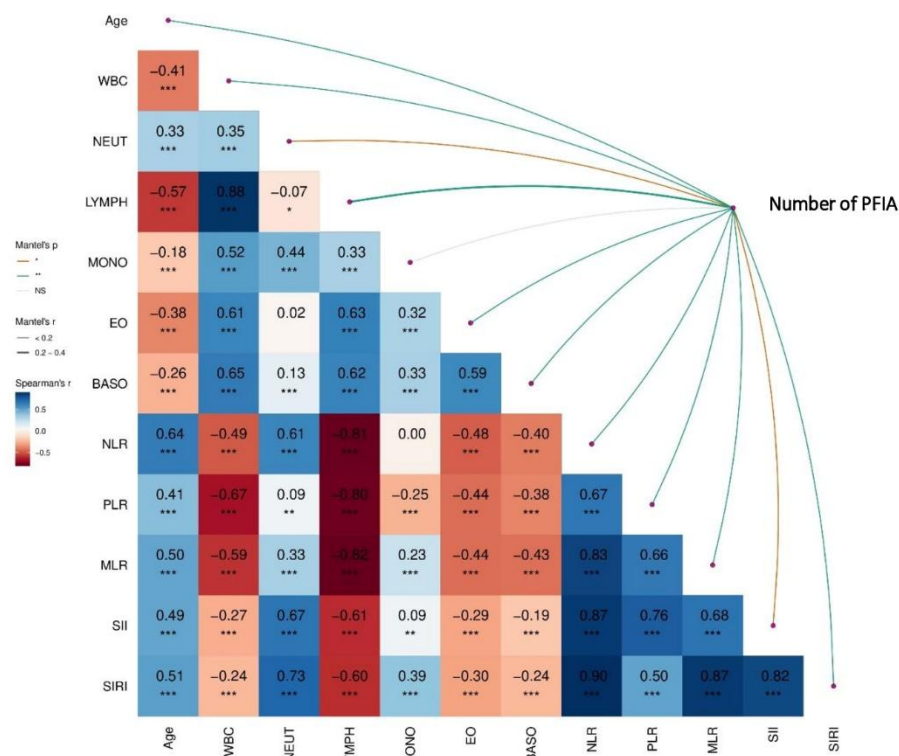


SECONDARY OUTCOME CORRELATION

Correlation analysis between the number of perianal infection points and various indicators

The number of perianal infection points was correlated with Age (r= 0.063), WBC (r= 0.169), NEUT (r= 0.041), LYMPH(r=0.231), EO (r= 0.066), BASO (r= 0.082), NLR (r= 0.124), PLR (r= 0.070), MLR (r) =0.135), SIRI (r=0.090) were positively correlated (P<0.05), and there was no significant correlation with MONO and SII (P>0.05) (Supplementary Figure 1).



Supplementary Figure 1 Correlation analysis between the number of perianal fistulas and various indicators.

Primary outcome correlation

Supplementary Table 1 Bootstrap Sensitivity Analysis for PFIA and CBC-Derived Inflammatory Indicators

Variable	Crude model				Adjusted model					
	Estimation		Bootstrapped Estimation		Estimation		Bootstrapped Estimation			
	Crude OR (95% CI)	Crude P	Crude OR (95% CI)	Crude P	Adjusted OR (95% CI)	Adjusted P	Adjusted OR (95% CI)	Adjusted P	Adjusted OR (95% CI)	Adjusted P
WBC	2.31(2.06~2.60)	<0.001	(2.10~2.58)	<0.001	2.18(1.94~2.47)	<0.001	(1.98~2.45)	<0.001		
NEUT	0.86(0.78~0.93)	0.001	(0.76~0.93)	0.001	1.03(0.93~1.15)	0.577	(0.91~1.16)	0.578		
LYMPH	15.90(10.32~26.41)	<0.001	(9.63~32.96)	<0.001	17.78(11.24~30.34)	<0.001	(10.68~39.18)	<0.001		
MONO	3.34(1.60~7.32)	0.002	(1.71~7.44)	<0.001	1.04(0.60~2.14)	0.899	(0.51~2.02)	0.816		
EO	1.13(1.11~1.15)	<0.001	(1.10~1.16)	<0.001	1.11(1.09~1.13)	<0.001	(1.09~1.14)	<0.001		

