CARPHA Technical Support to Strengthen Mortality Surveillance Systems

Sarah Quesnel-Crooks

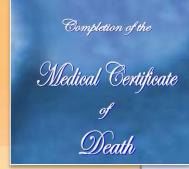
September 18, 2014
12th Meeting of Caribbean National Epidemiologists and Laboratory Directors
Port of Spain, Trinidad and Tobago





Mortality Coding Training Activities

- ICD-10 mortality coding and underlying cause of death selection
- Automated mortality coding: Mortality Medical Data System (MMDS)



Physician Training Activities

- Instructional video on the correct completion of the medical cause-ofdeath certificate
- Facilitate faceto-face sessions



Mortality-Related Training Activities

Committee	Year									
Country		2006	2007	2008	2009	2010	2011	2012	2013	2014
Regional mortality coding workshop										
Anguilla						*		*		+
Antigua & Barbuda			*			*		*		
Aruba						*		*		
Bahamas						*		*		
Barbados			*			*		*		
Belize			*			*		*		
Bermuda			*			*		*		
Bonaire, Saba, St. Eustatius										+
British Virgin Islands						*		*		
Cayman			*			*		*		
Curacao			*					*		
Dominica			*			*		*		
Grenada			*			*		*		
Guyana								*		
Haiti										+
Jamaica			*			*		*		
Montserrat			*			*		*		
St. Maarten								*		
St. Kitts & Nevis			*			*		*		
St Lucia			*			*		*		
St. Vincent and the Grenadines			*			*		*		+
Suriname						*		*		
Turks and Caicos Islands						*		*		+
Trinidad &Tobago			*			*		*		

Mortality coding						
MMDS						
Physician training						







- In-country support:
 - National mortality surveillance system evaluations and mortality data audits
 - Support to complete processing of cause-of-death certificates (data entry, coding, data analysis) as needed.
 - Remote technical support:
- Coordination of the Caribbean Mortality Coders Network
 - Troubleshooting on mortality coding and software-related issues.



Audits and Evaluations

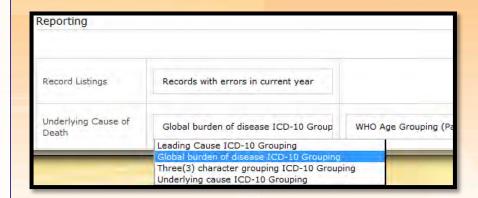
Country	Year										
Country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
Anguilla											
Antigua & Barbuda											
Aruba											
Bahamas											
Barbados											
Belize											
Bermuda											
Bonaire, Saba, St. Eustatius											
British Virgin Islands											
Cayman											
Curacao											
Dominica											
Grenada											
Guyana											
Haiti											
Jamaica											
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St. Maarten											
St. Kitts & Nevis											
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St. Vincent and the Grenadines											
Suriname											
Turks and Caicos Islands											
Trinidad &Tobago											

Audit and Evaluation Follow-up visit



Preventing disease, promoting and protecting health

- An in-house national mortality data capture and reporting system (Mortbase) developed:
 - Currently being used in at least 10 CMS
 - New version developed and currently implemented in Aruba



Application Tools – Mortbase 7

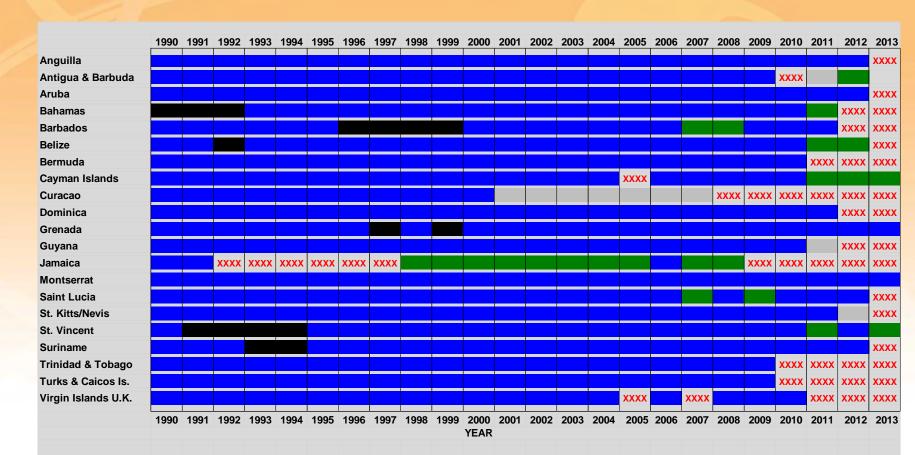




Data Collection

- CMS submit annual mortality data to CARPHA
- Data are validated in conjunction with focal persons in member states
- Data are collated and stored in the CARPHA regional mortality database.





