

## Sweat Test

A sweat test is used internationally to assist in the diagnosis of CF. It measures the amount of chloride (from salt) in the sweat of people suspected of having CF.

People with CF have a problem with transporting salt across cell membranes. This results in a higher concentration of chloride in sweat compared to those without CF. The sweat test is painless, simple and usually accurate, and can be done on people at any age.

### When is a sweat test done?

Screening for CF is part of the Australian newborn screening program (Guthrie or heel prick test). The sweat test is usually done between four to six weeks of age in babies with a positive or equivocal (uncertain) result from the newborn screening test.

### How is a sweat test done?

A sweat sample is collected using a sweat stimulation procedure. No needles are used. A colourless, odourless chemical and a little electrical stimulation is applied to the person's arm or leg to encourage the production of sweat.

There may be a slight tingling or sensation of warmth during this part of the procedure that lasts for about five minutes. The sweat is then collected for about 30 minutes and sent to the laboratory for analysis to measure the chloride concentration in the sweat.

Some infants may not produce enough sweat to be measured at the first test and it will need to be repeated.



The whole procedure generally takes about an hour. The arm or leg area that has been stimulated may remain red for a few hours after the test.

### What to do before the test?

It is best not to apply cream or lotion to the skin 24 hours before the test. Babies should be fed their usual feed at the regular time. No changes need to be made to the baby's routine, however, it is important to be well hydrated before having the procedure.

### The results of the sweat test

If your baby is being tested because of a positive newborn screening test, the sweat test results will be explained to you by a doctor or genetic counsellor at the CF clinic.

### Useful resources

- [Your newborn baby's bloodspot screening test](#) (Dept. of Health)
- [Information for new parents](#) (CFWA)