BASO	2.46(2.16~2.83)	<0.001	(2.17~2.87)	<0.001	2.52(2.17~2.94)	<0.001	(2.16~3.02)	<0.001
NLR	0.04(0.03~0.06)	<0.001	(0.02~0.09)	0.001	0.05(0.03~0.09)	<0.001	(0.02~0.12)	0.001
PLR	0.96(0.96~0.97)	<0.001	(0.96~0.97)	0.001	0.97(0.97~0.98)	<0.001	(0.97~0.98)	0.001
MLR	0.77(0.76~0.80)	<0.001	(0.68~0.84)	0.001	0.80(0.77~0.82)	<0.001	(0.71~0.86)	0.001
SII	0.62(0.57~0.68)	<0.001	(0.99~1.00)	0.001	0.78(0.70~0.86)	<0.001	(1.00~1.00)	0.001
SIRI	0.03(0.01~0.04)	<0.001	(0.01~0.06)	0.001	0.05(0.03~0.08)	<0.001	(0.02~0.10)	0.001

CBC, complete blood count; PFIA, pediatric fistula-in-ano;WBC, white blood cell; NEUT, neutrophil; LYMPH, lymphocyte; mono, monocyte; MONO, monocyte;EO, eosinophil; BASO, basophil; NLR, neutrophil-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio; MLR, monocyte-to-lymphocyte ratio; SII, systemic immune-inflammation index; SIRI, systemic inflammatory response index

Supplementary Table 2 Linear regression Analysis of PFIA Number and CBC-Derived Inflammatory Indicators

Variable	Crude OR (95% CI)	Crude P	Adjusted OR (95% CI)	Adjusted P
WBC(*10^9/L)	0.15(0.13~0.17)	<0.001	0.13(0.11~0.15)	<0.001
NEUT(*10^9/L)	0.00(-0.05~0.05)	0.899	0.09(0.04~0.13)	<0.001
LYMPH(*10^9/L)	0.20(0.18~0.23)	<0.001	0.18(0.15~0.20)	<0.001
MONO(*10^9/L)	0.53(0.27~0.80)	0.002	0.27(0.02~0.52)	0.037
EO(*10^9/L)	0.01(0.01~0.02)	<0.001	0.01(0.01~0.01)	<0.001
BASO(*10^9/L)	0.16(0.13~0.19)	<0.001	0.13(0.10~0.16)	<0.001
NLR	-0.64(-0.72~-0.56)	<0.001	-0.51(-0.60~-0.41)	<0.001
PLR	-0.01(-0.01~-0.01)	<0.001	-0.01(-0.01~-0.01)	<0.001
MLR	-0.04(-0.05~-0.04)	<0.001	-0.04(-0.04~-0.03)	<0.001
SII	-0.13(-0.17~-0.10)	<0.001	-0.05(-0.08~-0.01)	0.021
SIRI	-0.84(-0.98~-0.69)	<0.001	-0.58(-0.73~-0.43)	<0.001

CBC, complete blood count; PFIA, pediatric fistula-in-ano;WBC, white blood cell; NEUT, neutrophil; LYMPH, lymphocyte; mono, monocyte; MONO, monocyte;EO, eosinophil; BASO, basophil; NLR, neutrophil-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio; MLR, monocyte-to-lymphocyte ratio; SII, systemic immune-inflammation index; SIRI, systemic inflammatory response index

Supplementary Table 3 Subgroup Analysis for PFIA and CBC-Derived Inflammatory Indicators

Variable (M)	Crude OR (95% CI)	Crude P	Adjusted OR (95% CI)	Adjusted P
Age<=12				
WBC(*10^9/L)	0.10(0.08~0.13)	<0.001	0.10(0.08~0.13)	<0.001
NEUT(*10^9/L)	0.13(0.06~0.20)	0.984	0.14(0.07~0.21)	0.451
LYMPH(*10^9/L)	0.13(0.10~0.16)	<0.001	0.13(0.10~0.16)	<0.001
MONO(*10^9/L)	0.26(-0.02~0.54)	0.066	0.27(-0.01~0.54)	0.060

