

# Supplementary Material

## The Role of Interferon- $\alpha$ in Neurodegenerative Diseases: A Systematic Review

**Supplementary Table 1.** Effective Public Health Practice Project (EPHPP) Quality Assessment Tool for Clinical Studies (excluding postmortem brain samples).

Criteria	Selection Bias		Study Design	Confounder		Blinding		Data Collection Methods		Withdrawal & dropouts		Intervention Integrity			Analyses				Final Rating
	Q1	Q2	Type	Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2	Q1	Q2	Q3	Q1	Q2	Q3	Q4	
(Interferon-alpha and transfer factor in the treatment of multiple sclerosis: a double-blind, placebo-controlled trial. AUSTIMS Research Group, 1987)	2	1	1	2	-	2	2	1	1	1	1	3	3	5	2	2	1	1	1
(Anderson et al., 2017)	2	1	7	2	-	3	3	1	1	4	1	1	3	5	2	2	1	3	2
(Araga et al., 1991)	2	5	4	2	-	3	3	1	1	4	1	3	3	5	2	2	1	3	1
(Asgari et al., 2013)	2	1	4	1	4	3	3	1	1	4	1	3	3	5	2	2	1	3	2
(Bayas et al., 2009)	2	1	4	3	-	2	3	1	1	4	1	3	3	5	2	2	1	3	1
(Bergkvist et al., 1996)	2	5	4	3	-	3	3	1	1	4	1	3	3	5	2	2	1	3	1
(Bermejo et al., 2008)	2	1	4	2	-	3	3	1	1	4	1	3	3	5	2	2	1	3	1
(Bongioanni et al., 1996)	2	1	1	3	-	2	2	1	1	3	4	2	3	5	2	2	1	3	2
(Brod et al., 1997)	2	1	2	3	-	3	3	1	1	3	4	3	3	5	2	2	1	3	2
(Brod et al., 2001)	2	1	1	2	-	3	3	1	1	1	1	2	3	5	2	2	1	3	1
(Brod et al., 2006)	2	1	1	3	-	1	3	1	1	3	4	4	3	5	2	2	1	3	2
(Canto et al., 2018)	2	1	2	1	4	3	3	1	1	3	4	3	3	5	2	2	1	3	3
(Carrieri et al., 1996)	2	1	4	3	-	3	3	1	1	4	1	2	3	5	2	2	1	3	1
(Cassol et al., 2014)	2	1	7	2	-	3	3	1	1	4	1	3	3	5	2	2	1	3	2
(Cheknev et al., 1994)	2	5	5	3	-	3	3	1	1	4	1	2	3	5	2	2	1	3	1
(Cheknev et al., 2001)	2	5	5	3	-	3	3	1	1	4	1	1	3	5	2	2	1	3	1
(Chieux et al., 2001)	2	5	4	3	-	3	3	1	1	4	1	2	3	5	2	2	1	3	1
(Chiurchiu et al., 2013)	2	1	4	3	-	3	3	1	1	4	1	2	3	5	2	2	1	3	1
(De Jong et al., 2016)	2	1	4	3	-	3	3	1	1	4	1	3	3	5	2	2	1	3	1
(Deckx et al., 2016)	2	1	4	3	-	3	3	1	1	4	1	3	3	5	2	2	1	3	1
(Dettke et al., 1997)	2	1	8	3	-	3	3	1	1	4	1	3	3	5	2	2	1	3	2

