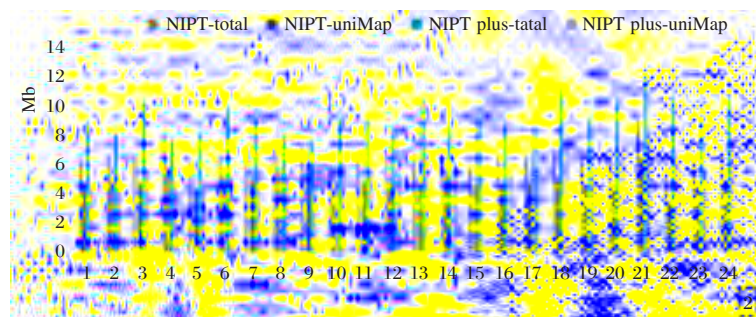


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Volume 16 Number 1 January 2024



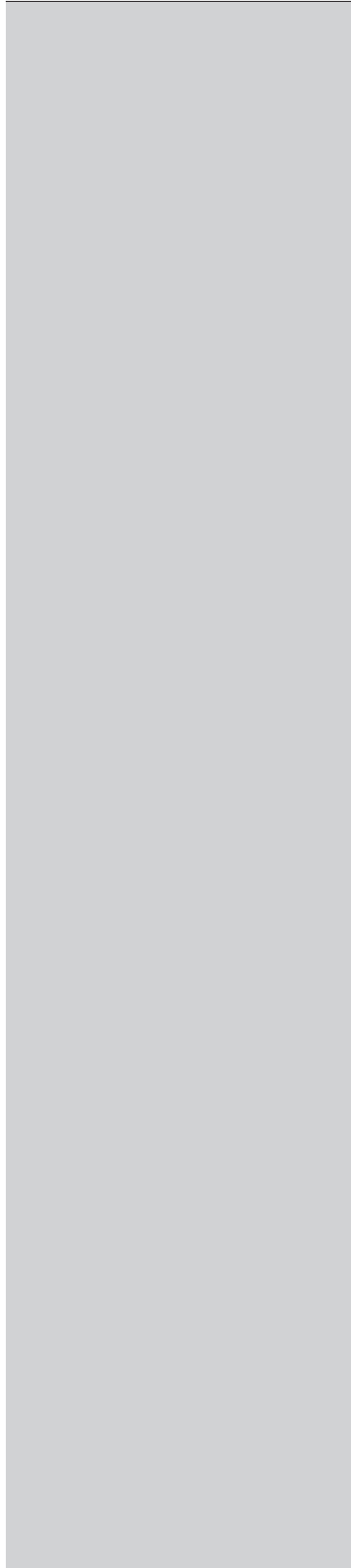
12 24

Figure 12 Total Sequencing Data Amount and Effective Sequencing Data Amount of 24 Samples

ISSN 1674-6929



分子诊断与治疗杂志





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分子诊断与治疗杂志

2024 1 16 1

COMMENTS

Progress of research on the mechanism of DPP-4 inhibitors in the treatment of type 2 diabetes mellitus complicated with nonalcoholic fatty liver disease

.....

ORIGINAL ARTICLES

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.....

Evaluation of the application of NIPT-plus inscreenin chromosome MMS

.....

The role of serum D-D PCT combined with CRP in the assessment of disease condition and prognosis of children with mycoplasma pneumoniae pneumonia

.....

Predictive value of preoperative FDP level on slow / no reflow during PCI of patients with acute myocardial infarction

.....

Relationship between serum IL-6 PCT TNF- α and adverse pregnancy outcomes in pregnant women with GBS infection

.....

Effect of VSD treatment on surgical indicators inflammatory factors and functional recovery in patients with secondary bone infection after tibial fracture surgery

.....

Correlation between APACHE II score lactic acid concentration D-dimer and prognosis in patients with severe infection

.....

Value of serum AFP GP73 and GPC3 detection in the diagnosis and prognosis assessment of primary liver cancer

.....

Effects of *Lactobacillus* live bacteria capsules combined with human interferon α -2b gel in the treatment of HR-HPV infection after CKC in HSIL patients and its influence on the levels of IL-4 IL-10 and TNF- α

.....

Clinical significance of TCT combined with HR-HPV gene detection in screening cervical cancer and precancerous lesions

.....

Expression of serum sulfatide and ANGPTL4 in acute myocardial infarction complicated with heart failure

.....

Relationship between IL 1 IL 1b IL-6 and IL 10 gene polymorphisms and the occurrence of diabetic periodontitis

.....

Effects of general anesthesia with sevoflurane and propofol on cardiac function and inflammatory response in patients with intestinal obstruction and septic shock

.....

Effects of NAC combined with budesonide glycopyrronium bromide and formoterol fumarate on blood gas indexes in patients with acute exacerbation of COPD

.....

Relationship between traditional Chinese medicine syndrome types of lung adenocarcinoma and TGF- β IFN- γ and MMP-9 in induced phlegm

.....

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.....

Predictive value of ultrasound images for HER-2 expression in patients with breast ductal carcinoma in situ

.....

Effect of ulinastatin combined with subhypothermia on serum TLR4/NF- κ B indicators in patients undergoing cardiopulmonary resuscitation

.....

Effects of sevelamer combined with high-throughput dialysis on microinflammation renal function and cTnT in maintenance hemodialysis patients

Application value of early detection of plasma miR 379 miR 195 and Gas6 levels in patients with AMI

Relationship between serum lncRNA p21 expression level and prognosis of patients with acute myocardial infarction treated with PCI

Significance of high-risk HPV classification combined with cervical secretions PKM2 and Stat3 in cervical cancer screening

Correlation between serum DBP and 25 OH D expression in late pregnancy and neonatal eczema

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Clinical significance of the TUBA1C in colon cancer

Efficacy of Jinghua Weikang Capsule in the treatment of chronic atrophic gastritis and its effect on inflammation and pyroptosis mediated by the NLRP3 pathway

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Relationship between lactic acid clearance SVRI and cardiac displacement monitoring and the therapeutic effect and prognosis of patients with septic shock

Changes in serum miR 122 5p in patients with coronary heart disease and its relationship with plaque stability and prognosis

Effect of PTED treatment on IL-6 HMGB-1 and IL-17 levels in lumbar disc herniation

Correlation and clinical significance of PARP1 and ferroptosis in chemotherapy-resistant epithelial ovarian cancer tissues

Prognostic value of CD64 PCT and SChE in patients with septic shock

Short-term efficacy of different surgical methods for hypertensive intracerebral hemorrhage in the basal ganglia region

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Correlation between postoperative serum MMIF IL-6 and PTH levels and postoperative hypoparathyroidism after papillary thyroid cancer surgery

Relationship between serum thyroid hormone NLR and CRP/ALB and delirium after lung cancer surgery

Serum levels of miR 211 and miR 128 in cutaneous malignant melanoma and their relationship with efficacy

Changes of ESR PCT and IL-8 and value of combined detection in patients with acute exacerbation of chronic obstructive pulmonary disease

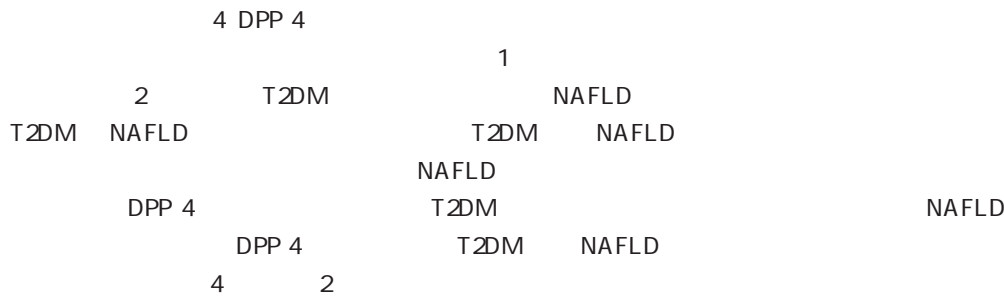
Evaluation of combined detection of GR NO and IL-6 in children with viral myocarditis

Expression and clinical significance of NLRP3 SAA and NFκB in serum of patients with craniocerebral infection after craniocerebral injury

REVIEWS

New progress in the research of miR-100 in human cancer

DPP 4 2



Progress of research on the mechanism of DPP 4 inhibitors in the treatment of type 2 diabetes mellitus complicated with nonalcoholic fatty liver disease

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ABSTRACT Dipeptidyl peptidase 4 (DPP 4) inhibitor is a new type of diabetes therapy drug. The main hypoglycemic mechanism of dipeptidyl peptidase 4 inhibitor is to increase endogenous glucagon like peptide 1 by reducing the reduction of enterocagon thus promoting insulin secretion and inhibiting glucagon secretion and reducing blood glucose level in the body. Type 2 diabetes mellitus (T2DM) and non alcoholic fatty liver disease (NAFLD) are common types of diseases in clinical and the incidence is high. T2DM and NAFLD can influence and promote each other. T2DM combined with NAFLD not only tends to increase the risk of cardiovascular diseases and aggravate endocrine and metabolic disorders but also tends to promote the progression of NAFLD leading to liver cirrhosis liver cancer and other malignant lesions. Many studies have shown that DPP 4 inhibitors can effectively reduce blood glucose levels and improve insulin resistance in patients with T2DM and have a good preventive effect on NAFLD. This article reviews the efficacy and safety of DPP 4 inhibitors in the treatment of T2DM with NAFLD.

KEY WORDS Dipeptidyl peptidase 4 inhibitors Type 2 diabetes mellitus Nonalcoholic fatty liver disease

Nonalcoholic fatty liver disease NAFLD T2DM
 90%² T2DM NAFLD T2DM
 1 2 Type 2 diabetes mellitus

2020MSX M085

400037

E mail 13512380018@163.com

3 T2DM NAFLD 2.2 T2DM NAFLD
 DPP 4 4 dipeptidyl peptidase 4 T2DM NAFLD
 DPP 4 DPP 4 Diaconu ¹¹
 11 T2DM NAFLD
 4 DPP 4
 T2DM NAFLD T2DM NAFLD
 DPP 4 T2DM NAFLD
 1 T2DM NAFLD T2DM NAFLD
 NAFLD 1 Gluca
 SGLT2 2 Sodium glucose cotransporter 2
 12
 1990-2006 25.26% 95% CI 21.59-
 29.33 2016-2019 38.00% 95% CI
 33.71-42.49 T2DM SGLT2
 5 Zheng 6
 2015 20-79 13 14 DPP 4
 4.15 GLP 1
 9.09% 2040
 6.42 7
 NAFLD T2DM NAFLD T2DM NAFLD 15 16
 T2DM T2DM 18%~33%
 T2DM NAFLD 49%~62% 3 DPP 4
 2 T2DM NAFLD
 2.1 T2DM NAFLD GLP 1
 T2DM NAFLD Glucose dependent insulinotropic polypeptide GIP
 IR Insulin resistance 3
 NAFLD
 IR
 8 IR
 Triglyceride TG
 T2DM NAFLD
 IR NAFLD
 NAFLD
 9
 Free fatty acid FFA
 NAFLD

4.3
 22 DPP 4 NAFLD FFA
 DPP 4 GLP 1 GLP 1
 GLP 1 NAFLD 31 T2DM
 19 DPP 4
 DPP 4 DPP 4 GLP 1
 32 Ozutsumi 33 DPP 4
 4 DPP 4 T2DM NAFLD
 4.1
 DPP 4
 De novo lipogenesis DNL DNL
 A
 NAFLD 3 DNL
 1c
 IR T2DM NAFLD Baumeier 35
 23 Shabalala 24 IR T2DM NAFLD IR
 DNL FFA 36 DPP 4 Okura
 NAFLD Ideta 25 DPP 4 37 DPP 4 IR Liu
 / / 4 3
 DNL NAFLD DPP 4 IR Okuyama 38
 Rameshrad 26 DPP 4 1 IR IR
 5 DPP 4
 DPP 4
 TG DNL DPP 4
 DNL T2DM 39
 NAFLD DPP 4 T2DM
 4.2
 T2DM
 27
 NAFLD
 NAFLD DPP 4
 28 Hiromura 29 T2DM NAFLD
 DPP 4 52
 Li 42 DPP 4
 30 DPP 4 T2DM
 DPP 4 T2DM
 DPP 4 T2DM
 NAFLD DPP 4

6

T2DM NAFLD
DPP 4

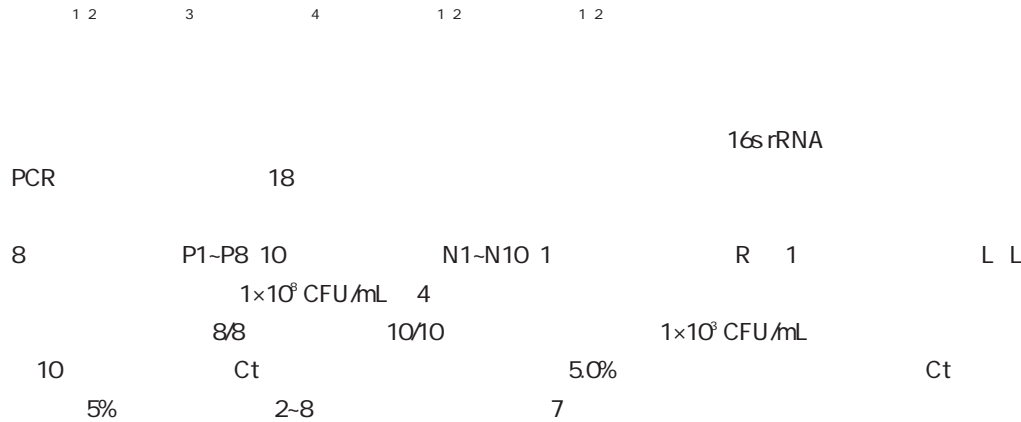
IR

T2DM NAFLD
NAFLD
DPP 4

T2DM NAFLD

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Establishment of a national reference panel for *Vibrio vulnificus* nucleic acid detection kits

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ABSTRACT Objective To establish a national reference panel for *Vibrio vulnificus* nucleic acid detection reagents and set standards which aimed to evaluate the quality of related kits. Methods A variety of *Vibrio vulnificus* and other *Vibrio* pathogens were collected and cultured. After colony identification 16s rRNA sequencing analysis and detection of a real time fluorescence quantitative PCR reagent 18 samples were selected diluted and packaged to form a national reference panel for *Vibrio vulnificus* nucleic acid detection kits. Different laboratories were invited to coordinate calibration of the panel and the uniformity and stability were further investigated. Results The established national reference panel included 8 positive references P1-P8 10 negative references N1-N10 1 repetitive reference R and 1 limited detection reference L Reference L was determined the concentration of 1×10^8 CFU/mL by colony counting methods. Four laboratories participated in the collaborative calibration of national reference materials and developed quality standards based on the results positive coincidence rate of 8/8 negative coincidence rate of 10/10 the detection limit is at

2018ZX10102001 002 002

- 1. 100050
- 2. 100050
- 3. 300142
- 4. 100091

E mail: xushong@nifdc.org.cn

1

1964

1979

2

1.2.3

5 R
DNA 1 10 1 100
3
CV
Ct 40 Ct>40 Ct
1.2.4

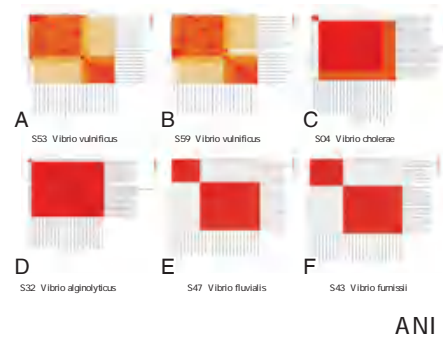


Figure 1 Sequence clustering and ANI heat maps of *Vibrio vulnificus* and control *Vibrio* strains

18
P1-P8 10 N1-N10 1
R 1 L L
1x10³ CFU/mL
2.2
4
+/- 8/8 -/- 10/10
3
1x10² CFU/mL
CV 5% 2
2 4
2
2.1
20
8 10
1 S53 S59
S04 S32 S47 S43
1

6
L 2 3
1 2 2-8
7 d 1 d 3 d 5 d 7 d
DNA/RNA 10 10-1x
10⁷ CFU/mL Od
2-8 7 d
Od GraphPad Prism 6.0
t

Table 2 Collaborative test results of 4 laboratories

	A	B	C	D
P1-P8	8/8	8/8	8/8	8/8
N1-N10	10/10	10/10	10/10	10/10
L	1x10 ² CFU/mL	1x10 ² CFU/mL	1x10 ³ CFU/mL	1x10 ² CFU/mL
%	R 1:10 0.4	1.3	0.5	1.3
	R 1:100 0.5	1.3	0.6	0.9

Table 1 Screening rechecking and verification of 20 candidate strains

	16S rRNA	PCR
S52, S53, S55, S56, S57, S58, S59, S61	+	+
S54, S60	+	-
S04, S05, S11	+	-
S22, S24	+	-
S32, S33	+	-
S38	+	-
S47	+	-
S43	+	-

8/8 P1-P8
10/10 N1-N10
1x10³
CFU/mL
CV 5.0%
2.3
R 1 10 1 100 2
CV 1.9% 1.7% 15 Ct
2.4
L 2-8
1 d 3 d 5 d 7 d 3

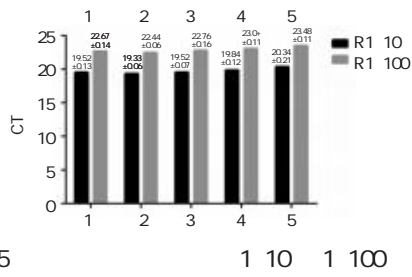


Figure 2 Test results by dilution of 1 10 and 1 100 of 5 repetitive references

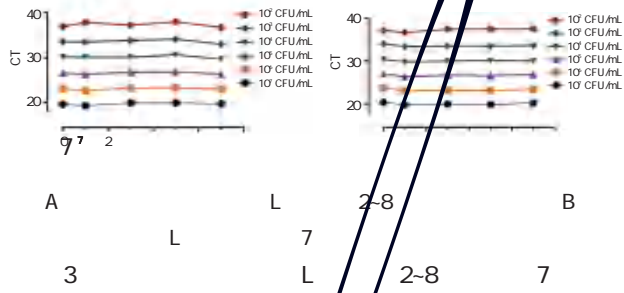


Figure 3 Stability analysis of the limited reference L at 2-8 °C and room temperature for 7 days



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NIPT plus

MMS

1 1 2 2 2 2

NIPT plus / MMS
2018 1 2020 12 3 860 2022 10
24
NIPT 10 NIPT plus NIPT plus CMA
24

1. 2021 276
2. 570311
510000

E mail 13570474904@163.com

4 /
NIPT plus

5

3 860

NIPT plus /

~~micro deletion/micro duplication syndrome~~

MMS

NIPT plus

1

18 20 22 24
2018 1 2020 12

NIPT

3 860

2022 CNV 10

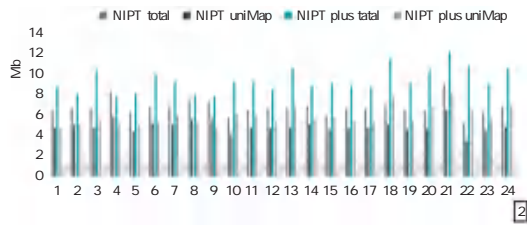
~~micro deletion/micro duplication syndrome~~

B - -

7 20

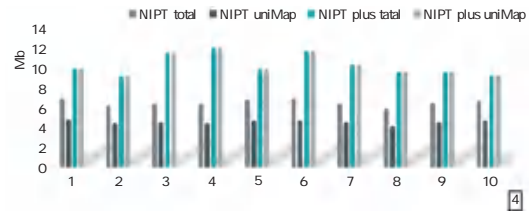
NT

1 NT



2 24

Figure 2 Total Sequencing Data Amount and Effective Sequencing Data Amount of 24 Samples



4 10

Figure 4 Total Sequencing Data and Effective Sequencing Data of 10 Quality Evaluation Samples

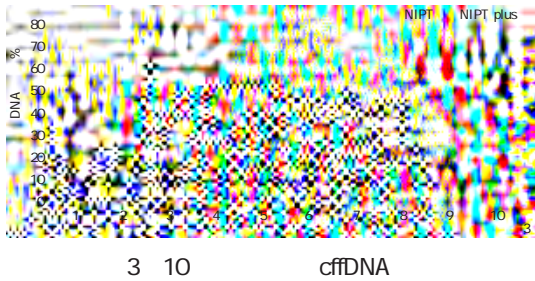


Figure 3 cffDNA concentration of 10 quality assessment samples

2.2

24

MMS 2

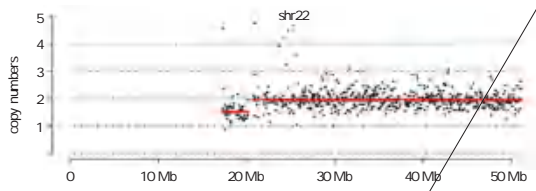
24

MMS 2

Table 1 Relevant results of 24 clinical samples

	CNV	CNV	NIPT plus	NIPT
1	21*2.62	>3 Mb	21	21
2	Del 16 p11.2	868 Kb	-	-
3	Del 4 q35.2	1.3 Mb	-	-
4	Del 9 q33.1	104 Kb	-	-
5	18*2.72	>3 Mb	18	18
6	Dup 16 p11.2	2.3 Mb	-	-
7	Dup 17 q24.1q25.3	63.1 Mb	-	-
8	Del 16 p11.2	1.3 Mb	-	-
9	Del 14 q11.2	634 Kb	-	-
10	Del 9 p23	967 Kb	-	-
11	Dup 1 q43q44	10.7 Mb	-	-
12	Dup 4 q35.2	1.1 Mb	-	-
13	Dup 16 p11.2	1.9 Mb	-	-
14	Del 16 p11.2	1.4 Mb	-	-
15	Del 16 p11.2	1.8 Mb	-	-
16	Dup 7 p21.3p22.1	18.7 Mb	-	-
17	Del 12 q11q12	1.0 Mb	-	-
18	Dup 21 q22.3	983 Kb	Dup 21	-
19	Del 16 p11.2	1.3 Mb	-	-
20	Dup 21 q22.3	908 Kb	Dup 21	-
21	Del 2 p12	1.1 Mb	-	-
22	Dup Y q11.22q11.223	18.5 Mb	-	-
22	Dup Y p11.2q11.221	15.6 Kb	-	-
23	Del 14 q11.2	521 Kb	-	-
24	Del 5 q23.1	1.4 Mb	-	-

2
1 21
9
NIPT plus 1 18 1 21
2 MMS NIPT 1 18 1 21
10 NIPT plus 9 MMS 2
del22 dup20 del5 del1 5-9
9 MMS SCAs
NIPT 9 SCAs 24
10 NIPT plus MMS
35.5% 3



5 22q11

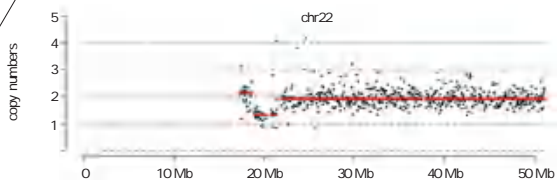
Figure 5 22q11 deletion syndrome

3

MMS

10 Mb

6



8

Figure 8 Cattle howling syndrome

^{9 10} NIPT plus

^{8 11}

MMS

MMS

NIPT

NIPT plus

• •

Serum D Dimer, PCT and CRP are closely related to the progression of MPP and can be used as important indicators for prognosis assessment. The combination of the three is more conducive to determining the severity and prognosis of children with MPP.

