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## Estrogen Patches for Adolescent and Young Adult Women With Cystic Fibrosis - Phase 4 - Not yet recruiting

**Code:** NCT05704036    **Year:** 2023    **Date:** January 2023

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### Study design (if review, criteria of inclusion for studies)

Interventional - Allocation: Randomized|Intervention Model: Parallel Assignment|Masking: Quadruple (Participant, Care Provider, Investigator, Outcomes Assessor)|Primary Purpose: Treatment

### Participants

Cystic Fibrosis|Hypoeestrogenism - 16 Years to 30 Years (Child, Adult)

### Interventions

Drug: Transdermal estrogen|Drug: Placebo patch|Drug: Progesterone|Drug: Placebo pill

### Outcome measures

Number of potential participants enrolled per month. Rate of screen fails. Study procedure completion rate. Acceptability as determined by participant report. Change in serum estradiol levels (pg/mL). Change in serum procollagen type I intact N-terminal propeptide (P1NP) levels (mcg/L). Change in serum C-terminal telopeptide of type I collagen (CTX-1) levels (pg/mL). Change in lumbar spine bone mineral density assessed by dual-energy x-ray absorptiometry (DXA). Change in quality of life as assessed by Cystic Fibrosis Respiratory Symptom Diary - Chronic Respiratory Infection Symptom Score (CFRSD-CRISS) questionnaire

<https://ClinicalTrials.gov/show/NCT05704036>

### Keywords

estrogens; estradiol; Hormones; pharmacological\_intervention;