## THE WORLD UPSIDE DOWN

The impact of SDTM datasets on the build of your eCRF





One of the most important end to end links is the link between the (e)CRF build and the mapping of the collected data into SDTM datasets.



## THE SMALLER HURDLES

Due to technical limitations, and lack of knowledge and experience



### Demographic Information

Birth Date: BRTHDTC

Sex: SEX Race: RACE Ethnicity: ETHNIC Note:

When option 'BLACK' is chosen for RACE, it will be coded as 'BLACK OR

AFRICAN AMERICAN'

When option 'AMERICAN INDIAN OR ALASKAN NATIVE' is chosen for RACE.

it will be coded as 'AMERICAN INDIAN OR ALASKA NATIVE'

When option 'UNKNOWN' is chosen for RACE, a record will be created in the

CO domain with

RDOMAIN = DM, COREF = RACE and COVAL = UNKNOWN

Race	AMERICAN INDIAN OR ALASKA NATIVE
Race	BLACK OR AFRICAN AMERICAN
Race	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER
Race	WHITE
Race	ASIAN



# SGS NON-COMPLIANT DATA STRUCTURE

### Vital signs supine

Test	Result	Unit	Ref Range	Clin. Sign.	Comment	
Blood pressure	VSORRES when VSTESTCD = SYSBI VSORRES when VSTESTCD = DIABP		100-160 60-9	6		
Heart Rate VS	ORRES when VSTESTCD = HR	bpm	60-100			



Physical Exam			Intentionally left blank.
Physical exam was performed on:	at:		•
If abnormal, specify clinically signific	ant (cs) or not clinically significant (ncs)	and r	ecord findings.
Head, Ears, Eyes, Nose, and Throat			
Specify findings: Normal Abnorm	al Not Done		
Findings:			
cs			
ncs			
			l
			PERIOD 1
Blood PK / Blood PK			
Timepoint: Day 1 5h	TPT = 5H		☐ Missed
Sample date - time:// :	TPTNUM = 300		



# **AMBIGUITY**

An unclear CRF makes it difficult to create a correct SDTM database

	Spirometry parameters				
	Date performed	XPDTC [NOT		te as visit date	
	If 'Other date', please specify (da	MMM yyyy)	XPDTC		
	Time performed (24h time clock)		XPDTC		
XPGRPID = 1	First FEV <sub>1</sub> measurement	XPORRES when XPTESTCD = FEV	1	Fixed Unit: L	XPORRESU
XPGRPID = 2	Second FEV <sub>1</sub> measurement	XPORRES when XPTESTCD = FEV	1	Fixed Unit: L	
XPGRPID = 3	Third FEV <sub>1</sub> measurement	XPORRES when XPTESTCD = FEV	1	Fixed Unit: L	

# SGS AMBIGUITY

Spirometry parameters		
Date performed	Same date as visit date	🤌 0 🛭
If 'Other date', please specify (dd MMM yyyy)		<i>≫ 0</i> 🛭
Time performed (24h time clock)	17:33	<i>≫ β</i> 🛭
First FEV <sub>1</sub> measurement	12 L	<i>≥</i> 8 ⊠
Second FEV, measurement	11 L	<i>≫ 1</i> 🛭
Third FEV <sub>1</sub> measurement	10 L	<i>≫</i> 8 🛭



- Assign the baseline flag
- Indicate the best measurement for analysis



USUBJID	XP SEQ	XP GRPID	XP TESTCD	XP ORRES	XP ORRESU	XP BLFL	VISITNUM	VISIT	XP DTC
Xxxxx-xxxxx1	10	1	FEV1	12.00	L	Y	2000	DAY0	2015-02-06T17:33
Xxxxx-xxxxx1	11	2	FEV1	11.00	L	Y	2000	DAY0	2015-02-06T17:33
Xxxxx-xxxxx1	12	3	FEV1	10.00	L	Y	2000	DAY0	2015-02-06T17:33