KEY WORDS Dimer PCT CRP Mycoplasma pneumoniae pneumonia

MPP Mycoplasma pneumonia
MP Mycoplasma pneumoniae
d W^ S f W V f a

n % χ^2 Pearson
 D D PCT CRP
 ROC D D PCT
 CRP MMP
 P<0.05
 2
 2.1 D D PCT CRP
 CPIS
 D D PCT CRP CPIS
 P<
 0.05 1
 1 D D PCT CRP
 CPIS $\bar{x} \pm s$

Table 1 Comparison of serum D D PCT CRP levels and CPIS scores in children with different disease degrees $\bar{x} \pm s$

	n	D D $\mu\text{g/L}$	PCT ng/L	CRP mg/L	CPIS
	104	0.17±0.08	7.15±2.06	12.75±3.74	5.11±1.48
	47	0.69±0.22	12.54±3.69	21.23±5.81	8.22±3.07
t		21.259	11.479	10.760	8.412
P		<0.001	<0.001	<0.001	<0.001

2.2 D D PCT CRP CPIS
 D D PCT CRP CPIS
 $r=0.593$ 0.617 0.568 $P<0.05$
 2.3 D D PCT CRP
 121
 30 D D PCT CRP
 P<
 0.05 2
 2 D D PCT CRP $\bar{x} \pm s$

Table 2 Comparison of serum D D PCT and CRP levels in children with different prognosis $\bar{x} \pm s$

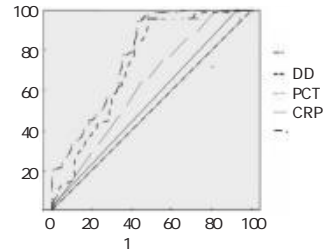
	n	D D $\mu\text{g/L}$	PCT ng/L	CRP mg/L
	121	0.14±0.05	7.79±2.34	10.59±3.08
	30	1.10±0.35	13.01±3.56	34.74±7.58
t		29.272	9.760	27.292
P		<0.001	<0.001	<0.001

2.4 D D PCT CRP MMP
 ROC D D +PCT +CRP
 0.932 0.901 AUC=0.856 95% CI 0.846-
 0.935 D D PCT CRP P<
 0.05 3 1

3 D D PCT CRP MMP

Table 3 Evaluation value of single and combined D D PCT and CRP for the prognosis of children with MMP

	AUC	95% CI	P
D D	0.766	0.539-0.793	1.26 <0.001
PCT	0.734	0.517-0.788	0.37 <0.001
CRP	0.698	0.501-0.733	49.29 <0.001
D D+PCT+CRP	0.932	0.846-0.935	<0.001



1 ROC

Figure 1 The ROC curve

MPP

7 PCT
 Tumor necrosis
 factor alpha TNF
 IL 6
 6 Interleukin 6
 PCT⁸
 PCT
 1 ng/mL PCT 2 ng/mL
 9
 PCT
 PCT
 10
 PCT
 PCT
 11
 PCT
 11
 CRP
 12
 CRP
 13
 CRP
 CRP
 CRP
 MPP

MPP CRP

MP

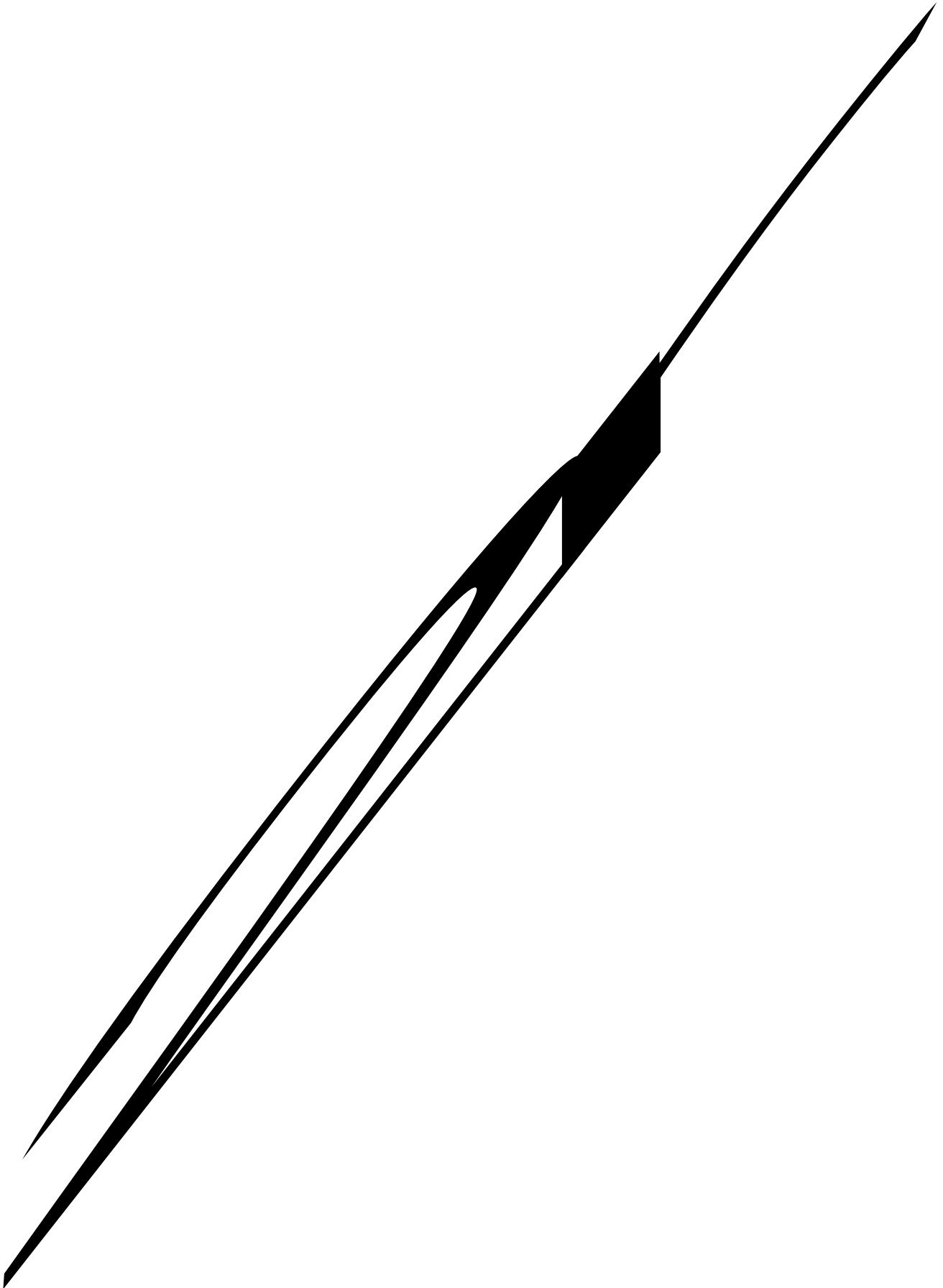
¹⁴ MPP

¹⁴ D D

D D

D D

¹⁵ MPP



2.2 / FDP D D
 / FDP D D
 P<0.05 2

2

⚡

	n	FDP $\mu\text{g/L}$	D D mg/L
/	33	3.17 \pm 0.70	0.74 \pm 0.29
t	123	2.41 \pm 0.46	0.45 \pm 0.23
P		7.468	6.070
		<0.05	<0.05

2.3 / IL 6 IL 17
 / P<0.05 3

2.4 / FDP D D

3

/ FDP D D IL 6 IL 17
 P<0.05 4

/ PCI

^{6,7} AMI PCI /
 PCI

/ /

2.5 / logistic
 FDP D D IL 6 IL 17

PCI

logistic

/ FDP D D

IL 6 IL 17 /
 5

^{8,9} D D

2.6 FDP D D / ROC

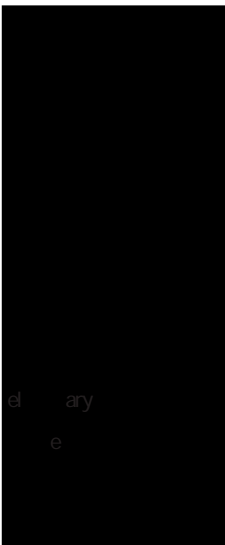
PCI D D FDP

FDP D D /
 ROC 6 1

4 ¹⁰ D D /

AMI PCI
 D D / D D FDP 4 2 145 149. D ST
 / AMI PCI FDP 5 J . 2019 42 2 65 69.
 PCI / PCI J .
 D D FDP PCI PCI 2015 43 5 380 393.
 PCI / 6 Dall Ara G Testa L Tumscitz C et al. No Reflow Compli
 cating Chronic Total Occlusion Coronary Revascularization
 J . J Invasive Cardiol 2020 32 2 58 63.
 7 Buono A Gori T. No reflow phenomenon in acute myocardi
 al infarction Relieve pressure from the procedure and focus
 attention to the pg : G from the procedure and _
 /
 11 12 IL 6 IL 17 13 14
 IL 6 IL 17
 PCI / 15 16
 /
 D D FDP IL 6 IL 17 /
 /
 ROC
 /
 logistic D D FDP IL 6
 IL 17 PCI /
 ROC D D FDP
 PCI /
 86.18% 81.82%
 PCI / FDP AMI
 PCI / FDP D D

- 1 Annibali G Scrocca I Aranzulla TC et al. No Reflow Phenomenon A Contemporary Review J . J Clin Med 2022 11 8 2233.
- 2 Kaur G Baghdasaryan P Natarajan B et al. Pathophysiology Diagnosis and Management of Coronary No Reflow Phenomenon J . Int J Angiol 2021 30 1 15 21.
- 3 Birdal O Topçu S T et al. The Relationship Between Clinical Outcomes and Calculated Thrombus Burden Before and After Initial Flow in Patients with ST Segment Elevation Myocardial Infarction J . Eurasian J Med 2022 54



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1. 100160
2. 100160
- 3.

The multiple logistic regression was used to analyze the risk of adverse pregnancy outcomes in pregnant women with GBS infection factor. Results The levels of IL 6 PCT and TNF in the control group were lower than those in the GBS group $P < 0.05$. The incidence rates of premature birth premature rupture of membranes fetal distress neonatal GBS infection and neonatal pathological jaundice in the control group were lower than those in the GBS group $P < 0.05$. After inspection and follow up it was found that 37 women in the GBS group had adverse pregnancy outcomes and 88 women had normal pregnancy outcomes there was no statistically significant difference in the adverse pregnancy outcome group and the normal pregnancy outcome group in terms of gestational age whether they were primipara etc. $P > 0.05$. Comparing the age GBS infection grade serum IL 6 PCT and TNF levels between the two groups showed statistically significant differences $P < 0.05$. Multiple logistic regression analysis showed that age ≥ 35 years old the classification of GBS infection as GBS carrier or GBS chorioamnionitis $IL\ 6 > 0.463\ ng/L$ $PCT \geq 0.5\ ng/mL$ and $TNF \geq 30\ fmol/mL$ were risk factors for adverse pregnancy outcomes in pregnant women with GBS infection $P < 0.05$. Conclusion Serum IL 6 PCT and TNF levels are elevated in patients with adverse pregnancy outcomes in GBS infected mothers. The three indicators can be used as important indicators for monitoring and preventing adverse pregnancy outcomes in GBS infected mothers.

KEY WORDS IL 6 PCT TNF GBS infection Pregnant women Adverse pregnancy outcomes

B Group B Streptococcus GBS 78 GBS 16
 GBS 100 20-35
 27.51±3.44 61
 1 2 GBS 39 35-40 36.75±0.83
 30% $P > 0.05$
 GBS GBS
 6
 3 6
 Interleukin IL 6 Procalcitonin PCT
 Tumor necrosis factor TNF
 1.2
 IL 6 TNF 1.2.1 GBS
 1/3
 GBS 4 IL 6 PCT TNF
 GBS GBS
 5 cm
 1 GBS 9 mL
 1.1 37 PCR
 2020 5 2022 3 ABI7500RESL TIME PCR
 125
 GBS GBS 1.2.2 IL 6 PCT TNF
 21-38 27.84±3.62 75 GBS
 50 34-40 36.53±1.04 5 mL
 GBS 5 GBS 31 GBS HT12MM 3 000r/min 5 cm



10min

IL 6

PCT

TNF

1.2.3

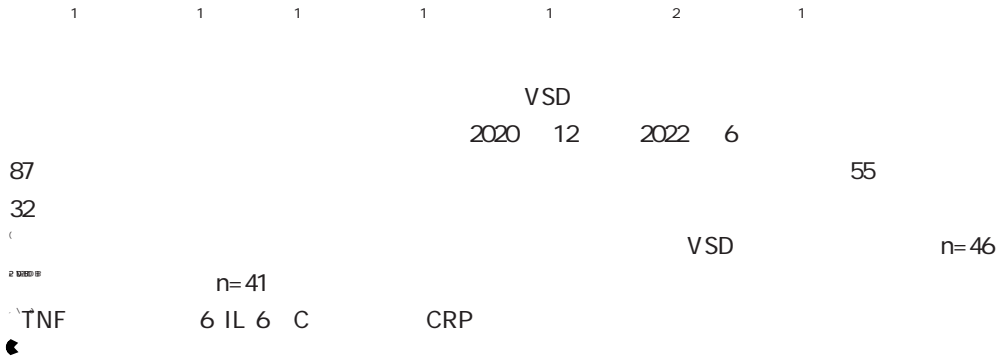
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Table 4 Mr G		4 GBS		logistic					
	O=GBS	0=<35 1=GBS	1= 35 GBS	β	SE	Wald χ^2	OR	95% CI	P
GBS				2.476	0.267	5.349	1.697	1.005-2.864	0.007
IL 6		0=0.373-0.463 ng/L	1=>0.463 ng/L	3.165	1.153	6.725	12.815	9.608-17.165	0.012
PCT		0=<0.5 ng/mL	1= 0.5 ng/mL	2.986	1.087	5.646	9.167	6.875-12.2847	0.022
TNF		0=<30 fmol/mL	1= 30 fmol/mL	0.674	0.265	0.975	2.016	1.152-3.487	0.033

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VSD



C Tumor necro
 sis factor TNF 6 Interleukin 6 IL 6 4 = + / ×100%
 + 1.4
 SPSS 22.0
 4 $\bar{x} \pm s$ t
 n % χ^2 P<0.05

VSD

2
 2.1
 87 87
 43 49.42% 32 36.78%
 12 13.80% 1

1
 Table 1 Comparison of the composition and distribution of pathogens between the two groups

		%	
1.3		43	49.42
1.3.1		26	29.88
	87	12	13.79
	3 h 2	1	1.15
		4	4.60
	VITEK 2Copact 2	32	36.78
		19	21.84
	6	6	6.90
		3	3.45
	NEW ATB	1	1.15
	ATCC29213	3	3.45
	ATCC25922 ATCC27853	12	13.80
		8	9.19
1.3.2		2	2.30
		1	1.15
		1	1.15
		87	100

1.3.3 2.2
 VSD 1
 5 mL 3 000 r/min P<0.05 2
 9 cm 10 min 2.3

Tumor TNF IL 6 CRP
 necrosis factor TNF 6 Interleukin 6 P<
 IL 6 C C reactive protein CRP 0.05 3
 1.3.4 7 2.4

Hospital for Special Surgery HSS Baird Jackson P<
 Knee Score HSS Baird Jackson
 0.05 95.65%
 Paley 80.49% P<0.05 4

2 $\bar{x} \pm s$
 Table 2 Comparison of surgical related indicators between the two groups $\bar{x} \pm s$

	n	d	d	d	d	d
	46	11.32±3.62	25.82±6.17	8.14±3.21	34.13±2.64	2.35±0.71
	41	20.38±5.84	40.55±7.63	16.17±4.15	43.97±4.45	8.17±1.26
t		8.798	9.945	10.153	12.703	26.957
P		<0.001	<0.001	<0.001	<0.001	<0.001

3 $\bar{x} \pm s$
 Table 3 Comparison of inflammatory indicators between the two groups before and after treatment $\bar{x} \pm s$

	n	TNF pg/mL	IL 6 pg/mL	CRP mg/dl
	46	278.76±27.82	93.19±15.43 ^a	361.54±9.88
	41	279.13±28.74	165.32±16.22 ^a	362.12±8.06
t		0.059	21.245	0.298
P		0.953	<0.001	0.767

^aP<0.05

4 $\bar{x} \pm s$ n %
 Table 4 Comparison of limb function between the two groups before and after treatment $\bar{x} \pm s$ n %

	n	HSS	Baird Jackson
	46	36.14±10.73	60.41±8.19 ^a
	41	36.87±10.64	49.36±10.63 ^a
χ^2/t		0.318	5.463
P		0.751	<0.001

^aP<0.05

3

VSD

¹² VSD

¹³ VSD

8

13

VSD

^{9 10}

87

14

87

43

49.42%

32 36.78%

12

13.80%

¹¹

VSD

9

VSD

10

VSD

1

J . 2022 19

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was analyzed by the receiver operating characteristic (ROC) curves. Results: The APACHE score, lactic acid concentration and D-dimer level in the observation group were higher than those in the control group ($t=4.269, 8.785, 2.746, P<0.05$). The proportion of mechanical ventilation, SOFA score, stay time in ICU and PCT level in the death group were higher than those in the survival group ($\chi^2=4.847, 4.940, 8.256, 12.474, P<0.05$). The APACHE score, lactic acid and D-dimer in the death group were higher than those in the survival group ($t=2.629, 9.702, 3.086, P<0.05$). Pearson correlation analysis showed that the APACHE score was positively correlated with the lactic acid concentration and D-dimer level ($P<0.05$). Logistic regression analysis showed that mechanical ventilation, APACHE score ≥ 22.28 points and lactic acid concentration ≥ 3.58 mmol/L were independent risk factors of poor prognosis ($P<0.05$). The ROC curves analysis showed that the area under the curve (AUC) of the APACHE score combined with the lactic acid concentration and D-dimer for predicting poor prognosis was 0.

3 Logistic

Table 3 Logistic regression analysis on the influencing factors of prognosis in patients with severe infection

		β	SE	Wald χ^2	OR	95% CI	P
	vs	1.015	0.411	6.099	2.759	1.233-6.175	0.014
SOFA	<11.27 vs 11.27	0.981	0.502	2.740	2.296	0.858-6.141	0.099
ICU	<5 vs 5	0.649	0.473	1.883	1.914	0.757-4.836	0.171
PCT	<5.23 ng/mL vs 5.23 ng/mL	0.958	0.496	3.731	2.606	0.986-6.891	0.054
APACHE	<22.28 vs 22.28	0.856	0.417	4.214	2.354	1.039-5.330	0.041
	<3.58 mmol/L vs 3.58 mmol/L	0.977	0.428	5.211	2.656	1.148-6.146	0.023
D	<11.28 ng/mL vs 11.28 ng/mL	1.014	0.545	3.462	2.757	0.947-8.022	0.064

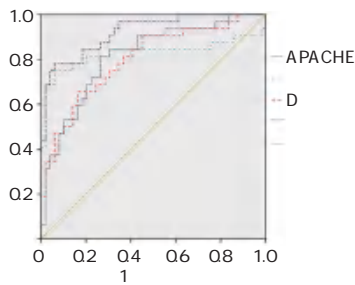
4 APACHE

D

ROC

Table 4 ROC characteristics of APACHE score lactic acid concentration and D dimer for predicting poor prognosis in patients with severe infection

	AUC		D			95% CI	P
APACHE	0.814	0.049	0.812	0.735	22.28	0.718-0.909	<0.001
	0.827	0.059	0.750	0.939	3.58 mmol/L	0.710-0.943	<0.001
D	0.800	0.051	0.656	0.830	11.28 ng/mL	0.700-0.900	<0.001
	0.921	0.030	0.718	0.945		0.862-0.980	<0.001



1 ROC

Figure 1 ROC curves

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3U ..

2020

D

14 D

APACHE

15

ROC APACHE

D

AUC

APACHE

D

APACHE II

22.28

3.58 mmol/L

AFP GP73 GPC3

1 2 1 1

AFP 73 GP73 3

GPC3 2021 5 2022 5

52 46

48 PHC AFP GP73 GPC3 Logistic

GPC3 PHC ROC AFP GP73 GPC3 PHC

PHC AFP GP73 GPC3 PHC > > > P<0.05 PHC

45 7 BMI P>0.05

A1 GGT AFP GP73 GPC3 P<0.05

Logistic A1 GGT AFP GP73 GPC3

PHC P<0.05 AFP GP73 GPC3 PHC

0.956 0.857 AUC=0.950 95% CI 0.909-0.991 AFP GP73 GPC3

AFP GP73 GPC3 PHC PHC

PHC

AFP GP73 GPC3

Value of serum AFP GP73 and GPC3 detection in the diagnosis and prognosis assessment of primary liver cancer

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ABSTRACT Objective To evaluate the value of serum alpha fetoprotein (AFP) Golgi glycoprotein 73 (GP73) and phosphatidyl inositol proteoglycan 3 (GPC3) detection in the diagnosis and prognosis of primary liver cancer. Methods 52 patients with primary liver cancer admitted to the First Affiliated Hospital of Zhengzhou University from May 2021 to May 2022 were selected as the study objects another 46 cases with cirrhosis and 48 cases healthy physical examination admitted to our hospital during the same period were selected as the cirrhosis group and the health group respectively. The levels of AFP GP73 and GPC3 were compared among the three groups and the PHC group at different pathological stages the general prognostic data of PHC and levels of AFP GP73 and GPC3 were compared Multiple logistic regression was used to ana

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lyze the risk factors affecting the prognosis of PHC. The ROC curve was drawn to analyze the diagnostic effect of serum AFP GP73 and GPC3 alone and combined detection of PHC. Results The levels of AFP GP73 and GPC3 were as follows PHC group > cirrhosis group > healthy group the difference was statistically significant P<0.05 . AFP GP73 GPC3 levels in the PHC group with different pathological stages were > > the difference was statistically significant P<0.05 . There were 45 cases in the good prognosis group and 7 cases in the poor prognosis group. There was no significant difference in gender age and BMI between the two groups P>0.05 . The levels of prothrombin red blood cell count apolipoprotein A1 GGT AFP GP73 and GPC3 were significantly different between the two groups P<0.05 . Multiple logistic regression analysis showed that the increased levels of prothrombin red blood cell count apolipoprotein A1 GGT AFP GP73 and GPC3 were risk factors for poor prognosis in PHC patients P<0.05 . The sensitivity and specificity of the combination of AFP GP73 and GPC3 for diagnosis and prognosis of PHC were 0.956 and 0.857 respectively The AUC=0.950 95% CI 0.909-0.991 which was significantly higher than AFP GP73 GPC3 detection alone. Conclusion The combination of serum AFP GP73 and GPC3 has a high clinical value in the diagnosis of PHC and can be used for the early diagnosis of PHC. The prognosis of patients with PHC can be evaluated by detecting the serum levels of the above indicators.

