

Publication	Species	ACS Type	ACS Schedule	GA of ACS exposure# (days)	Total Dose (mg/kg)	Route	Control Used	Assessment Age (days)	Body Weight Affect	Neuropathological Outcomes	Neuroimaging outcomes	Neurobehavioral Outcomes
(14) 1975 Smith	Rat	DM	Multiday	1-delivery	0,85	Mat PO	Yes	60	→	No	No	Yes
(15) 1994 Uno	NHP	DM	Multiday	132-133	10,0	Mat IM	Yes	270	-	Yes	Yes	No
(16) 1995 Holson	Rat	DM	Multiday	14-21	0,80	Mat SC	No	90	↓	No	No	Yes
(17) 1997 Muneoka	Rat	DM	Multiday	17-19	0,15	Mat SC	Yes	98	→	Yes	No	Yes
(18) 1997 Rayburn	Mouse	BM / DM	Single	14	2,00	Mat SC	Yes	135	-	No	No	Yes
(19) 2000 Brabham	Rat	DM	Multiday	15-delivery	1,89	Mat PO	Yes	75	↓	Yes	No	Yes
(20) 2001 Christensen	Mouse	BM	Multiday	13-16	8,00	Mat SC	Yes	120	-	No	No	Yes
(21) 2001 Welberg	Rat	DM	Multiday	1-delivery	0,70	Mat SC	Yes	240	↓	Yes	No	Yes
(22) 2002 Dodic	Sheep	DM	Multiday	26-28	0,78	Mat IV	No	1800	-	Yes	No	No
(23) 2004 Banjanin	Guinea Pig	DM	Multiday	40-41, 50-51, 60-61	6,00	Mat SC	Yes	150	→	Yes	No	No
(24) 2005 Burlet	Rat	DM	Multiday	15-19	0,50	Mat SC	Yes	18	→	No	No	Yes
(25) 2005 Hougaard	Rat	DM	Multiday	14-21	0,80	Mat SC	Yes	180	↓	No	No	Yes
(26) 2005 McArthur	Rat	DM	Multiday	16-19	0,10	Mat PO	Yes	68	→	Yes	No	No
(27) 2006 Bruschetti	Rat	BM	Two doses	20	0,34	Mat SC	Yes	21	→	Yes	No	No
(28) 2006 Bruschetti	Rat	BM	Two doses	20-21	0,34	Mat SC	Yes	150	↓	Yes	No	Yes
(29) 2006 Hauser	Rat	DM	Multiday	15-21	0,70	Mat PO	Yes	135	↓	No	No	Yes
(30) 2006 Korzhevskii	Rat	DM	Two doses	13, 19	2,00	Mat IV	No	10	-	Yes	No	No
(31) 2006 Oliveira	Rat	DM	Two doses	18-19	2,00	Mat SC	Yes	1260	↓	No	No	Yes
(32) 2006 Shoener	Rat	DM	Multiday	14-19	0,78	Mat SC	Yes	21	↓	Yes	No	No
(33) 2006 Velisek	Rat	BM	Two doses	15	0,80	Mat IP	Yes	20	↓	Yes	No	Yes
(34) 2007 Hauser	NHP	DM	Multiday	42-48, 90-96	70,0	Mat PO	Yes	84	↑	No	No	Yes
(35) 2007 Leão	Rat	DM	Two doses	18-19	0,20	Mat SC	Yes	21	-	Yes	No	No
(36) 2007 McArthur	Rat	DM	Multiday	16-19	0,30	Mat PO	Yes	68	-	Yes	No	No
(37) 2007 Owen	Guinea Pig	BM	Multiday	40-41, 50-51, 60-61	6,00	Mat SC	Yes	10	-	Yes	No	No
(38) 2007 Setiawan	Guinea Pig	BM	Multiday	40-41, 50-51, 60-61	5,00	Mat SC	Yes	21	→	Yes	No	No
(39) 2008 Hauser	NHP	DM	Multiday	42-48, 90-96	35,0	Mat PO	Yes	360	→	No	No	Yes
(40) 2008 Hossain	Rat	DM	Multiday	14-delivery	0,70	Mat IP	Yes	180	→	Yes	No	Yes
(41) 2008 Nagano	Rat	DM	Multiday	16-21	0,25	Mat SC	Yes	70	↓	Yes	No	Yes
(42) 2008 Noorlander	Mouse	DM	Single	15,5	0,40	Mat IP	Yes	180	→	Yes	No	Yes
(43) 2008 Sloboda	Sheep	BM	Single / multiday	104, 111, 118, 125	0,50	Mat IM Fet IM	Yes	123	-	Yes	No	No
(44) 2009 Hauser	Rat	DM	Multiday	15-delivery	0,70	Mat PO	Yes	300	↓	No	No	Yes
(45) 2010 Diaz	NHP	DM	Multiday	42-48, 90-96	35,0	Mat PO	Yes	600	-	Yes	No	No
(46) 2010 Kleinhaus	Rat	DM	Multiday	6-8	6,00	Mat IP	Yes	29	→	No	No	Yes
(47) 2010 Neigh	Rat	DM	Multiday	14-21	0,70	Mat SC	Yes	90	-	Yes	No	Yes
(48) 2011 Kjaer	Rat	DM	Multiday	14-21	1,60	Mat SC	Yes	210	-	Yes	No	Yes
(49) 2011 Oliveira	Rat	DM	Two doses	18-19	2,00	Mat SC	Yes	90	-	Yes	No	Yes
(50) 2011 Roque	Rat	DM	Two doses	18-19	2,00	Mat SC	Yes	90	→	No	No	Yes
(51) 2012 Li	Sheep	DM	Multiday	40-42	0,42	Mat IM	Yes	210	-	Yes	No	No
(52) 2012 Liu	Rat	DM	Multiday	14-21	1,04	Mat SC	Yes	63	↓	No	No	Yes
(53) 2012 Nagano	Rat	DM	Multiday	16-21	0,30	Mat SC	Yes	70	-	Yes	No	Yes
(54) 2012 Oliveira	Rat	DM	Two doses	18-19	2,00	Mat SC	Yes	90	-	Yes	No	Yes
(55) 2012 Rodrigues	Rat	DM	Two doses	18-19	2,00	Mat SC	Yes	120	-	Yes	No	Yes
(56) 2012 Zuloaga	Rat	DM	Multiday	18-22	2,00	Mat SC	Yes	60	-	Yes	No	No
(57) 2013 Borges	Rat	DM	Two doses	18-19	2,00	Mat SC	Yes	98	-	No	No	Yes
(58) 2014 Bustamante	Rat	BM	Two doses	20	0,34	Mat SC	Yes	52	↓	Yes	No	Yes
(59) 2014 Iwasa	Rat	DM	Multiday	13-delivery	1,35	Mat PO	Yes	28	↓	Yes	No	No
(60) 2014 Noorlander	Mouse	DM	Single	15.5	0,40	Mat IP	Yes	180	→	Yes	No	No
(61) 2014 Pascual	Rat	BM	Two doses	20	0,34	Mat SC	Yes	52	-	Yes	No	Yes
(62) 2014 Virdee	Rat	DM	Multiday	16-19	0,20	Mat PO	Yes	90	-	Yes	No	Yes
(63) 2015 Frahm	Mouse	DM	Multiday	11-17	0,70	Mat SC	Yes	52	-	Yes	No	No

