

Incubation Period for Neuroinvasive Toscana Virus Infections

Appendix

Appendix Table 1. Estimation of Toscana virus incubation period described in the published literature

Estimation of incubation period	Year	Reference
≥5 days	1996	(1)
From a few days to ≤15 days	1998	(2)
From a few days to 2 weeks	2005	(3)
3–7 days	2005	(4)
3–6 days	2009	(5)
A short incubation period	2013	(6)
Ranges from 3–6 days to 2 weeks	2011	(7)
A short incubation period	2013	(8)
3–7 days	2013	(9)
A short incubation period	2014	(10)
A short incubation period	2014	(11)
A short incubation period (2–7 days)	2014	(12)
From a few days to 2 weeks	2014	(13)
3–7 days	2015	(14)
3–7 days	2015	(15)
From a few days to 2 weeks	2016	(16)
Variable, ranging from a few days to 2–3 weeks	2016	(17)
3–6 days	2016	(18)
≤2 weeks	2017	(19)
3–7 days with a maximum of 2 weeks	2017	(20)
From a few days to approximately 2 weeks	2019	(21)
Usually 3–7 days	2020	(22)

Appendix Table 2. Toscana virus case reports (n = 22) included in the analysis of incubation period estimation*

Reference	Case	Sex	Age, y	Country of infection	Reporting country	Diagnostic methods			Length of stay, d	Time between return and symptom onset, d
						Molecular identification	IgM	IgG		
(23)		M	51	Italy	Australia	+	None	None	17	0
(24)		M	66	Italy	United States	–	+	+	16	5
(25)		M	61	Italy	Switzerland	+	+	+	21	5
(26)†		F	49	Italy	France (Paris)‡	None§	+	+	12	5
(27)	1	M	19	France	Germany	None	+	+	14	12
	2	F	73	Greece	Germany	None	+	+	20	12
(28)		M	43	Italy	Switzerland	None	+	+	NA	7
(29)		M	40	Portugal	Sweden	None	+	+	14	5
(30)†		M	68	Italy	France (Paris)‡	None	+	+	11	9
(31)		M	17	Italy	Switzerland	+	+	+	21	14
(32)		M	82	Italy	United States	None	+	+	14	2
(33)		F	69	Italy	Germany	None	+	+	14	-3
(34)		M	51	Italy	United States	–	+	+	NA	10
(35)		F	18	Italy	United Kingdom	+	–	–	NA	7
(36)		M	65	Italy	United States	+	None	None	21	2
(37)		F	80	Spain	Germany	–	+	+	NA	4
(38)		M	21	Italy	Germany	–	+	+	14	6
(39)		M	65	Italy	United Kingdom	+	None	+	4	12
(40)		M	34	Turkey	Germany	None	+	+	NA	5
(41)	1	M	40	Malta	Switzerland	None	+	+	14	2
	2	F	50	Malta	Switzerland	None	+	+	14	2
(42)		M	53	Italy	Germany	None	+	+	10	-4
(43)		M	20	Italy	Switzerland	–	+	+	13	1
(44)		M	23	Italy	Switzerland	+	+	+	4	10

*NA, no data available; –, negative to Toscana virus; +, positive to Toscana virus.

†Toscana virus case reports diagnosed in Toscana virus–endemic country but in a non-Toscana virus–endemic region.

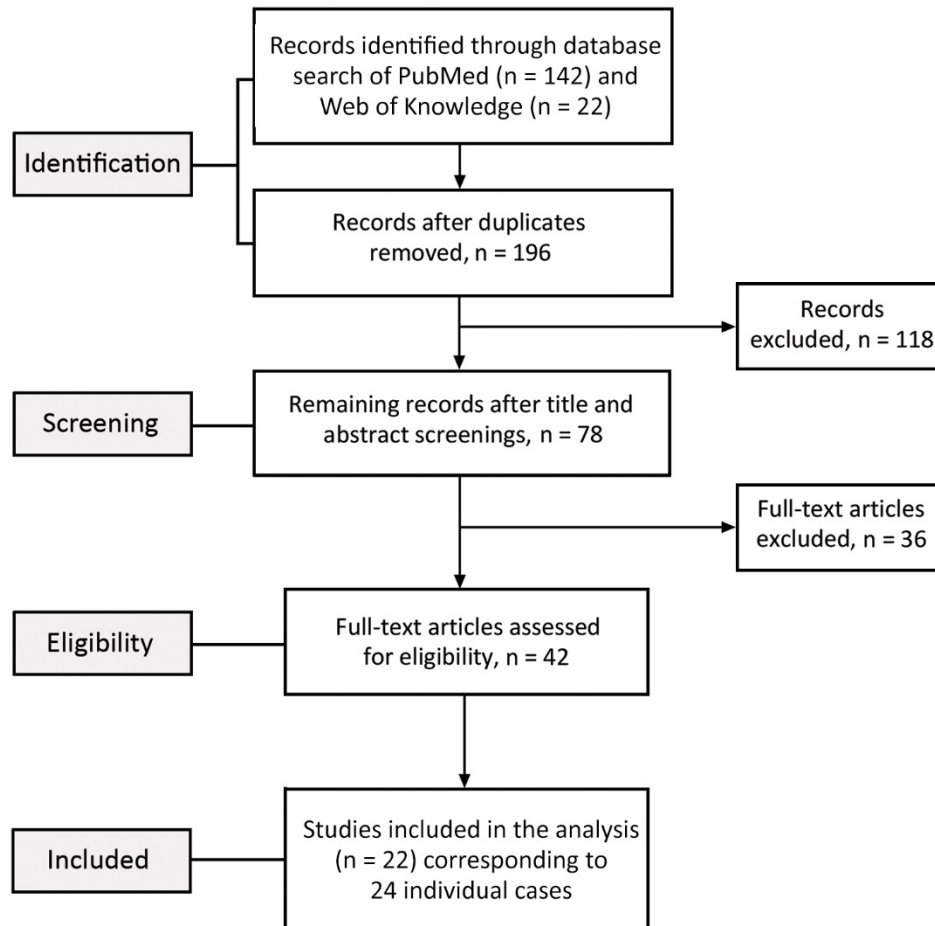
‡Proven Toscana virus–endemic country but the case was diagnosed in a non-Toscana virus–endemic area of the country.

§Indicates method was not mentioned in the case report.

Appendix Table 3. Incubation estimates, in days, for Toscana virus for 4 competing models (Weibull, Gamma, log-logistic and log-normal) sorted according to the Akaike information criterion*

Model	Median (95% CI)	Log-likelihood	AIC
Weibull	12.1 (10.2–14.4)	-10.16907	24.33814
Gamma	11.5 (9.3–13.9)	-11.26049	26.52098
Log-logistic	11.9 (9.8–14.4)	-11.50064	27.00128
Log-normal	11.3 (9.3–13.9)	-11.78880	27.57760

*AIC, Akaike information criterion.



Appendix Figure. PRISMA flow diagram adapted from Moher et al. (45) in study of incubation period of Toscana virus

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