

Table S1. Descriptive statistics of blood parameters for commercial pigs in China.

Variable	Unit	N	Mean	Sd	Median	Trimmed	Min	Max	Se
WBC	10 ⁹ /L	193	16.19	4.05	16.28	16.19	5.58	26.90	0.29
RBC	10 ¹² /L	192	6.82	0.69	6.82	6.85	4.93	8.68	0.05
HGB	g/dL	193	113.12	11.66	112.00	112.66	86.00	149.00	0.84
HCT	%	193	38.41	3.99	38.40	38.34	30.20	47.50	0.29
MCV	fL	192	56.57	4.10	56.70	56.60	41.80	72.60	0.29
MCH	pg	194	16.66	1.44	16.40	16.54	12.10	22.40	0.10
MCHC	g/dL	194	294.42	12.24	293.00	294.08	265.00	325.00	0.88
CHCM	g/dL	194	332.13	13.30	333.00	332.40	299.00	373.00	0.95
CH	pg	194	18.75	1.79	18.85	18.73	12.80	25.40	0.13
RDW	%	194	18.99	2.43	18.25	18.58	15.90	29.60	0.17
HDW	g/dL	192	21.00	1.98	20.60	20.84	17.50	32.50	0.14
PLT	10 ⁹ /L	193	260.15	138.45	248.00	252.29	29.00	724.00	9.91
MPV	fL	192	9.58	1.42	9.40	9.52	5.60	15.00	0.10
%NEUT	%	192	35.31	9.58	36.15	35.33	11.70	60.90	0.69
%LYMPH	%	192	50.09	10.75	49.95	50.63	6.70	73.80	0.77
%MONO	%	190	6.95	3.13	6.75	6.71	0.60	17.50	0.23
%EOS	%	192	4.53	2.25	4.05	4.23	1.10	16.90	0.16
%BASO	%	193	0.43	0.22	0.40	0.39	0.20	1.50	0.02
%LUC	%	194	1.90	1.08	1.70	1.81	0.30	5.00	0.08
#NEUT	10 ⁹ /L	192	5.66	1.96	5.56	5.63	1.11	11.19	0.14
#LYMPH	10 ⁹ /L	194	8.10	2.79	8.21	8.11	0.78	14.29	0.20
#MONO	10 ⁹ /L	193	1.13	0.59	1.03	1.07	0.15	3.36	0.04
#EOS	10 ⁹ /L	191	0.77	0.48	0.65	0.70	0.14	4.15	0.03
#BASO	10 ⁹ /L	191	0.07	0.04	0.06	0.06	0.02	0.28	0.01
#LUC	10 ⁹ /L	193	0.30	0.17	0.27	0.28	0.04	0.88	0.01
TP	g/dL	193	61.95	12.70	57.70	61.54	42.50	90.70	0.91
ALB	g/dL	193	32.45	5.93	33.40	32.74	19.60	45.30	0.42
AST	U/L	193	41.94	15.21	39.00	39.95	17.00	100.00	1.09
ALT	U/L	193	42.72	10.70	41.00	41.64	23.00	77.00	0.77
ALP	U/L	190	31.02	26.62	26.00	27.19	1.00	158.00	1.92
TC	mg/dL	194	82.44	18.21	81.45	81.64	42.49	179.44	1.30
TG	mg/dL	192	42.32	18.26	39.17	40.83	9.86	104.44	1.31
GLU	mg/dL	193	73.96	24.76	74.00	74.29	16.10	127.10	1.77
CREA	mg/dL	194	98.75	35.85	90.00	93.08	43.00	240.00	2.56
HDL	mg/dL	194	43.54	8.72	42.68	43.13	15.77	76.96	0.62
LDL	mg/dL	194	58.81	17.93	59.01	58.25	22.70	176.00	1.28
BUN	mg/dL	193	5.11	2.68	4.40	4.77	1.60	13.50	0.19
GGT	U/L	194	76.49	45.31	63.50	70.13	17.00	279.00	3.24
CK	U/L	190	888.57	989.36	604.50	688.90	199.00	8986.00	71.40

