

MULTI-STATE, DE-IDENTIFIED CANNABIS DATA FOR HEALTH RESEARCH

Advancing Real-World Evidence for Cannabis and Health

About MSA

Management Science Associates (MSA) is a data-driven company with more than 60 years of experience managing large and complex datasets across industries, including healthcare. We link dispensary cannabis consumption data with individual-level electronic health records (EHR) to create comprehensive datasets that generate real-world evidence on cannabis' health impact.

Real-World Data

~100,000 cannabis users, via partnerships with multi-state cannabis operators and EHR partners.

States: MN, UT, PA, with expansion underway.

Clinical data: Demographics, Health Conditions, Medications, Allergies, Diagnostic tests, Vitals.

Time coverage: 2016 - 2025

Cannabis Transactions: Location, frequency, quantity, dates.

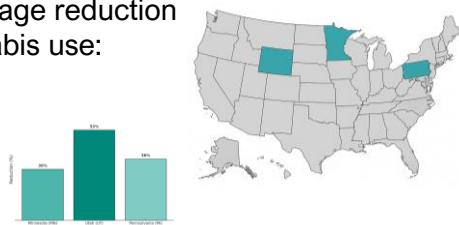
Product Specifics: Forms, Strains, Cannabinoid and Terpene contents and ratios.

Key Insights

Cannabis & Opioids in Chronic Pain

Opioid dosage reduction after cannabis use:

MN: 30%
UT: 53%
PA: 36%



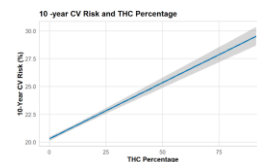
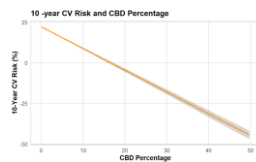
Across states we observed a 45% reduction in fentanyl monthly dose.

Why this matters for Health Research

- Enhances existing datasets to investigate cannabis and health outcomes.
- Provides longitudinal data across multiple health conditions.
- Expands geographic and demographic representation.

Cannabis & Cardiovascular Risk

In UT and MN, cannabis use was associated with a lower Systolic BP, higher Total and HDL cholesterol, and lower LDL cholesterol. THC and CBD percentages impact CV risk.



Partnership opportunities:

- Data integration with existing registries.
- Joint analyses to address research questions.
- Co-authored publications in journals.

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