

Surveillance of TB and TB/HIV in CAREC Member Countries

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*Serving
23 Member Countries
in the English and Dutch
Speaking Caribbean*

(CAREC)
PAHO/WHO



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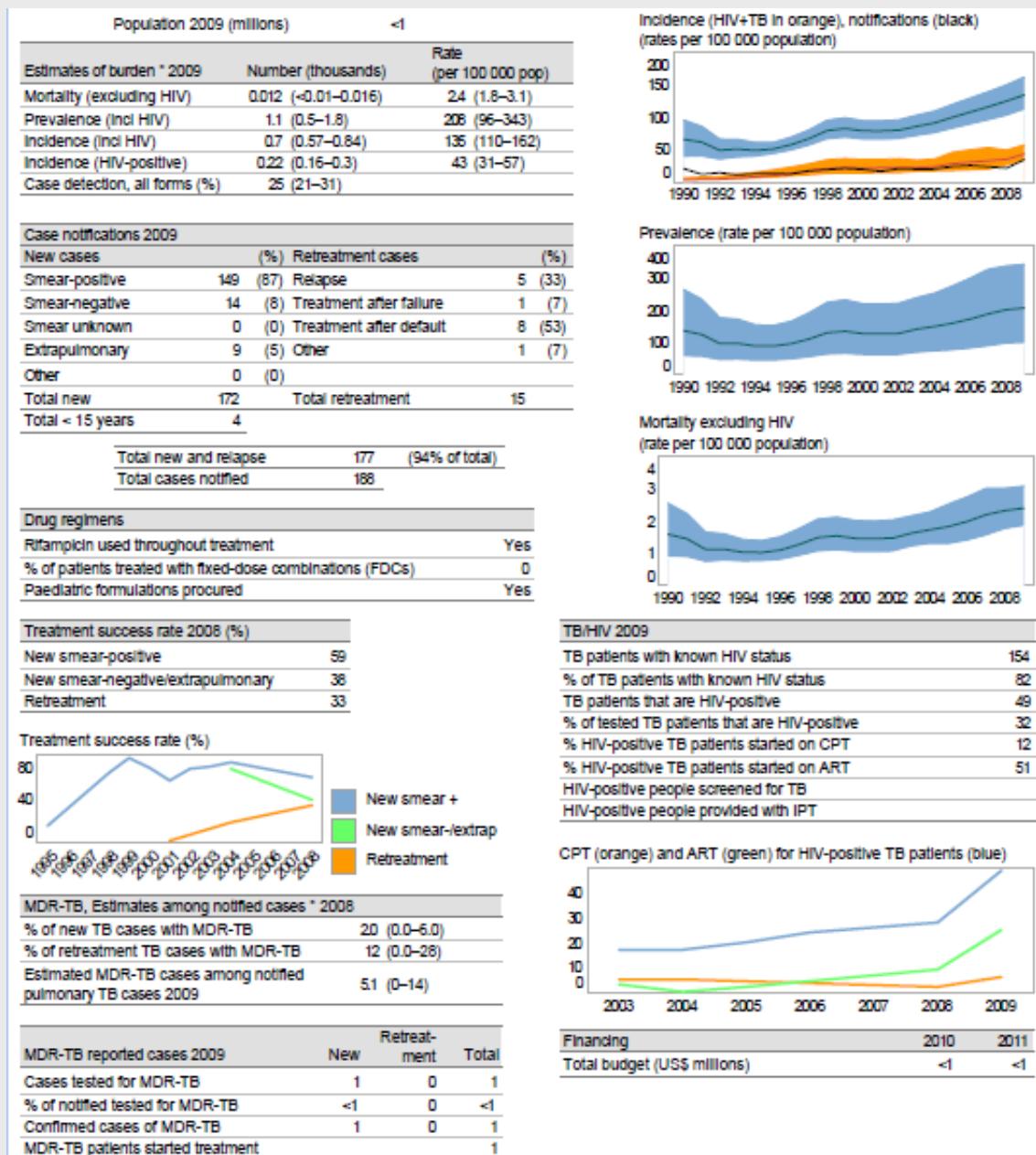
Data source

- Data collected by WHO on a yearly base
- Online form to submit data at country level

<http://www.who.int/tb/country/en/index.html>

- (Caribbean) countries with low incidence and overseas territories have not consistently been included. Objective in 2011 to achieve complete coverage.

