

eVital Standards Initiative

Michelle Williamson, MS, RN, CPHIT

Senior Health Informatics Scientist

National Committee on Vital and Health Statistics

May 28, 2015

National Center for Health Statistics

Classifications and Public Health Data Standards Staff



eVital Standards Initiative

To provide support for the development of Vital Records (VR) standards to enable interoperable electronic data exchanges among electronic health record systems, U.S. vital records systems and potentially other public health information systems for birth, death and fetal death events

Electronic Health Record and Vital Record Systems Information Exchange

Capturing birth and death data in electronic health record systems



Electronic exchange using Health Level Seven International (HL7) and Integrating the Healthcare Enterprise (IHE) -based standards

Improving the timeliness, accuracy, and completeness of vital records data



Published eVital Standards for Trial Implementation



For Birth/Fetal Death and Death Reporting

- Messaging Standards (HL7 V2.5.1) DSTU
- Document Standards (HL7 CDA) DSTU
- Content Profiles (IHE)
- Data Models (HL7)
- Functional Profiles (HL7)


http://www.cdc.gov/nchs/nvss/about_nvss.htm#evital_update

Published eVital Standards for Trial Implementation


Vocabulary Standards








<https://phinvads.cdc.gov/vads/SearchVocab.action>

All Vocabulary | [Views \(Msg. Guides\)](#) | [Value Sets](#) | [Value Set Concepts](#) | [Code Systems](#) | [Code System Concepts](#) | [Groups](#)

 [Search All Vocabulary](#)

Views (Msg. Guides) (6) | [Value Sets \(26\)](#) | [Value Set Concepts \(553\)](#) | [Code Systems \(2\)](#) | [Code System Concepts \(719\)](#)

6 Views found  1

Select All	Clear All	 Download Selected	Download All
View Name		Version #	
<input type="checkbox"/>	IHE QRPH Birth & Fetal Death Reporting - Enhanced (BFDR-E)	3	 Details
<input type="checkbox"/>	IHE Vital Records Death Reporting (VRDR)	1	 Details
<input type="checkbox"/>	HL7 Version 2.5.1 Implementation Guide: Birth & Fetal Death Reporting, R1 DSTU	2	 Details
<input type="checkbox"/>	HL7 Implementation Guide for CDA Release 2: Birth & Fetal Death Report, DSTU R1	2	 Details
<input type="checkbox"/>	HL7 Implementation Guide for CDA Release 2: Vital Records Death Report, DSTU R1	1	 Details
<input type="checkbox"/>	HL7 Version 2.5.1 Implementation Guide: Vital Records Death Reporting, DSTU R1	1	 Details

Testing, Testing, Testing!

- Great to have available standards; however, standards can't effectively move from draft standards to final versions without trial and pilot implementation activities
- NCHS continues to support trial implementation testing at Integrating the Healthcare Enterprise (IHE) Connectathons



Supporting for Pilot Implementation Activities



Seeking funding opportunities to support pilot implementation activities

Support for Pilot Implementation Activities

Request for Task Order Proposal	Patient-Centered Outcomes Research Institute (PCORI) Project		
	Death reporting using VR standards research	Return of coded cause of death (COD) from NCHS to state VR using standards	Appropriate state dissemination of coded COD to support

Support for Pilot Implementation Activities

Request for Task Order Proposal	Developing a Quality Framework for Initial and Ongoing Evaluation of Birth Data Extracted from Electronic Health Records (EHRs) for Vital Statistics	
	Evaluate the quality of selected birth data extracted from EHR	Compare 2 jurisdictions and retrospective sample of births

Expanding Standards to Support NCHS and State Specific Implementations

- Published standards include requirements for EHR to VR systems birth/FD and death reporting for:

FACILITY WORKSHEET FOR THE LIVE BIRTH CERTIFICATE

FACILITY WORKSHEET FOR THE REPORT OF FETAL DEATH

- Expanding standard specifications to support
 - Reporting to NCHS
 - State specific requirements
 - Expansion beginning with state pilot testers

Standards Harmonization

- Collaborating with Standards Development Organizations, state partners and other stakeholders to support interoperability for common data requirements
 - HL7 Birth Defects Implementation Guide
 - IHE Early Hearing Detection and Intervention Profile
 - IHE Healthy Weight Profile

