble gases for clues to what led to the diversity of environments in today's solar system.

The Zurich team will focus on the noble gases - helium, neon, argon, krypton, xenon and radon - so-called because they have the maximum number of electrons in their outer shell making them stable.

"The noble gases are just one piece of the puzzle," said Wieler. "They don't form compounds readily, making them particularly suitable for helping to decipher the process."

source swissinfo.org



