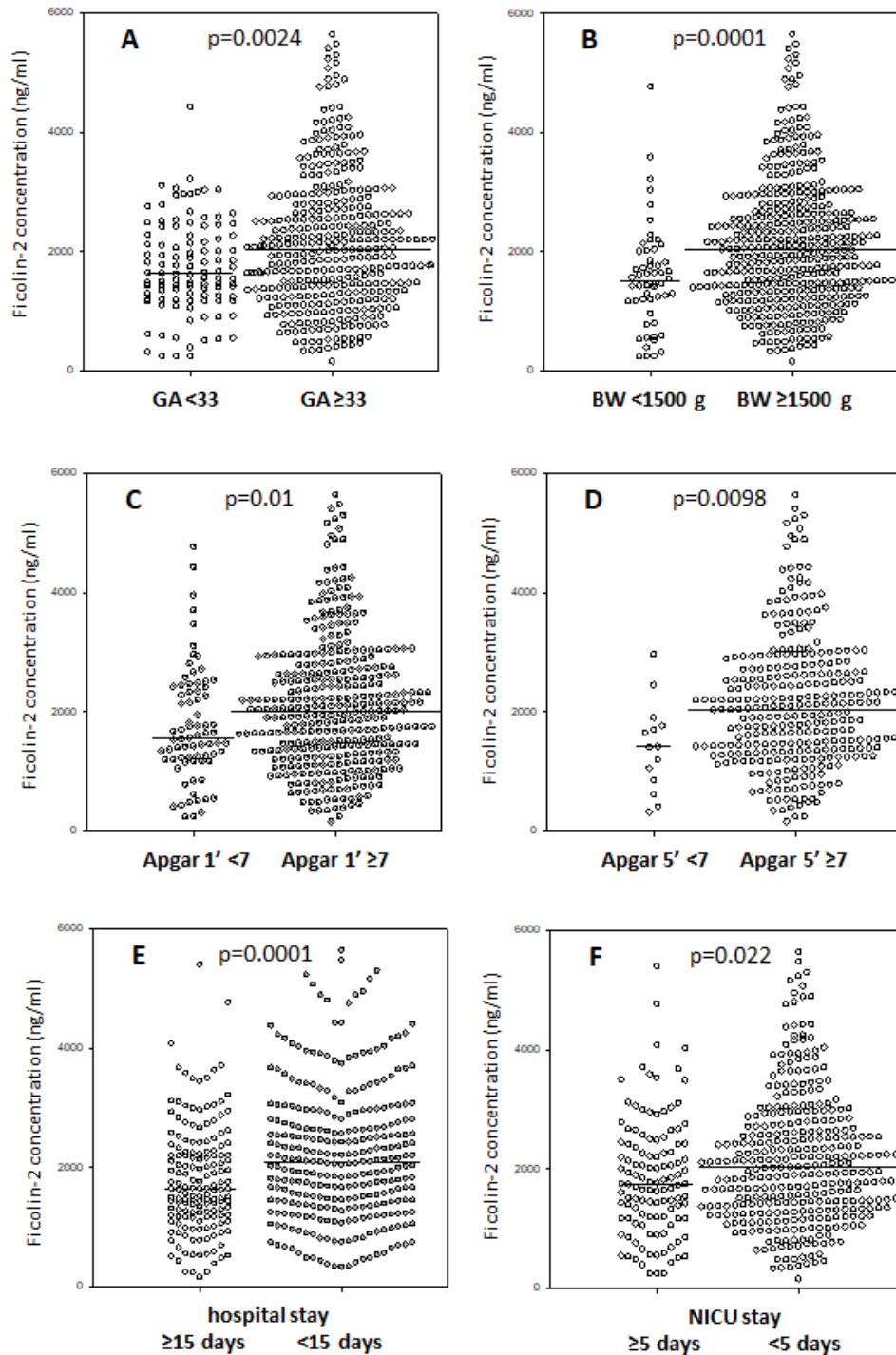


Supplementary Material



Supplementary Figure 1. Comparison of ficolin-2 concentrations in preterm neonates depending on clinical parameters: **A** - gestational age; **B** - birthweight; **C** - 1' Apgar score; **D** - 5' Apgar score; **E** - duration of hospital stay; **F** - duration of stay at NICU. Black bars indicate median values.

Supplementary Table 1 Clinical data of preterm neonates included into the study, depending on gestational age.

Variable	Gestational age <33 weeks	Gestational age ≥33 weeks	p-value
N (%)	118 (100)	428 (100)	-
Sex (Male)	57 (48.3)	228 (53.3)	0.723
Birthweight <1500g	46 (39.0)	16 (3.7)	p<0.0001
Multiple pregnancy	24 (20.3)	82 (19.2)	0.797
Gestational diabetes mellitus (GDM)	18 (15.3)	72 (16.8)	0.1
Hypertension in mother	9 (7.6)	61 (14.3)	0.08
Pre-eclampsia	3 (2.5)	22 (5.1)	0.325
Preterm premature rupture of membranes (pPROM) ¹	25 (21.2)	74 (17.3)	1
Antenatal corticosteroid therapy ²	100 (84.7)	118 (27.6)	p<0.0001
Caesarean section	77 (65.2)	272 (63.6)	0.66
Early-onset infection (EOI)	42 (35.6)	39 (9.1)	p<0.0001
Respiratory distress syndrome (RDS) ³	77 (65.2)	63 (14.7)	p<0.0001
Patent ductus arteriosus (PDA)	8 (6.8)	6 (1.4)	0.003
Tachycardia ⁴	19 (16.1)	16 (3.7)	<0.0001
Necrotizing enterocolitis (NEC)	14 (11.9)	3 (0.7)	<0.0001
Perinatal hypoxia ⁵	2 (1.7)	16 (3.7)	0.39
Respiratory support ⁶	95 (82)	71 (16.6)	<0.0001
Delivery room intubation	25 (21.1)	6 (1.4)	<0.0001
Days to hospital discharge ⁷ Mean (range)	33 (3-91)	10.5 (1-64)	<0.0001
Days at ICU ⁷ Mean (range)	16.5 (0-84)	1.9 (0-56)	<0.0001