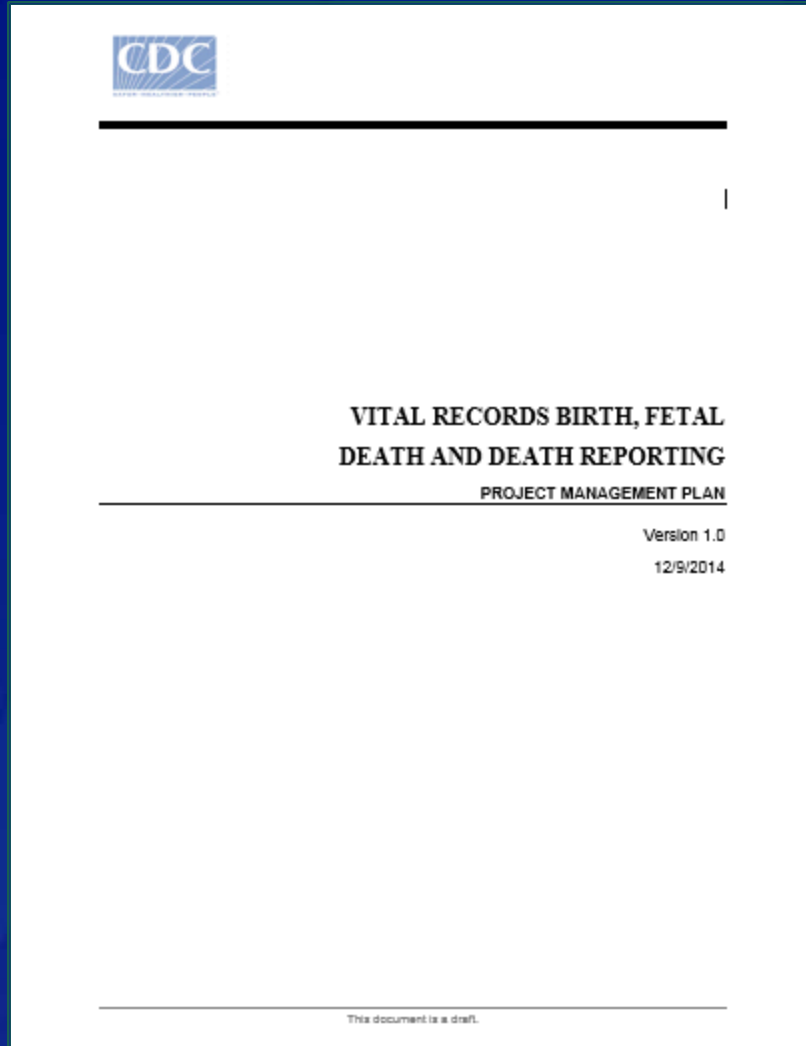


Outreach for eVitals Initiative



- Facilitating outreach to providers and state partners to explore the potential for additional VRpilot implementation activities
- Improving NCHSWebsite Content to provide information about eVitals initiative
- Developing material for dissemination by broad group of stakeholders: providers, states, vendors, etc.

Project Management Plan

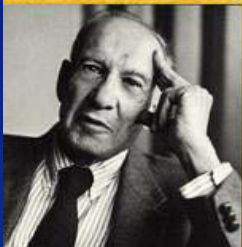


- Developed draft template for a project plan for implementing the VR standards
- Collaboration with VR state agency, EHR vendor and NCHS

Increasing Engagement in VR Standards Implementation Activities



**UNLESS
COMMITMENT IS
MADE, THERE ARE
ONLY PROMISES AND
HOPES... BUT NO
PLANS.**



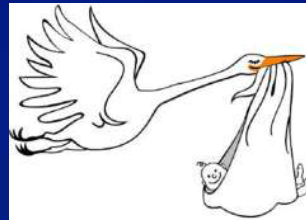
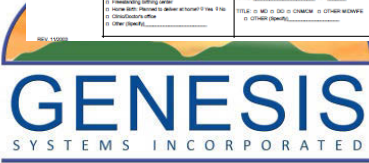
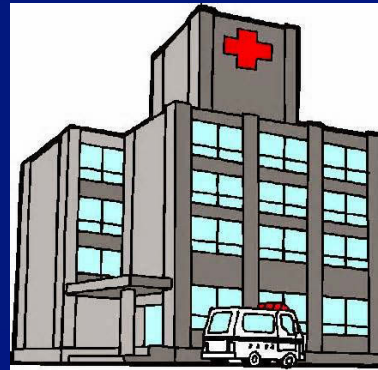
QUOTEHD.COM