# **LEGACY CONVERSION**

Processing a CRF created without SDTM in mind

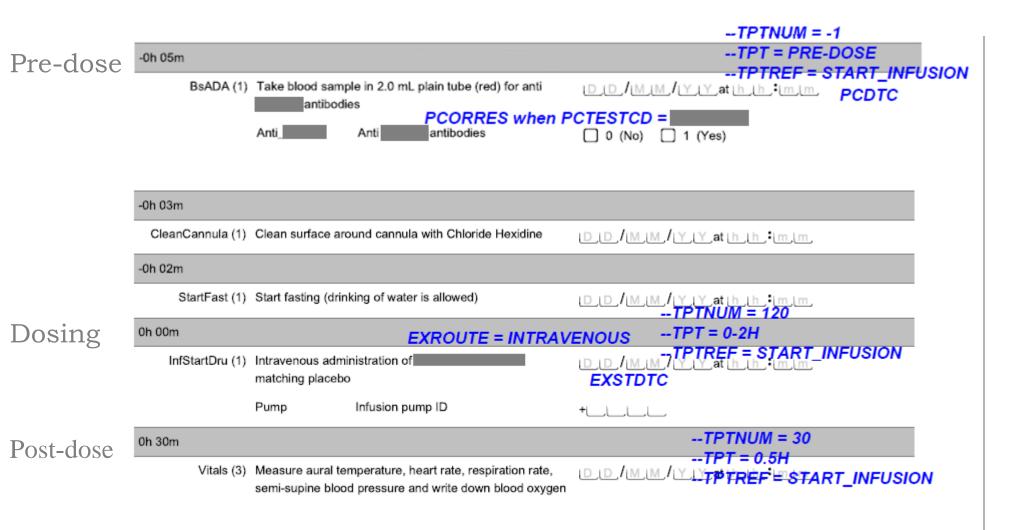


Pre- Zhrs 4hrs 6hrs 12hrs infusion post post post post	Assessments	(21 days)7	1.1.1.	. NI-0101	Treatment - 9	Study Days (	SDs)			SDs 3	Follo	ow up		-8 & EOS	Additional	Visit (WD)	Visit (UV)
start of start of infusion infusion infusion infusion infusion				on post start of	post start of	post start of	post start of	1	2	3 4	2	3 4	ь	8/EOS <sub>9</sub>	PK Visits if necessary10		

-11h 00m	
Sleep (1) Subject can sleep	DD/MM/YYathh:mm
-3h 00m	
Wake (1) Wake up subject	DD/MM/YYathh:mmDTC
-2h 00m	
Breakfast (1) Serve breakfast	(D,D/(M,M/(Y,(Y,at(h,th:tm,tm)



### LEGACY CONVERSION





		PERIOD 1
Blood PK / Blood PK		
Timepoint: Day 1 5h	TPT = 5H	☐ Missed
Sample date - time:// :	TPTNUM = 300	
Blood PK / Blood PK		
Timepoint: Day 1 6h	TPT = 6H	☐ Missed
Sample date - time:// :	TPTNUM = 360	
ECG	TPT = 8H	
	TPTNUM = 480	
Timepoint: Day 1 8h		☐ Missed
Sample date - time:// :		

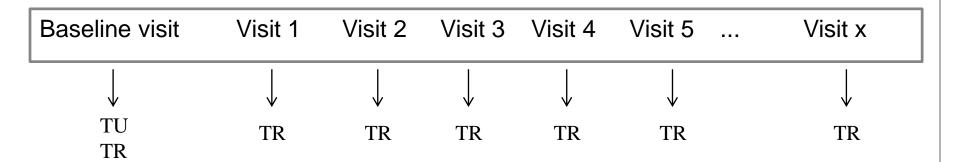


# LINKING DATA

Loss of linking between the tumor datasets TU and TR



## COLLECTION OF TU AND TR



- TU: represents data that uniquely identifies tumors (i.e. malignant tumors and other sites of disease, e.g. lymph nodes).
- TR: represents quantitative measurements and/or qualitative assessments of the tumors i.e. malignant tumors and other sites of disease, e.g. lymph nodes) identified in the TU domain.



