

Cases with 10+ visits,
304.* ICD-9 code,
20+ years old
n=11,573



Controls with 10+ visits,
No addiction ICD-9 codes,
20+ years old
n=828,062



Labs/vitals for cases + controls,
outlier removal
Cases: 9,520; Controls: 707,015



Optional removal of sparse patients, labs,
and vitals
Non-sparse Cases: 7,797



Case-control matching (1:10) with
replacement by age, gender, race, HIV,
hepatitis C, sickle-cell status using kNN