

Supplementary Table

Publications on Dengue virus serotypes entry in federated units of the North, Northeast, Southeast, Central-West and South regions of Brazil, from 1980 to 2018.

Regions and federated units	Authors and year of publication	Study type	Main results (DENV serotypes and year of entry)
<b>North</b>			
Acre	<sup>I</sup> Guimarães et al. (2006) <sup>23</sup>	Original article	DENV-1: 2000 / DENV-2: 2000
	<sup>II</sup> Feitoza et al. (2017) <sup>24</sup>	Original article	DENV-1: 2001 / DENV-2: 2001 / DENV-3: 2004 / DENV-4: 2012
Amapá	Consultation to experts	Database spreadsheets	DENV-1: 2001 <sup>a</sup> / DENV-2: 2006 <sup>a</sup> / DENV-3: 1999 <sup>a</sup> / DENV-4: 2012 <sup>b</sup>
Amazonas	<sup>II</sup> Bastos (2004) <sup>25</sup>	Dissertation	DENV-1: 1998 / DENV-2: 2001 / DENV-3: 2002
	<sup>I</sup> Pinheiro et al. (2005) <sup>26</sup>	Original article	DENV-1: 1998 / DENV-2: 1998 / DENV-3: 2002
	<sup>II</sup> Figueiredo (2008) <sup>27</sup>	Thesis	DENV-1: 1998 / DENV-2: 2001 / DENV-3: 2002
	<sup>I</sup> Costa et al. (2009) <sup>28</sup>	Original article	DENV-1: 1998 / DENV-2: 1998 / DENV-3: 2002 / DENV-4: 2008
	<sup>II</sup> Rocha and Tauil (2009) <sup>29</sup>	Original article	DENV-1: 1998 / DENV-2: 2002
	<sup>I</sup> Costa and Façanha (2011) <sup>30</sup>	Brief communication	DENV-1: 1998 / DENV-2: 1998 / DENV-3: 2002
	<sup>I</sup> Bastos et al. (2012) <sup>31</sup>	Brief communication	DENV-1: 1998 / DENV-2: 1998 / DENV-3: 2002 / DENV-4: 2008
	<sup>II</sup> Figueiredo et al. (2013) <sup>32</sup>	Short communication	DENV-4: 2008
	<sup>I</sup> Mourão et al. (2015) <sup>33</sup>	Review article	DENV-1: 1998 / DENV-2: 1998 / DENV-3: 2002 / DENV-4: 2008
	<sup>II</sup> Nascimento et al. (2016) <sup>34</sup>	Original article	DENV-4: 2008
Pará	<sup>II</sup> Rosa et al. (2000) <sup>35</sup>	Brief communication	DENV-1: 1996 / DENV-2: 1997
	<sup>I</sup> Araújo et al. (2002) <sup>36</sup>	Original article	DENV-1: 1995 / DENV-2: 1997
	<sup>II</sup> Barros et al. (2008) <sup>37</sup>	Original article	DENV-1: 1995 / DENV-2: 1997
	<sup>I*</sup> Nunes et al. (2012) <sup>38</sup>	Original article	DENV-4: 2010
	Consultation to experts	Database spreadsheets	DENV-3: 1999 <sup>a</sup>
Roraima	<sup>II</sup> Osanaí et al. (1983) <sup>13</sup>	Note	DENV-1: 1981 / DENV-4: 1981
	<sup>II</sup> Siqueira et al. (2009) <sup>39</sup>	Summary	DENV-2 and DENV-3: between 1999 and 2009
	<sup>I</sup> Naveca et al. (2011) <sup>40</sup>	Announcement	DENV-1: 1981 / DENV-4: 1981 / DENV-4 resurgence: 2010
	<sup>I</sup> Temporão et al. (2011) <sup>41</sup>	Letters	DENV-4 resurgence: 2010