KEY WORDS AFP GP73 GPC3 Primary liver cancer

Primary liver cancer PHC PHC 41 11
 49.62±2.95 BMI 17.59±1.24 kg/m² Body mass index
 6 18 16 8 10
 1 1 PHC 2019 6
 5 PHC
 50%~70%²
 alpha fetoprotein
 AFP PHC PHC 46
 PHC AFP PHC 48
 PHC PHC 39 7 45.36±3.95
 AFP PHC BMI 17.63±1.23 kg/m²
 3 PHC 7
 73 Golgi glyco
 protein 73 GP73 3 Phos PHC 40 8
 phatidyl inositol proteoglycan 3 GPC3 4 PHC 46.90±4.95 BMI 18.15±2.10 kg/m²
 GP73 GPC3 AFP P>
 PHC 5 AFP 0.05
 GP73 GPC3 PHC 1.2
 1.2.1 AFP GP73 GPC3
 PHC
 1 5 mL
 1.1 3 000 r/min 15 min 10 cm
 2021 5 2022 5
 52 E 601 AFP

GP73 GPC3
 Phoenix 2.2 PHC AFP GP73
 GPC3
 AFP GP73 GPC3 > >
 >

PHC 3

6

1.3

SPSS 21.0

$\bar{x} \pm s$
t

n % F χ^2

Logistic

PHC

ROC AFP GP73
PHC P<0.05

GPC3

2

2.1

AFP GP73 GPC3

AFP GP73 GPC3 PHC > >
P<0.05 1

4 Logistic PHC
Table 4 Risk factors for poor prognosis in PHC patients using binary logistic regression analysis

		β	SE	Wald χ^2	OR	95% CI	P
	0=10-15 mg/dL 1=<10 mg/dL >15 mg/dL	1.128	0.373	4.628	3.089	1.487-6.417	0.003
	0= 4.0-5.5 $\times 10^2/L$ 1=>5.5 $\times 10^2/L$ 0= 3.0-5.5 $\times 10^2/L$ 1=>5.5 $\times 10^2/L$	1.197	0.257	6.483	3.310	2.000-5.477	0.005
A1	0=1.20-1.60 g/L 1=>1.60 g/L	1.482	0.308	5.826	4.401	2.406-8.050	0.008
GGT	0=5-54 U/L 1=>54 U/L	1.507	0.425	4.218	4.513	1.962-10.381	0.016
AFP	0=0-25 $\mu g/mL$ 1=>25 $\mu g/mL$	1.082	0.728	18.693	2.950	0.708-12.291	<0.001
GP73	0=10-12 mg/L 1=>12 mg/L	1.127	0.541	10.102	3.086	1.068-8.911	<0.001
GPC3		1.060	0.608	9.742	2.886	0.876-9.503	0.002

PHC 0.956 0.857
AUC=0.950 95% CI 0.909-0.991
GP73 GPC3 P<0.05 5 1

5 AFP GP73 GPC3 PHC
Table 5 Diagnostic efficacy of AFP GP73 and GPC3 in patients with PPHC

	AUC	95% CI	P
AFP	0.583	0.530-0.714	0.690
GP73	0.607	0.548-0.782	0.714
GPC3	0.614	0.556-0.799	0.705
AFP+GP73+GPC3	0.950	0.909-0.991	0.956

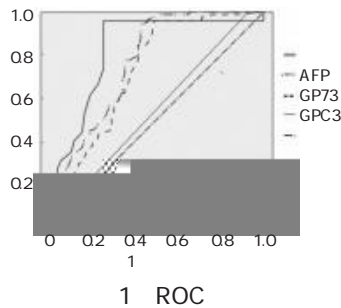


Figure 1 ROC curve

3

PHC
PHC

2

AFP
GP73

GP73 GPC3

PHC AFP GP73 GPC3
AFP GP73 GPC3

PHC

AFP

GPC3

13

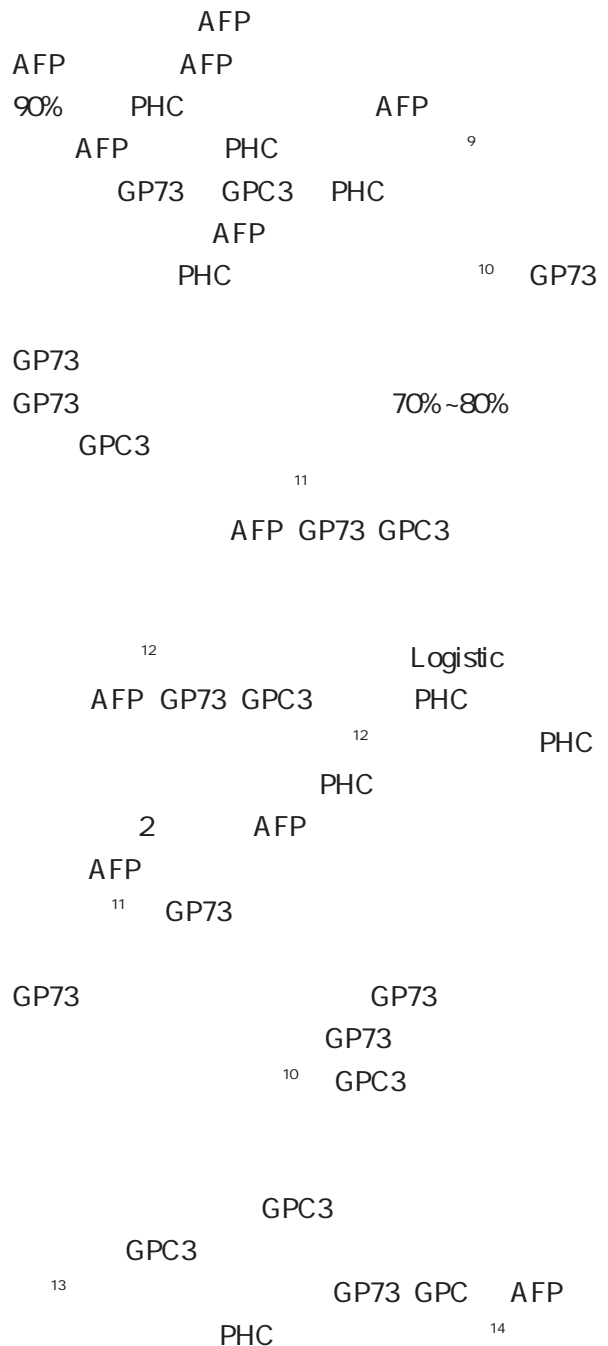
GPC3

GP73 GPC AFP

AFP

PHC

14



ROC AFP GP73 GPC3 %

combined with human interferon 2b gel . The clinical efficacy vaginal microecological score Nugent local microimmune status of the cervix IL 4 IL 10 TNF interleukin 2 IL 2 interferon IFN level positive expression rate of indoleamine 2 3 dioxygenase IDO IL 10 IL 4 TNF in cervical lesion tissue between the two groups were compared. Results After the treatment the total effective rate in the control group was 83.54% and that in the study group was 93.90%. The total effective rate in the control group was lower than that in the study group the difference was statistically significant $P < 0.05$ the vaginal microecological environment restoration rate in the study group 92.68% was higher than that in the study group 82.28% and the pH value and Nugent score in the study group were lower than those in the control group the difference was statistically significant $P < 0.05$. After the treatment the levels of IL 2 and IFN cytokines in the two groups increased and the study group was higher than the control group the levels of IL 4 IL 10 and TNF in the two groups decreased and the study group was lower than the control group the difference was statistically significant $P < 0.05$. The positive expression rates of IDO IL 10 IL 4 and TNF in cervical lesions in the two groups were lower than those before treatment and the study group was lower than the control group the difference was statistically significant $P < 0.05$. Conclusion The application of Lactobacillus live capsule combined with human interferon 2b gel in the treatment of HSIL patients with CKC with HR HPV infection after surgery is more effective which is beneficial to maintaining a stable cervical microecological environment improving immune regulation and reducing inflammatory.

KEY WORDS Lactobacillus live bacteria capsule Human interferon 2b gel HSIL CKC HR HPV IL 4 IL 10 TNF

High grade squamous intraepithelial lesion HSIL

30-50¹
 HSIL cold knife con
 ization CKC HSIL CKC
 High risk human papillomavirus HR
 HPV pH
² 4 Interleukin
 4 IL 4
³ 10 Interleukin 10 IL
 10
⁴ tumor
 necrosis factor TNF
⁵
 HR HPV
 2b
 HSIL CKC HR HPV
 IL 4 IL 10 TNF

1

1.1

2019 9

P>0.05

1.2

1 g/ 10 1 20 1 3

2b S20010054 10 IU/g 1 3

IL 4 TNF >500

1.3.4 2 3 Indoleamine 2,3-Dioxygenase (IDO) IL 10 IL 4

20030005 0.25 g/ 1 / 1 10 1 3 2 1 0 4

20 1 3 2b >75% 3 10%~50% 1 50%~

75% 2 10% = +

1.3.1 6 3 3 0-1 4-5 2-3

HR HPV / ×100% = + +

1.3.2

Nugent 7 3 8 3 2 2.1

pH 4.5 Nugent 3 2 2.1

10-999 H₂O₂ 93.90% 83.54%

pH 1-9 4.5 Nugent 3 1 000 H₂O₂ P<0.05 1

1.3.3 3 5

5 mL PBS 3-

4 mL 2 000 r/min 5 cm

10 min EP - 70

IL 4 TNF 2 Interleukin 2 IL 2

interferon gamma IFN IL 2 92.68% 82.28% pH Nugent

IL 4 IL 10 Biosource P<

IFN TNF R&D 0.05 2

Table 1 Comparison of clinical efficacy between the two groups n %

n		n %	
79	24 30.38	42 53.16	13 16.46
82	37 45.12	40 48.78	5 6.10
χ^2		4.347	
P		0.037	

2 n % $\bar{x} \pm s$
 Table 2 Comparison of local microecological environment of cervix between the two groups n % $\bar{x} \pm s$

	n		%		$\bar{x} \pm s$	
	1	2	1	2	1	2
	79	65	82.28	14	17.72	4.61±0.79
	82	76	92.68	6	7.32	4.02±0.41
χ^2/t			4.004			4.146
P			0.045			<0.001

2.3

IL 2 IFN
 IL 4 IL 10 TNF
 P<0.05 3

2.4 IDO IL 10 IL 4 TNF

IDO IL 10 IL 4 TNF
 P<0.05 4 1
 3
 HSIL HR HPV
 HSIL HSIL
 CKC HSIL
 CKC HR HPV
 10
 HSIL CKC
 HR HPV

3 $\bar{x} \pm s$
 Table 3 Comparison of local cervical microimmune status between the two groups $\bar{x} \pm s$

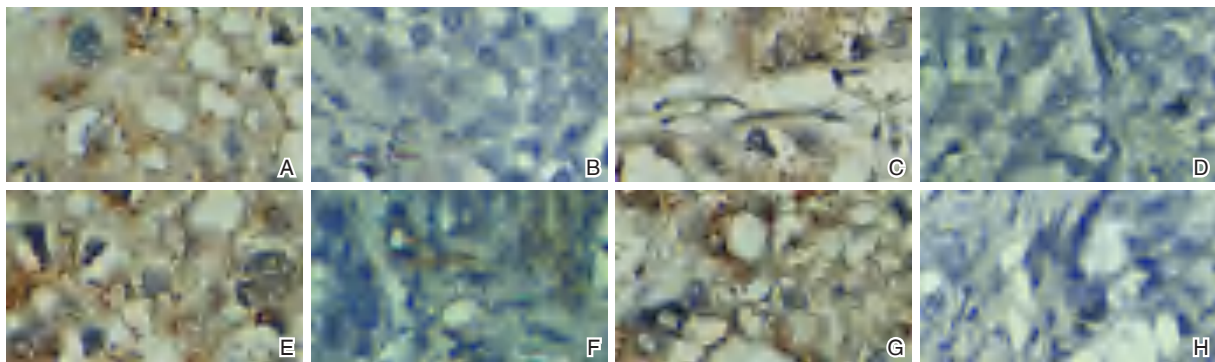
	n	IL 2 pg/mL		IFN μ g/L		IL 4 pg/mL		IL 10 pg/mL		TNF pg/mL	
		1	2	1	2	1	2	1	2	1	2
	79	10.13±1.36	13.45±2.11 ^a	8.33±1.26	11.42±2.21 ^a	13.46±2.43	10.31±1.23 ^a	13.42±2.41	10.34±1.25 ^a	15.64±1.22	13.16±0.97 ^a
	82	10.19±1.15	15.33±2.20 ^a	8.26±1.34	13.35±2.36 ^a	13.39±2.25	8.56±1.22 ^a	13.34±2.39	8.77±1.19 ^a	15.44±1.18	11.26±0.86 ^a
t		0.208	3.801	0.234	3.681	0.130	6.217	0.145	5.593	0.726	8.993
P		0.836	<0.001	0.816	<0.001	0.897	<0.001	0.885	<0.001	0.470	<0.001

^aP<0.05

4 IDO IL 10 IL 4 TNF positive expression in cervical lesions between the two groups n %
 Table 4 Comparison of IDO IL 10 IL 4 TNF positive expression in cervical lesions between the two groups n %

	n	IDO		IL 10		IL 4		TNF	
		1	2	1	2	1	2	1	2
	79	53	67.09	12	15.19 ^a	57	72.15	11	13.92 ^a
	82	61	74.39	4	4.88 ^a	63	76.82	3	3.66 ^a
χ^2			1.038		4.780		0.464		5.341
P			0.308		0.028		0.496		0.021

^aP<0.05



A. IDO B. IDO C. IL 10 D. IL 10 E. IL 4 F. IL 4 G. TNF H. TNF
 1 IDO IL 10 IL 4 TNF $\times 100$

Figure 1 Positive and negative immunohistochemical pictures of IDO IL 10 IL 4 and TNF immunohistochemical staining $\times 100$

• •

TCT HR HPV

1 2 1

TCT

HR HPV

21YF5FN221

1. 731100
2. 731100

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diagnosis the pathological p7

1.3

SPSS 20.0

n % χ^2 P<0.05

2

2.1 TCT HR HPV

6 762 TCT HR HPV
 705 884
 10.43% 13.07% 1 2

1 TCT n %
 Table 1 TCT results n %

	6 057	89.57
ASCUS	304	4.50
LSIL	261	3.86
HSIL	117	1.73
SCC	23	0.34

2.2

TCT HR HPV 1 289
 838 65.01% CIN1 452 53.94%
 CIN2 180 21.48% CIN3 129 15.39%
 77 9.19% 451

2.3 TCT HR HPV

TCT 40.65% HR HPV
 49.50% TCT+HR HPV
 54.38% TCT+HR HPV
 TCT HR HPV
 $\chi^2=48.730$ 6.168
 P<0.05 3

2.4 TCT HR HPV

CIN1 TCT ASCUS
 HR HPV HPV
 TCT HR HPV
 $\chi^2=79.550$
 41.259 15.145 4.262 P<0.05 4

3

2 HR HPV

Table 2 HR HPV gene detection results

HPV	666	9.85
16	202	2.99
18	59	0.87
31	34	0.50
33	24	0.35
35	18	0.27
39	24	0.35
45	8	0.12
51	39	0.58
52	88	1.30
56	35	0.52
58	75	1.11
59	8	0.12
68	39	0.58
73	4	<0.01
82	9	0.13
HPV	68	1.01
26	5	<0.01
53	42	0.62
66	21	0.31
HPV	150	2.22
6	18	0.27
11	13	0.19
40	5	<0.01
42	33	0.49
43	3	<0.01
44	15	0.22
54	26	0.38
61	18	0.27
81	19	0.28

8

9

TCT

¹⁰ HR HPV

ASCUS

HPV

HPV

11

TCT

>ASCUS

HR HPV

	n	2- NILM	u	:	G	42
TCT	666	524	68	uu		
ASCUS	116	71	52	\$ & u	:	G 5
LSIL	41	16	4	G	-	-
HSIL	72	67	10	uG	2 \$	-
SCC	43	7	4	u u	7	u 4 G 2 2 6 4 G : :G G
HR HPV	718					
7u 5-	871	u			8	
	1 289					
TCT+HR HPV	803					
	486					
	1 289					

Sulfatide ANGPTL4

70 AMI AMI AMI HF 87 AMI HF

2021 6 2022 4

Sulfatide ELISA Sulfatide ANGPTL4 Sulfatide ANGPTL4 Sulfatide ANGPTL4

Logistic AMI HF

Pearson Sulfatide ANGPTL4 Sulfatide ANGPTL4 Sulfatide ANGPTL4

AMI HF AMI HF AMI HF

P>0.05 AMI HF

Sulfatide LVEDVI LVESVI AMI ANGPTL4 LVEF AMI AMI HF

P<0.05 Logistic Sulfatide ANGPTL4 LVEF LVEDVI LVESVI AMI LVEF P<0.05

P<0.05 LVEDVI LVESVI P<0.05 AMI HF AMI HF Sulfatide LVEF P<0.05 LVEDVI

LVESVI P<0.05 AMI HF Sulfatide AMI HF

ANGPTL4 P<0.05 Sulfatide ANGPTL4 AMI HF

Sulfatide ANGPTL4 Sulfatide ANGPTL4 Sulfatide ANGPTL4

AMI HF AMI HF AMI HF

4

Expression of serum sulfatide and ANGPTL 4 in acute myocardial infarction complicated with heart failure

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ABSTRACT Objective To analyze the expression of serum sulfatide and ANGPTL4 in patients with acute myocardial infarction complicated with heart failure. Methods Peripheral blood of 70 patients with acute myocardial infarction complicated with heart failure AMI HF group and 87 patients with acute myocardial infarction without complicated heart failure AMI group treated in the Cardiology Department of the Second Affiliated Hospital of Zhengzhou University from June 2021 to April 2022 were collected. Serum sulfatide and ANGPTL4 levels were detected by enzyme linked immunoassay ELISA . Logistic regression was used to analyze the influencing factors of heart failure in AMI patients and Pearson was used to analyze the correlation between serum sulfatide and ANGPTL4 levels and AMI HF patients heart function indicators and analyzes the value of serum sulfatide and ANGPTL4 levels in assessing the progress of AMI HF disease. Results There was no significant difference in age sex heart rate hypertension diabetes and smoking history between the two groups P>0.05 . Sulfatide LVEDVI and LVESVI in the AMI HF group were significantly

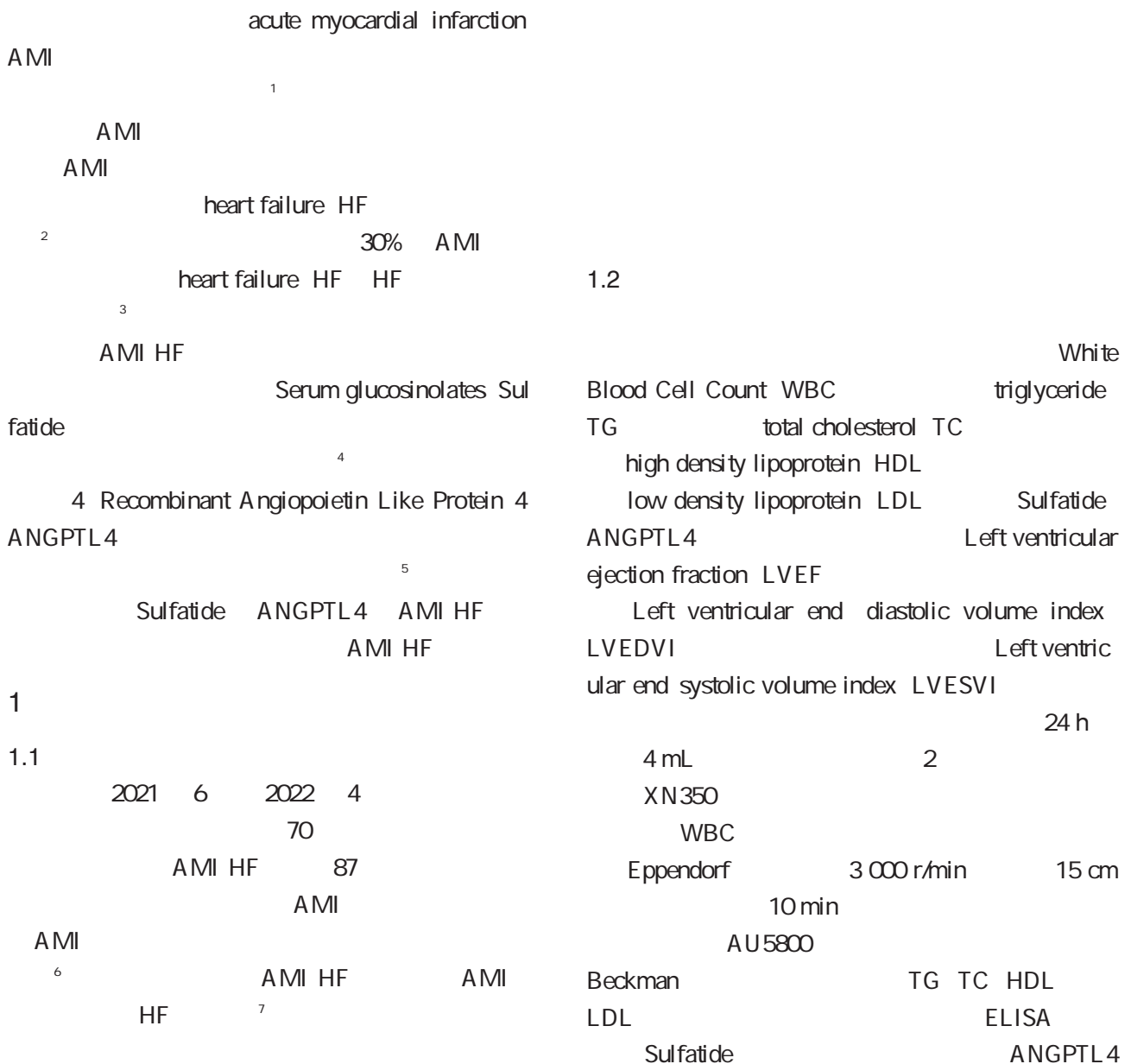
LHGJ20210382

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higher than those in the AMI group while ANGPTL4 and LVEF were lower than those in the AMI group the difference was statistically significant $P < 0.05$. Logistic regression analysis found that sulfatide ANGPTL4 LVEF LVEDVI and LVESVI were the influencing factors for heart failure in AMI patients $P < 0.05$. The correlation analysis of cardiac function indicators and serum sulfatide and ANGPTL4 in AMI HF patients showed that serum sulfatide in AMI HF patients was significantly negatively correlated with LVEF $P < 0.05$ and positively correlated with LVEDVI and LVESVI $P < 0.05$. ANGPTL4 was positively correlated with LVEF $P < 0.05$ and negatively correlated with LVEDVI and LVESVI $P < 0.05$. In AMI HF patients serum sulfatide in the good prognosis group was significantly lower than that in the poor prognosis group and ANGPTL4 was higher than that in the poor prognosis group with statistical significance $P < 0.05$. The combined value of serum sulfatide and ANGPTL4 in predicting the prognosis of AMI HF is higher than that of single detection. Conclusion Monitoring serum sulfatide and ANGPTL4 levels in AMI HF patients can provide objective evidence for disease progression. serum sulfatide and ANGPTL4 can also be an important indicators of prognosis of patients with AMI HF.

KEY WORDS Acute myocardial infarction Heart failure Sulfatide ANGPTL4



ELISA

LVEF LVEDVI LVESVI

1.3

AMI HF

6

6

8

Sulfatide ANGPTL4

AMI HF

1.4

SPSS 26.0

n %

χ^2

$x \pm s$

t

Logistic

AMI

Pearson

Sulfatide

ANGPTL4

AMI HF

ROC

Sulfatide

ANGPTL4

AMI HF

P<0.05

2

2.1 AMI

AMI HF

AMI

AMI HF

P>

0.05 AMI

AMI HF

WBC TG TC

LDL

P>0.05 AMI

Sulfatide LVEDVI LVESVI

ANGPTL4 LVEF AMI

P<0.05

1

2.2 AMI

2

Logis

Logistic

Sulfatide ANGPTL4 LVEF LVEDVI LVESVI

P<0.05

2.3

Sulfatide ANGPTL4

AMI HF

Sulfatide

LVEF

r=-0.343 P<0.05

LVEDVI LVESVI

$r_{LVEDVI}=0.398$ $r_{LVESVI}=0.444$ P<0.05

ANGPTL4

LVEF

r=

G

V

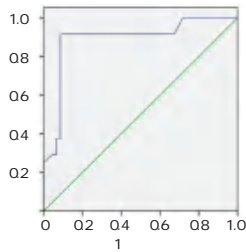


4 AMI HF Sulfatide ANGPTL4
 $\bar{x} \pm s$
 Table 4 Comparison of Serum Sulfatide and ANGPTL4 in AMI HF Patients with Different Prognosis $\bar{x} \pm s$

	n	Sulfatide $\mu\text{mol/L}$	ANGPTL4 ng/mL
	46	12.33 \pm 7.04	17.69 \pm 3.77
	24	20.34 \pm 3.45	11.53 \pm 1.36
t		5.242	7.724
P		<0.001	<0.001

5 Sulfatide ANGPTL4 AMI HF
 Table 5 Sulfatide and ANGPTL4 in predicting the prognostic value of AMI HF

	AUC			
Sulfatide $\mu\text{mol/L}$	0.678	0.797	0.761	0.917
ANGPTL4 ng/mL	0.741	0.846	0.783	0.958
	0.830	0.889	0.913	0.917



1 ROC

Figure 1 ROC Curve

3

AMI HF

AMI HF

Sulfatide

10 ANGPTL4

11

AMI HF Sulfatide LVEDVI
 LVEDVI AMI ANGPTL4 LVEF
 AMI Logistic Sulfatide
 ANGPTL4 LVEF LVEDVI LVEDVI AMI
 AMI

Sulfatide ANGPTL4
 AMI
 Sulfatide P

12 ANGPTL4

13

Sulfatide LVEF AMI HF LVEDVI
 LVEDVI LVEDVI ANGPTL4 LVEF

LVEDVI LVEDVI

AMI HF

Sulfatide ANGPTL4

Sulfatide

X

AMI

Sulfatide

Sulfatide

14 ANGPTL4

15

AMI HF

Sulfatide

ANGPTL4

Sulfatide ANGPTL4

AMI HF

AMI HF

Sulfatide ANGPTL4

Sulfatide ANGPTL4

AMI HF

Sulfatide ANGPTL4

AMI HF

1

2

2022 44 9 913 917.

