

Neuropathologic al outcome	Reported studies per species (n)	Cortico-steroid	Total Dose (mg/kg)	Effect per outcome assessed and region of interest
Mineralo- and/or glucocorticoid receptor quantification (n=14)	Rat (n=7)			
	2000 Brabham (19)	DM	1,89	GR ^a - Hippocampus ↓
	2001 Welberg (21)	DM	0,70	GR and MR ^a - Hippocampus ↓ amygdala ↑
	2006 Shoener (32)	DM	0,78	GR and MR ^a - Hippocampus ↓, hypothalamus NS
	2008 Hossain (40)	DM	0,70	GR ^a - Paraventricular nucleus NS
	2008 Nagano (41)	DM	0,25	GR ^{ab} - Amygdala ↓, hippocampus NS, hypothalamus NS
	2011 Kjaer (48)	DM	1,60	GR and MR ^a - Hippocampus NS
	2018 Dong (75)	DM	2,40	GR ^a - Hippocampus ↑
	Guinea Pig (n=3)			
	2004 Banjanin (23)	DM	6,00	MR ^a - Hippocampus ↑; GR - Hippocampus NS
	2007 Owen (37)	BM	6,00	GR and MR ^a - Hippocampus NS, hypothalamus NS
	2007 Setiawan (38)	BM	5,00	GR and MR ^b - Hippocampus ↑ (females)
	Sheep (n=3)			
	2002 Dodic (22)	DM	0,78	GR and MR ^a - Hippocampus NS, hypothalamus NS
	2008 Sloboda (43)	BM	0,50	GR ^a - Hippocampus NS; MR ^a - Hippocampus ↑
	2012 Li (51)	DM	0,42	GR and MR ^a - Hypothalamus ↑ Hippocampus ↑ (males)
	NHP (n=1)			
	2010 Diaz (14)	DM	35	GR and MR ^a - Prefrontal cortex NS
Neuron density or quantification (n=8)	Rat (n=4)			
	2006 Korzhevskii (15)	DM	2,00	Nissl - Paraventricular zone ↑
	2008 Hossain (4)	DM	0,70	NeuN ^c - Paraventricular nucleus NS
	2015 Shende (16)	DM	0,30	Hematoxylin- Hippocampus NS, amygdala NS, nucleus accumbens NS
	2018 Dong (7)	DM	2,40	Nissl - Hippocampus ↓
	Mouse (n=3)			
	2008 Noorlander (17)	DM	0,40	Nissl - Hippocampus NS
	2014 Noorlander (18)	DM	0,4	Nissl - Hippocampus CA ↑, Hippocampus dentate gyrus NS
	2017 Conti (19)	DM	0,25	NeuN ^c - Hippocampus DG ↓
	NHP (n=1)			
	1994 Uno (20)	DM	10	Nissl - Hippocampus ↓, Frontal Cortex ↓
Dendrite or Golgi quantification (n=9)	Rat (n=8)			
	2006 Bruschettini (21)	BM	0,34	Synaptophysin ^c - Hippocampus NS; MAP2 ^c - Hippocampus ↓
	2012 Oliveira (22)	DM	2,00	Golgi-Cox ^c - Stria terminalis ↑; amygdala ↓
	2012 Rodrigues (23)	DM	2,00	Golgi-Cox ^c - Nucleus accumbens ↓
	2014 Bustamante (24)	BM	0,34	Golgi-Cox ^c - Hippocampus↓ dendrite length
	2014 Pascual (25)	BM	0,34	Golgi-Cox ^c - Cerebellum, Vermis ↓
	2015 Pascual (26)	BM	0,34	MAP2 ^c - ND; ↓ dendrite - Cerebellum NS, Vermis NS
	2016 Pascual (27)	BM	0,34	mGluR1 ^c - Cerebellum NS
	2018 Dong (7)	DM	2,40	Syn I ^b - Hippocampus NS
	Mouse (n=1)			
	2017 Conti (19)	DM	0,25	GFP ^c - Hippocampus DG ↓
Proliferation assessment (n=6)	Rat (n=4)			
	2006 Bruschettini (28)	BM	0,34	³ H-Thy - ↑ Hippocampus, SVZ
	2007 Leão (29)	DM	0,20	BrdU ^c - ventral tegmental area ↓, nucleus accumbens ↓
	2006 Korzhevskii (15)	DM	2,00	PCNA ^c - Paraventricular zone ↓
	2018 Dong (7)	DM	2,40	Cyclin A, Ki67 ^c - Hippocampus ↓
	Mouse (n=2)			
	2008 Noorlander (17)	DM	0,40	Ki67 ^c - Hippocampus DG ↓
	2014 Noorlander (18)	DM	0,40	Ki67 ^c - Hippocampus↓

