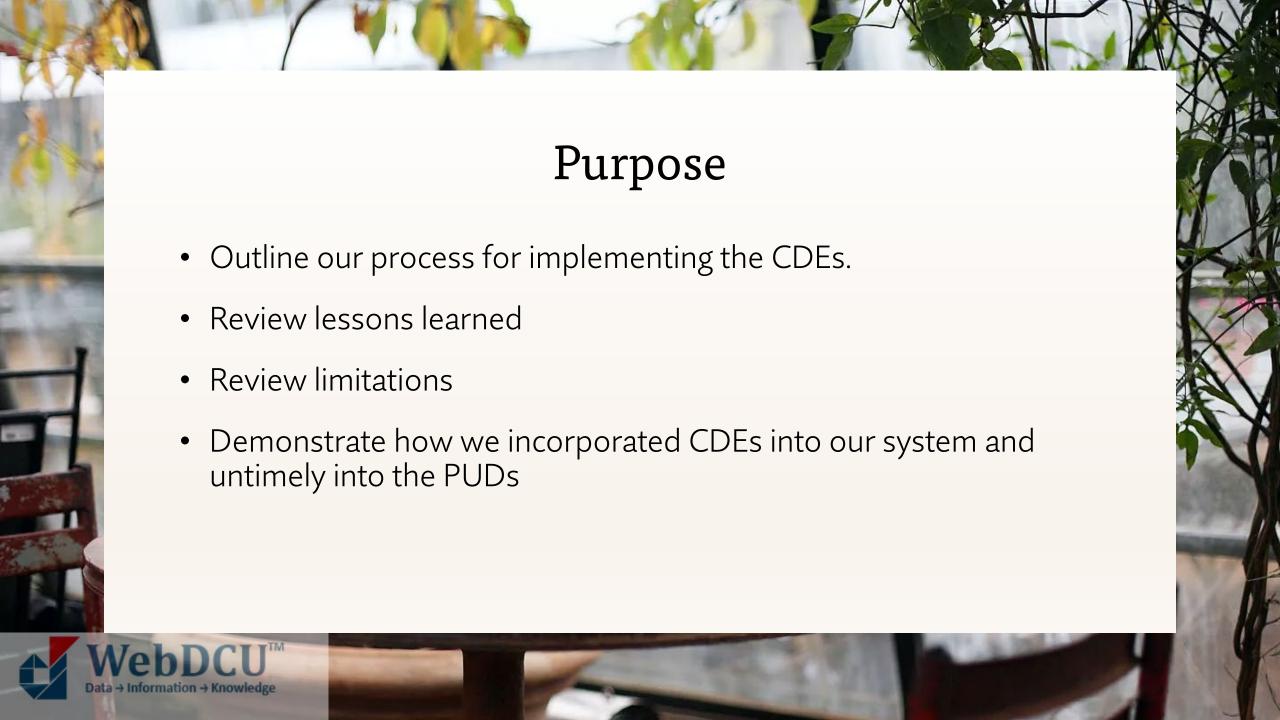
Implementation of NINDS CDEs: Lessons Learned

Sara Meyer and Jocelyn Craven





StrokeNet = NINDS CDE + NINDS Repository

SIREN = NINDS CDE + FITBIR Repository



Network







Direct vs. Indirect Mapping

Direct Mapping Example:

- Adverse Event Grade: CDE ID: C02305
 - DCU Permissible Values

○ (1) Grade 1 ○ (2) Grade 2 Grade ○ (3) Grade 3 ○ (4) Grade 4 ○ (5) Grade 5

NINDS CDE Permissible Values

permissible_values
Grade 1; Grade 2; Grade 3; Grade 4; Grade 5;

Indirect Mapping Example:

- Drug abuse / Drug current illicit use indicator: CDE ID: C00713
 - o DCU Permissible Values

Drug abuse ○ (1) No ○ (2) Active ○ (3) Inactive

NINDS CDE Permissible /values

crf_id	cde_id	variable_name	cde_name	permissible_values
F0303	C00713	DrgSubstCurrntlllicitUseInd	Drug or substance current illicit use indicator	Yes; No; Unknown;



Incorporating CDEs in CTMS

#	Form name	CRF number	List order	Database column name	User interface field name	Data type	Code Group ID	Is required	Derived	Included in PUD	NINDS CDE ID	NINDS CDE name	Definition
1	104	104	10	Q01	Adverse Event Name	Text			Not	Include	C02307	AdvrsEvntVerbatimTermText	Local
2	104	104	20	Q02	Grade	Radio button options	67		Not	Include	C02305	AdvrsEvntSeverScale	Local
3	104	104	30	Q03	Serious	Radio button options	51		Not	Include	C02309	SeriousAdvrsEvntInd	Local
4	104	104	40	Q04	Relatedness to study intervention	Radio button options	533		Not	Include	C02304	AdvrsEvntRelatednessScale	Local
5	104	104	50	Q05	Date of onset	Date/Time			Not	Days from project-specific Day-Zero based on Local Time	C02306	AdvrsEvntStartDateTime	Local
6	104	104	60	Q06	Time of onset	Date/Time				Minutes from project- specific Time-Zero based on UTC Time	C02306	AdvrsEvntStartDateTime	Local
7	104	104	70	Q07	Outcome	Radio button options	534		Not	Include	C02303	AdvrsEvntOutcomStatus	Local
8	104	104	80	Q08	Date of resolution	Date/Time			Not	Days from project-specific Day-Zero based on Local Time	C02301	AdverseEvntEndDateTime	Local
9	104	104	100	Q09	Study intervention interrupted	Radio button options	51		Not	Include	C02300	AdvEvntStdyIntrvntActTakenTyp _StudyInterventionInterrupted	Local
10	104	104	110	Q10	Study intervention discontinued	Radio button options	51		Not	Include	C02300	AdvEvntStdyIntrvntActTakenTyp _StudyInterventionDiscontinued	Local
11	104	104	120	Q11	Study intervention modified	Radio button options	51		Not	Include	C02300	AdvEvntStdyIntrvntActTakenTyp _StudyInterventionModified	Local
12	104	104	190	Q12	Describe event or problem	Text		No	Not	Not included	C17447		Local
13	104	104	200	Q13	Relevant tests/ laboratory data, including dates	Text		No	Not	Not included			Local
14	104	104	210	Q14	Other relevant history, including pre-existing medical conditions	Text		No	Not	Not included			Local



PUDS



Built from BRICS



National Institute of Neurological Disorders and Stroke

Suggestions?

- 1. NINDS CDE Website Usability
 - Bring the search function to the top of the page, rather than the side.
 - Make it easier to find the CDE definitions and answer choices without needing to download them.

- 1. FITBIR WebDCU Usability
 - Filter already applied on the side of the page.
- 2. FITBIR Two-Factor Requirements

Summary of Limitations and Lessons Learned

- 1. Begin adding CDE IDs after CRFs have been fully finalized
- 2. Keep a summary of the common CDE used for standard questions.
- 3. Review the CDEs with statisticians before sending them for approval.
- 4. Be mindful of indirect mapping
- 5. Send the CDE for approval early.
- 6. Add CDEs to CTMS after approval don't wait.

- 7. Be careful when adding or adjusting CDEs after data additions, removals or changes since there is no re-approval of CDEs.
- 8. Be attentive to CDE changes or updates.
- 9. Incorporation on CDEs into the study database streamlines PUDS creation.
- 10. Be cautious of differences between repositories



Thank you