	<sup>I*</sup> Nunes et al. (2012) <sup>38</sup>	Original article	DENV-4 resurgence: 2010
	<sup>II</sup> Acosta et al. (2014) <sup>42</sup>	Brief communication	DENV-4 resurgence: 2010
	Consultation to experts	Database spreadsheets	DENV-2: 1999 <sup>a</sup> / DENV-3: 1999 <sup>a</sup>
Rondônia	<sup>I</sup> Vieira et al. (2007) <sup>43</sup>	Original article	The first dengue outbreak in Porto Velho occurred in 1999, but no DENV serotyping was established that year
	<sup>I</sup> Lucena et al. (2011) <sup>44</sup>	Original article	DENV-1 predominated in the years 2001, 2002, and 2003; however, provides no information on the year in which this serotype was registered for the first time in the state / DENV-3: 2004 / DENV-2: 2006
	<sup>II</sup> Borges et al. (2014) <sup>45</sup>	Original article	DENV-3: 2005
	Consultation to experts	Database spreadsheets	DENV-4: 2013 <sup>b</sup>
Tocantins	<sup>I</sup> Vasconcelos et al. (1993) <sup>46</sup>	Original article	DENV-2: 1991
	Consultation to experts	Database spreadsheets	DENV-1: 2000 <sup>a</sup> / DENV-3: 1999 <sup>a</sup> / DENV-4: 2011 <sup>b</sup>
<b>Northeast</b>			
Alagoas	<sup>II</sup> Teixeira et al. (1999) <sup>47</sup>	Official data	DENV-1: 1986 / DENV-2: 1995
	<sup>II</sup> Ministério da Saúde do Brasil (2011b) <sup>48</sup>	Official data	Between 2000 and 2010 the dengue incidence followed the pattern observed in the Northeast Region, with the predominance of different serotypes: DENV-3 in the period from 2001 to 2006 and DENV-2 from 2007 to 2009. The year 2010 was marked by a predominance of DENV-1
	Consultation to experts	Database spreadsheets	DENV-3: 2000 <sup>a</sup> / DENV-4: 2012 <sup>b</sup>
Bahia	<sup>I</sup> Nogueira et al. (1995) <sup>49</sup>	Original article	DENV-1: 1987 / DENV-2: 1994
	<sup>I</sup> Vasconcelos et al. (2000) <sup>50</sup>	Original article	DENV-1: 1987 / DENV-2: 1995
	<sup>I</sup> Teixeira et al. (2001) <sup>51</sup>	Original article	DENV-1: 1987 / DENV-2: 1994
	<sup>I</sup> Melo et al. (2007) <sup>52</sup>	Original article	DENV-1: 1987 / DENV-2: 1995 / DENV-3: 2002
	<sup>II</sup> Melo et al. (2010) <sup>53</sup>	Original article	DENV-1 and DENV-2: between 1995 and 1997 / DENV-3: 2002
	<sup>I*</sup> Nunes et al. (2012) <sup>38</sup>	Original article	DENV-4: 2011
	<sup>I</sup> Campos et al. (2015) <sup>54</sup>	Original article	DENV-4: 2011
Ceará	<sup>I</sup> Souza et al. (1995) <sup>55</sup>	Research note	DENV-1: 1987 / DENV-2: 1994
	<sup>II</sup> Vasconcelos et al. (1995) <sup>56</sup>	Brief communication	DENV-1: 1986
	<sup>I</sup> Vasconcelos et al. (1998) <sup>57</sup>	Original article	DENV-1: 1986 / DENV-2: 1994
	<sup>I</sup> Cunha et al. (1998) <sup>58</sup>	Original article	DENV-1: 1986 / DENV-2: 1994
	<sup>I</sup> Lima et al. (2013) <sup>59</sup>	Original article	DENV-1: 1986 / DENV-2: 1994 / DENV-3: 2002 / DENV-4: 2011