J .

ApoA5 ANGPTL4

J .

2023 43 13 3097 3101.

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1.
2

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gingival crevicular fluid were significantly higher than those in the serum $t = -4.080 - 10.316 - 10.686 - 10.713$ $t = -9.567 - 6.422 - 9.904 - 3.944$ $P < 0.05$. In the observation group IL 1 rs7413228 IL 1 β rs2356789 IL 6 rs5357964 and IL 10 rs4543211 were found to be associated with the occurrence of diabetic periodontitis $P < 0.05$. The frequencies of allele T of IL 1 rs7413228 allele T of IL 1 β rs2356789 and allele G of IL 10 rs4543211 were correlated with the occurrence of diabetic periodontitis $P < 0.05$. The polymorphisms of IL 1 rs7413228 IL 1 β rs2356789 IL 6 rs5357964 and IL 10 rs4543211 were identified as independent influencing factors of diabetic periodontitis $P < 0.05$. Conclusion IL 1 IL 1 β IL 6 and IL 10 gene polymorphisms are associated with susceptibility to diabetic periodontitis. In clinical practice the risk of diabetic periodontitis can be assessed by testing for gene polymorphisms.

KEY WORDS Diabetic periodontitis IL 1 IL 1 β IL 6 IL 10 Gene polymorphism

5 mm X 1/2
 Average clinical attachment level of full mouth teeth CAL 2.5 mm
 2-3 83.37% 3 1 CAL 2.5 mm
 1
 1.2
 1.2.1
 0.5-1 mm 2 mL
 IL 1 IL 1 β IL 6 IL 10
 6 mL
 1 Interleukin 1 IL 1 2
 IL 6 IL 10 Interleukin 10 IL 10 IL 6 IL 10 IL 1 IL 1 β
 1.2.2 DNA
 DNA
 DNA
 1
 1.1
 2021 6 2022 6
 60
 60
 100 ng DNA 30 μ L
 PCR 1
 1.3
 1999 WHO 5 Fasting SPSS 25.0
 blood glucose FPG 7.0 mmol/L n % χ^2
 2h 11.1 mmol/L 4 x \pm s t Logistic
 >6 mm PLINK 3.1

IL 1

IL 1

group $t=12.884$ 10.297 14.225 6.702 4.263 10.559 15.368 9.401 12.544 4.362 13.676 22.017 19.752 14.115 8.685 $P<0.001$. The amount of bleeding and recovery time in the sevoflurane group were better than those in the propofol group and the differences were statistically significant $t=2.875$ 2.331 $P<0.05$. After operation the level of NT proBNP in the sevoflurane group was lower than that in the propofol group and the level of LVEF was significantly increased. The level of NT proBNP in the sevoflurane group was higher than that in the propofol group and the difference was statistically significant $t=2.411$ 3.169 $P<0.05$. The levels of IL 6 IL 8 and TNF in the sevoflurane group were lower than those in the propofol group at the same time period immediately after operation 1 day after operation 3 days after operation and 5 days after operation and the differences were statistically significant $t=4.200$ 3.798 19.470 6.060 4.409 3.559 3.952 4.342 3.973 3.827 10.267 7.205 $P<0.001$. Conclusion Compared to patients with propofol group inhalation of sevoflurane ether on intestinal obstruction of laparoscopic surgery and infectious shock patients have a better effect in improving heart function and reducing inflammatory response.

KEY WORDS Sevoflurane Propofol Intestinal obstruction Septic shock Cardiac function Inflammatory factor

P>0.05

1

5

1.2

23

Philips M8001A

H20033558 500 mL

6 L/min

4 min

4

Fresenius Kabi Deutschland GmbH

J20080023

4 mg·kg⁻¹·h⁻¹

BIS

45~55

3 μg/kg

H42022076

1

H20073841 0.1 mg/kg

1.1

6 L/min

2%

2020 3

2022 12

BIS45~55

84

5 min

42

25

17

66.25±

1.3

12.74

23

19

1.3.1

65.86±12.01

T₀

3 min

T₁ T₂ T₃ 5
 min T₄ 5 min T₅ Diastolic
 Blood Pressure DBP Systolic Blood Pres
 sure SBP Heart Rate HR
 1.3.2
 Left Ventricular Ejection
 Fraction LVEF LVEF 50% ~
 70% Lumiray 1200
 NT proBNP NT proBNP 0
 300 pg/mL^{6,7}
 1.3.3
 1 1
 3 5 3 mL
 6 Interleukin 6 IL 6 8
 Interleukin 8 IL 8 Tumor
 necrosis factor TNF
 1.3.4
 1.4
 SPSS 22.0
 n χ^2
 $\bar{x} \pm s$ t P<0.05
 2
 2.1
 T₁ T₂ T₃ T₄ T₅ BDP SBP HR
 P<0.05
 1
 2.2
 P<0.05 2
 2.3
 LVEF P<0.05
 NT proBNP
 NT proBNP
 P<0.05 3

Table 1 Hemodynamic changes in two groups of patients at different time periods $\bar{x} \pm s$

		n=42	n=42	t	P
DBP mmHg	T ₀	73.25±3.61	73.26±3.54	0.012	0.989
	T ₁	64.28±1.61 ^a	69.62±2.15 ^a	12.884	<0.001
	T ₂	65.35±1.56 ^{ab}	70.25±2.66 ^a	10.297	<0.001
	T ₃	64.58±1.13 ^{bc}	69.97±2.18 ^a	14.225	<0.001
	T ₄	65.04±1.63 ^{ab}	68.24±2.63 ^{abcd}	6.702	<0.001
	T ₅	67.25±6.67 ^{abcde}	72.24±3.61 ^{abcde}	4.263	<0.001
SBP mmHg	T ₀	132.61±5.61	133.55±5.25	0.792	0.430
	T ₁	105.27±2.63 ^a	112.64±3.68 ^a	10.559	<0.001
	T ₂	104.27±2.13 ^a	114.21±3.61 ^a	15.368	<0.001
	T ₃	103.61±4.62 ^b	112.60±4.13 ^a	9.401	<0.001
	T ₄	106.24±5.61 ^{acd}	118.25±2.65 ^{abcd}	12.544	<0.001
	T ₅	109.66±6.55 ^{abcde}	115.54±5.78 ^{abcde}	4.362	<0.001
HR /min	T ₀	85.25±1.61	85.26±1.58	0.028	0.977
	T ₁	73.05±2.68 ^a	82.64±3.67 ^a	13.676	<0.001
	T ₂	70.02±2.63 ^{ab}	84.25±3.26 ^{ab}	22.017	<0.001
	T ₃	72.63±1.65 ^{bc}	83.44±3.15 ^{ab}	19.752	<0.001
	T ₄	72.25±2.67 ^{bc}	82.17±3.69 ^{bc}	14.115	<0.001
	T ₅	71.25±1.85 ^{bcde}	76.52±3.47 ^{abcde}	8.685	<0.001

T₀ ^aP<0.05 T₁ ^aP<0.05 T₂ ^aP<0.05 T₃
^aP<0.05 T₄ ^aP<0.05

Table 2 Comparison of perioperative indicators between the two groups $\bar{x} \pm s$

	n	min	mL	
	42	93.30±18.40	107.82±25.60	5.77±1.03
	42	95.52±17.50	128.3±38.40	6.32±1.13
t		0.566	2.875	2.331
P		0.572	0.005	0.022

Table 3 Comparison of cardiac function between the two groups $\bar{x} \pm s$

	n	LVEF %	NT proBNP pg/mL
	42	37.62±11.5	58.71±6.40 ^a
	42	37.85±11.9	55.40±2.20 ^a
t		0.090	3.169
P		0.928	0.002

^aP<0.05

2.4
 IL 6 IL 8 TNF
 P<0.05 4
 2.5
 4.76%
 19.04%
 $\chi^2=4.086$ P<0.05

		n=42
IL 6 pg/mL	1	19.42±1.05
		23.16±5.31 ^a
	1	56.73±7.24 ^b
	3	59.26±7.
	5	
IL 8 pg/mg	1	
	1	
	3	
	5	
TNF pg/mg	1	
	1	
	3	
	5	

NAC

COPD

PCT C NAC COPD
 CRP 2022 1 2023 1
 90 COPD
 45
 45
 NAC
 64.44 PCT CRP 84.44
 $\chi^2=4.731$ P<0.05 PaO₂ SaO₂
 PaCO₂ t=7.780 4.153 5.375 P<0.05
 PCT CRP t=10.733 8.326 P<
 0.05 1 FEV₁ 1 FEV1%pred
 FVC PEF t=5.604 6.073 6.103 2.270 P<0.05
 NAC COPD

Effects of NAC combined with budesonide glycopyrronium bromide and formoterol fumarate on blood gas indexes in patients with acute exacerbation of COPD

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ABSTRACT Objective To explore the effects of N acetylcysteine NAC combined with budesonide glycopyrronium bromide and formoterol fumarate inhalation therapy on blood gas indexes serum procalcitonin PCT and C reactive protein CRP levels in patients with acute exacerbation of COPD. Methods 90 patients with acute exacerbation of COPD who were admitted to the Department of Respiratory and Critical Care Medicine of Suixi County Hospital Anhui Province from January 2022 to January 2023 were selected as the research subjects and were divided into the control group 45 cases and the observation group 45 cases according to the random number table method. Both groups were given routine symptomatic treatment and the control group was additionally given budesonide glycopyrronium bromide and formoterol fumarate inhalation aerosol treatment. Based on symptomatic treatment S W d a e a ^ f d T

partial pressure of oxygen PaO_2 and oxygen saturation SaO_2 in the observation group were higher than those in the control group while the arterial partial pressure of carbon dioxide $PaCO_2$ was lower than the control group $t=7.780$ 4.153 5.375 $P<0.05$. Serum PCT and CRP levels in the two groups of patients were reduced compared with those before treatment and the levels in the observation group were lower than those in the control group $t=10.733$ 8.326 $P<0.05$. The forced expiratory volume in first second FEV_1 the percentage of forced expiratory volume in first second to predicted value $FEV_1\%pred$ forced vital capacity FVC and peak expiratory flow PEF were higher in the observation group than those in the control group $t=5.604$ 6.073 6.103 2.270 $P<0.05$. Conclusion NAC combined with budesonide glycopyrronium bromide and formoterol fumarate inhalation therapy has a significant efficacy on patients with acute exacerbation of COPD and it can reduce inflammatory response and improve lung function and has clinical application value.

KEY WORDS N acetylcysteine Budesonide Glycopyrronium bromide and formoterol fumarate Acute exacerbation of chronic obstructive pulmonary disease Blood gas indexes Lung function

Chronic Obstructive Pulmonary Disease COPD		COPD		6	
1				90	
			45	45	
		27	18	61.7±10.5	COPD
			7.7±1.3	23.5±7.5	
2	COPD	26	19	60.5±9.2	COPD
2			81±1.2	24.3±6.8	
				P>0.05	
3					
			1.2		
		4			
	COPD				ASTRAZENECA
			DUNKERQUE	PRODUCTION	
			H20190063	160 µg+7.2 µg+4.8 µg/	
			2 /		
					>90%
	N Acetyl L cysteine NAC				
			H20000472	3 g 0.2 g	
5	NAC		0.2 g	50 mL	
COPD				2	
1			1.3		
			1.3.1	7	
1.1				2	
	2022 1	2023 1			
			90	COPD	
					\$

/ ×100%

1.3.2

4 X±S
 Table 4 Comparison of lung function between the two groups before and after treatment X±s

	n	FVC L		FEV1 L		FEV1%pre		PEF L/S	
	45	2.26±0.77	3.16±0.52 ^a	1.57±0.25	3.78±0.77 ^a	47.54±0.34	62.47±5.21 ^a	2.25±0.34	4.57±1.21 ^a
	45	2.31±0.68	2.58±0.46 ^a	1.55±0.26	2.85±0.68 ^a	47.42±0.42	55.61±5.45 ^a	2.26±0.32	4.03±1.04 ^a
t		0.327	5.604	0.372	6.073	1.490	6.103	0.144	2.270
P		0.745	<0.001	0.711	<0.001	0.140	<0.001	0.886	0.026

^aP<0.05

COPD

9

COPD

10

11

COPD

12

NAC

PCT CRP

COPD

NAC

COPD

n: 2 & Q, e +^a & QPâe 2 FEV1 & FEV1 % 50 e0, !& S • e0, & S & S 4be0 Y

COPD

NAC

FEV1

10 J . COPD
2022 38 3 203 206 1 J . 2019

11 J . COPD
25 5 716 722 14 EOS PCT CRP J .
2023 23 1 70 73 2022 17 4 482 485

12 N COPD 15
2 MG CHE J . COPD J .
2022 42 6 1385 1389 2019 22 6 597 600

1 J . 2023 54 1 71 76

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J .

10 J . 2021 34 8 1348 1349 13 J .

10 152 154. J . 2021 27 14 2020 35 1 105 108

11 IR 2020 10 15 21 23 J .

12 J . 2019 29 4 88 92+97. 15
2019 39 13 3173 3175 J .

in group A were higher than those in group B and group C $t=3.704$ 3.859 5.948 6.290 $P<0.05$. The level of IFN and KPS score were lower than those in group B and group C $t=9.391$ 8.982 2.748 2.282 $P<0.05$. There was no statistically significant difference in above mentioned indicators between group B and group C $t=0.269$ 0.808 0.421 0.376 $P>0.05$. Pearson correlation analysis results showed that the levels of TGF and MMP 9 in induced sputum were negatively correlated with the KPS score $P<0.05$ and the level of IFN was positively correlated with the KPS score $P<0.05$. Conclusion Compared with patients with qi yin deficiency syndrome and spleen lung qi deficiency syndrome patients with spleen kidney yang deficiency syndrome had higher levels of TGF and MMP 9 and lower IFN level in induced sputum. The three indicators are correlated with the KPS score and can be used as auxiliary indicators for Traditional Chinese Medicine syndrome differentiation of Lung adenocarcinoma.

KEY WORDS Lung adenocarcinoma Traditional Chinese Medicine syndrome type Transforming growth factor Interferon Matrix metalloproteinase 9

2 1
20%
9 H

TGF

IFN

MMP 9 MMPs

CD68 TGF 2 VEGF

1 1 2 1

VEGF CD68 TGF 2

2020 1 2022 12

207

CD68 TGF 2 VEGF

150

BPH CD68 TGF 2 VEGF Kappa CD68 TGF 2 VEGF

BPH ROC CD68 TGF 2 VEGF

BPH CD68 TGF 2 VEGE

2023WSJK056

- 1.
- 2.

402160

400000

E mail 334671058@qq.com

CD68 TGF 2 and VEGF levels in the observation group Grade > Grade > Grade and the difference was statistically significant P<0.05 . The Kappa values of serum CD68 TGF 2 and VEGF alone and in combination for the diagnosis of BPH and pathological biopsy results were 0.536 0.617 0.631 and 0.878 respectively. The AUC of the combination of serum CD68 TGF 2 and VEGF for the diagnosis of BPH was 0.812 which was higher than the three indicators are detected separately P<0.05 . Conclusion The development of BPH can be understood by detecting changes in serum CD68 TGF 2 and VEGF levels. These three indicators are beneficial to clinical early diagnosis and prognosis assessment of patients.

KEY WORDS CD68 TGF 2 VEGF Benign prostatic hyperplasia

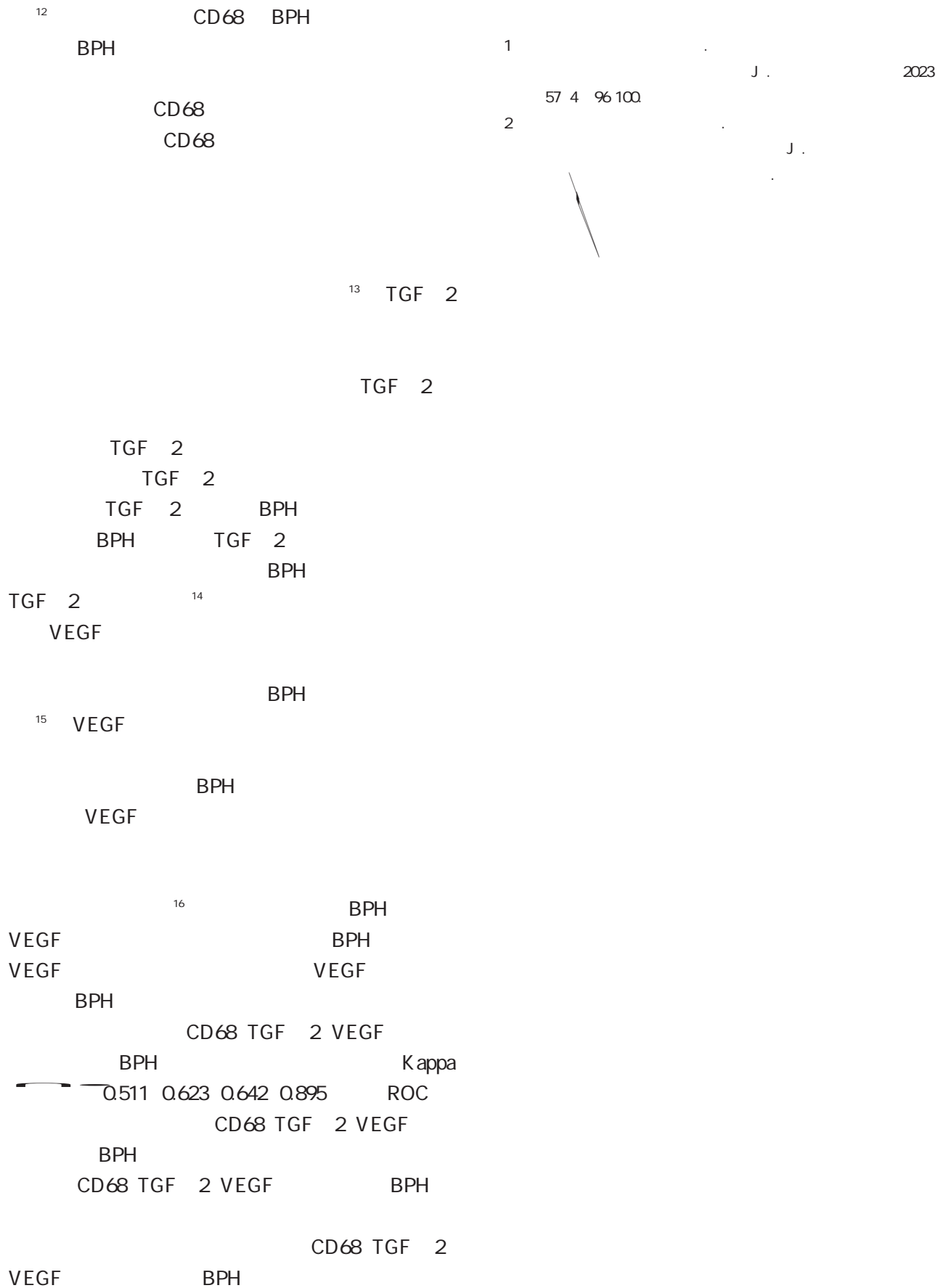
Benign prostatic hyperplasia Rous 7 68 68 71
 BPH 150
 55-88 68.74±5.25
 BMI 18-26 kg/m² BMI 21.86±2.34 kg/m²
 41-50 13% 51-60
 20% 61-70 50% 71-80 57.1% 81-90 P>0.05
 83.3% BPH
 1 BPH
 2 BPH
 3 BPH
 68 Cluster of differ 1.2
 entiation CD68 CD68 TGF 2 VEGF
 4 2 Transforming 8 mL
 growth factor 2 TGF 2 HT12MM 5 000 r/min
 8 cm 10min
 VEGF TGF 2
 TGF 2 PHB
 5 6 CD68
 Vascular endothelial growth factor VEGF CusabioBiotech
 1.3
 CD68 TGF 2 VEGF CD68 TGF 2 VEGF
 BPH CD68
 TGF 2 VEGF CD68 TGF 2
 VEGF BPH
 1.1 ROC CD68 TGF 2
 2020 1 2022 12 VEGF BPH
 BPH 207 1.4
 58-85 69.36± SPSS 21.0
 5.62 2-19 8.37±3.76 x±s t
 BMI 17 26 kg/m² BMI 21.47 ± 2.15 kg/m² F n % χ^2

ROC
BPH
CD68 TGF 2 VEGF
Kappa
CD68 TGF 2 VEGF
P<0.05

2

CD68 TGF 2 VEGF >
P<0.05 2

10



HER 2

1 1 1 2

2 HER 2 2016 10 2020 6

126

1 HER 2 HER 2 67 59

logistics HER 2

HER 2

$\chi^2=3.002$ 5.911 4.456 2.363 8.374 10.730 P <0.05 Logistics

HER 2

OR=0.079 1.448 0.550 0.481 P <0.05 "

HER 2:

22A200005

1. 571600
2. 570311

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PBS 8
 10
 10
 10%
 ++ 10%
 +++ + ++ +++

1.3

1.4

logistics
 HER 2
 $\ln \frac{p}{1-p} = \alpha_0 + \alpha_1 X_1 + L + \alpha_k X_k$

1.5

SPSS 20.0
 $\bar{x} \pm s$
 n %
 Logistics

R 3.61

P<0.05

2

2.1

0.05

2.2

Logistics

OR=0.073

OR=0.550

0.05

2

HER 2

OR=1.448

OR=0.481

HER 2

P<0.05

P>

P<

1 $\bar{x} \pm s$ n %

Table 1 Comparison of general data between two groups

$\bar{x} \pm s$ n %		$\bar{x} \pm s$ n %		t/χ^2	P
		n=67	n=59		
		51.36±10.47	53.84±8.11	1.495	0.137
		31 46.27	35 59.32	2.143	0.143
		29 43.28	21 35.59	0.775	0.379
		18 26.87	28 47.46		
		20 29.85	21 35.59	3.002	0.003
		29 43.28	10 16.95		
		18 26.87	22 37.29	1.573	0.210
		49 73.13	37 62.71		
		31 46.27	40 67.80	5.911	0.015
		36 53.73	19 32.20		
		26 38.81	30 50.85	1.842	0.175
		41 61.19	29 49.15		
		17 25.37	26 44.07		
		22 32.84	19 32.20	2.363	0.018
		28 41.79	14 23.73		
		26 38.81	34 57.63	4.456	0.035
		41 61.19	25 42.37		
		27 40.30	39 66.10	8.374	0.004
		40 59.70	20 33.90		
		37 55.22	25 42.37	2.073	0.150
		30 44.78	34 57.63		
		40 59.70	25 42.37	3.772	0.052
		27 40.30	34 57.63		
		26 38.81	38 64.41	1.880	0.060
		19 28.36	7 11.86		
		19 28.36	6 10.17		
		3 4.48	8 13.56		
		32 47.76	45 76.27	10.730	0.001
		35 52.24	14 23.73		
		63 94.03	55 93.22	0.035	0.852
		4 5.97	4 6.78		

2 logistics

Table 2 Multivariate logistics analysis results

β	S.E	Wald	OR	95% CI	P
-2.612	1.133	5.319	0.073	0.008-0.676	0.021
2.996	1.565	3.663	20.005	0.930-429.904	0.056
0.370	1.174	3.992	1.448	1.046-4.377	0.046
1.619	1.191	1.847	5.049	0.489-5.147	0.174
-0.597	1.565	3.663	0.550	0.002-1.075	0.036
-0.731	1.227	4.191	0.481	0.007-0.898	0.041
5.256	0.296	0.750			0.387

2.3

HER 2

P=5.256 2.612×
 -0.596× -0.731×

Hosmer Lemeshow

R²=0.345 P=0.790

HER 2 C index 0.732
1 Bootstrap

0.042 2

3

HER 2
HER 2

TLR4/

NF B

1 1 1 1 1 1 1 1 1

2

TLR4/NF B

2020 6 2022 2

CPR TolI 4/ B

120 CPR 30

A B + C + D +

+ TLR4 NF B

A B C D 6 IL 6 8 IL 8 cTnI

LVEDD P<0.05 LVEF

GCS NFCS TLR4 NF B

P<0.05 D B C IL 6 IL 8 cTNI LVEDD TLR4 NF B

P<0.05 LVEF GCS NFCS P<0.05

TLR4/NF B

TolI 4 B

Effect of ulinastatin combined with subhypothermia on serum TLR4/NF B indicators in patients undergoing cardiopulmonary resuscitation

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ABSTRACT Objective To analyze the effects of ulinastatin combined with mild hypothermia on toll like receptor 4/ nuclear factor KB TLR4/NF B indexes in patients with cardiopulmonary resuscitation CPR . Methods A prospective study was conducted on 120 patients with coma after successful CPR treatment in Xi'an International Medical Center Hospital from June 2020 to June 2022. The patients were divided in to four groups by simple random method with 30 cases in each group. Group A received routine symptomatic support Group B received routine + ulinastatin treatment Group C received routine + mild hypothermia treatment and Group D received routine + ulinastatin + mild hypothermia treatment. The inflammatory response cardiac function brain function TLR4 and NF B levels before and after treatment among the four groups were compared. Results Compared with Group A the levels of interleukin 6 IL 6 interleukin 8 IL 8 troponin cTnI and left ventricular end diastolic diameter LVEDD in Group B Group C and Group D

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were significantly lower ($P < 0.05$). The levels of left ventricular Ejection fraction (LVEF), Glasgow coma scale (GCS), comprehensive neurological score (NCS), TLR4 and NF- κ B were significantly increased ($P < 0.05$). Compared with Group D, the levels of IL-6, IL-8, cTNI, LVEDD, TLR4 and NF- κ B in Group B and Group C increased with statistical significance ($P < 0.05$).

