

CENTER FOR GLOBAL CLINICAL RESEARCH DATA



Background

This document applies *only* to clinical trial data shared on the Vivli platform. Other organizations or industries may take different approaches. The Future of Privacy Forum's <u>A Visual Guide to Practical Data De-Identification</u> offers an overview of data identifiability more broadly.





Source data is the information the investigator <u>directly</u> records in the patient record, direct observations, lab results, or data which the patient records directly into questionnaires

Jonathan Bob Jones

23April **1966** DOB 58 years old

Chicago, IL Investigative site Site 45678

04Aug2017 First dose of study drug 04 Aug 2017

14Aug2017 2nd study visit **14 Aug 2017**



Bolded information is in clinical databases



Each investigative site maintains a listing of the patient's name and the assigned study subject

Not Coded

Source Data

Jonathan Bob Jones

23 April **1966** DOB

Chicago, IL Investigative site

04Aug2017 First dose of study drug

14Aug2017 2nd study visit

Pseudonymized or De-identified

(aka key coded)

number.

Subject 123

58 years old

Site **45678**

Day 0

Day 10

Pseudonymized is popular in Europe De-identified is popular in N. America

Many privacy laws allow the data to be disclosed or shared for secondary purposes with consent once data is de-identified / pseudonymized

De-identification standard in the U.S is Safe Harbor (as part of HIPAA)

We can track backwards that Subject 123 is Jonathan Bob Jones as the key is preserved between name and Subject ID





Pseudonymized or De-identified

(aka key coded)

Subject 123

58 years old

Site **45678**

Day 0

Day 10



Sever link and Key Scrambled and destroyed now we cannot link Subject 890 to 123 or Jonathan **Bob Jones**



Anonymized

can be applied



Subject 890

Aged 50-60

US

Study Day 0

Study Day 10

Multiple methods

Applied a risk reduction algorithm to mitigate re-id Put age in 10 yr age bins for example, day offsets, redact AE narratives etc

Vivli requires Anonymized data to be contributed to the platform



Source data is the information the investigator directly records in the patient record.



Source Data

Jonathan Bob Jones

23 April **1966** DOB

Chicago, IL Investigative site

04Aug2017 First dose of study drug

14Aug2017 2nd study visit

The methodology applied known and maintained be tracked record. can backwards that subject was Jonathan Bob Jones



Pseudonymized or De-identified

(aka key coded) Subject 123

58 years old

Site **45678**

Day 0

Day 10

The methodology is applied no record of it is maintained. Subject 890 can NOT be tracked back as 123. requires anonymized data to be contributed



Anonymized



Aged 50-65

US

Study Day 0

Study Day 10







Providing Anonymized Data— How Vivli can help



PIs and their teams will need to decide if they have the capability and capacity to anonymize their data before uploading to Vivli.



To assist in this process, Vivli partners with d-wise and Privacy Analytics, industry leaders in health data-sharing methods and technologies, data security and de-identification. Our partners offer anonymization services to individuals and organizations who wish to share clinical research data on the Vivli platform. For more information, contact support@vivli.org.