	<sup>I</sup> Cavalcanti et al. (2018) <sup>60</sup>	Review article	DENV-1: 1986 / DENV-2: 1994 / DENV-3: 2002 / DENV-4: 2011
	<sup>II</sup> Oliveira et al. (2018) <sup>61</sup>	Original article	DENV-1: 1986 / DENV-2: 1994 DENV-3: 2002 / DENV-4: 2011
	<sup>II</sup> Ramalho et al. (2018) <sup>62</sup>	Original article	DENV-4: 2011
Maranhão	<sup>I</sup> Vasconcelos et al. (1999) <sup>63</sup>	Original article	DENV-1: 1994
	<sup>I</sup> Gonçalves Neto and Rebêlo (2004) <sup>64</sup>	Original article	DENV-2: 2001
	<sup>I</sup> Carvalho et al. (2016) <sup>65</sup>	Original article	DENV-2: 2001 / DENV-3: 2002
	<sup>I</sup> Dias Júnior et al. (2017) <sup>66</sup>	Original article	DENV-4: 2011
Paraíba	Consultation to experts	Database spreadsheets	DENV-1: 2001 <sup>a</sup> / DENV-2: 2001 <sup>a</sup> / DENV-3: 2002 <sup>a</sup> / DENV-4: 2012 <sup>b</sup>
Pernambuco	<sup>I</sup> Montenegro et al. (2006) <sup>67</sup>	Original article	DENV-2: 1998 / DENV-3: 2002
	<sup>I</sup> Cordeiro et al. (2007) <sup>68</sup>	Original article	DENV-1: 1987 / DENV-2: 1995 / DENV-3: 2002
	<sup>I</sup> Guedes et al. (2010) <sup>69</sup>	Original article	DENV-3: 2002
	Consultation to experts	Database spreadsheets	DENV-4: 2011 <sup>b</sup>
Piauí	<sup>I</sup> Castro et al. (2003) <sup>70</sup>	Brief communication	DENV-2: 1995 / DENV-3: 2002
	<sup>I</sup> Monteiro et al. (2009) <sup>71</sup>	Original article	The first epidemic is cited in 1996, but no serotype is mentioned. Comments on the detection of serotypes after the implantation of viral isolation tests in Teresina: DENV-2: 2001 / DENV-3: 2002
	<sup>I</sup> Figueiredo et al. (2014) <sup>72</sup>	Original article	DENV-2: 1997
	Consultation to experts	Database spreadsheets	DENV-1: 1999 <sup>a</sup> / DENV-4: 2011 <sup>b</sup>
Rio Grande do Norte	<sup>I</sup> Cunha et al. (1999) <sup>73</sup>	Original article	Authors comment on the co-circulation of serotypes DENV-1 and DENV-2 in 1997, but do not mention if this year is the year of entry of these serotypes
	<sup>I</sup> Barbosa et al. (2012) <sup>74</sup>	Original article	Authors comment on the co-circulation of serotypes DENV-1 and DENV-2, but do not mention the year of entry of these serotypes / DENV-3: 2002
	<sup>II</sup> Bessa Júnior et al. (2013) <sup>75</sup>	Original article	DENV-3: 2002 / DENV-2: 2008
	<sup>I</sup> Branco et al. (2015) <sup>76</sup>	Original article	DENV-4: 2011
	<sup>I</sup> Medeiros et al. (2018) <sup>77</sup>	Original article	DENV-4: 2011
	Consultation to experts	Database spreadsheets	DENV-1: 1999 <sup>a</sup>
Sergipe	<sup>II</sup> Ministério da Saúde do Brasil (2011c) <sup>78</sup>	Official data	Between 2000 and 2010 the dengue incidence followed the pattern observed in the Northeast Region, with the predominance of different serotypes: DENV-3 in the period from 2001 to 2006 and DENV-2 from 2007 to 2009. The year 2010 was marked by a predominance of DENV-1