2.3

9

	A	B	C	D	GCS		
NFCS			P<0.05	D		B	
C	GCS		NFCS		P<0.05	CPR	TLR4/NF kB
	B	C	GCS	NFCS			
	P>0.05		3				

10

2.4

		TLR4	NF	B			
					TLR4	NF	B
			P<0.05	A		B	C
D	TLR4	NF	B		P<0.05		D
	B	C	TLR4	NF	B		P<
0.05	B	C	TLR4	NF	B		
		P>0.05		4			

3

Ali ⁸

MHD

MHD

9

10

MHD

11

Scr BUN

¹²

MHD

1 3

CRP

IL 6 PCT Scr BUN cTnT

MHD

11	2021 41 22 5018 5021.	5	CKD MBD	J .
	J .	2023 43 6	1351 1354.	
12	40 6 1284 1287.		J .	2021 37 3 231
	J .	233+237.		
13	2017 29 6 547 550.		J .	2019 35 10
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14			J .	2021 37 2
		104 106+114.		

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10	2003 12 6 502 503.	13	TLR4/MyD88/NF KB Th1/Th2
11	J . 2017 32 4 564		J . 2022 34 6 785 790.
12	566+573.		TLR4/NF KB
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		2022 40 3 303 308.	

miR 379 miR 195 Gas6

AMI

6 Gas6
 7 n=138 Gas6
 120 Pearson
 AMI
 RNA 379 miR 379 AMI
 RNA 195 miR 195
 2021 5 2022
 n=127 AMI
 miR 379 miR 195
 miR 379 miR 195
 Gas6 miR 379 miR 195
 ROC
 Gas6 miR 379 miR 195
 miR 379 miR 195 Gas6
 P<0.05 miR 379 AMI < AMI < miR 195 Gas6 AMI > AMI >
 P<0.05 miR 195 P<0.05 Pearson Gas6 miR 379 P<
 ROC miR 379 miR 195 Gas6
 AUC=0.808 0.718 0.752 AUC=0.879
 AMI
 miR 379 miR 195 Gas6 AMI
 RNA 379 RNA 195 6

Application value of early detection of plasma *miR - 379* *miR - 195* and Gas6 levels in patients with AMI

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ABSTRACT Objective To analyze the application value of early detection of plasma microRNA 379 miR 379 microRNA 195 miR 195 and growth arrest specific protein 6 Gas6 levels in patients with acute myocardial infarction AMI . Methods 265 patients who were hospitalized in the Department of Cardiology Beijing Shijitan Hospital Affiliated to Capital Medical University were selected between May 2021 and July 2022 and were classified into the AMI group n=127 and the non AMI group n=138 . 120 healthy subjects with physical examination during the same period were selected as the control group. The expression levels of plasma miR 379 and miR 195 and Gas6 at admission were compared among the three groups. Pearson correlation coefficient analysis was used to analyze the relationship between plasma Gas6 level and expression levels of miR 379 and miR 195 in patients with AMI at admission. The diagnostic value of plasma Gas6 level and expression levels of miR 379 and miR 195 at admission on early AMI was analyzed by the receiver operating characteristic curve ROC . Results There were statistically significant differences in the plasma levels of miR 379 miR 195 and Gas6 among the three groups at enrollment P<0.05 . Comparison of plasma miR 379 levels AMI group <non AMI group <control group P<0.05 . Comparison of miR 195 and Gas6 levels AMI

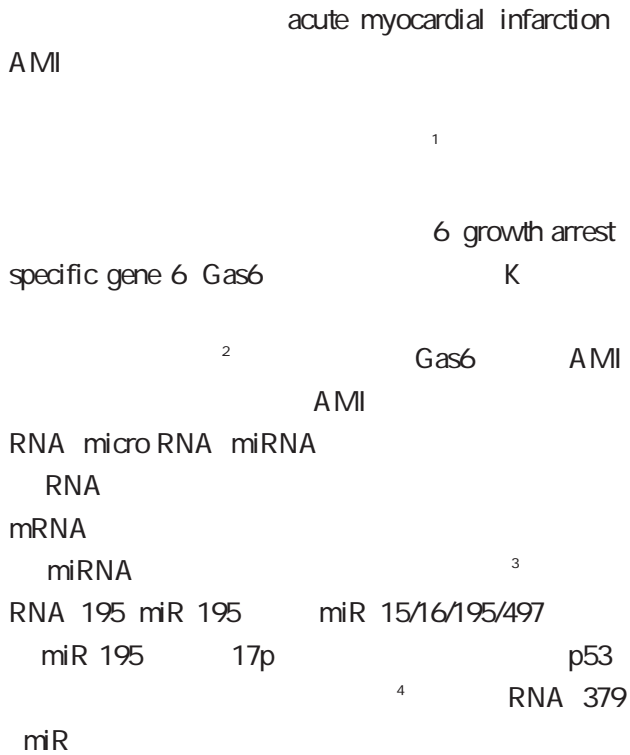
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group > non AMI group > control group $P < 0.05$. Pearson correlation coefficient analysis showed that Gas6 was negatively correlated with the level of miR 379 $P < 0.05$ and positively correlated with the level of miR 195 $P < 0.05$. The ROC results showed that plasma miR 379 miR 195 and Gas6 alone had certain limitations in diagnosing early AMI $AUC = 0.808$ 0.718 and 0.752 and the combination of the three had better efficiency $AUC = 0.879$. Conclusion The levels of plasma miR 379 miR 195 and Gas6 are abnormally expressed in patients with AMI and these three indicators can be used as reference indicators for the early diagnosis of AMI.

KEY WORDS Plasma microRNA 379 MicroRNA 195 Growth arrest specific protein 6 Acute myocardial infarction



cDNA 10

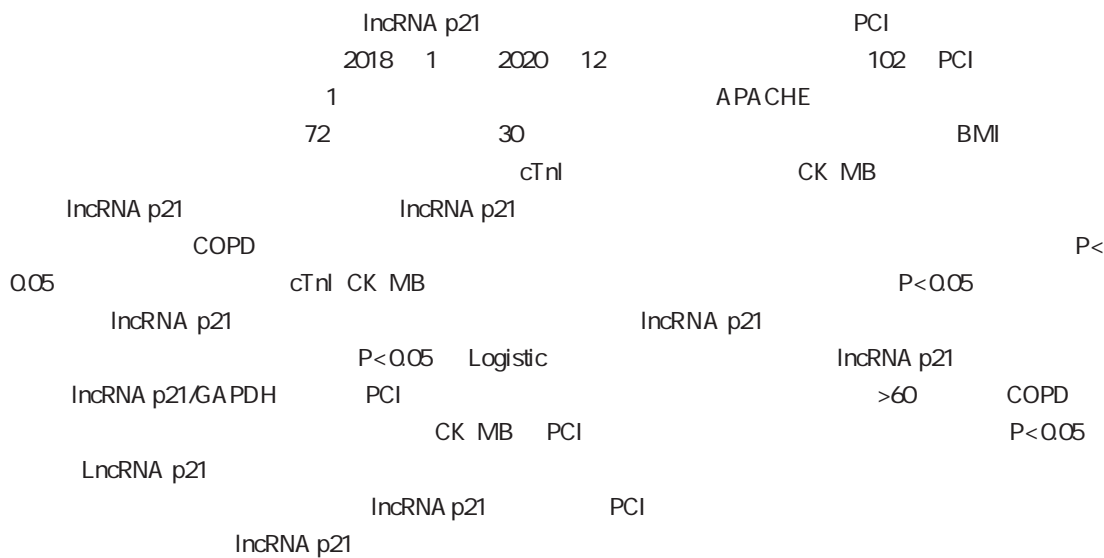
No.

miR 379 miR 195 Gas6
AUC=0.808 0.718 0

AMI

lncRNA p21

PCI



Relationship between serum *lncRNA p21* expression level and prognosis of patients with acute myocardial infarction treated with PCI

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Department of Cardiology Shuyang Hospital of Traditional Chinese Medicine Shuyang Jiangsu China 223600

ABSTRACT Objective To investigate the relationship between serum lncRNA p21 expression level and prognosis of patients with acute myocardial infarction treated with percutaneous coronary intervention (PCI). Methods A total of 102 patients with acute myocardial infarction treated with PCI in Shuyang County Hospital of Traditional Chinese Medicine from January 2018 to December 2020 were selected. The patients were followed up for 1 year after surgery. According to acute physiology and chronic health evaluation (APACHE

ease combination was lower than that in the poor prognosis group with a statistically significant difference $P < 0.05$. The cTnI and CK-MB levels on admission were lower than those in the poor prognosis group with a statistically significant difference $P < 0.05$. Before treatment the expression level of lncRNA p21 in the group with good prognosis was higher than that in the group with poor prognosis. After treatment the expression level of lncRNA p21 in both groups increased and the group with good prognosis was higher than that in the group with poor prognosis. The difference was statistically significant $P < 0.05$. Logistic regression analysis results showed that the expression of high level lncRNA p21 to glycolytic enzyme ratio lncRNA p21/GAPDH is a protective factor for the prognosis of patients with acute myocardial infarction treated with PCI. The prognosis is > 60 years old combined with COPD premature coronary heart disease and combined Autoimmune diseases and high levels of CK-MB are risk factors for the prognosis of patients with acute myocardial infarction treated with PCI $P < 0.05$. Conclusion The low expression of lncRNA p21 can aggravate the damage to cardiomyocytes and endothelial cells. Endothelial cell injury may aggravate coronary stenosis which is not conducive to the prognosis of patients with AMI. High serum lncRNA p21 expression level is a protective factor for the prognosis of AMI treated with PCI.

KEY WORDS Serum lncRNA p21 Percutaneous coronary intervention Acute myocardial infarction Troponin Creatine kinase isozyme

1 A cute Physiology and Chronic Health Evaluation APACHE 7 APACHE <30 72 APACHE 30 30

2 PCI 44~77

3 PCI creatine kinase isoenzyme CK MB I cardiac troponin I cTnI RNA long noncoding RNA lncRNA

4 lncRNA p21 p53 lncRNA p21

5 RNA

6 lncRNA p21

8 PCI

1

1.1

2018 1 2020 12 102 PCI

12 h PCI 3

polymerase chain

reaction PCR IncRNA p21

RNA RNA RNA

TAKARA

7300 PCR ABI IncRNA

p21 GAPDH

" 95 3min 95 30s 61 30s 72 40s

IncRNA p21 38 IncRNA p21/

GAPDH IncRNA p21 2 ^{CT}

0 0.059 1 cTnl >5.00 1 5.00
0 CK MB >60.00 1 60.00 0

1 0

Logistic

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of high risk HPV typing combined with cervical secretion PKM2 and Stat3 for cervical cancer screening was greater than any single indicator. Conclusion High risk HPV typing positivity cervical secretion PKM2 > 39.33 U/mL and Stat3 >0.07 ng/mL are independent risk factors related to cervical cancer. The combined detection of the three can provide a certain reference for clinical screening of high risk groups for cervical cancer thereby improving patient outcomes.

KEY WORDS High risk HPV PKM2 Stat3

Stat3 HPV PKM2

P<0.05 1

1 $\bar{x} \pm s$ n %

Table 1 Univariate analysis $\bar{x} \pm s$ n %

	n=136	n=270	t/ χ^2 /u	P
()	51.12±10.24	49.27±11.37	1.599	0.111
kg/m ²	23.71±1.42	23.49±1.51	1.413	0.158
	20 14.71	4 1.48	28.438	<0.001
			0.012	0.913
	11 8.09	21 7.78		
	125 91.91	249 92.22		
	28.02±4.11	27.69±3.84	0.798	0.425
			0.178	0.673
	127 93.38	249 92.22		
/	9 6.62	21 7.78		
0	15 11.03	151 55.93		
1	79 58.09	110 40.74	105.079	<0.001
2	42 30.88	9 3.33		
			0.057	0.996
	24 17.65	48 17.78		
	70 51.47	141 52.22		
	26 19.12	49 18.15		
	16 11.76	32 11.85		
	4 2.94	31 11.48		
	17 12.50	151 55.93	113.419	<0.001
	72 52.94	76 28.15		
	43 31.62	12 4.44		
HPV	14 10.29	227 84.07	204.082	<0.001
	122 89.71	43 15.93		
PK M2 U/mL	51.24±15.57	29.18±9.53	17.638	<0.001
Stat3 ng/mL	0.10±0.03	0.06±0.02	15.974	<0.001

2 Logistic

Table 2 Analysis of multi factor Logistic regression equation

	β	SE	Wald χ^2	OR	95% CI	P
HPV						
	0			1.000		
	1	1.662 0.450	13.634	5.268	2.903-9.558	<0.001
PK M2						
<	1			1.000		
	2	1.277 0.367	12.105	3.585	1.166-11.025	<0.001
Stat3						
<	1			1.000		
	2	1.155 0.297	15.123	3.174	1.764-5.711	<0.001

2.3 Logistic

0

1 P<0.05

/

HPV PKM2 Stat3

		50	HPV	PK M2>39.33 U/mL
45			Stat3>0.07 ng/mL	
	HPV			
	HPV		HPV	
PK M2			PK M2>39.33 U/mL	Stat3>0.07 ng/mL
		10		
			11	
			PK M2	
	/			
	PK M2			
		PK M2		
		PK M2		
			PK M2	
	H1			
12	PK M2>39.33U/mL			
	94.85%	78.75%		
Stat3	17	q21.1 q21.2		
	DNA	C		
13		Stat3		
	HPV			
Stat3			B	
2	G1/S		D1	
14				
	HPV			
	HPV			
	HPV	PK M2 Stat3		
	AUC			

1 J . 2019 48

2 4 265 269. .TCT HR HPV

3 J . 2020 12 7 944 947. PK M2

4 J . 2020 36 2

5 192 194. .STAT3 AG490

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maternal serum 25 OH D and DBP expression levels in late pregnancy for neonatal eczema and the area under the curve AUC confidence interval sensitivity and specificity were obtained. The spearman method was used to analyze the correlation between maternal serum DBP and 25 OH D expression levels in late pregnancy and the occurrence of neonatal eczema. Results The expression levels of DBP and 25 OH D in serum of mothers in the eczema group were lower than those in the healthy group with statistical significance $P < 0.05$. The AUC of serum 25 OH D and DBP in neonatal eczema were 0.908 and 0.884 $P < 0.05$ respectively. Low levels of DBP and 25 OH D in maternal serum during the third trimester were risk factors for neonatal eczema $P < 0.05$. The expression levels of DBP and 25 OH D in maternal serum during late pregnancy were negatively correlated with the development of neonatal eczema $r = -0.665 - 0.707$

ROC 2.2 DBP 25 OH D
 25 OH D DBP DBP 25 OH D
 AUC P<0.05
 Spearman 2
 DBP 25 OH D 2.3 25 OH D DBP
 P<0.05
 25 OH D DBP
 P<0.05
 25 OH D 26.575 µg/L
 1 0.77 0.91
 DBP 206.05 µg/L
 P>0.05 1 1 0.89 0.79 3 1

Table 1 Comparison of general information between the two groups of mothers and infants $\bar{x} \pm s$

	n	kg	kg	/	Apgar
	48	29.61±4.38	57.32±8.42	3.41±0.57	25/23 8.96±0.53
	48	30.23±5.02	57.16±7.95	3.45±0.49	26/22 8.92±0.51
$t\chi^2$		0.645	0.096	0.369	0.042 0.377
P		0.521	0.924	0.713	0.838 0.707

Table 2 Comparison of serum DBP and 25 OH D expression levels between the two groups of mothers

	n	25 OH D	DBP
	48	32.42±4.72	230.98±22.93
	48	22.74±5.55	188.03±28.28
$t\chi^2$		9.199	8.171
P		0.001	0.001

1.0
 0.8
 0.6
 0.4
 0.2

0 0.2 0.4 0.6 0.8 1.0

ROC

Figure 1 ROC curve

Table 3 Diagnostic value of maternal serum 25 OH D and DBP expression levels in late pregnancy for neonatal eczema

AUC	1	95%	P
25 OH D 0.908 26.575 0.91 0.77 0.029 0.852 0.964 <0.001			
DBP 0.884 206.05 0.89 0.79 0.034 0.818 0.950 P			

2.4 Logistic

DBP 25 OH D
 P<0.05

2.5 DBP : V

and - 20 . The mean CT values of the non inactivation group were 31.70 ± 4.91 and 30.30 ± 4.03 respectively and the inactivated group was 33.90 ± 5.11 and 32.20 ± 4.62 the difference was not significant $t=0.67$ $Q=0.54$ $P>0.05$. Conclusion The inactivation sample solution does not affect the results of influenza A virus qRT PCR. Influenza A virus RNA can be stored for in the inactivated sample preservation solution at 2-8 or - 20 for at least 48 hours

KEY WORDS Influenza A virus Inactivation Sample preservation solution Nucleic acid

RNA 3 EP 1 4
8 2-8 - 20
48 qRT PCR
12
3 18 1
Quantitative Real time PCR qRT PCR 38
4 <18
YXLL 2020 02
1.2
5
6 2023 9
2023 1
73%
qRT PCR
1
1.1
2022 2 1 3
1 2 377

34.7

VIC

FAM

Ct >34.8

1.5

SPSS 26.0

$\bar{x} \pm s$

t P<0.05

2

2.1

qRT PCR

74.5% 1 771/2 377

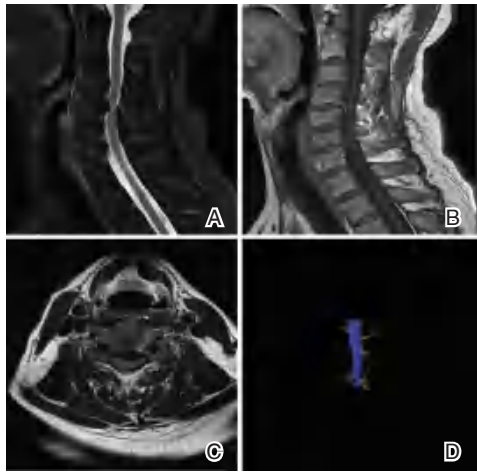
T2WI

regions of interest ROI T2WI

ROI

apparent diffusion coefficient ADC

fractional anisotropy FA



A FS T2WI B T1WI C T2WI
D DTI

1 CSM MRI
Figure 1 MRI images of CSM patients

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CSM

i

7

MRI CMS
T2WI

T2WI

8

MRI

.

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a

"

? D ;

B C

HBV B C

HBV DNA 2 HBV B C 11

HBV B C HBV DNA 4.67×10⁷ IU/mL CV 3.6%

3.66×10⁸ IU/mL CV 2.9% 0.5 mL/ P 0.428

F 1.140 0.420 F 1.173

4 37 - 80

±0.2 P 0.1 - 20 12 - 80

B P 0.237 F 1.934 C P 0.173 F 2.737 P 0.1

HBV B C HBV

Preparation of National Standard for HBV genotype B and C

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National Institute for the Control of Pharmaceutical and Biological Products Beijing China 100050

ABSTRACT Objective To develop two kinds of national standard hepatitis B virus B genotype and C genotype. Methods A total of 11 genotyping standard candidate samples were screened from plasma samples of HBV infected patients in different regions of China. Two samples were identified as HBV type B and C standard samples by HBV sequence determination and evolutionary tree analysis. The two candidates were centrifuged and packaged respectively for HBV genotyping validation and quantitative collaborative calibration. Results Confirm and screen HBV B genotype and C genotype standard samples. The virus content of B genotype and C genotype standard samples was 4.67×10⁷ IU/mL CV 3.6% and 3.66×10⁸ IU/mL CV 2.9%. The loading volume is more than 0.5 mL/piece which is in line with the regulations. The P values of the two were 0.428 F=1.140 and 0.420 F=1.173 respectively. There was no difference in the concentration between branches. After the two standards were stored in different ways repeated freeze thawing 4 storage room temperature and 37 storage the results were compared with those of the samples stored at - 80. The absolute deviations were within the range of ±0.2 and the P values of ANOVA were all greater than 0.1. In addition after 12 months stored at - 20 and stored at - 80 the P value of type B was 0.237 F value was 1.934 and the P value of type C was 0.173 F value was 2.737 both P values were greater than 0.1. The

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stability verification was in line with the requirements. Conclusion Two kinds of national standard HBV genotype B and C genotypes were prepared which provided the basis for the quality control and standardization of HBV genotyping reagent in China.