(Durelli et al., 1994)	2	1	1	2	-	2	2	1	1	4	1	2	3	5	2	2	1	3	1
(Durelli et al., 1996)	2	5	1	3	-	3	3	1	1	4	1	2	3	5	2	2	1	3	1
(Durelli et al., 1996)	2	5	1	2	-	2	1	1	1	4	1	2	3	5	2	2	1	3	1
(Färkkilä et al., 1990)	2	5	1	2	-	2	1	1	1	4	1	3	3	5	2	2	1	3	1
(Feng et al., 2012)	4	1	4	3	-	3	3	1	1	4	1	3	3	5	2	2	1	3	2
(Guillen et al., 1999)	4	1	2	3	-	3	3	1	1	4	1	2	3	5	2	2	1	3	2
(Hertzog et al., 1991)	2	5	1	3	-	3	3	1	1	4	1	3	3	5	2	2	1	3	2
(Hirovani et al., 2012)	2	1	4	3	-	3	3	1	1	4	1	3	3	5	2	2	1	3	1
(Hirsch et al., 1985)	1	5	2	3	-	2	2	1	1	3	4	3	3	5	2	2	1	3	2
(Kamin Lewis et al., 1984)	2	5	1	3	-	2	2	1	1	3	4	4	3	5	2	2	1	3	2
(Kawaguchi et al., 1999)	2	5	4	2	-	3	3	1	1	4	1	2	3	5	2	2	1	3	1
(Kinnunen et al., 1993)	3	1	2	2	-	2	3	1	1	4	4	1	1	5	2	2	1	3	2
(Klüter et al., 1995)	2	1	4	2	-	3	3	1	1	4	1	1	1	5	2	2	1	3	1
(Krivine et al., 1999)	2	1	3	3	-	2	2	1	1	4	1	1	1	1	2	2	1	3	2
(Lundtoft et al., 2020)	1	1	4	2	-	3	2	1	1	4	1	4	1	5	2	2	1	3	2
(Merrill et al., 1984)	2	1	4	2	-	3	2	1	1	4	1	3	1	4	2	2	1	3	2
(Mora et al., 1986)	4	1	5	2	-	3	3	1	1	1	2	1	3	5	2	2	1	3	2
(Mycko et al., 2014)	2	1	4	3	-	3	2	1	1	4	1	3	3	5	2	2	1	3	2
(Myhr et al., 1999)	1	2	1	2	-	2	3	1	1	1	1	2	3	5	2	2	1	1	1
(Myhr et al., 2000)	1	2	1	2	-	2	2	1	1	1	1	2	3	5	2	2	1	1	1
(Nystrom et al., 2007)	1	5	4	2	-	1	2	1	1	4	1	1	3	5	1	2	1	3	2
(Poutiainen et al., 1994)	2	1	1	2	-	2	3	1	1	1	2	2	3	5	2	2	1	3	2
(Pulliam et al., 2011)	2	1	4	2	-	3	2	1	1	4	1	1	3	5	2	2	1	3	2
(Rho et al., 1995)	1	1	4	3	-	3	2	1	1	4	1	3	3	5	2	2	1	3	2
(Singh & Guthikonda, 1997)	1	5	4	2	-	2	2	1	1	4	1	3	3	5	2	2	1	3	1
(Squallacoate et al., 1996)	2	1	5	3	-	3	2	1	1	1	1	1	3	5	2	2	1	3	2
(Su et al., 2019)	1	5	4	2	-	3	2	1	1	4	1	3	3	5	1	2	1	3	1
(Stoger et al., 1982)	1	5	4	2	-	3	2	1	1	4	1	2	3	5	2	2	1	3	2
(Ulvestad et al., 2004)	1	1	1	2	-	2	2	1	1	3	4	2	3	5	2	2	1	3	1
(Wandinger et al., 1997)	2	1	4	2	-	3	3	1	1	4	1	3	3	4	2	2	1	3	2

**Supplementary Table 2.** Systematic Review Centre for Laboratory animal Experimentation Risk of Bias (SYRCLE RoB tool) assessing quality of preclinical animal studies.

<b>Studies</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>Overall</b>
(Afraei et al., 2018)	U	Y	U	Y	Y	U	Y	Y	Y	Y	Unbiased
(Akwa et al., 1998)	U	Y	U	U	U	U	U	Y	Y	Y	Unbiased
(Brod et al., 1995)	U	Y	U	U	Y	U	Y	Y	Y	Y	Unbiased
(Koneru et al., 2018)	U	Y	Y	U	Y	U	Y	U	Y	Y	Unbiased
(Laman et al., 1998)	U	N	N	U	U	U	U	Y	Y	N	Biased
(Minter et al., 2015)	U	Y	U	U	N	U	N	Y	Y	Y	Unbiased
(Olson et al., 2009)	U	Y	U	U	U	N	U	Y	Y	Y	Unbiased
(Sas et al., 2009)	U	Y	U	Y	Y	U	U	Y	Y	Y	Unbiased
(Sas et al., 2007)	U	Y	U	Y	Y	U	U	Y	Y	Y	Unbiased
(Taylor et al., 2014)	U	Y	U	U	U	U	U	Y	Y	Y	Unbiased
(Valekova et al., 2016)	U	Y	U	U	U	U	U	Y	Y	Y	Unbiased
(Vasquez et al., 2019)	U	Y	Y	U	Y	U	Y	Y	Y	Y	Unbiased

N, No; Y, Yes; U, unclear