	Consultation to experts	Database spreadsheets	DENV-1: 2000 <sup>a</sup> / DENV-2: 2001 <sup>a</sup> / DENV-3: 2002 <sup>a</sup> / DENV-4: 2012 <sup>b</sup>
<b>Southeast</b>			
Espírito Santo	<sup>I</sup> Cardoso et al. (2011) <sup>79</sup>	Original article	DENV-1: 1996 / DENV-2: 1995 / DENV-3: 2003
	<sup>II</sup> Vicente et al. (2018) <sup>80</sup>	Original article	DENV-4: 2013
Minas Gerais	<sup>I</sup> Almeida et al. (2008) <sup>81</sup>	Original article	DENV-1: 1996 / DENV-2: 1998 / DENV-3: 2002
	<sup>II</sup> Cunha et al. (2008) <sup>82</sup>	Original article	DENV-1: 1996 / DENV-2: 1998
	<sup>I</sup> Pessanha et al. (2011) <sup>83</sup>	Brief communication	DENV-1: 1996 / DENV-2: 1998 / DENV-3: 2002
	<sup>II</sup> Amâncio et al. (2014) <sup>84</sup>	Case report	DENV-1: 1996 / DENV-2: 1998 / DENV-3: 2002 / DENV-4: 2011
	<sup>I</sup> Drumond et al. (2016) <sup>85</sup>	Original article	Authors comment that DENV was introduced in the state in 1987 but do not mention the serotype. However, they describe the circulation of serotypes DENV-1, DENV-2, and DENV-3 between 1987 and 2010 / DENV-4: 2011
Rio de Janeiro	<sup>I</sup> Schatzmayr et al. (1986) <sup>86</sup>	Research note	DENV-1: 1986
	<sup>I</sup> Nogueira et al. (1988) <sup>87</sup>	Original article	DENV-1: 1986
	<sup>I</sup> Nogueira et al. (1990) <sup>88</sup>	Research note	DENV-1: 1986 / DENV-2: 1990
	<sup>I</sup> Nogueira et al. (1993) <sup>89</sup>	Original article	DENV-1: 1986 / DENV-2: 1990
	<sup>I</sup> Nogueira et al. (1999) <sup>90</sup>	Original article	DENV-1: 1986 / DENV-2: 1990
	<sup>II</sup> Figueiredo (2000) <sup>91</sup>	Review article	DENV-1: 1986 / DENV-2: 1990
	<sup>I</sup> Nogueira et al. (2001) <sup>92</sup>	Short communication	DENV-3: 2001
	<sup>I</sup> De Simone et al. (2004) <sup>93</sup>	Original article	DENV-1: 1986 / DENV-2: 1990 / DENV-3: 2001
	<sup>II</sup> Nogueira et al. (2005) <sup>94</sup>	Original article	DENV-1: 1986 / DENV-2: 1990 / DENV-3: 2001
	<sup>II</sup> Nogueira and Eppinghaus (2011) <sup>95</sup>	Editorial	DENV-1: 1986 / DENV-2: 1990 / DENV-3: 2001 / DENV-4: 2011
	<sup>I</sup> Castro et al. (2012) <sup>96</sup>	Original article	DENV-4: 2011
	<sup>I</sup> Gibson et al. (2014) <sup>97</sup>	Original article	DENV-1: 1986 / DENV-2: 1990 / DENV-3: 2001
<sup>I</sup> Xavier et al. (2017) <sup>98</sup>	Original article	DENV-1: 1986 / DENV-2: 1990 / DENV-3: 2001 / DENV-4: 2011	
São Paulo	<sup>I</sup> Lima et al. (1999) <sup>99</sup>	Original article	DENV-1: 1987 / DENV-2: 1996
	<sup>I</sup> Bisordi et al. (2011) <sup>100</sup>	Original article	DENV-4: 2011
	<sup>I</sup> Rocco et al. (2012) <sup>101</sup>	Brief Communication	DENV-1: 1987 / DENV-2: 1997 / DENV-3: 2002 / DENV-4: 2011
	<sup>I</sup> Colombo et al. (2013) <sup>102</sup>	Case report	DENV-1: 1990 / DENV-2: 1997 / DENV-3: 2002 / DENV-4: 2011