Individual country profile TB



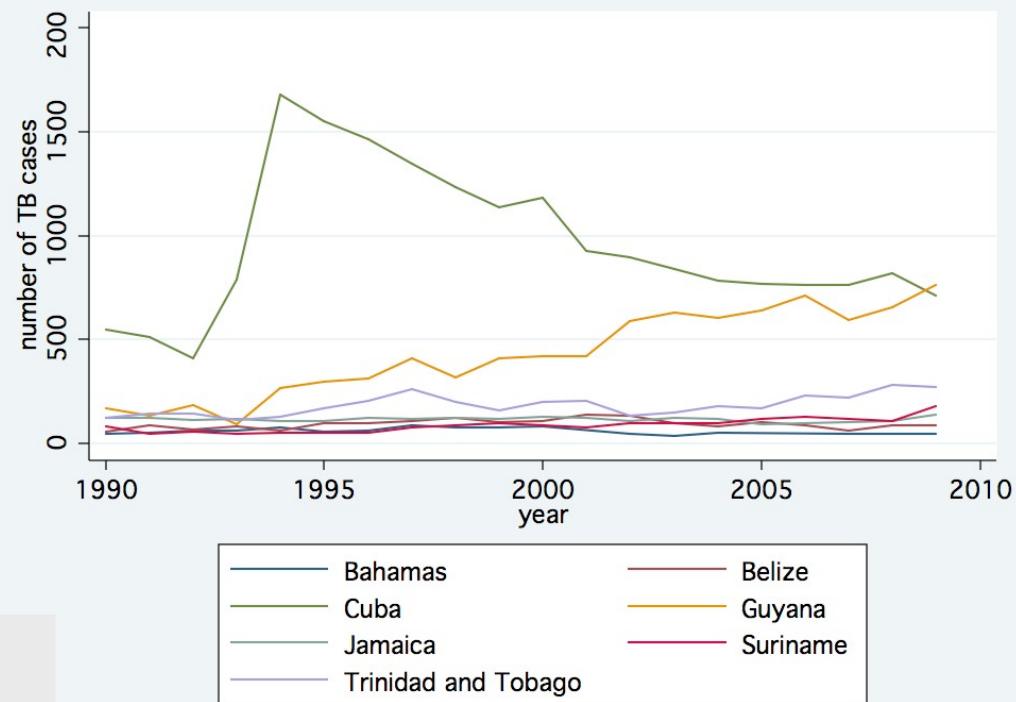
Notified cases (1)

| Country | Year | TB | | | % |
|---------------------|------|-----------------------------|-------------------|-----------------|------|
| | | Total new and relapse cases | patients recorded | as HIV positive | |
| Haiti | 2008 | 14602 | 2068 | | 14.2 |
| Dominican Republic | 2009 | 4256 | 403 | | 9.5 |
| Guyana | 2009 | 763 | 156 | | 20.4 |
| Cuba | 2009 | 712 | 46 | | 6.5 |
| Trinidad and Tobago | 2009 | 272 | 95 | | 34.9 |
| Suriname | 2009 | 177 | 49 | | 27.7 |
| Jamaica | 2009 | 139 | 29 | | 20.9 |
| Belize | 2009 | 88 | 17 | | 19.3 |
| Bahamas | 2009 | 45 | 15 | | 33.3 |