KEY WORDS HBV genotype National Standard quantitative determination

Hepatitis B virus HBV 1.4 HBV

HBV ^{1 2} HBV DNA HBV HCV HIV

2019 257 HBV DNA HBV DNA

HBV DNA 71.77/10 HBV DNA HBV DNA

3.2 kb 1.5 HBV

A~J 10 ^{4 5} HBV DNA

B C ^{6 7} HBV GenBank HBV DNA

DNA B C HBV DNAStar MegAlign Phylogenetic tree

1.6 HBV 15 min 20 cm

6 000 r/min P2

1.1 0.5 mL / - 80

1.7

1.7.1 HBV

1.2 NIBSC2016

World Health Organization WHO WHO HBV

DNA 4th WHO International Standard

for HBV DNA for NAT NIBSC code 10/266 HBV

0.5 mL 955 000 IU/mL

5.98 IU/mL HBV A 1.7.2 HBV DNA

1.3 PCR

Roche Diagnostics GmbH

HBV/HCV/HIV HBV DNA HBV DNA

cobas® TaqScreen WHO 10/266

MPX Test cobas s 201 HBV DNA /

Grifols Diag WHO 2 10

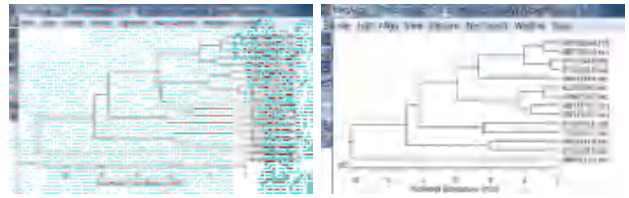
nostic Solutions Inc ProdeixUItrio Elite As 5~6 Statistic

say

1.8

8

1.9



2 HBV C
Figure 2 Phylogenetic tree analysis of HBV C genotype national standard candidate

HBV DNA

2 3
SPSS 22

1.10

2 3 4 5 4
3 4 5 6 7 8h 16h
24h 37 2h 4h 8h
DNA 3 3 HBV
SPSS 22 -80
-20 12
SPSS 22

2.3.2 HBV DNA

HBV B 4.67×10⁷
IU/mL 7.59 Ig IU/mL CV 3.6%
95% 1.37×10⁷~7.96×10⁷IU/mL
95% 7.30~7.88 Ig IU/mL HBV
C 3.66×10⁶ IU/mL
8.56 IU/mL CV 2.9% 95%
2.02×10⁶~6.63×10⁶ IU/mL 95%
8.31~8.82 IU/mL

2

2.4

0.5 mL/

2.1 HBV

HBV DNA

11 HBV DNA

2.5

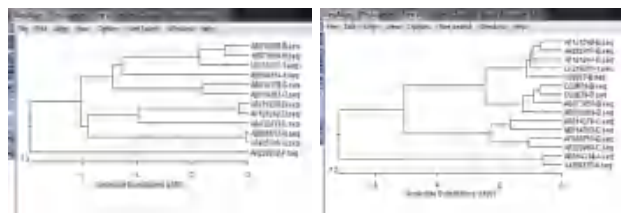
B P
0.428 F 1.140 C P
0.420 F 1.173 P 0.05

2.2 HBV

LKJ19011 HBV DNA
B HL2013248

2.6

B C
-80
±0.2 P 0.1
-20 12 -80
B P 0.237 F 1.934
C P 0.173 F 2.737 P 0.1
HBV DNA B C



1 HBV B

Figure 1 Phylogenetic tree analysis of HBV B genotype national standard candidate

2.3 HBV

HBV

2.3.1

B C C HBV B 9 HBV
HBV DNA HBV

8%
HBV A J 10
A J
A D
D
E
10 F
11 12 G
13
B C
D I
B D
C
C
A B C
50.2%

ACA D IP 10 PLGF

	ACA D	IP 10
PIGF	2020 2	2021 6
62	30	32
58	G ACA IgG	M
ACA IgM D	IP 10 PIGF	ACA IgG
ACA IgM D	IP 10 PLGF	ROC
ACA IgG ACA IgM D	IP 10 PLGF	ACA IgG ACA IgM D
IP 10	> >	F=102.643 155.868 170.863 286.744 P<
0.05 PLGF	< <	F=59.953 P<0.05
	> >	$\chi^2=20.284$ P<0.05
ACA IgG ACA IgM D	IP 10	PIGF
t=6.371 5.573 5.307 7.257 5.734	P<0.05	ACA IgG ACA IgM D IP 10
PLGF	r=-0.292 0.359 0.297 0.282 0.318	P<0.05
ROC	sFit 1 PIGF	PIGF
	72.04 pg/mL	0.856 87.20% 80.18%
	ACA D IP 10	PLGF
	D	

Changes in serum ACA D dimer IP 10 and PLGF levels and their relationship with pregnancy outcomes in patients with preeclampsia

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ABSTRACT Objective To study the variations in of serum levels of anticardiolipin antibody ACA D dimer interferon inducible protein 10 IP 10 and placental growth factor PIGF as well as their predictive value for adverse pregnancy outcomes in patients with preeclampsia. Methods 62 patients with preeclampsia admitted to Zhangjiakou First Hospital from February 2020 to June 2021 were selected as the subjects. They were divided into two groups mild 30 cases and severe 32 cases . In addition 58 normal parturients who gave birth in the hospital during the same period were included as the control group. The serum levels of anticardiolipin antibody immunoglobulin G ACA IgG anticardiolipin antibody immunoglobulin M ACA IgM D dimer IP 10 and PIGF were measured in each group. Follow up was conducted until the end of pregnancy and the pregnancy outcomes were compared among the three groups. The relationship between serum levels of ACA IgG ACA IgM D dimer IP 10 PLGF and pregnancy outcomes was analyzed. The efficiency of these serum levels in predicting pregnancy outcomes was analyzed using the receiver operating

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characteristic curve ROC . Results The levels of serum ACA IgG ACA IgM D dimer and IP 10 were found to be higher in the severe group compared to the mild group and the control group $F=102.643$ 155.868 170.863 286.744 $P<0.05$. Conversely PLGF levels were lower in the severe group compared to the mild group and the control group $F=59.953$ $P<0.05$. The total incidence rate of adverse pregnancy outcomes was higher in the severe group compared to the mild group and the control group $\chi^2=20.284$ $P<0.05$. Serum levels of ACA IgG ACA IgM D dimer and IP 10 in patients with adverse pregnancy outcomes were higher than those in patients with good pregnancy outcomes while PLGF level was lower than that in patients with good pregnancy outcomes $t=6.371$ 5.573 5.307 7.257 5.734 $P<0.05$. Serum levels of ACA IgG ACA IgM D dimer and IP 10 were positively correlated with adverse pregnancy outcomes and PLGF level was negatively correlated with adverse pregnancy outcomes $r=0.292$ 0.359 0.297 0.282 -0.318 $P<0.05$. The ROC curve analysis results showed that sFlt 1 and PLGF were effective in predicting pregnancy outcomes in patients with preeclampsia with PLGF being the most efficient. The corresponding cutoff value area under the curve sensitivity and specificity were 72.04 pg/mL 0.856 87.20% and 80.18% when the Youden index was the highest. Conclusion Serum ACA D dimer and IP 10 levels are abnormally increased in patients with preeclampsia while PLGF level is abnormally reduced. These indicators are closely associated with adverse pregnancy outcomes.

KEY WORDS Preeclampsia Anticardiolipin antibody D dimer Interferon inducible protein 10 Placental growth factor

Table 1 Comparison of general data among the three groups of pregnant women $\bar{x} \pm s$

	n	$\bar{x} \pm s$				
	58	29.25±5.15	22.28±2.33	2.54±0.86	1.72±0.61	14.45±0.44
	30	28.96±5.11	22.24±2.21	2.49±0.57	1.68±0.49	14.03±0.51
	32	30.05±5.84	21.96±2.42	2.52±0.76	1.65±0.57	14.42±0.54
F		0.363	0.207	0.042	0.162	0.044
P		0.697	0.814	0.959	0.850	0.957

1.2.3 P<0.05 PLGF < 2 <
 P<0.05 > >
 P<0.05 3
 Apgar 7

1.4

SPSS 18.0
 n % t $\bar{x} \pm s$ n Apgar
 Spearman
 ACA IgG ACA
 IgM D IP 10 PIGF
 ROC P<0.05 χ^2 P
 58 1 1.72 1 1.72
 30 2 6.67 2 6.67
 32 8 25.00 9 28.13
 13.718 16.465
 0.001 <0.001
 2.3 ACA IgG ACA IgM
 D IP 10 PLGF
 2.1 ACA IgG ACA IgM D ACA IgG ACA IgM D
 IP 10 PLGF IP 10 P<0.05
 ACA IgG ACA IgM D IP 10 PIGF P<0.05
 > > 4
 2 ACA IgG ACA IgM D IP 10 PLGF $\bar{x} \pm s$

Table 2 Comparison of serum ACA IgG ACA IgM D dimer IP 10 and PLGF levels among the groups $\bar{x} \pm s$

	n	ACA IgG GPLU/mL	ACA IgM MPLU/mL	D mg/L	IP 10 pg/L	PLGF pg/mL
	58	3.25±0.90	1.08±0.31	1.22±0.35	689.45±100.68	90.69±15.33
	30	6.08±1.68 ^a	2.23±0.62 ^a	3.01±0.92 ^a	1026.47±115.89 ^a	70.59±10.36 ^a
	32	9.11±3.02 ^{ab}	4.10±1.32 ^{ab}	6.12±2.11 ^{ab}	1248.24±118.36 ^{ab}	62.58±7.26 ^{ab}
F		102.643	155.868	170.863	286.744	59.953
P		<0.001	<0.001	<0.001	<0.001	<0.001

^aP<0.05 ^bP<0.05

Table 4 Comparison of serum ACA IgG ACA IgM D dimer and IP 10 levels of pregnant women with different pregnancy outcomes $\bar{x} \pm s$

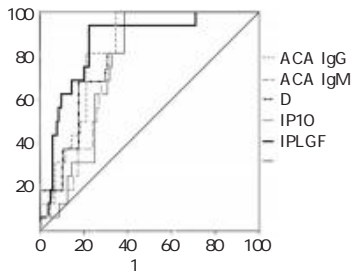
	n	IgG GPLU/mL	IgM MPLU/mL	D mg/L	IP 10 pg/L	PLGF pg/mL
	104	5.14±1.67	2.04±0.60	2.79±0.91	894.34±109.38	80.62±12.04
	16	7.98±1.59	3.04±1.02	4.17±1.30	1107.16±108.01	62.23±11.25
t		6.371	5.573	5.307	7.257	5.734
P		<0.001	<0.001	<0.001	<0.001	<0.001

2.4 ACA IgG ACA IgM D IP 10 D IP 10 PLGF
 PLGF PIGF
 ACA IgG ACA IgM D IP 10 72.04 pg/mL AUC
 $r=0.292$ 0.359 0.856 87.20% 80.18%
 0.297 0.282 $P<0.05$ PLGF 5 1
 $r=-0.318$ $P<0.05$ 3

2.5 ACA IgG ACA IgM D IP 10
 PLGF ACA IgG ACA IgM D
 ROC ACA IgG ACA IgM IP 10 PLGF
 5 ACA IgG ACA IgM D IP 10 PLGF

Table 5 Predictive analysis of serum ACA IgG ACA IgM D dimer IP 10 and PLGF levels on adverse pregnancy outcomes

		AUC	95% CI		%	%	P
ACA IgG	6.46GPLU/mL	0.829	0.75-0.89	0.65	85.21	79.79	<0.001
ACA IgM	2.37MPLU/mL	0.771	0.68-0.84	0.62	89.65	72.35	<0.001
D	3.34 mg/L	0.816	0.73-0.88	0.62	88.46	73.54	<0.001
IP 10	923.68 pg/L	0.769	0.67-0.83	0.61	89.88	71.12	<0.001
PLGF	72.04 pg/mL	0.856	0.78-0.89	0.68	87.20	80.18	<0.001



1 ROC

Figure 1 ROC curve analysis

9
 B
 IgG IgM IP 10
 ACA IgG ACA IgM IP 10
 10
 D
 PLGF
 11
 PLGF
 12
 PLGF
 PLGF
 13
 D
 Apgar
 IP 10
 14
 IP 10
 15
 PLGF
 D IP 10 126

•

tors interleukin 6 IL 6 tumor necrosis factor TNF C reactive protein CRP and cognitive function assessed by mini mental state examination MMSE were compared among the three groups before operation and 1 and 3 days after operation. The incidence of postoperative adverse reactions was compared among the three groups. Results The comparison of EP NE SP IL 6 TNF and CRP levels among the three groups 1 day after surgery was high dose group <low dose group <control group and the differences were statistically significant $F=9.132$ 14.376 62.570 42.254 37.120 36.830 $P<0.05$. The comparison of EP NE SP IL 6 TNF and CRP levels among the three groups on the 3rd day after surgery was as follows high dose group <low dose group <control group and the differences were all statistically significant $F=8.903$ 10.280 73.878 19.720 29.216 46.666 $P<0.05$. The comparison of MMSE scale scores on the first day after operation was high dose group >low dose group >control group and the difference was statistically significant $F=81.318$ 17.564 $P<0.05$. The comparison of MMSE scale scores on the 3rd day after operation was as follows high dose group >low dose group >control group and the difference was statistically significant $F=17.564$ $P<0.05$. Conclusion Dexmedetomidine at a dose of $0.5 \mu\text{g}/\text{kg}$ can reduce pain and inhibit the inflammatory response in LM patients promote the recovery of postoperative cognitive function.

KEY WORDS Dexmedetomidine Laparoscopic myomectomy Pain factor Inflammatory reaction Cognitive function

laparoscopic myomec 5.42 13 11
 tomy LM 8 55.63±5.07
 16 12 6
 1
 2 P>0.05
 1.2
 3
 LM 0.1 0.5 $\mu\text{g}/\text{kg}\cdot\text{h}$
 LM
 H20213780 10 min 0.1 0.5 $\mu\text{g}/\text{kg}\cdot\text{h}$
 1
 1.1
 2020 3 2022 3 0.1 mg/kg
 LM 98 H19990027 0.05 mg/kg
 n=32 n=34 n=32
 4 LM 5 H2012342 2 $\mu\text{g}/\text{kg}$
 H20084457 2 mg/kg
 4 mg/ $\text{kg}\cdot\text{h}$
 gists ASA American society of Anesthesiolo 0.1 $\mu\text{g}/\text{kg}\cdot\text{min}$ 45 min
 6 ~ 0.1 mg/kg
 1.3
 1.3.1
 54.39± 1 3 d
 5.91 15 8 4 mL 3 500 r/min 8 cm
 9 55.18± 10 min

3 1 3 d MMSE $\bar{x} \pm s$
 Table 3 Comparison of MMSE scores between the three groups of patients before surgery and 1 and 3 days after surgery $\bar{x} \pm s$

	n		1 d	3 d
	34	28.37±0.75	22.47±1.12 ^a	25.46±1.97 ^{ab}
	32	28.13±0.81	24.82±1.05 ^c	26.23±1.72 ^{abc}
	32	28.56±0.98	26.79±1.84 ^{abd}	27.71±0.62 ^{abcd}
F		2.059	81.318	17.564
P		0.134	<0.001	<0.001
		^a P<0.05	1 d ^a P<0.05	^b P<0.05
		^c P<0.05		

4 n %
 Table 4 Comparison of the incidence of adverse reactions among the three groups n %

	n			
	34	2 5.88	0	1 2.94
	32	3 9.38	1 3.13	2 6.25
	32	3 9.38	2 6.25	2 6.25
χ^2				1.396
P				0.468

3

LM

8

MMSE

>

1 d 3 d

>

2

LM

9

15

EP NE SP
 EP

LM

¹⁰ SP

NE

1

IFN ALD COS J .
 2021 13 8 1305 1308

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3

J .

¹¹
 3 d EP NE SP IL 6
 < <

1 d

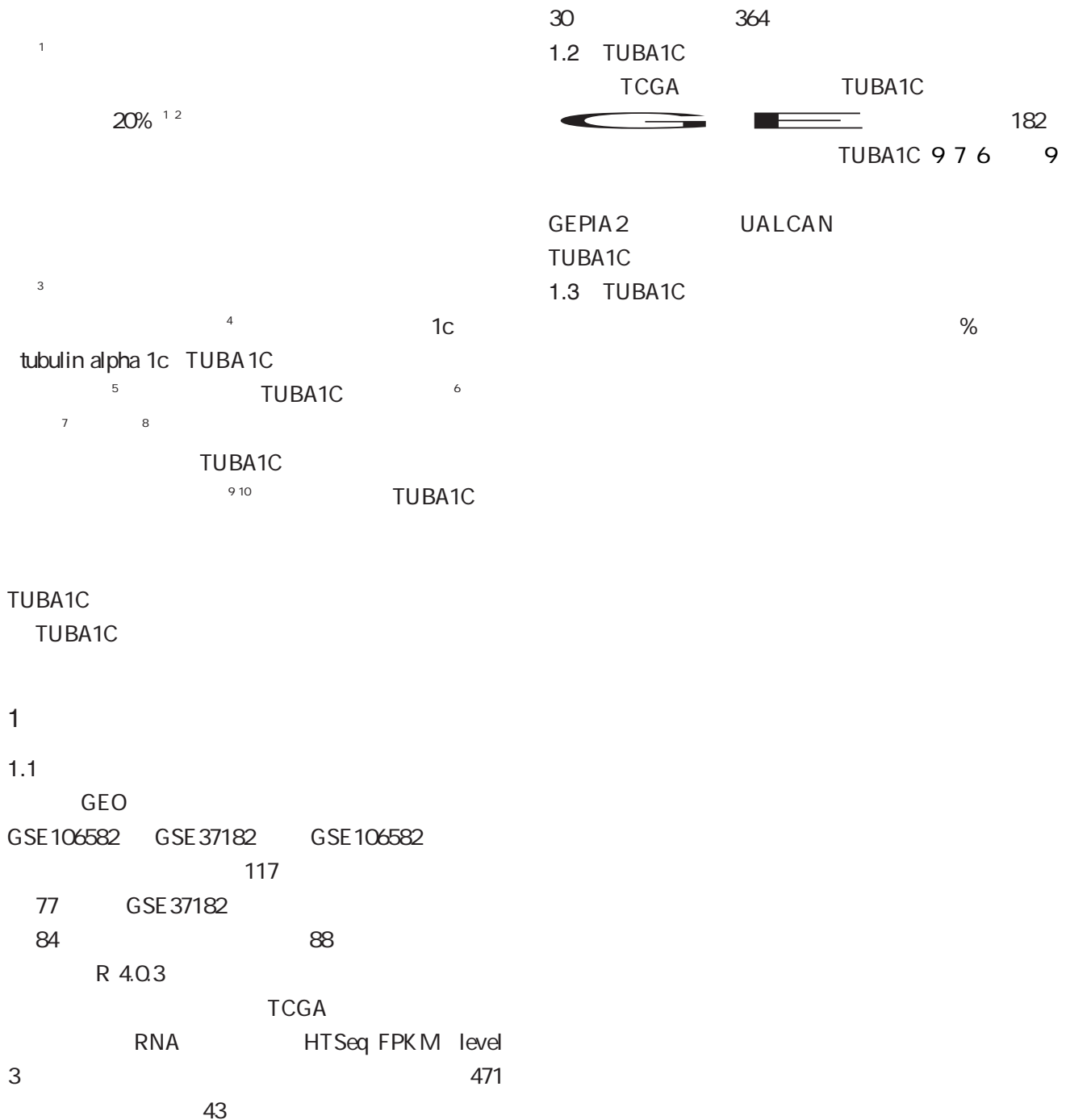
4 . M

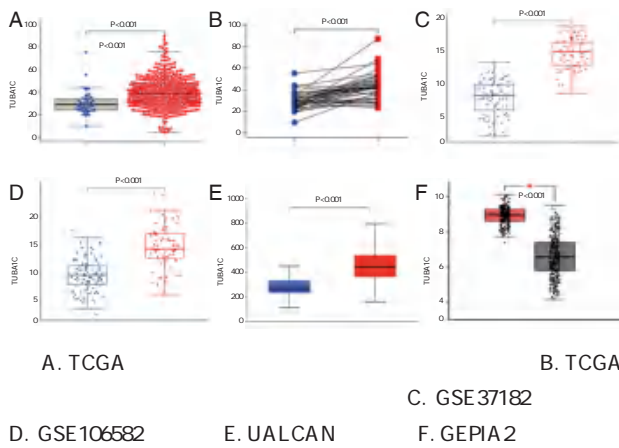
2011 168 170.

5

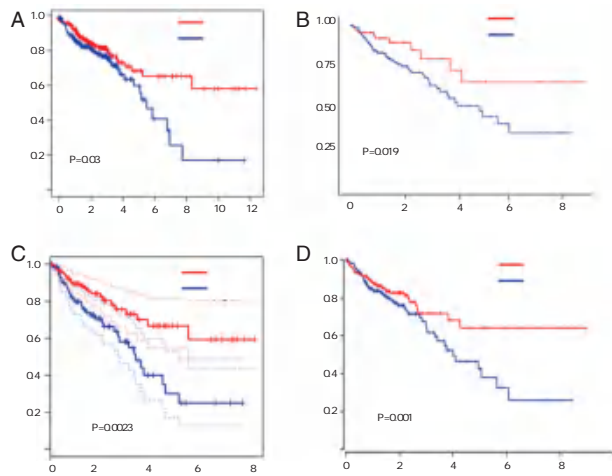
mor stage of patients $P < 0.05$. Moreover, the overall survival rate of patients with high TUBA1C expression was significantly lower than that of patients with the low expression group, the difference was statistically significant $P < 0.05$. Multivariate COX regression analysis showed that TUBA1C could be an independent prognostic factor for colon cancer patients, $HR = 1.993$, $95\%CI: 1.077-3.010$, $P < 0.05$. GSEA enrichment analysis revealed that TUBA1C was involved in cell cycle, DNA replication, mismatch repair, and the P53 signaling pathway in colon cancer. Conclusion: The TUBA1C gene is highly expressed in colon cancer tissue and is related to the patients' prognosis. It can participate in the occurrence and development of colon cancer through a variety of carcinogenic pathways, which may become a new molecular marker of colon cancer.

KEY WORDS: TUBA1C, Colon cancer, Prognosis, Biomarker





1 TUBA1C
Figure 1 Expression of TUBA1C in colon cancer

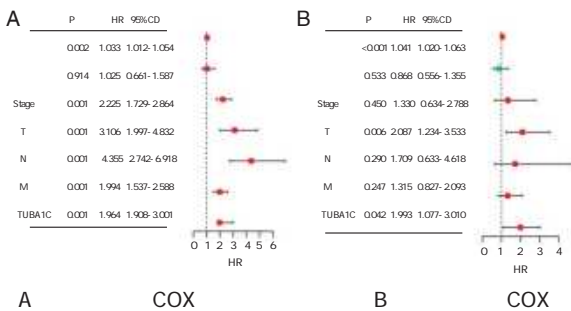


A. TCGA B. UALCAN C. GEPiA2
 D. OncoLnc
 3 TUBA1C

Figure 3 Relationship between TUBA1C expression and overall survival in patients with colon cancer

0.001 T HR=2.087 95%CI 1.234-3.533
 P=0.006 TUBA1C HR=1.993 95%CI 1.077-3.010 P=0.042

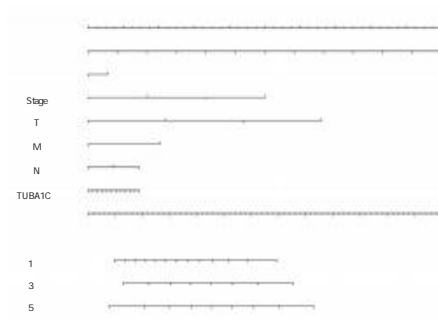
4B



A COX B COX

4 COX

Figure 4 COX regression analysis



TUBA1C P53 6B~C GSEA DNA 6D

2.5

TUBA1C

5

2.6 TUBA1C STRING

6A GO

Stage TMN

1 3

10 TUBA1C

3

TUBA1C TUBA

TUBA1C mRNA

TUBA1C

Ki 67 E2F1 PCNA

TUBA1C

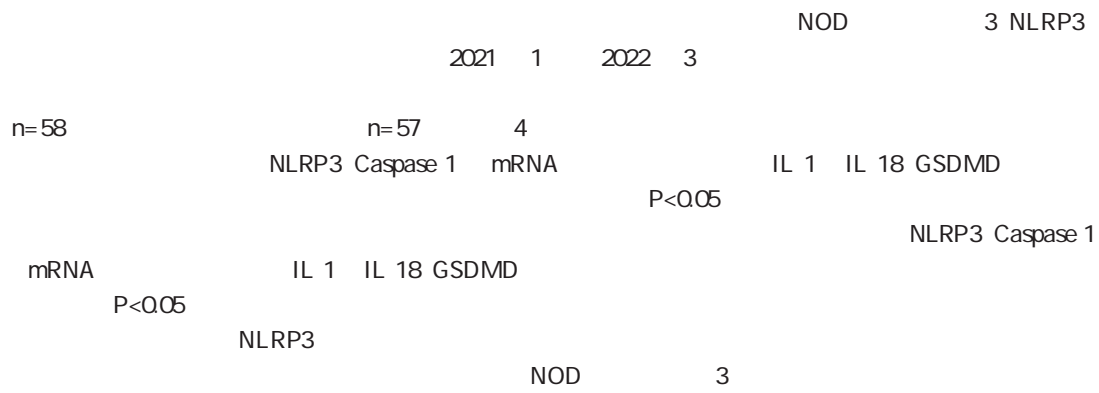
TUBA1C

6 AlBahde

TUBA1C

12

NLRP3



Efficacy of Jinghua Weikang Capsule in the treatment of chronic atrophic gastritis and its effect on inflammation and pyroptosis mediated by the NLRP3 pathway

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2 n %
Table 2 Comparison of clinical efficacy between the two groups n %

	24	19	10	5	53	91.38
	20	15	7	15	42	73.68
χ^2						6.265
P						0.012

2.3

P<0.05 4

4 $\bar{x} \pm s$
Table 4 Comparison of gastric mucosa pathological scores between the two groups $\bar{x} \pm s$

	2.31±0.22	1.01±0.12 ^a	1.42±0.13	0.60±0.07 ^a	1.28±0.19	0.55±0.06 ^a
	2.25±0.24	1.62±0.14 ^a	1.46±0.16	0.93±0.11 ^a	1.34±0.17	0.78±0.07 ^a
t	1.398	25.102	1.473	19.228	1.784	18.929
P	0.165	<0.001	0.144	<0.001	0.077	<0.001