CARPHA Mortality Log

Data submitted and validated

No individual data available for the period

Data submitted and pending validation by CARPHA

Pending final corrections by country

XXXXX No data received

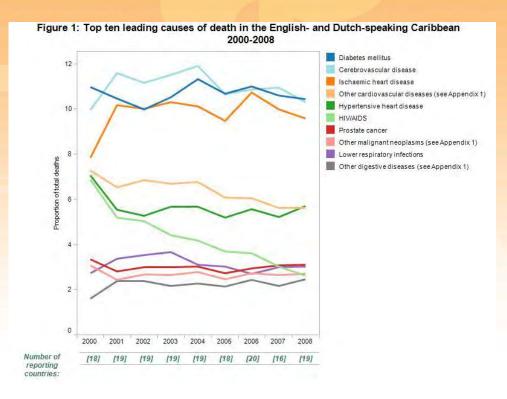
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Outputs (

Production of routine cause-of-death reports, publications and conference presentations

Data shared with PAHO/WHO routinely, for inclusion in reports for the Americas and for submission to WHO.





National cause-of-death data in the English- and Dutch-speaking Caribbean, 2000-2010: A quality assessment

59th Annual CARPHA Health Research Conference S Quesnel-Crooks, A Hinds, E Bissessarsingh, N Elias

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Anguilla	31%	48%	32%	39%	17%	16%	21%	15%	16%	13%	12%
Antigua/ Barbuda	22%	26%	24%	27%	24%	32%	30%	19%	25%	23%	
Aruba	41%	32%	29%	27%	32%	27%	31%	27%	31%	28%	27%
Bahamas	15%	17%	26%	17%	15%	16%	16%	17%	16%	15%	17%
Barbados	27%	29%	28%	30%	35W	31%	23%	21%	24%	23%	22%
Belize	30%	29%	24%	26%	26%	23%	22%	25%	21%	15%	15%
Bermuda	14%	17%	13%	13%	13%	15%	19%	18%	16%	21%	21%
British Virgin Islands	41%	29%	29%	29%	35%		38%		36%	38%	22%
Cayman Islands	19%	31%	21%	15%	15%		28%	30%	23%	30%	19%
Dominica		37%	38%	36%	33%	19%	15%	23%	21%	21%	20%
Grenada	21%	31%	27%	31%	27%	22%	24%	23%	29%	24%	19%
Guyana	13%	1996	17%	14%	16%	14%	16%	17%	17%	22%	20%
Jamaica	25%	31%	34%	25%	20%	22%	15%	15%	16%		
Montserrat	22%	33%	29%	21%	41%	29%	21%	39%	18%	25%	13%
Netherlands Antilles	24%	-									1
St. Kitts/ Nevis	39%	46%	35%	36%	38%	26%	20%	15%	14%	16%	14%
St. Lucia	27%	24%	28%	27%	26%	34%	31%	27%	28%	17%	22%
St. Vincent/ Grenadines	19%	21%	19%	19%	16%	19%	12%	13%	22%	29%	21%
Suriname	26%	23%	23%	21%	25%	24%	19%	20%	21%	20%	21%
Trinidad/ Tobago	12%	13%	11%	11%	12%	12%	13%	14%	14%		
Turks and Caicos Islands	31%	41%	30%	43%	45%	43%	45%	49%	45%	21%	

Notes: Blank squares indicate missing cause-of-death data



Legend: Proportion of deaths attributed to GCs

2014/2015 Activities

- Continuation of routine activities:
 - Physician training in correct completion of cause-of-death certificates
 - Training for ICD-10 mortality coding.
 - November 2014: ICD-10 mortality coding and Underlying Cause of Death selection training workshop for first time coders. Proposed CMS:
 - Anguilla, Bonaire/Saba/St Eustatius/Curacao, Haiti, St. Vincent & the Grenadines, Turks & Caicos Islands
 - Evaluation of national mortality surveillance systems and audits of coded data
 - Data collection, validation, collation
 - Analysis and Dissemination



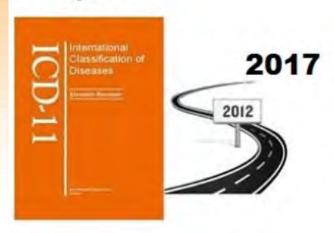
2014/2015 Activities

- WHO-FIC Country Implementation Database
 - Information on FIC implementation in each of your countries
 - Dr Huib Ten Napel, Affiliated Head of the WHO FIC Collaborating Center in the Netherlands
 - Instructions to participate in this process will follow



2014/2015 Activities

 ICD-11 The International Classification of Diseases 11th Revision is due by 2017



Participate in the ICD Revision

Beta phase participants will have the opportunity to:

- Make Comments
- Make Proposals
- Propose definitions of diseases in a structured way
- · Participate in Field Trials
- Assist in translating ICD into other languages

http://www.who.int/classifications/icd/revision/en/



2014/2015 Proposed Activities

- Roll out Mortbase 7
- Pilot of the automated coding software IRIS in 2 CMS
 - IRIS replaces MMDS; system incorporates WHO updates
 - Language independent





Session Agreements and Recommendations

CARPHA Activity	2014	2015	2016
Physician training in correct completion of cause-of-death certificates			
Evaluation of national mortality surveillance system			
Training for new coders – November 2014	ANG, BES/CUR, HAI, SVG, TCI	-	
Mortbase 7	DOM	2 CMS	
Participation in WHO-FIC Country Implementation Database	ALL	ALL	
Pilot IRIS	-	2 CMS	
ICD-11			