(64) 2015 Lui	Rat	DM	Multiday	14-delivery	0,80	Mat IP	Yes	120	→	Yes	Yes	Yes
(65) 2015 Pascual	Rat	BM	Two doses	20	0,34	Mat SC	Yes	82	-	Yes	No	Yes
(66) 2015 Shende	Rat	DM	Multiday	16-19	0,30	Mat PO	Yes	68	-	Yes	Yes	No
(67) 2015 Zeng	Rat	DM	Multiday	15-21	0,70	Mat SC	Yes	100	-	No	No	Yes
(68) 2016 Hiroi	Rat	DM	Multiday	18-22	2,00	Mat SC	Yes	60	-	Yes	No	Yes
(69) 2016 McArthur	Mouse	DM	Multiday	16-19	1,30	Mat PO	Yes	67	-	Yes	No	No
(70) 2016 Pascual	Rat	BM	Two doses	20	0,34	Mat SC	Yes	52	→	Yes	No	Yes
(71) 2016 Virdee	Rat	DM	Multiday	16-19	0,30	Mat PO	Yes	90	-	Yes	No	Yes
(72) 2017 Caetano	Rat	DM	Two doses	18-19	2,00	Mat SC	Yes	90	→	Yes	No	Yes
(73) 2017 Conti	Mouse	DM	Multiday	14-delivery	0,25	Mat SC	Yes	360	-	Yes	No	Yes
(74) 2017 Tsiarli	Mouse	DM	Single	14.5	0,40	Mat IP	Yes	60	-	Yes	No	Yes
(75) 2018 Dong	Rat	DM	Multiday	9-20	2,40	Mat SC	No	182	↓	Yes	No	Yes
(76) 2018 Frahm	Mouse	DM	Multiday	11-17	0,70	Mat SC	Yes	75	-	Yes	No	Yes
(77) 2018 Liu	Rat	DM	Multiday	14-21	1,04	Mat SC	Yes	28	↓	Yes	No	Yes

\* BM betamethasone, DM dexamethasone, NHP non-human primate, Mat maternal, Fet Fetal, SC subcutaneous, PO per os, IP intraperitoneal, IM intramuscular, IV intravenous

**Table 1.** Characteristics of included studies. The average gestation period was in mice 19-20 days, rat 22-23 days, guinea pig 65-70days, sheep 145-152 days and non-human primates 144-166 days. Effect indicated as increased ↑, decreased ↓ or no significant difference →.