^aP<0.05

2.4

NLRP3 Caspase 1 mRNA

mRNA

NLRP3 Caspase 1

P<0.05 5

2.5

IL 1 IL 18 GSDMD

IL 1 IL 18 GSDMD

3

$\bar{x} \pm s$

Table 3 Comparison of TCM syndrome scores between the two groups $\bar{x} \pm s$

	3.12±0.38	1.65±0.20 ^a	3.84±0.42	1.70±0.18 ^a	2.73±0.29	1.25±0.14 ^a	3.77±0.41	1.60±0.20 ^a
	3.20±0.41	2.18±0.22 ^a	3.91±0.46	2.32±0.24 ^a	2.68±0.32	1.71±0.17 ^a	3.68±0.39	2.25±0.22 ^a
t	1.085	13.522	0.852	15.690	0.702	15.852	1.206	15.584
P	0.280	<0.001	0.852	<0.001	0.484	<0.001	0.230	<0.001

^aP<0.05

6

IL 1 IL 18 GSDMD

$\bar{x} \pm s$

Table 6 Comparison of serum IL 1 IL 18 and GSDMD levels between the two groups $\bar{x} \pm s$

	IL 1 ng/mL		IL 18 ng/mL		GSDMD ng/mL	
	34.13±4.12	16.64±1.88 ^a	11.32±1.65	6.75±0.68 ^a	9.49±1.33	5.61±0.67 ^a
	33.76±3.58	22.51±2.44 ^a	11.88±1.52	8.91±0.94 ^a	9.84±1.24	7.72±0.88 ^a
t	0.514	14.466	1.892	14.137	1.459	14.483
P	0.608	<0.001	0.061	<0.001	0.147	<0.001

^aP<0.05

5 NLRP3 Caspase 1 mRNA
 $\bar{x} \pm s$

Table 5 Comparison of NLRP3 and Caspase 1 mRNA expression levels in gastric mucosa between the two groups

	NLRP3		Caspase 1	
	1.05±0.17	0.46±0.05 ^a	0.96±0.11	0.44±0.06 ^a
	1.00±0.12	0.78±0.08 ^a	1.00±0.12	0.70±0.08 ^a
t	1.819	25.770	1.864	28.090
P	0.072	<0.001	0.065	<0.001

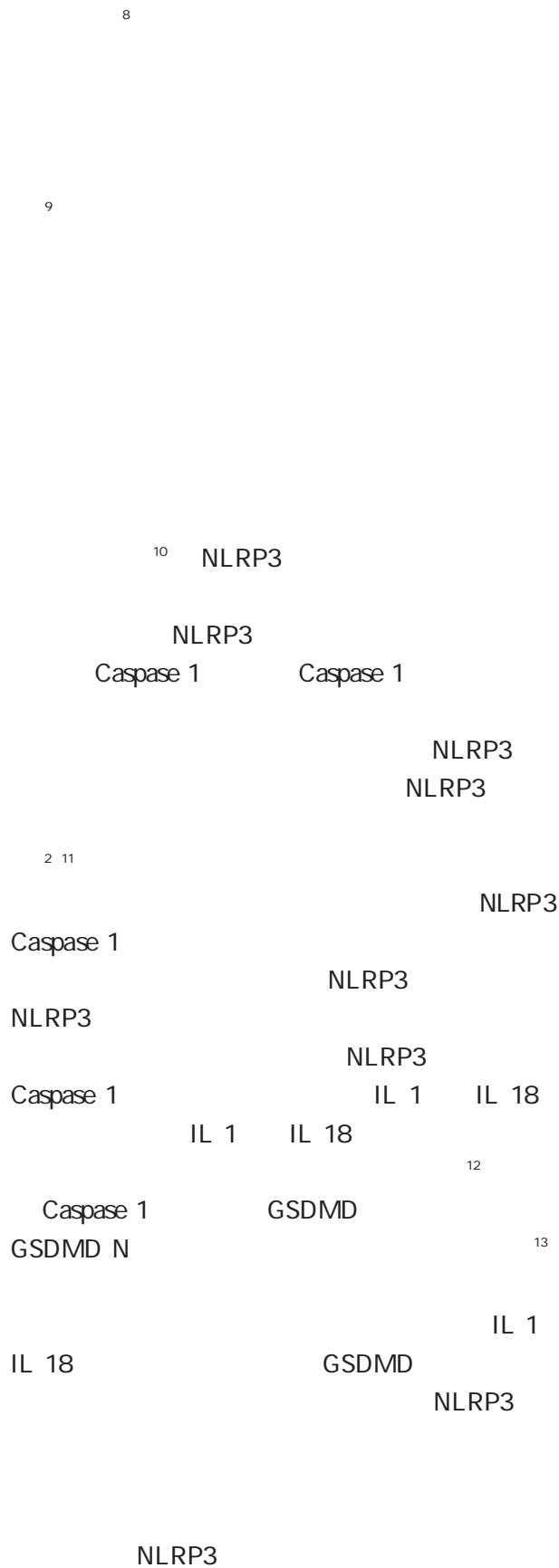
^aP<0.05

P<0.05

6

3

8



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SMA 1/10 000-1/6 000¹ 1/50-1/ DNA
 40 1.2.4 PCR
² 1.2.4.1 SMN1 E7 E8
 88%~95% SMA PCR
 SMN1 7 PCR
 8 SMN1 7
 SMN1 SMA SMN1 1
³ SMA 1.2.4.2 SMN1
 SMN1 E7 SMA
 SMA SMN1 E8 ⁴⁻⁶ SMN1
 SMN1 E7 E8
 SMA SMA QF PCR short tandem repeat
 SMA STR
 SMA multiplex ligation dependent probe am
 1 241 SMN1 MLPA SMN1 ⁸
 1.3
 SMA SMN1 E7 /
 1 STR GeneMapper5.0
 1.1 MLPA Coffalyser
 2022 3 2023 2
 SMA 1 241
 16-47 <22 SMA
 SMA
 L 20220507
 1.2 16 7 E7 E8 SMN1 E7
 1.2.1 1 1.29% 16/1241 1
 1 1 241 SMN1 E7 E8
 Table 1 Copy numbers of E7 and E8 of SMN1 genes in
 1 241 pregnant women

SMN1 E7	SMN1		E8	
	0	1	2	
0	0	0	0	0
1	0	15	1	16
2	0	7	1 218	1 225
	0	22	1 219	1 241

 2.2
 16
 1.2.3 DNA 14
 SMA GeneRotex 96 SMN1 E7 1 QF PCR
 STR

E8 1 SMN1 E7
 SMA 2
 3 4

3
SMA

SMA

PCR

10

SMA

SMA

9

SMN1

PCR 1 241
SMN1 SMN1 E7
16 1.29% SMA

SMA 25% 16 1
11

QF PCR STR
MLPA SMN1E7 E8
SMN1 E7
SMA SMA

SMN1 E7 SMN1 7
8

SMN1 E8 E7

SMA 8

8
E7 O E8 O

E7
SMN1 E8
1

SVRI

		2020 6		2022 5		SVRI	
161	Pearson			CO	SV	SVRI	APACHE
161		90	71			CO SV	
SVRI	APACHE			P<0.05	Logistic		<198
mmol/L	>245 mmol/L	<10	CO <3 L/minm	>6 L/minm	SV <60 mL	>120 mL	SVRI
<1 500 dyn/s/m ² /cm ⁵	>2 000 dyn/s/m ² /cm ⁵	APACHE	>24				
	P<0.05	28 d		95		66	
CO SV	SVRI	APACHE		P<0.05	Logistic		
<198 mmol/L	>245 mmol/L	<10	CO <3 L/minm	>6 L/minm	SV <60 mL	>120	
mL	SVRI <1 500 dyn/s/m ² /cm ⁵	>2 000 dyn/s/m ² /cm ⁵	APACHE	>24			
	P<0.05	Pearson	APACHE			CO SV	
	SVRI	P<0.05				SVRI	

Relationship between lactic acid clearance SVRI and cardiac displacement monitoring and the therapeutic effect and prognosis of patients with septic shock

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ABSTRACT Objective To study the relationship of lactic acid clearance systemic resistance index SVRI and cardiac displacement monitoring with treatment and prognosis of patients with septic shock. Methods 161 patients with septic shock admitted to the Second Central Hospital of Baoding City from June 2020 to May 2022 were selected. The clinical therapeutic effect and prognosis of patients were counted. The related factors affecting the therapeutic effect and prognosis of patients with septic shock were analyzed. The relationship between lactic acid clearance cardiac output CO stroke output SV SVRI and APACHE score was analyzed by Pearson correlation. Results Among 161 patients 90 cases were in the effective group and 71 cases were in the ineffective group there were statistically significant in lactic acid lactic acid clearance CO SV systemic vascular resistance index SVRI and APACHE scores P<0.05. Logistic regression analysis showed that lactic acid <198 mmol/L and lactic acid > 245 mmol/L lactic acid clearance <10% CO <3 L/minm and CO > 6 L/minm SV <60 mL and SV > 120 mL SVRI <1 500 dyn/s/m²/CM⁵ and SVRI > 2 000

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dyn/s/m²/cm⁵ and APACHE scores > 24 were risk factors affecting the therapeutic effect of septic shock patients P<0.05 . According to the statistics of the 28 d prognosis 95 cases had poor prognosis and 66 cases had good prognosis. There were significant differences in lactic acid lactic acid clearance CO SV SVRI and APACHE scores between the two groups P<0.05

co cardiac output CO Stroke vol °
 ume variation SV Systemic
 Vascular Resistance SVRI
 Logistic
 28 d
 95
 66 8
 APACHE APACHE)
 71 9
 Pearson CO
 SV SVRI APACHE
 1.4
 SPSS 18.0
 $\bar{x} \pm s$ t 2.3
 n % χ^2 P<0.05 161 95
 66
 2 MAP CVP HR
 P>0.05
 2.1 CO SV SVRI APACHE
 P<0.05 3
 161 71 90 2.4
 MAP CVP HR CI Logistic <198 mmol/L
 P>0.05 >245 mmol/L <10 CO <3 L/
 CO SV SVRI APACHE minm >6 L/minm SV <60 mL >120 mL SVRI
 P<0.05 1 <1 500 dyn/s/m²/cm⁵ >2 000 dyn/s/m²/cm⁵
 2.2 APACHE >24 P<0.05 4
 Logistic <198 mmol/L P<0.05 4
 >245 mmol/L <10 CO <3 L/ 2.5 CO SV SVRI
 minm >6 L/minm SV <60 mL >120 mL SVRI APACHE
 <1 500 dyn/s/m²/cm⁵ >2 000 dyn/s/m²/cm⁵
 APACHE >24 Pearson APACHE
 APACHE >24 CO SV r=-0.533
 P<0.05 2 -0.526 -0.584 P<0.05 SVRI

		β	SE	Wald χ^2	OR	95% CI \bar{z}
mmol/L	198-245 mmol/L=0 <198 mmol/L >245 mmol/L=1	1.119	0.373	4.628	7.568	3. 3
%	<10	1.138	0.253	6.4830		
CO L/min)	3-6 L/minmol/L=0 <3 L/minm >6 L/minm=1	2.008	0.425	4.218		
SVRI dyn/s/m ² /cm ⁵)	1 500-2 000 dyn/s/m ² /cm ⁵ =0 <1 500 dyn/s/m ² /cm ⁵ >2 000 dyn/s/m ² /cm ⁵ =1	1.069	0.181	4.4510		
SV mL	" 110-120 mL=0 <60 mL >120 mL=1	1.075	0.069	4.9130		
APACHE	" >24	2.019	0.377	4.5960		

3
 Table 3 Single factor influencing the prognosis of patients with septic shock

	n=95	n=66	t/ χ^2	P
	65.31±11.56	65.49±11.49	0.097	0.923
	56 58.94	39 59.09	0.003	0.985
	41 43.15	29 43.93	1.088	0.296
	39 41.05	30 45.45	0.797	0.371
mmol/L	6.18±2.11	3.78±2.76	6.248	<0.001
%	31.74±25.25	14.23±25.28	4.325	<0.001
MAP mmHg	70.76±6.13	69.33±6.78	1.393	0.165
CVP mmHg	17.11±5.41	17.26±5.46	0.172	0.863
HR /min	98.55±10.44	100.16±11.17	0.935	0.351
CO L/min	4.92±1.25	3.86±1.04	5.659	<0.001
CI L/min ² /m ²	7.75±1.15	7.66±0.93	0.527	0.599
SVRI dyn/s/m ² /cm ⁵	1 078.53±278.16	2 181.46±646.19	13.043	<0.001
SV cm ³	50.15±5.95	103.75±9.42	44.225	0.009
APACHE	23.14±4.07	28.91±4.13	8.794	<0.001

r=0.385 0.417 P<0.05

3

4

logistic

Table 4 Multivariate logistic regression analysis on the prognosis of patients with septic shock

	β	SE	Wald χ^2	OR	95% CI	P
198-245 mmol/L=0 <198 mmol/L >245 mmol/L=1	1.124	0.143	5.982	3.077	2.235-4.072	<0.001
SVRI 3-6 L/minmmol/L=0 <3 L/minm >6 L/minm=1	1.156	0.195	5.381	3.177	2.167-4.656	0.015
SV 1 500-2 000 dyn/s/m ² /cm ⁵ =0 <1 500 dyn/s/m ² /cm ⁵ >2 000 dyn/s/m ² /cm ⁵ =1	2.066	0.087	6.327	7.893	6.655-9.360	<0.001
CO 60-120 mL=0 <60 mL >120 mL=1	1.078	0.098	6.133	2.938	2.425-3.261	<0.001
APACHE >24	1.076	0.091	6.129	2.932	2.453-3.505	<0.001
	2.017	0.147	5.997	7.515	5.634-10.025	<0.001

7

10

CO <3 L/minm >6 L/minm SV <60 mL >120 mL

CO SV

8

SVRI

9

<198 mmol/L >245 mmol/L

SVRI

11

CO SV

APACHE

miR 122 5p

1 2 3 4

CHD 2019 8 2021 8 RNA 122 5p miR 122 5p 186 CHD 90

n=58 n=128

miR 122 5p ROC miR 122 5p

CHD 1

n=50

n=136 Logistic CHD miR 122 5p

P<0.05 P<0.05 miR 122 5p

AUC 0.845 P<0.05 miR 122 5p CHD P<0.05

Logistic miR 122 5p CHD P<0.05

miR 122 5p CHD CHD

miRNA 122 5p

Changes in serum *miR-122-5p* in patients with coronary heart disease and its relationship with plaque stability and prognosis

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ABSTRACT Objective To analyze the changes of serum microRNA 122 5p miR 122 5p and its relationship with plaque stability and prognosis in patients with coronary heart disease CHD . Methods A total of 186 patients with CHD in the hospital were enrolled as the study group between August 2019 and August 2021. According to plaque stability they were further divided into the unstable plaque group n=58 and the stable plaque group n=128 . A total of 90 healthy controls during the same period were enrolled as the control group. The level of serum miR 122 5p in all the objects was detected and compared. The diagnostic val

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1. 075000
 2. 075000
 3. 075000
 4. 075000

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ue of serum miR 122 5p for plaque stability was analyzed by the ROC curves. The occurrence of adverse cardiovascular events in CHD patients within 1 year of follow up were recorded. According to different prognosis CHD patients were divided into the poor prognosis group (n=50) and the good prognosis group (n=136). The influencing factors of prognosis were analyzed by univariate and multivariate logistic analysis. Results: The level of serum miR 122 5p in the study group was higher than that in the control group, the difference was statistically significant (P<0.05), which was also higher in the unstable plaque group than in the stable plaque group, the difference was statistically significant (P<0.05). The ROC curves showed that the AUC of miR 122 5p in the diagnosis of plaque stability was 0.845 (P<0.05). The level of serum miR 122 5p in the poor prognosis group was higher than that in the good prognosis group, the difference was statistically significant (P<0.05). Logistic analysis showed that high level of serum miR 122 5p was an independent risk factor for poor prognosis in CHD patients (P<0.05). Conclusion: MiR 122 5p is highly expressed in the serum of CHD patients and has a certain diagnostic value for plaque stability. Excessive levels of miR 122 5p are an independent risk factor for poor prognosis in CHD patients.

KEY WORDS: MIRNA 122 5p, Coronary heart disease, Plaque stability

Coro

nary heart disease CHD

1

CHD

2

TGG 3 5 TGGTGTCGTG
 GAGTCG 3 U6 U6 5
 GCTTCGGCAGCACATATACTAAAAT 3
 5 CGCTTCACGAATTTGCGTGTCAT 3
 95 5 min 95 15 s 60 1 min 72
 30s 40 2^{ct} miR 122 5p
 1.3.3
 iLab

70%

186 CHD
 n=58
 n=128
 1.4 CHD 1
 1
 n=136
 n=50

1.5 SPSS 21.0
 $\bar{x} \pm s$
 n % χ^2 ROC
 miR 122 5p CHD
 Logistic CHD
 P<0.05

2

2.1

P>0.05 1
 2.2 miR 122 5p 0.54±0.13
 miR 122 5p 0.19±0.03
 miR 122 5p
 t=25.197 P<0.001

1 $\bar{x} \pm s$ n %

Table 1 Comparison of General Information between the two Groups $\bar{x} \pm s$ n %

	n=186	n=90	t/ χ^2	P
/	58.93±8.81	57.61±9.26	1.148	0.252
106/80		49/41	0.160	0.690
kg/m ²	23.12±1.45	22.87±1.32	1.382	0.168
54 29.03		25 27.78	0.047	0.829
mmHg	78.52±7.94	77.96±8.47	0.537	0.591
mmHg	125.68±12.92	123.09±14.25	1.509	0.132
35 18.82		13 14.44	0.807	0.369
22 11.83		7 7.78	1.058	0.304

2.3 CHD miR 122 5p

miR 122 5p 0.69±
 Q13 miR 122 5p 0.47±
 Q11 miR 122 5p
 P<0.05

2.4 miR 122 5p CHD

ROC miR 122 5p
 CHD AUC 0.845 95% CI
 0.785-0.905 0.54 0.805
 0.810 P<0.05 1

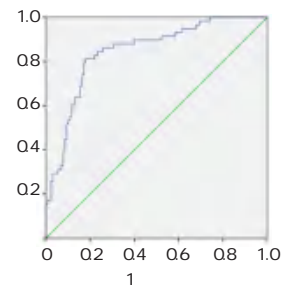


Figure 1 ROC curve

2.5 CHD

1 186 CHD
 50 136
 miR 122 5p
 P<0.05 2

2.6 CHD

CHD =0
 =1 miR 122 5p =0 > =1 Logistic
 miR 122 5p CHD
 P<0.05 3

2 CHD $\bar{x} \pm s$ n %

Table 2 Univariate analysis of prognostic factors affecting CHD patients $\bar{x} \pm s$ n %

	n=50	n=136	t/ χ^2	P
	59.06±8.01	58.88±7.75	0.139	0.890
/	28/22	78/58	0.027	0.869
kg/m ²	23.36±1.47	23.03±1.51	1.331	0.185
	12 24.00	42 30.88	0.840	0.359
mmHg	77.35±7.51	78.95±8.34	1.190	0.0235
mmHg	126.72±12.05	125.30±11.42	0.741	0.460
	12 24.00	23 16.91	1.202	0.273
mmol/L	4.59±0.78	4.65±0.85	0.436	0.663
mmol/L	1.70±0.35	1.74±0.30	0.770	0.442
mmol/L	1.47±0.29	1.51±0.35	0.723	0.471
miR 122 5p	0.73±0.16	0.47±0.09	13.917	0.001

3

	β	SE	Wald χ^2	OR	95% CI	P
miR 122 5p	0.837	0.264	10.052	2.309	1.377-3.875	0.002

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PTED

IL 6 HMGB 1 IL 17

IL 6 17 IL 17 1 HMGB 1 PTED 6
8 122 2019 4 2022
TLIF n=58 TLIF PTED n=64 PTED IL 6 HMGB 1
IL 17 PTED IL 6 HMGB 1 IL 17 Logistic
PTED IL 6 HMGB 1 IL 17 PTED
98.44% TLIF 87.93% P<0.05 PTED IL 6 IL 17 HMGB 1
TLIF P<0.05 PTED IL

122

		PTED		TLIF	
1	Transforaminal lumbar interbody fusion TLIF				
				TLIF n=58	
		Percuta TLIF	PTED	n=64	PTED
	neous transforaminal endoscopic discectomy	PTED	37	21	44.31±
				5.26±3.14	PTED
			25		45.32±10.68
2			5.31±3.02		
			P>0.05		
	6 Interleukin 6 IL 6				
	17 Interleukin 17 IL 17	1			
	High mobility group protein 1 HMGB 1		1.2		
			TLIF		6
3	IL 6				
	HMGB 1				
	HMGB 1				
	IL 17				
4	IL 6 IL 17 HMGB 1				
	PTED				
	IL 6 HMGB 1 IL 17				
1					
1.1					
	2019 4 2022 8				

IL 17>0.463µg/L PTED
IL 6 HMGB 1 IL 17

BMI

PG SGA ⁹ >1

Cyto

FLEX S

T

CD₃⁺

CD₄⁺ CD₈⁺

IgG IgM IgA

2.4

PTED IL 6 IL 17 HMGB 1

Logistic

>60

>3h

PTED IL 6 IL 17 HMGB 1

P<0.05

4

2.5

PTED IL 6 HMGB 1 IL 17

1.4

PTED

TLIF

SPSS 21.0

P<0.05

5

$\bar{x} \pm s$

t

3

n %

χ^2

Logistic

PTED IL 6 HMGB 1 IL 17

PTED

P<0.05

2

PTED

2.1

PTED

98.44%

TLIF

3ñ3ô

IL 6 IL 17

87.93%

P<0.05

1

IL 6

IL 17 T

2.2 IL 6 IL 17 HMGB 1

PTED IL 6 IL 17 HMGB 1

TLIF

P<0.05

2

2.3 PTED

IL 6

IL 17 HMGB 1

IL 6 IL 17 HMGB 1

P<0.05

BMI

IL 6 IL 17 HMGB 1

P>0.05

3

PARP1

1 PARP1
 2019 2 2023 2
 80 4
 n=31 n=49
 PCR PARP1 GPX4
 SLC7A11 Tfr1 mRNA PARP1 GPX4 SLC7A11 Tfr1
 PFS OS FIGO ~ CA125 35 U/mL
 PARP1 FIGO ~ CA125<35 U/mL
 $\chi^2=4.129$ 9.095 $P<0.05$ PARP1 GPX4
 SLC7A11 mRNA PARP1 Tfr1
 mRNA t=23.487 20.030 23.378
 $\chi^2=5.905$ $P<0.05$ PARP1 mRNA GPX4 SLC7A11
 mRNA r=0.351 0.394 Tfr1 mRNA r=-0.364
 PARP1 PARP1 OS PFS
 $\chi^2=4.851$ 5.623 $P<0.05$ PARP1
 PARP1

Correlation and clinical significance of PARP1 and ferroptosis in chemotherapy resistant epithelial ovarian cancer tissues

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ABSTRACT Objective To investigate the correlation between poly ADP ribose polymerase 1 PARP1 and ferroptosis in chemotherapy resistant epithelial ovarian cancer and its clinical significance. Methods A total of 80 patients with epithelial ovarian cancer at Yingshang County People s Hospital in Fuyang City Anhui Province from February 2019 to February 2023 were selected for this study. These patients had received platinum based chemotherapy at least 4 times and were divided into two groups chemotherapy sensitive n=31 and chemotherapy resistant n=49 based on their response to treatment. Immunohistochemistry was used to detect the protein expression of PARP1 in epithelial ovarian cancer tissues before chemotherapy. Additionally fluorescence quantitative PCR was used to measure the mRNA expression of PARP1 and ferroptosis marker genes GPX4 SLC7A11 and Tfr11 in epithelial ovarian cancer tissues. The levels of PARP1 GPX4 SLC7A11 and Tfr1 expression between the two groups were compared. Patients were followed up to