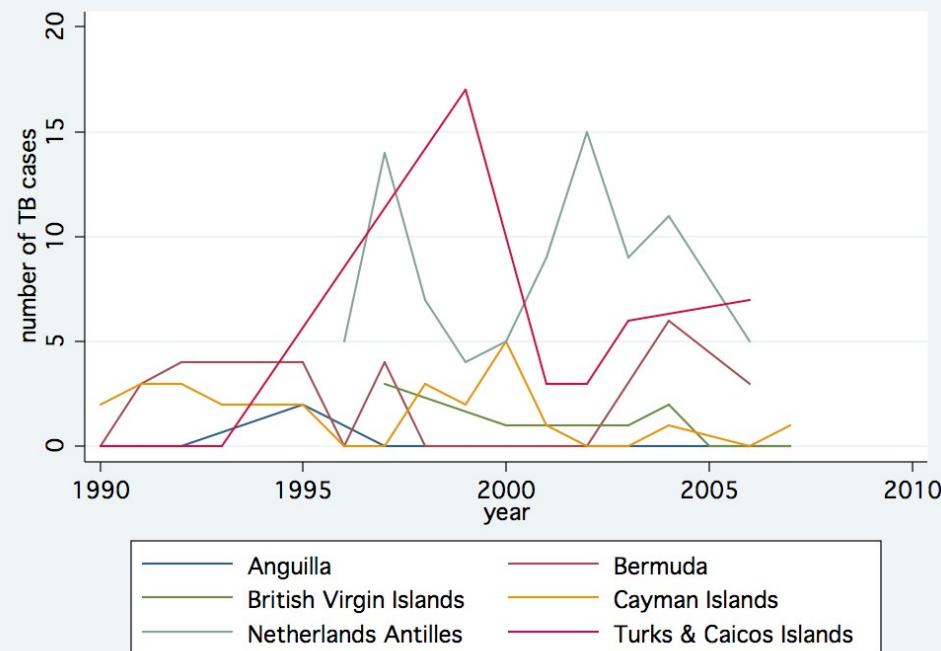
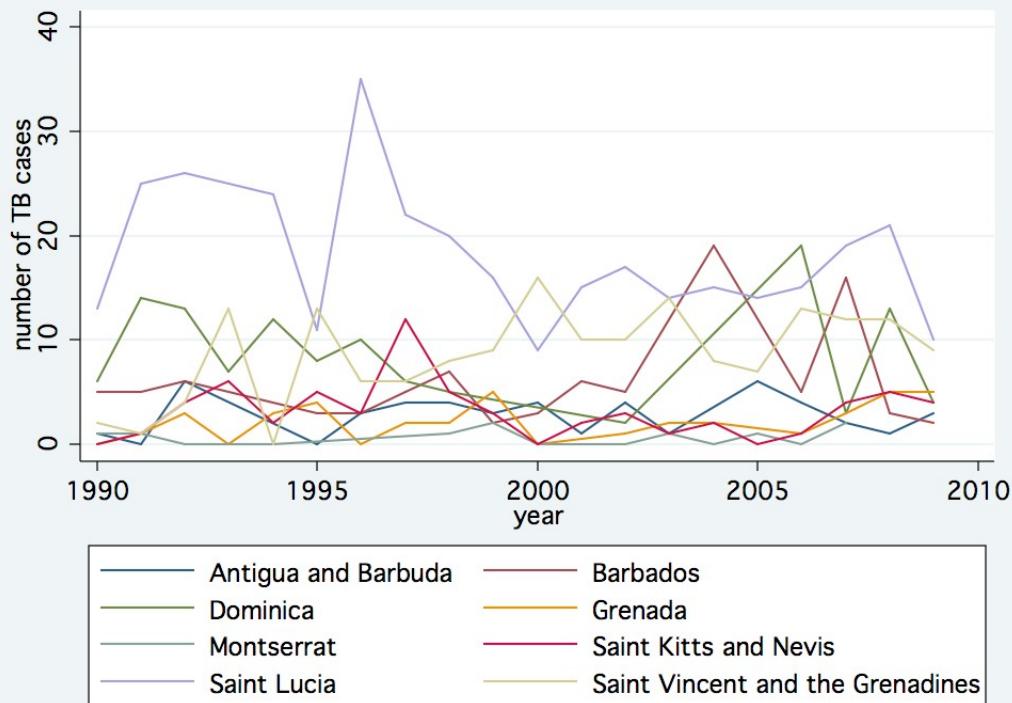
Notified cases (2)

