

Introduction to the Data Quality Summary

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September 26, 2016



The National Center for Fatality Review and Prevention

National Center for Fatality Review and Prevention

The National Center for Fatality Review and Prevention is a resource and data center that supports child death review (CDR) and fetal and infant mortality review (FIMR) programs around the country.

It is funded in part by Cooperative Agreement Number UG7MC28482 from the U.S. Department of Health and Human Services (HHS), Health Resources Services Administration (HRSA), Maternal and Child Health Bureau (MCHB).

Webinar Agenda

- Review components of NCFRP Data Quality Initiative
- Introduce your state Data Quality Summary Report

Background

Data Quality Initiative

Goal:

Improve the quality and consistency of the data entered into the CRS in an effort to improve usefulness of the data at the state and national level for identifying prevention strategies and monitoring the effectiveness of prevention measures that have been implemented.

Components of the Data Quality Initiative

- Convene workgroup
- Identify priority variables for monitoring data quality
 - How important is variable (for prevention/systems)?
 - How easy/possible is it to obtain?
- Develop written guidance
- Develop a data quality summary report
 - Baseline analysis, deaths occurring in 2014
- Data Quality Webinar to all CRS users, June 2016
- Technical Assistance to select states
- CRS user survey

Overview of Priority Variables

- In most cases, ONLY the “gatekeeper” questions monitored.
 - That is, if there is a follow-up question we will only monitor completeness of the initial question.
 - For example, in A23: *Child had history of child maltreatment? If yes, specify.* We will only monitor “Did child have a history of child maltreatment?”
- CORE variables

Written Guidance

Goal:

Increase consistency within and across states in completing the priority variables in the CRS.

- Lists the priority variables along with definitions and guidance for completing each variable.
- Includes **ONLY** the priority variables identified by the Data Quality Workgroup.
- Intended as a streamlined reference for specific guidance on completing the priority variables.
- Does **NOT** replace the CRS data dictionary.

Data Quality Summary

CDR-CRS Data Quality Priority Variables Variables highlighted in PINK are designated CORE variables		CDR_CRS Data Quality Summary											
		How data* from all states looks right now				How your state's data look right now				How your state's data looked at the same time last year			
		All States 2014 (n=12,528)				Your State 2014 (n=###)				Your State			
CDR-CRS DQ Priority Variables		Missing		Unknown		Missing		Unknown		Missing		Unknown	
		N	%	N	%	N	%	N	%	N	%	N	%
A4	Child's age	26	0.2	1	0								
A5	Child's race	426	3.4	191	1.5								
A6	Hispanic origin	777	6.2	371	3								
A7	Child's sex	113	0.9	13	0.1								
A19	Child's health insurance	3299	26.3	4266	34.1								
A20	Child had disability or chronic illness	3274	26.1	1639	13.1								
A21	Child's mental health: Had received services	1635	13.1	1475	11.8								
	Child's mental health: Was receiving services	1685	13.4	1489	11.9								
	Child's mental health: On meds for MH issue	1711	13.7	1489	11.9								
	Child's mental health: Issues prevented from receiving services	1738	13.9	1658	13.2								
A23	Child had history of maltreatment as victim	5268	42	1106	8.8								
A24	Open CPS case with child at time of death	3164	25.3	1240	9.9								
A34	Gestional age (Infants only; n=6991 /n=###)	724	10.4	458	6.6								
A35	Birth weight (Infants only)	808	11.6	712	10.2								
A36	Multiple birth? (Infants only)	1243	17.8	172	2.5								
A40	Prenatal care provided during pregnancy of deceased infant	1264	18.1	1013	14.5								
A44	Did mother smoke at any time during pregnancy (Infants only)	1445	20.7	1306	18.7								
B1	Primary Caregiver (CG) 1 (relationship to decedent)	2176	17.4	138	1.1								
B2	CG1 age in years	2694	21.5	1948	15.5								
B3	CG1 sex	2498	19.9	257	2.1								
C1	Did child have supervision at time of incident	2372	18.9	527	4.2								
C4	Person responsible for supervision (relationship; n=10419)	2912	27.9	50	0.5								
C5	Supervisor age in years (n=10419)	5526	53	1010	9.7								
C6	Supervisor sex (n=10419)	5413	52	172	1.7								



Missing/Unknown Distinction

- CRS developed so all fields set to missing
- Response of 'unknown' indicates team discussed and information not known or available
- Missing indicates question was skipped or not discussed/mentioned during review
- Data quality summary takes CRS skip patterns into consideration

Baseline Data

- 2014 chosen as baseline year for monitoring data quality
- All deaths that occurred in 2014 and entered into the CRS by 5pm EDT on June 30, 2016 are included

How to read DQ Summary Report

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CDR-CRS DQ Priority Variables		Missing		Unknown		Missing		Unknown		Missing		Unknown	
		N	%	N	%	N	%	N	%	N	%	N	%
G10b	Death expected as result of this condition	1650	28	1154	19.6	6	1.1	102	18.6				
G10c	Receiving care for condition	1698	28.8	451	7.7	9	1.6	27	4.9				
H1a	Was this death a homicide...	8334	66.5	156	1.2	703	84.3	4	0.5				
H2	Was death related to sleeping/sleep environ (< 5yo n=8560 /n=618)	1682	19.6	245	2.9	11	1.8	9	1.5				
H2a	Incident sleep place (Sleep env=yes: n=2105 /n=89)	29	1.4	20	1	0		1	1.1				
H2b	Put to sleep on...	84	4	355	16.9	0		11	12.4				
H2c	Child found:	98	4.7	339	16.1	2	2.2	9	10.1				
H2d	Usual sleep place	157	7.5	605	28.7	0		14	15.7				
H2e	Usual sleep position	182	8.6	801	38.1	0		27	30.3				
H2f	Bassinette/port-a-crib in home	155	7.4	463	22	0		15	16.9				
H2h	Pacifier	201	9.5	680	32.3	1	1.1	45	50.6				
H2i	Swaddled	170	8.1	491	23.3	0		29	32.6				
H2k	Child exposed to 2nd hand smoke	186	8.8	780	37.1	0		32	36.0				
H2l	Child face when found:	152	7.2	494	23.5	2	2.2	17	19.1				
H2o	Objects in the child's sleep environment	117	5.6	0		1	1.1						

How to use DQ Summary Report

- Training tool
- Monitor data quality; compare to national
- Evaluate state data quality program
- Run reports more frequently (e.g., quarterly)
- Stratify by county or region to see how individual teams are doing
- Technical Assistance available from NCFRP
- Future plan: Set goals/targets

Summary

- Modeled after the SUID and SDY registry data quality summaries
- Includes # and % of missing and unknown responses for each of the priority variables for the national data and your state
- 2014 chosen as baseline year
- Data account for skip patterns in the CRS
- Updated annually and sent to State CDR Coordinators
- Can be used as a training tool and to monitor data quality in your state

Thank you!

- Contact us if you have questions or comments:
info@NCFRP.org