### LINK BETWEEN TU AND TR

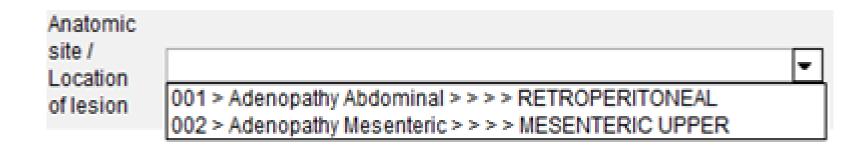
TULNKID	TUTESTCD	TUTEST	TUORRES	TULOC	TUMETHOD	VISIT	TUDTC
	TUMIDENT	Tumor Identification	ASSESSABLE TUMOR LESION	ADENOPATHY CERVICAL	SPIRAL CT	SCREENING	2012-11-01
	TUMIDENT	Tumor Identification	MEASURABLE TUMOR LESION	ADENOPATHY INGUINAL	SPIRAL CT	SCREENING	2012-11-01
	TUMIDENT	Tumor Identification	MEASURABLE TUMOR LESION	ADENOPATHY PARATRACHEAL	SPIRAL CT	SCREENING	2012-11-01

Which tumor results are linked to each identification information?

TRLNKID	TRTESTCD	TRTEST	TRORRES	TRORRESU	TRMETHOD	VISIT	TRDTC
	LONGAXIS	Long Axis	55.0	mm	SPIRAL CT	SCREENING	2012-10-11
	SHRTAXIS	Short Axis	27.0	mm	SPIRAL CT	SCREENING	2012-10-11
	LONGAXIS	Long Axis	53.0	mm	SPIRAL CT	VISIT 1	2013-01-16
	SHRTAXIS	Short Axis	24.0	mm	SPIRAL CT	VISIT 1 Sar	me Tumor ?
	LONGAXIS	Long Axis	30.0	mm	SPIRAL CT	VISIT 1	2013-04-15
	SHRTAXIS	Short Axis	7.0	mm	SPIRAL CT	VISIT 1	2013-04-15
	LONGAXIS	Long Axis	12.0	mm	SPIRAL CT	VISIT 2	2013-05-20
	SHRTAXIS	Short Axis	6.0	mm	SPIRAL CT	YISIT 2	2013-05-20
						7	•



### LINK BETWEEN TU AND TR





### LINK BETWEEN TU AND TR

TUGRPIE	TULNKID	TUTESTCD	TUTEST	TUORRES	TULOC		TUMETHO	VISIT	TUDTC
M2	M2	TUMIDENT	Tumor Identification	MEASURAB TUMOR LES		PATHY RACHEAL	SPIRAL CT	SCREENING	2012-11-01
TRLNKI	D TRTESTO	D TRTEST	. ]	TRORRES	TRORRESU	TRMETHO	DD V	ISIT	TRDTC
M2	LONGAXI	S Long Axi	s 5	55.0	mm	SPIRAL C	T S	CREENING 2	2012-10-11
M2	SHRTAXIS	S Short Ax	is 2	27.0	mm	SPIRAL C	T S	CREENING 2	2012-10-11
M2	LONGAXI	S Long Axi	s E	53.0	mm	SPIRAL C	T V	ISIT 1	2013-01-16
M2	SHRTAXIS	S Short Ax	is 2	24.0	mm	SPIRAL C	T V	ISIT 1 2	2013-01-16

# SGS SPLIT LESIONS

TUGF	RPID	TULNKID	TUTESTCD	TUTEST	TUORRES	TULOC	TUMETHOD	VISIT	TUDTC
M2		M2	TUMIDENT	Tumor Identification	MEASURABLE TUMOR LESION	ADENOPATHY PARATRACHEA L	SPIRAL CT	SCREENING	2012-11-01
M2		M2.1	TUMIDENT	Tumor Identification	MEASURABLE TUMOR LESION	ADENOPATHY PARATRACHEA L	SPIRAL CT	VISIT 2	2013-04-15
M2		M2.2	TUMIDENT	Tumor Identification	MEASURABLE TUMOR LESION	ADENOPATHY PARATRACHEA L	SPIRAL CT	VISIT 2	2013-04-15



Did this lesion split up?	[Not submitted]	Yes
		$N \circ \bigcup$

If 'Yes', please specify the sequence number SUPPTR.QVAL when QNAM = TRSEQNO and IDVAR = TRGRPID

Note: In case of a split lesion at this time point, TUCAT, TULOC will be populated with the values of the corresponding original lesion, identified at screening. Linking will be done on TULNKID.



### TAKE AWAY

Think

CRF review

Experience

Lessons Learned



Questions and discussion