| Country | Year | TB patients | | | % |
|----------------------------------|------|------------------------------|---------|-----------------|------|
| | | Total new and recorded cases | relapse | as HIV positive | |
| Saint Lucia | 2009 | 10 | 4 | 4 | 40.0 |
| Saint Vincent and the Grenadines | 2009 | 9 | 7 | 7 | 77.8 |
| Turks & Caicos Islands | 2006 | 7 | 0 | 0 | 0.0 |
| Netherlands Antilles | 2006 | 5 | 1 | 1 | 20.0 |
| Grenada | 2009 | 5 | 1 | 1 | 20.0 |
| Dominica | 2009 | 4 | 1 | 1 | 25.0 |
| Saint Kitts and Nevis | 2009 | 4 | 0 | 0 | 0.0 |
| Bermuda | 2006 | 3 | 0 | 0 | 0.0 |
| Antigua and Barbuda | 2009 | 3 | 0 | 0 | 0.0 |
| Montserrat | 2007 | 2 | | | |
| Barbados | 2009 | 2 | 0 | 0 | 0.0 |
| Cayman Islands | 2007 | 1 | 0 | 0 | 0.0 |
| British Virgin Islands | 2007 | 0 | 0 | 0 | |
| Anguilla | 2007 | 0 | 0 | 0 | |

Evolution of notified TB cases



Evolution of notified TB cases



Notified cases: type (1)

| Country | Total new and relapse cases | New cases: extra-pulmonary | New cases: sputum positive | New cases: sputum negative | Relapse cases | Treatment after default cases | Treatment after failure cases |
|---------------------|-----------------------------|----------------------------|----------------------------|----------------------------|---------------|-------------------------------|-------------------------------|
| Haiti | 14602 | 1463 | 8171 | 4655 | 313 | 41 | 19 |
| Dominican Republic | 4256 | 615 | 2441 | 699 | 266 | 165 | 21 |
| Guyana | 763 | 78 | 328 | 164 | 56 | 57 | 10 |
| Cuba | 712 | 91 | 418 | 150 | 46 | 2 | 2 |
| Trinidad and Tobago | 272 | 19 | 154 | 70 | 8 | 18 | 12 |
| Suriname | 177 | 9 | 149 | 14 | 5 | 8 | 1 |
| Jamaica | 139 | 5 | 77 | 48 | 9 | 11 | 0 |
| Belize | 88 | | 82 | | 6 | 0 | 0 |
| Bahamas | 45 | 5 | 26 | 7 | 4 | 0 | 0 |

Notified cases: type (2)

| Country | Total new and relapse cases | New cases: extra-pulmonary | New cases: sputum positive | New cases: sputum negative | Relapse cases | Treatment after default cases | Treatment after failure cases |
|----------------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|---------------|-------------------------------|-------------------------------|
| Saint Lucia | 10 | 1 | 7 | 0 | 2 | 0 | 0 |
| Saint Vincent and the Grenadines | 9 | 0 | 3 | 2 | 0 | 2 | 0 |
| Turks & Caicos Islands | 7 | 0 | 7 | 0 | 0 | 1 | 0 |
| Netherlands Antilles | 5 | 0 | 5 | 0 | 0 | 0 | 0 |
| Grenada | 5 | 0 | 4 | 0 | 0 | 0 | 0 |
| Dominica | 4 | 0 | 4 | 0 | 0 | 1 | 0 |
| Saint Kitts and Nevis | 4 | 0 | 4 | 0 | 0 | 0 | 0 |
| Bermuda | 3 | 1 | 2 | 0 | 0 | 0 | 0 |
| Antigua and Barbuda | 3 | 0 | 1 | 0 | 1 | 0 | 1 |
| Montserrat | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| Barbados | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| Cayman Islands | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| British Virgin Islands | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Anguilla | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Notified cases: DST and MDR TB (1)

