

Trial record 1 of 1 for: effect of amiloride and thiazide

[Previous Study](#) | [Return to List](#) | [Next Study](#)

## The Effect of Thiazide, Amiloride and Hypertonic Saline on Urinary Biomarkers in Healthy Subjects (THAM)

**This study has been completed.**

**Sponsor:**

Regional Hospital Holstebro

**Information provided by (Responsible Party):**

Erling Bjerregaard Pedersen, Regional Hospital Holstebro

**ClinicalTrials.gov Identifier:**

NCT01635231

First received: June 13, 2012

Last updated: March 1, 2014

Last verified: March 2014

[History of Changes](#)

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[No Study Results Posted](#)

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### Purpose

Urinary biomarkers (u-NKCC2, u-ENaC-gamma and u-AQP2) reflects the activity of the sodium- and water channels in the human kidney. Changes in the sodium-and water channel activity can be induced by blocking the sodium channels with diuretics in healthy subjects

<a href="#">Condition</a>	<a href="#">Intervention</a>
Nephropathy	Other: hypertonic saline

Study Type: Interventional

Study Design: Allocation: Randomized

Intervention Model: Crossover Assignment

Masking: Double Blind (Subject, Caregiver, Investigator)

Primary Purpose: Diagnostic

Official Title: **Effect of Thiazide, Amiloride and Hypertonic Saline on Sodium- and Water Channel Activity in the Nephron in Healthy Subjects Estimated by Urinary Biomarkers**

#### Resource links provided by NLM:

[MedlinePlus](#) related topics: [Drinking Water](#)

[Drug Information](#) available for: [Amiloride](#) [Amiloride hydrochloride](#)

[U.S. FDA Resources](#)

#### Further study details as provided by Regional Hospital Holstebro:

##### Primary Outcome Measures:

- urinary biomarkers [ Time Frame: baseline, 0 hours and 1.5 hours after intervention ] [ Designated as safety issue: No ]  
Urinary excretion of epithelial sodium channels (ENaC), Sodium-potassium-2chloride transporters (NKCC2) and aquaporin2 channels (AQP2) before, during and after fluid infusion

##### Secondary Outcome Measures:

- vaso active hormones [ Time Frame: baseline, 0 hours and 1.5 hours after intervention ] [ Designated as safety issue: No ]  
plasma concentrations of: renin, Angiotensin II, aldosterone, Vasopressin, ANP and BNP
- central blood pressure [ Time Frame: baseline, 0 hours and 1.5 hours after intervention ] [ Designated as safety issue: No ]  
measured by applanation-tonometry
- intracellular (ICV)- and extracellular volume (ECV) [ Time Frame: baseline, 0 hours and 1.5 hours after intervention ]  
[ Designated as safety issue: No ]