¹- more than 24 h before delivery, ²- at least one course, ³- respiratory distress with an oxygen requirement to maintain oxygen saturations of ≥90%, accompanied by a characteristic chest radiograph, ⁴- >160 per min, ⁵- pH ≤7.0 or BE ≤12 mMol/ml in umbilical artery or within 1h of life, ⁶- mechanical ventilation, CPAP or both, ⁷- after excluding three cases of death

Supplementary Table 2. Univariate and multivariate regression analysis for potential predictors for low ficolin-2 concentration (below 25th percentile) in the group of neonates born preterm [<33 weeks of gestation (**A**) and ≥ 33 weeks of gestation (**B**)].

A

Variable	<33 GA ¹						
	N	Univariate analysis			Multivariate analysis ²		
		OR	95% CI	p-value	OR	95% CI	p-value
BW <1500 g	46	2.01	0.81-4.99	0.132	-	-	-
Promoter GGCA haplotype	16	2.51	0.78-8.1	0.123	-	-	-
3'UTR diplotype group VI	25	3.51	1.3-9.46	0.013	2.38	0.61-9.3	0.219
Sex (Male)	57	1.44	0.57-3.62	0.442	-	-	-
Caesarean section	77	1.3	0.5-3.38	0.589	-	-	-
GDM	18	1.6	0.49-5.05	0.45	-	-	-
Pre-eclampsia	3 ⁴	-	-	-	-	-	-
Hypertension in pregnancy	9	3.62	0.83-15.7	0.086	-	-	-
pPROM	25	0.54	0.17-1.74	0.299	-	-	-
Fetal growth restriction (FGR)	11	0.27	0.07-1.02	0.054	-	-	-
Tachycardia	19	0.36	0.08-1.71	0.2	-	-	-
Perinatal hypoxia	2	3.29	0.2-54.63	0.406	-	-	-
Prenatal steroid therapy	100	2.03	0.42-9.75	0.377	-	-	-
NEC	14	0.86	0.22-3.35	0.822	-	-	-
PDA	8	0.79	0.08-7.43	0.838	-	-	-
RDS	77	16.15	2.08-125.57	0.0079	17.51	2.23-137.68	0.0065
EOI	42	1.54	0.62-3.85	0.356	-	-	-
Pneumonia	35	2.07	0.82-5.25	0.125	-	-	-
SIRS	2 ³	-	-	-	-	-	-

¹- ficolin-2 concentration <1237 ng/ml; ²- multivariate analysis data are shown when p<0.05 in univariate analysis; ³-not analysed

B

Variable	$\geq 33 \text{ GA}^1$						
	N	Univariate analysis			Multivariate analysis ²		
		OR	95% CI	p-value	OR	95% CI	p-value
BW <1500 g	16	1.36	0.41-4.52	0.62	-	-	-
Promoter GGCA haplotype	49	3.33	1.74-6.37	0.0003	2.31	1-5.375	0.051
3'UTR diplotype group VI	94	2.64	1.55-4.49	0.0004	1.66	0.84-3.28	0.143
Sex (Male)	228	1.29	0.8-2.09	0.301	-	-	-
Caesarean section	272	1.11	0.68-1.8	0.687	-	-	-
GDM	72	1.12	0.6-2.11	0.715	-	-	-
Pre-eclampsia	22	0.52	0.15-1.81	0.304	-	-	-
Hypertension in pregnancy	61	0.95	0.47-1.9	0.879	-	-	-
pPROM	74	0.44	0.22-0.91	0.026	0.31	0.17-0.88	0.023
Fetal growth restriction (FGR)	51	1.24	0.61-2.54	0.555	-	-	-
Tachycardia	16	0.6	0.13-2.77	0.509	-	-	-
Perinatal hypoxia	16	0.49	0.11-2.24	0.358	-	-	-
Prenatal steroid therapy	118	1.82	1.1-2.98	0.018	1.44	0.822-5.5	0.205
NEC	3 ³	-	-	-	-	-	-
PDA	6	1.52	0.27-8.45	0.63	-	-	-
RDS	63	2.47	1.36-4.48	0.0029	2.52	1.3-4.88	0.006
EOI	39	1.13	0.52-2.43	0.76	-	-	-
Pneumonia	15	0.82	0.22-3	0.76	-	-	-
SIRS	4	9.44	0.97-91.9	0.053	-	-	-

¹- ficolin-2 concentration <1321 ng/ml; ² - multivariate analysis data are shown when p<0.05 in univariate analysis; ³-not analysed