

TransitionTracker: Preliminary Data Schema Summary (v0.9)

Project purpose: Enable trans individuals to self-track physical and psychosocial changes during transition while optionally contributing anonymous, de-identified, opt-in data to support longitudinal research on gender-affirming care outcomes.

1. Participant Information (anonymous identifiers)

Variable	Description	Type	Source	Frequency	Anonymization
uuid	Randomly generated unique participant ID	String	App	Once	Non-reversible
consent_version	Version of consent agreement signed	Text	App	Once	Non-identifying
country_region	Broad region (e.g., 'EU-Western Europe')	Categorical	User input	Once	Coarsened

2. Transition & Treatment Data

Variable	Description	Type	Source	Frequency	Anonymization
transition_stage	Self-defined stage (pre-HRT, etc.)	Ordinal	User	Manual	Non-identifying
hormone_type	Estradiol, Testosterone, blockers, etc.	Categorical	User	As needed	Non-identifying
hormone_dose	Dosage and form	Numeric/Text	User	Manual	Non-identifying
medication_schedule	Calendar of intake/injection events	Timestamps	User	Continuous	Non-identifying

3. Daily Check-in Metrics (summary)

Includes mood_score, energy_score, dysphoria_score, anxiety_score, sleep_quality, and free-text notes.

4. Biometric & Physiological Data (HealthKit)

Variables: resting_heart_rate, HRV, sleep_duration, activity_minutes, steps_count, body_weight.

5. Voice Analysis Module (optional)

Variables: fundamental_frequency_mean, range, pitch_note_equivalent, and timestamps. No raw audio retained.

6. Optional Psychosocial & Contextual Metrics

Variables: social_support_score, public_comfort_score, exercise_frequency, menstrual_status.

7. Metadata & Privacy Controls

- Export format: Encrypted JSON/CSV with dictionary.
- Governance: Full opt-in, revocable.
- IRB alignment: reviewed before data collection.
- GDPR: no IP, email, or GPS exported.