Peter Drucker
Austrian-American Author

1909 - 2005

eBirth Demo

CHILD		U.S. STANDARD CERTIFICATE OF LIVE BIRTH		BIRTH NUMBER	
1. CHILD'S NAME (LAST, FIRST, MIDDLE, LAST, SUFFIX)		2. DATE OF BIRTH (MM/DD/YYYY)		3. SEX	
4. FATHER'S NAME (IF OTHER THAN FATHER, LAST AND SUFFIX)		5. CITY, TOWN, OR LOCATION OF BIRTH		6. COUNTY OF BIRTH	
7. MOTHER'S CURRENT LEGAL NAME (LAST, FIRST, MIDDLE, LAST, SUFFIX)		8. DATE OF BIRTH (MM/DD/YYYY)		9. SEX	
10. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		11. DATE OF BIRTH (MM/DD/YYYY)		12. SEX	
13. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		14. DATE OF BIRTH (MM/DD/YYYY)		15. SEX	
16. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		17. DATE OF BIRTH (MM/DD/YYYY)		18. SEX	
19. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		20. DATE OF BIRTH (MM/DD/YYYY)		21. SEX	
22. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		23. DATE OF BIRTH (MM/DD/YYYY)		24. SEX	
25. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		26. DATE OF BIRTH (MM/DD/YYYY)		27. SEX	
28. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		29. DATE OF BIRTH (MM/DD/YYYY)		30. SEX	
31. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		32. DATE OF BIRTH (MM/DD/YYYY)		33. SEX	
34. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		35. DATE OF BIRTH (MM/DD/YYYY)		36. SEX	
37. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		38. DATE OF BIRTH (MM/DD/YYYY)		39. SEX	
40. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		41. DATE OF BIRTH (MM/DD/YYYY)		42. SEX	
43. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		44. DATE OF BIRTH (MM/DD/YYYY)		45. SEX	
46. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		47. DATE OF BIRTH (MM/DD/YYYY)		48. SEX	
49. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		50. DATE OF BIRTH (MM/DD/YYYY)		51. SEX	
52. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		53. DATE OF BIRTH (MM/DD/YYYY)		54. SEX	
55. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		56. DATE OF BIRTH (MM/DD/YYYY)		57. SEX	
58. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		59. DATE OF BIRTH (MM/DD/YYYY)		60. SEX	
61. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		62. DATE OF BIRTH (MM/DD/YYYY)		63. SEX	
64. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		65. DATE OF BIRTH (MM/DD/YYYY)		66. SEX	
67. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		68. DATE OF BIRTH (MM/DD/YYYY)		69. SEX	
70. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		71. DATE OF BIRTH (MM/DD/YYYY)		72. SEX	
73. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		74. DATE OF BIRTH (MM/DD/YYYY)		75. SEX	
76. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		77. DATE OF BIRTH (MM/DD/YYYY)		78. SEX	
79. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		80. DATE OF BIRTH (MM/DD/YYYY)		81. SEX	
82. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		83. DATE OF BIRTH (MM/DD/YYYY)		84. SEX	
85. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		86. DATE OF BIRTH (MM/DD/YYYY)		87. SEX	
88. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		89. DATE OF BIRTH (MM/DD/YYYY)		90. SEX	
91. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		92. DATE OF BIRTH (MM/DD/YYYY)		93. SEX	
94. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		95. DATE OF BIRTH (MM/DD/YYYY)		96. SEX	
97. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		98. DATE OF BIRTH (MM/DD/YYYY)		99. SEX	
100. MOTHER'S CURRENT LEGAL ADDRESS (LAST, FIRST, MIDDLE, LAST, SUFFIX)		101. DATE OF BIRTH (MM/DD/YYYY)		102. SEX	