**Central-West**

Distrito Federal	<sup>II</sup> Dégallier et al. (2000) <sup>103</sup>	Brief communication	DENV-2: 1991 / DENV-1: 1998
	<sup>I</sup> Teixeira et al. (2006) <sup>104</sup>	Original article	DENV-3: 2003
	Consultation to experts	Database spreadsheets	DENV-4: 2012 <sup>b</sup>
Goiás	<sup>II</sup> Feres et al. (2006) <sup>105</sup>	Original article	DENV-1: 1994 / DENV-2: 1999 / DENV-3: 2002
	<sup>I</sup> Maciel et al. (2008) <sup>106</sup>	Update	DENV-1: 1994 / DENV-2: 1999 / DENV-3: 2002
	Consultation to experts	Database spreadsheets	DENV-4: 2011 <sup>b</sup>
Mato Grosso	<sup>II</sup> Ministério da Saúde do Brasil (1996) <sup>107</sup>	Official data	DENV-2: 1995
	<sup>II</sup> Machiner et al. (2009) <sup>108</sup>	Original article	DENV-3: 2001
	<sup>I</sup> Zuchi et al. (2014) <sup>109</sup>	Original article	DENV-4: 2012
	<sup>I</sup> Cruz et al. (2015) <sup>110</sup>	Original article	DENV-4: 2012
	<sup>II</sup> Heinen (2015) <sup>111</sup>	Original article	DENV-4: 2012
	<sup>I</sup> Serra et al. (2016) <sup>112</sup>	Original article	DENV-4: 2011
	Consultation to experts	Database spreadsheets	DENV-1: 2000 <sup>a</sup>
Mato Grosso do Sul	<sup>I</sup> Rocco et al. (1998) <sup>113</sup>	Original article	DENV-1: 1989 / DENV-2: 1996
	<sup>I</sup> Uehara et al. (2006) <sup>114</sup>	Original article	DENV-1: 1987
	<sup>I</sup> Bertolacci-Rocha et al. (2014) <sup>115</sup>	Brief communication	DENV-4: 2012
	<sup>I</sup> Faria et al. (2016) <sup>116</sup>	Original article	DENV-4: 2013
	Consultation to experts	Database spreadsheets	DENV-3: 2000 <sup>a</sup>
<b>South</b>			
Paraná	<sup>II</sup> Oliveira (2006) <sup>117</sup>	Dissertation	DENV-2: 1995
	<sup>I</sup> Kuczera et al. (2016) <sup>118</sup>	Case report	DENV-4: 2013
	Consultation to experts	Database spreadsheets	DENV-1: 2001 <sup>a</sup> / DENV-3: 2000 <sup>a</sup>
Rio Grande do Sul	<sup>I</sup> Souza et al. (2011) <sup>119</sup>	Original article	DENV-4: 2011
	<sup>II</sup> Tumioto et al. (2014) <sup>120</sup>	Original article	DENV-3: 2007 / DENV-4: 2011
	<sup>I</sup> Gregianini et al. (2018) <sup>121</sup>	Review article	DENV-1: 2010 / DENV-2: 2010 / DENV-3: 2007 / DENV-4: 2011
Santa Catarina	Consultation to experts	Database spreadsheets	DENV-1: 1999 <sup>a</sup> / DENV-2: 2003 <sup>a</sup> / DENV-3: 2002 <sup>a</sup> / DENV-4: NSI <sup>b</sup>

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DENV = Dengue virus; NSI = no serotype introduction. <sup>1</sup>Selected publications from the search in electronic databases. <sup>11</sup>Selected publications from the search in the gray literature. <sup>\*</sup>Publication with information about three states: Pará, Roraima, and Bahia. <sup>3</sup>In the consultation of the experts, the data on the years of entry were provided from 1999 onwards; therefore, 1999 was considered the year of entry of the serotypes DENV-1, DENV-2, and DENV-3. <sup>b</sup>For serotype DENV-4, the information about the year of entry provided by the experts is correct, and this serotype returned to circulate in the country in 2008 and spread to all states except Santa Catarina.