

**Impaired cholinergic function and an enhanced glymphatic component
in the nucleus basalis of Meynert in individuals with Prader-Willi syndrome**

Table 1 Subjects group characteristics

Parameters	Control (n=16)	PWS (n=8)	P value
Age (years)	41.35 ± 28.16	31.58±20.95	0.34
Female (N, %)	11 (68.75)	4 (50.00)	
Male (N, %)	5 (31.25)	4 (50.00)	0.41*
Postmortem delay (hrs)	13.5(7.24,17.75)	22.4 (7.33, 39.5)	0.79
Fixation time (days)	53.00 (28.0, 87.0)	52.50 (34.75, 59.75)	0.54

N, total number of individuals; Data with a normal distribution (Age) are presented as mean ± standard deviation; Data with a non-normal distribution (Postmortem delay and Fixation time) are presented as median (interquartile range). * Fisher's exact test.

Table 2 Clinico-pathological information.

Subject	Sex	Age	BMI	PMD (hrs)	FT (days)	Cause of death and Clinical diagnosis
Controls						
C01	F	0	16	13	238	Sudden Infant Death Syndrome.
C02	F	0.6	/	17	28	Cardiomyopathy.
C03	M	2	14	40	80	Severe post-operative shock lung; hepatoblastoma.
C04	M	6	/	3.5	41	Intestinal necrosis and peritonitis.
C05	F	21	/	20	/	Myocardial infarct.
C06	F	26	41	87	26	Respiratory arrest; Tonsillar hypertrophy; Epilepsy; Eating disorder.
C07	M	35	/	14	214	Respiratory insufficiency; pulmonary aspergillosis.
C08	F	49	25	13	165	Respiratory insufficiency; Metastasized cervix carcinoma.
C09	F	50	23	53	27	Coma; Bronchopneumonia.
C10	F	60	23	8	87	Ovarium carcinoma.
C11	M	83	/	5.25	67	Myocardial infarction and palliative sedation.
C12	F	76	32	14.5	27	Plaque haemorrhage and thrombosis in the coronary artery and circumflex.
C13	F	77	33	3	39	Pulmonary metastasis of vulva carcinoma.
C14	F	71	33	7.2	53	Renal insufficiency by hypertensive nephropathy.
C15	F	50	/	17	/	Pneumonia; Non-Hodgkin lymphoma.
C16	M	55	/	7.25	/	Intestinal ischemia by thrombosis of the mesenterica superior.
PWS T1						
P01	F	0.6	17	9.8	60	Positional asphyxia: patient found dead in bed, lying face down.
P02	M	49	/	/	/	Diabetes.
PWS T2						
P03	M	3	/	41	63	Cause of death unknown
P04	F	25	22	35	26	Cardiac arrest during an operation.
P05	M	32	/	48	59	Sudden death after fever and diarrhea.
P06	F	33	71	5	31	Anuria and hypotension.
P07	M	43	25	/	/	Acute heart failure.
P08	F	67	26	6.5	46	Pulmonary infection.

BMI, body mass index; C01 - 16, control subjects 01 - 16; F, Female; FT, Fixation time; M, Male; P01 - P08, Prader-Willi Syndrome subjects 01 - 08; PMD, Postmortem delay; PWS T1, Prader-Willi Syndrome type 1 deletion; PWS T2, Prader-Willi Syndrome type 2 deletion; /, information not available.