IHE Integrating
the Healthcare
Enterprise

LOCAL HEALTH DEPARTMENT		U.S. STANDARD CERTIFICATE OF LIVE BIRTH				BIRTH NUMBER	
CHILD	1. CHILD'S NAME (Last, first, middle, last name)	2. DATE OF BIRTH (month, day, year)		3. SEX	4. TIME OF BIRTH (hour, minute)	5. DATE OF BIRTH (month, day, year)	6. BIRTH NUMBER
	7. FACILITY NAME (If not available, give address and location)	8. CITY, TOWN, OR LOCATION OF BIRTH		9. COUNTY OF BIRTH		10. COUNTY OF BIRTH	
MOTHER	11. MOTHER'S CURRENT LEGAL NAME (Last, first, middle, last name)		12. DATE OF BIRTH (month, day, year)		13. COUNTY OF BIRTH		
	14. MOTHER'S HOME ADDRESS (To first residence; show street, house, lot, rural)		15. BIRTHPLACE (State, Territory, or Foreign Country)		16. COUNTY OF BIRTH		
FATHER	17. RESIDENCE OF FATHER (State)		18. COUNTY		19. CITY, TOWN, OR LOCATION		
	20. FATHER'S HOME ADDRESS (To first residence; show street, house, lot, rural)		21. BIRTHPLACE (State, Territory, or Foreign Country)		22. COUNTY OF BIRTH		
CERTIFIER	23. NAME OF CERTIFIER (Last, first, middle, last name)		24. TITLE OF CERTIFIER (State, Territory, or Foreign Country)		25. BIRTHPLACE (State, Territory, or Foreign Country)		
	26. DATE OF CERTIFICATION (month, day, year)		27. SIGNATURE OF CERTIFIER		28. DATE OF CERTIFICATION (month, day, year)		
MOTHER	29. MOTHER'S SOCIAL SECURITY NUMBER		30. FATHER'S SOCIAL SECURITY NUMBER		31. BIRTH NUMBER		
	32. MOTHER'S BIRTHPLACE (State, Territory, or Foreign Country)		33. FATHER'S BIRTHPLACE (State, Territory, or Foreign Country)		34. BIRTH NUMBER		
MOTHER	35. MOTHER'S BIRTHPLACE (State, Territory, or Foreign Country)		36. FATHER'S BIRTHPLACE (State, Territory, or Foreign Country)		37. BIRTH NUMBER		
	38. MOTHER'S BIRTHPLACE (State, Territory, or Foreign Country)		39. FATHER'S BIRTHPLACE (State, Territory, or Foreign Country)		40. BIRTH NUMBER		
FATHER	41. MOTHER'S BIRTHPLACE (State, Territory, or Foreign Country)		42. FATHER'S BIRTHPLACE (State, Territory, or Foreign Country)		43. BIRTH NUMBER		
	44. MOTHER'S BIRTHPLACE (State, Territory, or Foreign Country)		45. FATHER'S BIRTHPLACE (State, Territory, or Foreign Country)		46. BIRTH NUMBER		

[illegible]

eDeath Demo



U.S. STANDARD CERTIFICATE OF DEATH

1. DECEASED'S FULL NAME (Include middle name and initials) 2. SEX 3. RACE

4. PLACE OF BIRTH (Street, City, State, Zip) 5. DATE OF BIRTH (Month, Day, Year) 6. SOCIAL SECURITY NUMBER

7. RESIDENCE STATE 8. COUNTY 9. CITY OR TOWN

10. STREET OR HIGHWAY 11. APART. NO. 12. ZIP CODE 13. INSURE CITY NUMBER (If Yes, 14-16)

14. NAME OF LIFE INSURANCE 15. MARITAL STATUS AT TIME OF DEATH 16. SURVIVORS BY DEATH'S LAST WILL, PROBATE AND IN THE MARRIAGE

17. PATIENT'S LAST NAME, Middle, Last 18. DECEASED'S LAST NAME, Middle, Last 19. SURVIVORS BY DEATH'S LAST WILL, PROBATE AND IN THE MARRIAGE