WBC = white blood cell, RBC = red blood cell, HGB = hemoglobin, HCT = hematocrit, MCV = mean corpuscular volume, MCH = mean corpuscular hemoglobin, MCHC = mean corpuscular hemoglobin concentration, CHCM = cellular hemoglobin concentration mean, CH = corpuscular hemoglobin, RDW = red cell distribution width, HDW = hemoglobin distribution width, PLT = platelets, MPV = mean platelet

volume, NEUT = neutrophil, LYMPH = lymphocyte, MONO = monocytes, EOS = eosinophil, BASO = basophilic granulocyte, LUC = unstained large cells, TP = Total Protein, ALB = Albumin, AST = Aspartate Transaminase, ALT = Alanine Aminotransferase, ALP = Alkaline Phosphatase, TC = Total Cholesterol, TG = Triglyceride, GLU = Glucose, CREA = Creatinine, HDL = High-Density Lipoprotein, LDL = Low Density Lipoprotein, BUN = Blood Urea Nitrogen, GGT = Gamma-Glutamyl Transpeptidase, CK = Creatine Kinase ‘#’ = absolute value, ‘%’ = percentage value. Sd = standard deviation, Se = standard error.

Table S3. Comparison of hematologic parameters between nursery pigs at different ages. Significant differences are indicated by different lowercase letters ($p < 0.05$) and uppercase letters ($p < 0.01$).

Variable	Unit	days			
		20	30	40	50
WBC	10 ⁹ /L	11.51 ^A ±0.76	15.97 ^B ±0.6	15.06 ^B ±0.6	20.08 ^C ±0.62
RBC	10 ¹² /L	6.86 ^A ±0.11	7.17 ^B ±0.09	6.38 ^C ±0.09	6.61 ^{AC} ±0.09
HGB	g/dL	116.64 ^A ±2.39	112.10 ^{AB} ±1.86	108.18 ^{BC} ±1.87	105.33 ^C ±1.94
HCT	%	39.26 ^a ±0.81	37.29 ^b ±0.63	36.17 ^b ±0.63	36.18 ^b ±0.66
MCV	fL	57.03 ^A ±0.81	52.27 ^B ±0.62	56.65 ^A ±0.62	54.77 ^C ±0.65
MCH	pg	16.99 ^A ±0.26	15.78 ^B ±0.2	16.89 ^A ±0.21	15.94 ^B ±0.21
MCHC	g/dL	296.96 ^A ±1.81	301.63 ^B ±1.41	298.36 ^{AB} ±1.42	291.00 ^C ±1.47
CHCM	g/dL	326.82±2.28	324.93±1.78	321.71±1.78	321.70±1.85
CH	pg	18.68 ^A ±0.31	16.98 ^B ±0.24	18.13 ^{AC} ±0.24	17.57 ^{BC} ±0.25
RDW	%	20.54 ^A ±0.49	22.69 ^B ±0.38	18.98 ^C ±0.38	17.59 ^D ±0.4
HDW	g/dL	20.74±0.41	21.21±0.32	21.38±0.32	20.85±0.33
PLT	10 ⁹ /L	236.50 ^a ±36.46	289.30 ^{ab} ±28.35	258.22 ^b ±28.99	356.61 ^a ±29.55
MPV	fL	9.34±0.32	9.40±0.25	9.86±0.25	9.51±0.27
%NEUT	%	42.49 ^A ±2.06	39.87 ^{AB} ±1.62	34.52 ^C ±1.6	36.42 ^{BC} ±1.71
%LYMPH	%	43.54 ^{AB} ±2.38	46.62 ^{AB} ±1.82	42.20 ^A ±1.82	48.71 ^B ±1.94
%MONO	%	7.50 ^A ±0.6	5.62 ^B ±0.47	11.82 ^C ±0.47	7.75 ^A ±0.48
%EOS	%	3.70±0.51	4.68±0.39	4.80±0.39	4.69±0.4
%BASO	%	0.35±0.03	0.33±0.02	0.40±0.02	0.39±0.02
%LUC	%	2.28 ^{AB} ±0.24	1.82 ^A ±0.18	2.70 ^B ±0.18	1.94 ^A ±0.19
#NEUT	10 ⁹ /L	4.85 ^A ±0.42	6.41 ^B ±0.33	5.20 ^A ±0.32	7.23 ^B ±0.34
#LYMPH	10 ⁹ /L	4.83±0.52	7.33±0.4	6.48±0.4	9.44±0.42
#MONO	10 ⁹ /L	0.86 ^A ±0.12	0.88 ^A ±0.09	1.84 ^B ±0.09	1.55 ^C ±0.1
#EOS	10 ⁹ /L	0.41 ^a ±0.12	0.77 ^b ±0.09	0.95 ^b ±0.1	0.95 ^b ±0.1
#BASO	10 ⁹ /L	0.04 ^A ±0	0.05 ^{AB} ±0	0.06 ^B ±0	0.08 ^C ±0
#LUC	10 ⁹ /L	0.27 ^a ±0.04	0.30 ^a ±0.03	0.42 ^b ±0.03	0.36 ^{ab} ±0.03