(Drug Sensitivity Test and Multi-drug Resistant TB)

| Country | Total | | Cases received DST | % | Cases confirmed MDR |
|---------------------|-----------------------|----------------|--------------------|------|---------------------|
| | new and relapse cases | Cases received | | | |
| Haiti | 14602 | 43 | 43 | 0.3 | 43 |
| Dominican Republic | 4256 | 0 | 0 | 0.0 | 0 |
| Guyana | 763 | 0 | 0 | 0.0 | 0 |
| Cuba | 712 | 218 | 218 | 30.6 | 3 |
| Trinidad and Tobago | 272 | 0 | 0 | 0.0 | 0 |
| Suriname | 177 | 1 | 1 | 0.6 | 1 |
| Jamaica | 139 | 67 | 67 | 48.2 | 0 |
| Belize | 88 | 1 | 1 | 1.1 | 1 |
| Bahamas | 45 | 42 | 42 | 93.3 | 0 |

Notified cases: DST and MDR TB (2)

(Drug Sensitivity Test and Multi-drug Resistant TB)

| Country | Total | | |
|----------------------------------|-----------------------------|-------------------|--------------------|
| | new and relapse cases | Cases received | Cases confirmed |
| | DST | MDR | |
| Saint Lucia | 10 | 0 | 0 |
| Saint Vincent and the Grenadines | 9 | | |
| Turks & Caicos Islands | 7 | 0 | 0 |
| Netherlands Antilles | 5 | 5 | 1 |
| Grenada | 5 | | |
| Dominica | 4 | | |
| Saint Kitts and Nevis | 4 | | |
| Bermuda | 3 | 3 | 0 |
| Antigua and Barbuda | 3 | 1 | 0 |
| Montserrat | 2 | 0 | 0 |
| Barbados | 2 | 0 | 0 |
| Cayman Islands | 1 | 3 | 0 |
| British Virgin Islands | 0 | 0 | 0 |
| Anguilla | 0 | 0 | 0 |

Treatment outcome

| Country | Year | % Tx success, Pulmonary, smear + | % Tx success retreatment | % Tx success other cases |
|----------------------------------|------|--|-----------------------------|-----------------------------------|
| Antigua and Barbuda | 2008 | 100 | | |
| Bahamas | 2008 | 74 | 33 | 60 |
| Barbados | 2008 | 100 | | |
| Belize | 2008 | 83 | | |
| British Virgin Islands | 2004 | 100 | | |
| Cayman Islands | 2005 | 0 | | |
| Cuba | 2008 | 88 | 80 | 87 |
| Dominica | 2008 | 100 | | |
| Dominican Republic | 2008 | 75 | 0 | 0 |
| Grenada | 2008 | 33 | | |
| Guyana | 2008 | 69 | 26 | 55 |
| Haiti | 2007 | 82 | 69 | 72 |
| Jamaica | 2008 | 64 | 67 | 42 |
| Montserrat | 1999 | 50 | | |
| Netherlands Antilles | 2000 | 0 | | |
| Saint Kitts and Nevis | 2008 | 80 | | |
| Saint Lucia | 2008 | 94 | 0 | 100 |
| Saint Vincent and the Grenadines | 2008 | 100 | 0 | 86 |
| Suriname | 2008 | 59 | 33 | 38 |
| Trinidad and Tobago | 2008 | 67 | 36 | 56 |
| Turks & Caicos Islands | 2005 | 67 | 67 | |

Role CAREC TB surveillance

- Support to yearly reporting to WHO (electronic file for case-based TB monitoring available)
- Assistance to national TB program and TB outbreaks
- TB Xpert system, not to replace TB culture / smear
- Training / quality control TB smear

Thank you

A complex system that works is invariably found to have evolved from a simple system that works.
(John Gaule)