20. DECEASED'S NAME 21. RELATIONSHIP TO DECEASED 22. SURVIVORS BY DEATH'S LAST WILL, PROBATE AND IN THE MARRIAGE

23. PLACE OF DEATH (See instructions and examples) 24. PLACE OF DEATH (See instructions and examples)

25. PLACE OF DEATH (See instructions and examples) 26. PLACE OF DEATH (See instructions and examples)

27. PLACE OF DEATH (See instructions and examples) 28. PLACE OF DEATH (See instructions and examples)

29. PLACE OF DEATH (See instructions and examples) 30. PLACE OF DEATH (See instructions and examples)

31. PLACE OF DEATH (See instructions and examples) 32. PLACE OF DEATH (See instructions and examples)

33. PLACE OF DEATH (See instructions and examples) 34. PLACE OF DEATH (See instructions and examples)

35. PLACE OF DEATH (See instructions and examples) 36. PLACE OF DEATH (See instructions and examples)

37. PLACE OF DEATH (See instructions and examples) 38. PLACE OF DEATH (See instructions and examples)

39. PLACE OF DEATH (See instructions and examples) 40. PLACE OF DEATH (See instructions and examples)

41. PLACE OF DEATH (See instructions and examples) 42. PLACE OF DEATH (See instructions and examples)

43. PLACE OF DEATH (See instructions and examples) 44. PLACE OF DEATH (See instructions and examples)

45. PLACE OF DEATH (See instructions and examples) 46. PLACE OF DEATH (See instructions and examples)

47. PLACE OF DEATH (See instructions and examples) 48. PLACE OF DEATH (See instructions and examples)

49. PLACE OF DEATH (See instructions and examples) 50. PLACE OF DEATH (See instructions and examples)

51. PLACE OF DEATH (See instructions and examples) 52. PLACE OF DEATH (See instructions and examples)

53. PLACE OF DEATH (See instructions and examples) 54. PLACE OF DEATH (See instructions and examples)

55. PLACE OF DEATH (See instructions and examples) 56. PLACE OF DEATH (See instructions and examples)

57. PLACE OF DEATH (See instructions and examples) 58. PLACE OF DEATH (See instructions and examples)

59. PLACE OF DEATH (See instructions and examples) 60. PLACE OF DEATH (See instructions and examples)

61. PLACE OF DEATH (See instructions and examples) 62. PLACE OF DEATH (See instructions and examples)

63. PLACE OF DEATH (See instructions and examples) 64. PLACE OF DEATH (See instructions and examples)

65. PLACE OF DEATH (See instructions and examples) 66. PLACE OF DEATH (See instructions and examples)

67. PLACE OF DEATH (See instructions and examples) 68. PLACE OF DEATH (See instructions and examples)

69. PLACE OF DEATH (See instructions and examples) 70. PLACE OF DEATH (See instructions and examples)

71. PLACE OF DEATH (See instructions and examples) 72. PLACE OF DEATH (See instructions and examples)

73. PLACE OF DEATH (See instructions and examples) 74. PLACE OF DEATH (See instructions and examples)

75. PLACE OF DEATH (See instructions and examples) 76. PLACE OF DEATH (See instructions and examples)

77. PLACE OF DEATH (See instructions and examples) 78. PLACE OF DEATH (See instructions and examples)

79. PLACE OF DEATH (See instructions and examples) 80. PLACE OF DEATH (See instructions and examples)

81. PLACE OF DEATH (See instructions and examples) 82. PLACE OF DEATH (See instructions and examples)

83. PLACE OF DEATH (See instructions and examples) 84. PLACE OF DEATH (See instructions and examples)

85. PLACE OF DEATH (See instructions and examples) 86. PLACE OF DEATH (See instructions and examples)

87. PLACE OF DEATH (See instructions and examples) 88. PLACE OF DEATH (See instructions and examples)

89. PLACE OF DEATH (See instructions and examples) 90. PLACE OF DEATH (See instructions and examples)

91. PLACE OF DEATH (See instructions and examples) 92. PLACE OF DEATH (See instructions and examples)

93. PLACE OF DEATH (See instructions and examples) 94. PLACE OF DEATH (See instructions and examples)

95. PLACE OF DEATH (See instructions and examples) 96. PLACE OF DEATH (See instructions and examples)

97. PLACE OF DEATH (See instructions and examples) 98. PLACE OF DEATH (See instructions and examples)

99. PLACE OF DEATH (See instructions and examples) 100. PLACE OF DEATH (See instructions and examples)