Table S4. Comparison of biochemical parameters between nursery pigs at different ages. Significant differences are indicated by different lowercase letters ($p < 0.05$) and uppercase letters ($p < 0.01$).

Variable	Unit	days			
		20	30	40	50
TP	g/dL	50.18 ^A ±0.79	48.17 ^B ±0.66	52.54 ^C ±0.68	54.49 ^D ±0.72
ALB	g/dL	32.85 ^A ±0.73	29.71 ^B ±0.6	26.60 ^C ±0.63	24.79 ^D ±0.66
AST	U/L	60.67 ^A ±2.84	45.89 ^B ±2.36	44.36 ^B ±2.45	40.57 ^B ±2.6
ALT	U/L	50.24 ^A ±2.1	36.33 ^B ±1.74	46.88 ^{AC} ±1.81	43.63 ^C ±1.92
ALP	U/L	60.72 ^A ±4.62	59.72 ^A ±3.78	40.41 ^B ±3.99	29.35 ^B ±4.23 [?]

TC	mg/dL	100.72 ^A ±3.96	60.92 ^B ±3.25	80.30 ^C ±3.42	81.35 ^C ±3.62
TG	mg/dL	42.29 ^A ±2.67	34.05 ^B ±2.19	54.46 ^C ±2.34	51.42 ^C ±2.44
GLU	mg/dL	92.19 ^A ±2.85	79.66 ^B ±2.37	94.30 ^A ±2.46	98.06 ^A ±2.61
CREA	mg/dL	95.49 ^A ±2.49	83.16 ^B ±2.04	60.36 ^C ±2.15	86.23 ^B ±2.28
HDL	mg/dL	55.06 ^A ±1.76	37.62 ^B ±1.44	43.05 ^C ±1.52	38.23 ^B ±1.61
LDL	mg/dL	73.02 ^A ±4.14	36.26 ^B ±3.4	57.36 ^C ±3.58	63.45 ^{AC} ±3.79
BUN	mg/dL	3.49 ^A ±0.17	3.48 ^A ±0.14	2.26 ^B ±0.14	3.81 ^A ±0.15
GGT	U/L	58.15 ^A ±8.78	95.89 ^B ±7.2	90.00 ^B ±7.58	133.30 ^C ±8.03
CK	U/L	802.50 ^A ±93.45	477.10 ^B ±74.78	1078.00 ^C ±79.9	614.00 ^{AB} ±84.62