

## **STATISTICAL ANALYSIS PLAN**

**Official Title: *Utilization of a Cutaneous Therapy In Situ Microdevice***

**NCT Number: *NCT Not Yet Assigned***

**Document Date: *11/11/2025***

**Sponsor: *University of California, San Francisco***

## **Overview**

This is a feasibility study. The primary goal is to determine whether high-quality tissue suitable for multi-parameter analysis can be obtained following microdevice placement and retrieval. The focus is on qualitative assessment, not formal hypothesis testing.

## **Primary Analysis Plan**

A small region of tissue surrounding the microdevice will be analyzed by immunohistochemistry (IHC), immunofluorescence (IF), and/or spatial transcriptomics to evaluate local anti-inflammatory effects of microdosed agents. The main purpose of this study is qualitative feasibility-- to assess whether IHC, IF, and/or transcriptomic approaches are technically achievable and interpretable from retrieved tissue.

## **Outcome Summary**

Results will be summarized descriptively, including:

- Ability to obtain usable tissue
- Whether IHC/IF/spatial data are technically interpretable

No formal sample size justification or powered hypothesis testing is planned.