Astrocyte or microglia quantification (n=5)	Rat (n=2)			
	2015 Shende (16)	DM	0,30	GFAP ^c - hippocampus NS, amygdala NS (↓ processes)
	2017 Caetano (30)	DM	2,00	Iba1 ^c - prefrontal cortex ↓
	Mouse (n=3)			
Apoptosis assessment (n=3)	2016 McArthur (31)	DM	1,30	Glutamine synthetase ^c - substantia nigra ↑, ventral tegmental area ↑
	2018 Frahm (32)	DM	0,70	GFAP ^c - paraventricular nucleus ↓ females ↑ males
	Rat (n=1)			
	2018 Dong (7)	DM	2,40	Caspase 3 ^c - hippocampus ↑
Dopaminergic neuron quantification (n=11)	Mouse (n=2)			
	2014 Noorlander (18)	DM	0,40	Caspase 3 ^c - hippocampus NS
	2016 McArthur (31)	DM	1,30	Caspase 3 ^c - substantia nigra, ventral tegmental area ↑
	Rat (n=10)			
	1997 Muneoka (33)	DM	0,15	Dopamine/DOPAC ^d - hypothalamus ↓, striatum, neocortex ↓
	2005 McArthur (34)	DM	0,10	Tyrosine hydroxylase ^c - substantia nigra ↑, ventral tegmental area ↑
	2007 McArthur (35)	DM	0,30	Tyrosine hydroxylase ^c - substantia nigra ↑, ventral tegmental area ↑
	2007 Leão (29)	DM	0,20	Tyrosine hydroxylase ^c - ventral tegmental area ↓, nucleus accumbens ↓
	2011 Oliveira (36)	DM	2,00	Dopamine ^{ad} - hypothalamus, nucleus accumbens ↓
	2012 Rodrigues (23)	DM	2,00	Tyrosine hydroxylase ^c - nucleus accumbens ↓
	2012 Oliveira (22)	DM	2,00	Dopamine ^a - amygdala ↓
	2013 Borges (37)	DM	2,00	Dopamine ^d - amygdala, nucleus accumbens ↓
	2014 Virdee (38)	DM	0,20	Tyrosine hydroxylase ^c - substantia nigra ↑, ventral tegmental area, striatum ↑
	2016 Virdee (39)	DM	0,30	Dopamine ^d - prefrontal cortex NS, striatum NS
Serotonergic neuron quantification (n=5)	Mouse (n=1)			
	2016 McArthur (31)	DM	1,30	Tyrosine hydroxylase ^c - Substantia nigra ↑, Ventral Tegmental Area ↑
	Rat (n=5)			
	1997 Muneoka (33)	DM	0,15	5-HT ^d - hypothalamus ↓
	2011 Oliveira (36)	DM	2,00	5-HT ^d - hypothalamus, nucleus accumbens ↓
	2012 Nagano (40)	DM	0,30	5-HT ^a - prefrontal cortex, hippocampus ↓
	2016 Hiroi (41)	DM	2,00	TpH2 ^a - dorsal raphe nucleus ↓ (females)
	2016 Virdee (39)	DM	0,30	5-HT ^d - prefrontal cortex NS, striatum NS
	GABAergic interneurons (n=2)			
Neurotransmitter (n=2)	Rat (n=2)			
	2012 Zuloaga (42)	DM	2,00	Calretinin ^c - amygdala ↓ (females)
Other (n=2)	2015 Lui (43)	DM	0,80	Reelin ^a - hippocampus ↓
	Rat (n=2)			
	2006 Velísek (44)	BM	0,80	Neuropeptide Y ^c - hippocampus ↑
	2014 Iwasa (45)	DM	1,35	Neuropeptide Y ^a - hypothalamus ↓
	Rat (n=2)			
	2010 Neigh (46)	DM	0,70	von Willebrand factor ^c - hippocampus ↓ amygdala NS
	2015 Frahm (47)	DM	0,70	Desmin ^c - paraventricular nucleus ↑
	2018 Liu (48)	DM	1,04	O-GlcNAc transferase ^{ab} - hippocampus ↓

* BM betamethasone, DM dexamethasone

^a Polymerase chain reaction or in situ hybridization, ^b western blot, ^c immunocytochemistry, ^d chromatography

Table 3. Neuropathological outcome measures reported on in selected studies with specific staining used. Results given as number (n) with statistically significant effect indicated as increased ↑, decreased ↓ or not significant NS.