EO(*10 ⁹ /L)	0.50(0.15~0.85)	0.005	0.49(0.14~0.84)	0.006
BASO(*10 ⁹ /L)	8.60(4.97~12.24)	<0.001	8.60(4.96~12.24)	<0.001
NLR	-0.69(-0.88~-0.50)	<0.001	-0.70(-0.89~-0.51)	<0.001
PLR	-0.01(-0.01~-0.01)	<0.001	-0.01(-0.01~-0.01)	<0.001
MLR	-2.73(-3.55~-1.92)	<0.001	-2.73(-3.56~-1.91)	<0.001
SII	-0.00(-0.00~-0.00)	0.022	-0.00(-0.00~-0.00)	0.028
SIRI	-0.56(-0.82~-0.31)	<0.001	-0.56(-0.82~-0.30)	<0.001
12<Age<=36				
WBC(*10 ⁹ /L)	0.22(0.18~0.27)	<0.001	0.20(0.16~0.24)	<0.001
NEUT(*10 ⁹ /L)	0.01(-0.09~0.11)	0.805	0.05(-0.04~0.15)	0.277
LYMPH(*10 ⁹ /L)	0.39(0.34~0.45)	<0.001	0.37(0.31~0.43)	<0.001
)				
MONO(*10 ⁹ /L)	0.66(-0.21~1.53)	0.135	0.52(-0.30~1.35)	0.211
EO(*10 ⁹ /L)	3.22(2.53~3.92)	<0.001	2.95(2.28~3.62)	<0.001
BASO(*10 ⁹ /L)	22.86(16.61~29.10)	<0.001	21.15(15.22~27.08)	<0.001
NLR	-0.67(-0.82~-0.51)	<0.001	-0.58(-0.73~-0.43)	<0.001
PLR	-0.01(-0.02~-0.01)	<0.001	-0.01(-0.01~-0.01)	<0.001
MLR	-5.68(-6.80~-4.56)	<0.001	-5.11(-6.22~-4.00)	<0.001
SII	-0.00(-0.00~-0.00)	<0.001	-0.00(-0.00~-0.00)	0.008
SIRI	-0.78(-1.03~-0.53)	<0.001	-0.65(-0.90~-0.40)	<0.001
36<Age<=72				
WBC(*10 ⁹ /L)	0.11(0.05~0.16)	<0.001	0.10(0.04~0.15)	<0.001
NEUT(*10 ⁹ /L)	0.04(-0.02~0.11)	0.193	0.04(-0.03~0.10)	0.246
LYMPH(*10 ⁹ /L)	0.45(0.32~0.57)	<0.001	0.43(0.30~0.55)	<0.001
)				
MONO(*10 ⁹ /L)	-0.90(-1.87~0.07)	0.068	-0.73(-1.68~0.22)	0.130
EO(*10 ⁹ /L)	1.21(0.48~1.95)	0.001	1.01(0.27~1.75)	0.008
BASO(*10 ⁹ /L)	20.17(14.64~25.70)	<0.001	18.91(13.24~24.59)	<0.001
NLR	-0.16(-0.28~-0.03)	0.014	-0.15(-0.27~-0.03)	0.018
PLR	0.00(-0.00~0.00)	0.851	0.00(-0.00~0.00)	0.976
MLR	-2.88(-3.97~-1.78)	<0.001	-2.66(-3.75~-1.57)	<0.001
SII	0.00(-0.00~0.00)	0.193	0.00(-0.00~0.00)	0.287
SIRI	-0.29(-0.51~-0.06)	0.015	-0.26(-0.48~-0.04)	0.023

CBC, complete blood count; PFIA, pediatric fistula-in-ano;WBC, white blood cell; NEUT, neutrophil; LYMPH, lymphocyte; mono, monocyte; MONO, monocyte;EO, eosinophil; BASO, basophil; NLR, neutrophil-to-lymphocyte ratio; PLR, platelet-to-lymphocyte ratio; MLR, monocyte-to-lymphocyte ratio; SII, systemic immune-inflammation index; SIRI, systemic inflammatory response index