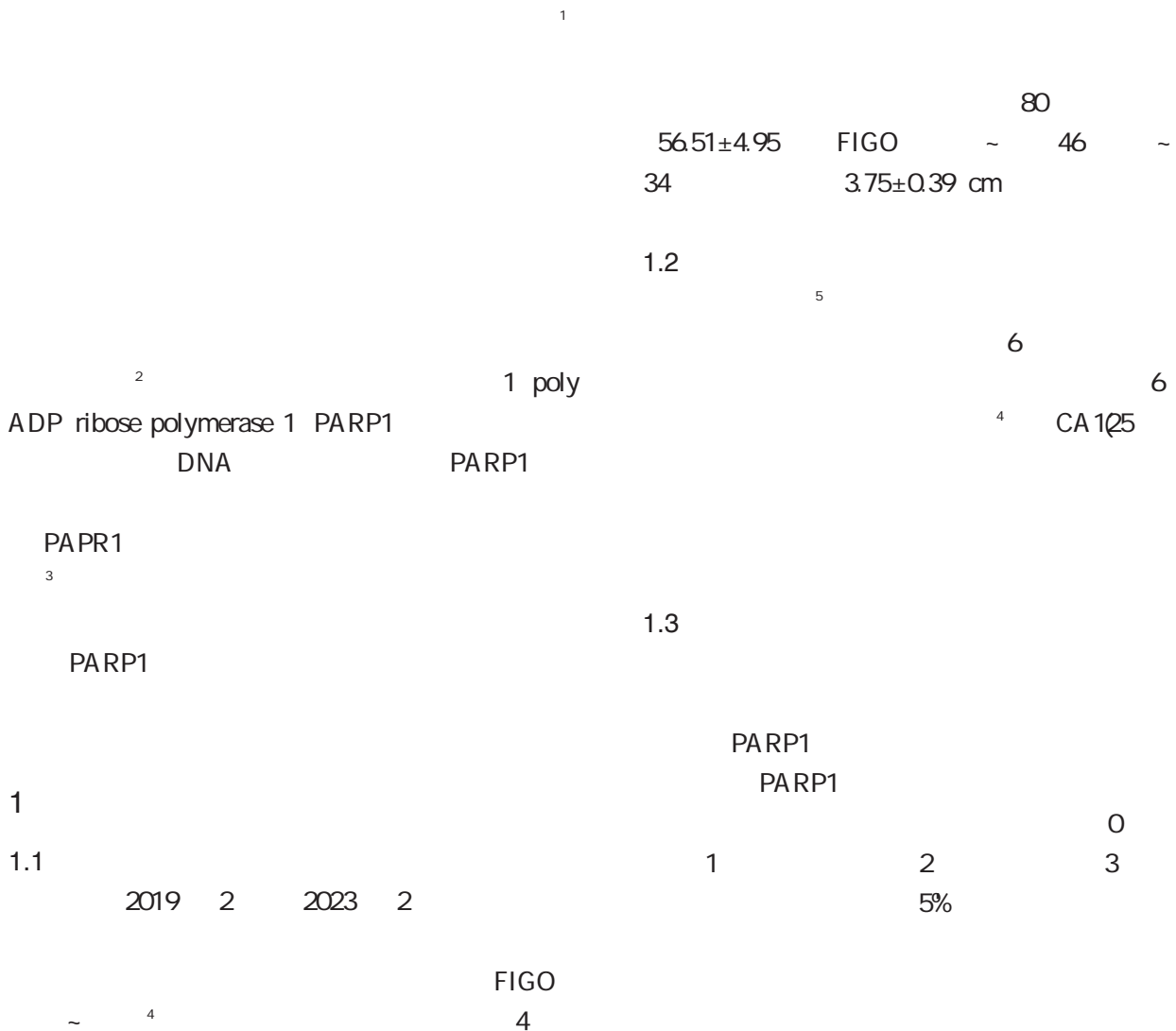
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assess their progression free survival (PFS) and overall survival (OS). Results: The high expression rate of PARP1 in epithelial ovarian cancer tissues with FIGO stage ~ and CA125 ≥35 U/mL was higher than that of epithelial ovarian cancer tissues with FIGO stage ~ and CA125 <35 U/mL. The difference was statistically significant ($\chi^2=4.129$, 9.095 , $P<0.05$). The relative mRNA expression levels of PARP1, GPX4 and SLC7A11 as well as the high expression rate of PARP1 were higher in chemotherapy resistant tissues compared to chemotherapy sensitive tissues. Conversely, the relative mRNA expression level of TfR1 was lower in chemotherapy resistant tissues than in chemotherapy sensitive tissues. The difference was statistically significant ($t=23.487$, 20.030 , 23.378 , 22.752 , $\chi^2=5.905$, $P<0.05$). The mRNA relative expression level of PARP1 in epithelial ovarian cancer was positively correlated with the mRNA relative expression levels of GPX4 and SLC7A11 (correlation coefficient 0.351 and 0.394 respectively) and negatively correlated with the mRNA relative expression level of TfR1 (correlation coefficient -0.364). Patients with high PARP1 expression in epithelial ovarian cancer had shorter OS and PFS compared to patients with low PARP1 expression. The difference was statistically significant ($\chi^2=4.851$, 5.623 , $P<0.05$). Conclusion: The high expression of PARP1 is correlated with chemotherapy resistance, reduced ferroptosis and poor survival prognosis in epithelial ovarian cancer.

KEY WORDS: Epithelial ovarian cancer, Chemotherapy resistance, PARP1, Ferroptosis



PARP1
SLC

GPX4

and specificity were 90.0% and 94.9% respectively which was better than that of single detection $P < 0.05$.
 Conclusion Serum CD64 and PCT levels were significantly increased while SChE levels were significantly decreased in patients with septic shock. The combined assessment of CD64 and PCT levels could service as a valuable prognostic indicator for septic shock patients.

KEY WORDS Septic shock CD64 Procalcitonin Cholinesterase Prognosis

1 900 40% 28 d n=20 62 36 23-2-11 n=98
 <90 mmHg 40 mmHg 2 18 3
 <65 mmHg 1 2 3
 Procalcitonin PCT 9 40-93 73.95±15.41
 2~35 d 15.65±3.04 d
 CD64 $P > 0.05$
 4~6 h 1.2 24 h
 CD64 APACHE II
 serum choline 28 C
 esterase SChE 1.3 24 h
 CD64 PCT SChE 5 mL 10 min
 10 cm 30 min 3 000 r/min 4 10 min
 1.1 A tellicasolution PCT
 SChE Becton Dickinson
 CD64
 1.4 SPSS Statistics 21
 118 1 2021 2022 12
 2020 1 2022 12
 118 1 2021
 5
 n % $\bar{x} \pm s$ χ^2 t
 Logistic ROC CD64 PCT SChE
 AUC
 $P < 0.05$
 <0.5 mL/kg/h

2 0.05 1
 2.2 Logistic

2.1 CD64 PCT SChE

CD64 PCT APACHE
 C Logistic CD64 PCT SChE
 P<0.05 P<

SChE P< 0.05 2

	n	CD64	PCT $\mu\text{g/L}$	SChE U/L	APACHE	mInel/L	z
	98	7.65 \pm 1.11	12.94 \pm 3.18	3574.75 \pm 108.59	23.32 \pm 2.49	3.25 \pm 0.67	
t	20	8.78 \pm 1.43	19.37 \pm 4.32	3415.23 \pm 102.40	24.54 \pm 2.47	5.58 \pm 1.36	
P		3.942	7.723	6.288	5.546	30.530	
		<0.001	<0.001	<0.001	<0.001	<0.001	

CD64

4 6

CD64

8

CD64

10

		NSE		PA		HICH			
2021	1	2023	1			83	HICH		43
						40			
				NSE	PA				NIHSS
ICU				t=8.504	8.332	10.222	9.180	P<0.05	7 d
	NSE	NIHSS		t=28.137	19.333	30.472	16.683	P<0.05	7 d
NSE	NIHSS			t=3.775	10.113			P<0.05	
7 d	PA			t=-13.077	-9.189			P<0.05	7 d PA
				t=3.541				P<0.05	9.30%
				$\chi^2=5.705$				P<0.05	30.00%
HICH									

Short term efficacy of different surgical methods for hypertensive intracerebral hemorrhage in the basal ganglia region

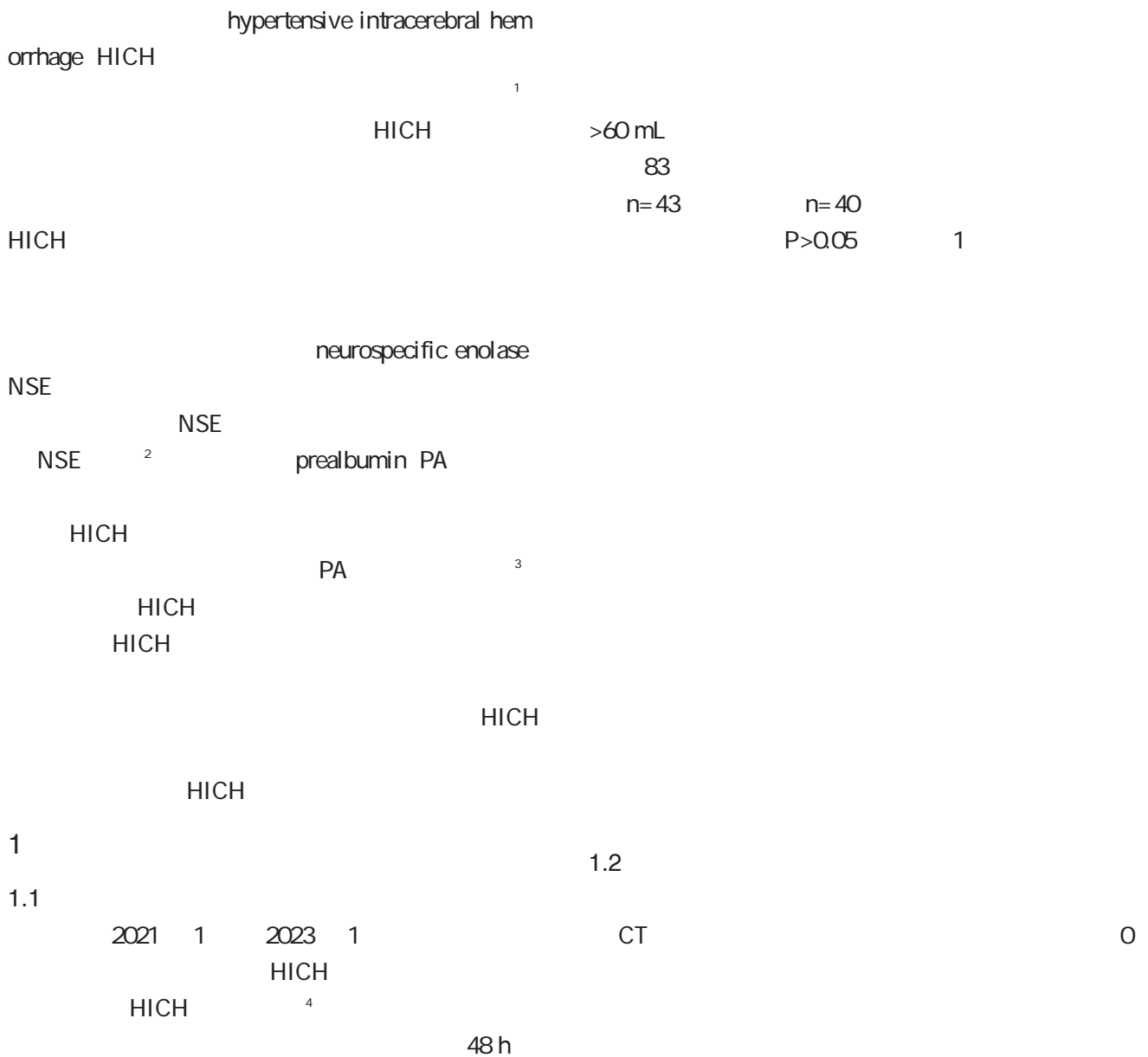
YE Liangliang ZHOU Litian JIAO Lei DING Junhong YU Qian LIU Weijun YANG Pinglai

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ABSTRACT Objective To explore the effects of different surgical methods on perioperative indicators serum neurospecific enolase NSE and prealbumin PA levels neurological function and postoperative complications in patients with hypertensive intracerebral hemorrhage HICH in the basal ganglia region. Methods The data of 83 patients with HICH in the basal ganglia region who received surgical treatment in Nanjing Lishui People s Hospital from January 2021 to

NIHSS scores in the endoscopic group were significantly lower than those in the craniotomy group on day 7 after surgery and the differences were statistically significant $t=3.775$ 10.113 $P<0.05$. Serum PA in the two groups were significantly higher on day 7 after surgery than before surgery and the differences were statistically significant $t=-13.077$ -9.189 $P<0.05$. Serum PA in the endoscopic group was significantly higher than that in the craniotomy group on day 7 after surgery than before surgery and the difference was statistically significant $t=3.541$ $P<0.05$. The total incidence of postoperative complications in the endoscopic group was 9.30% significantly lower than 30.00% in the craniotomy group and the difference was statistically significant $\chi^2=5.705$ $P<0.05$. Conclusion Navigation assisted neuroendoscopic hard channel minimally invasive surgery for treating HICH in the basal ganglia region has the characteristics of minimally invasive efficient good postoperative neurological recovery and fewer complications which is more advantageous than small bone window craniotomy hematoma removal.

KEY WORDS Basal ganglia region Hypertensive intracerebral hemorrhage Neuroendoscope Navigation Small bone window hematoma removal Neurospecific enolase Prealbumin



1.3

1.3.1

100% = CT / ICU × 6

1.3.2 NSE PA

7 d 5 mL NSE R&D Systems Inc. PA 7600

1.3.3

7 d National Institutes of Health Stroke Scale NIHSS 0-42 7

1.3.4

1.4

SPSS 25.0 x±s t n % χ² P<0.05

2

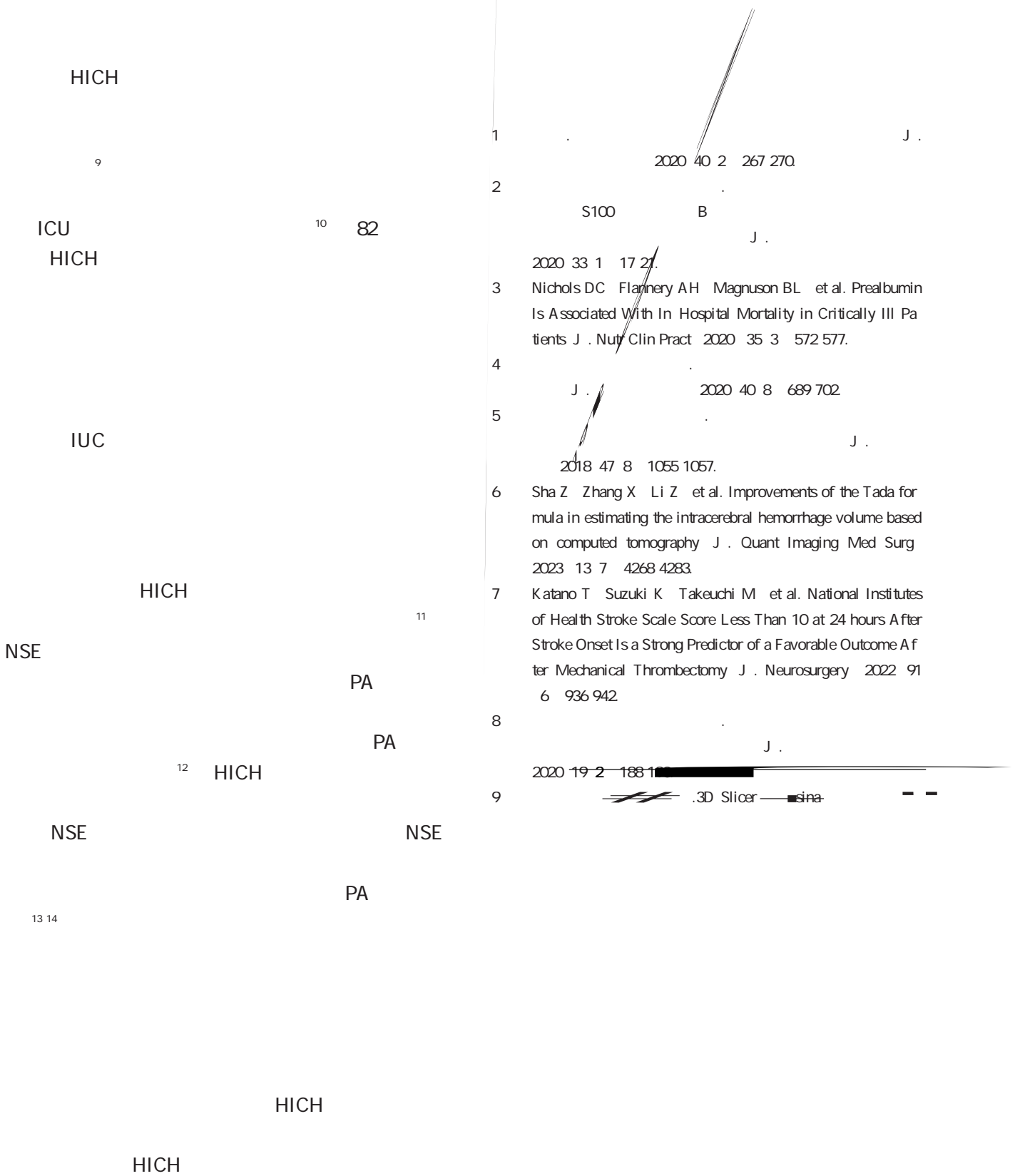
2.1

P<0.05 ICU 2

2.2

1 " NSE PA NSE PA P>0.05 7 d NSE PA

P



months and 12 months after surgery and the VAS scores of the observation group were lower than those of the control group at all time periods after surgery the difference was statistically significant $P < 0.05$. The levels of BALP PTH and N MID OT in both groups decreased after operation and the levels of BALP PTH and N MID OT in the observation group were lower than those in the control group the difference was statistically significant $P < 0.05$. Comparing the total incidence of adverse reactions between the two groups the difference was not statistically significant the difference was statistically significant $P > 0.05$ but the incidence of re fracture in the observation group 7.28% was significantly lower than that in the control group 25.00% the difference was statistically significant $P < 0.05$. Conclusion Alendronate sodium adjuvant PVP therapy can effectively improve the vertebral function of elderly patients with osteoporotic compression fractures reduce their pain improve the levels of BALP PTH and N MID OT in patients and promote their postoperative recovery.

KEY WORDS Alendronate Percutaneous vertebroplasty Osteoporotic compression fracture Bone alkaline phosphatase Parathyroid hormone N MID OT

	L ₁ 21	L ₂ 6	L ₃ 6	T ₁₀ 2
1				
	T ₁₁ 4	T ₁₂ 16		
	P > 0.05			
2				5
	Percutaneous vertebroplasty PVP			CT
3				
PVP				60
	PVP			
4				
	Bone alkaline phosphatase BALP			
	Parathyroid Hormone PTH			
				1.2
	PVP		PVP	6
BALP PTH N			D3 600 mg	PVP
Osteocalcin N MID OT		N end middle	H20183358	600 mg
1				
1.1				70 mg
				H10980109
	2019 1	2022 2		70 mg
				3
				12
107				
				2023 2
	PVP n=52			
	PVP n=55	22	30	1.3
	62.49±7.25		L ₁	1.3.1
20	L ₂ 7	L ₃ 5	T ₁₀ 1	
	23	32	T ₁₁ 3	
			T ₁₂ 16	
			62.82±7.29	
				Oswestry
				try Disability Index questionnaire ODI ⁷

2 6 12
5 50
1.3.2
VAS^a
visual analogue scale
2 6 12
10 0 10

Table 1 Comparison of ODI scores between the two groups

n	ODI			
	$\bar{x} \pm s$ points			
	2	6	12	
52	39.56±6.37	35.18±5.73 ^a	29.89±5.19 ^a	25.83±4.76 ^a
55	38.12±6.24	30.41±5.49 ^a	21.56±4.32 ^a	16.53±4.20 ^a
t	1.064	3.965	8.157	9.678
P	0.290	<0.001	<0.001	<0.001

^aP<0.05

1.3.3
5 mL
10 min
Elecsys
10 cm
3 000 r/min
- 20
BALP PTH
N MID OT
1.3.4
CT

Table 2 Comparison of VAS scores between the two groups

n	VAS			
	$\bar{x} \pm s$ points			
	2	6	12	
52	7.92±1.38	3.96±1.78 ^a	2.27±0.53 ^a	2.85±0.69 ^a
55	7.54±1.26	3.17±1.02 ^a	1.61±0.39 ^a	1.99±0.32 ^a
t	1.338	2.561	6.646	7.539
P	0.184	0.012	<0.001	<0.001

^aP<0.05

1.4
SPSS 18.0
 $\bar{x} \pm s$
n %
0.05
2
2.1 ODI
2 6 12 ODI
ODI
P<0.05 1
2.2 VAS
2 6 12 VAS
VAS
P<0.05 2

2.3
BALP PTH N MID OT
BALP PTH N MID OT
P<0.05 3
2.4
P>0.05 7.28%
25.00% P<
0.05 4

3 BALP PTH N MID OT
Table 3 Comparison of BALP PTH and N MID OT levels between the two groups

n	BALP U/L		PTH pg/mL		N MID OT ng/mL	
	$\bar{x} \pm s$		$\bar{x} \pm s$		$\bar{x} \pm s$	
52	52.49±8.35	30.78±6.73 ^a	475.51±106.04	318.22±87.03 ^a	1.30±0.42	0.89±0.21 ^a
55	50.97±8.21	23.46±5.49 ^a	472.50±104.03	234.36±56.04 ^a	1.19±0.38	0.66±0.14 ^a
t	0.855	5.575	1.312	18.548	1.278	6.048
P	0.395	<0.001	0.193	<0.001	0.205	<0.001

^aP<0.05

4 n %

Table 4 Comparison of adverse reactions and incidence of refractures between the two groups n %

	n		n		%		%				
	52	3	5.76	3	5.76	1	1.92	7	13.46	13	25.00
	55	2	3.64	3	5.45	1	1.82	6	10.91	4	7.28
χ^2								0.590		6.133	
P								0.443		0.013	

MMIF IL 6 PTH

PTH MMIF 6 IL 6
2020 6 2022 4

134 Logistic Pearson

MMIF IL 6 PTH 134 112

83.58% 22 16.42%

P>0.05 MMIF

IL 6 PTH P<0.05 Logistic

MMIF 2 ng/mL IL 6>10.0 pg/L PTH 15 pg/mL

P<0.05 Pearson MMIF IL 6 PTH

P<0.05 MMIF IL 6 PTH

MMIF IL 6 PTH

Correlation between postoperative serum MMIF IL 6 and PTH levels and postoperative hypoparathyroidism after papillary thyroid cancer surgery

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ABSTRACT Objective To analyze the correlation between serum levels of macrophage movement inhibitory factor MMIF interleukin 6 IL 6 and parathyroid hormone PTH levels with hypoparathyroidism after surgery for papillary thyroid cancer. Methods 134 patients diagnosed with papillary thyroid carcinoma in our hospital and underwent total thyroidectomy and central cervical lymph node dissection from June 2020 to April 2022 were selected as the study objects. The incidence of postoperative hypoparathyroidism was analyzed. Single factors affecting patients with hypoparathyroidism were analyzed and multiple Logistic regression was used to analyze the risk factors affecting hypoparathyroidism. Pearson correlation coefficient was used to analyze the correlation between serum MMIF IL 6 PTH after surgery and hypoparathyroidism. Results Among the 134 patients 112 83.58% had normal parathyroid function and 22 16.42% had hypoparathyroid function after surgery. There was no significant difference in age sex and tumor diameter between the two groups P>0.05 . There were significant differences in tumor location central lymph node dissection location and number combined Hashimoto thyroiditis and postoperative serum MMIF IL 6 and PTH levels between the two groups P<0.05 . Multiple Logistic regression analysis showed

that the tumor was in the dorsal membrane combined with Hashimoto thyroiditis combined with postoperative serum MMIF 2 ng/mL IL 6 >10.0 pg/L PTH 15 pg/mL were the risk factors affecting hypoparathyroidism P<0.05 . According to Pearson correlation analysis showed that serum MMIF IL 6 and PTH levels were positively correlated with hypoparathyroidism P<0.05 . Conclusion The level of serum MMIF IL 6 and PTH can be used to predict whether the parathyroid function is decreased after the operation of papillary thyroid cancer which provides a reliable basis for clinical treatment

KEY WORDS MMIF IL 6 PTH Thyroid papillary carcinoma Hypoparathyroidism

1.2
 1.2.1 MMIF IL 6 PTH
 8 mL
 8 cm HT12MM
 2 000 r/min 5 min
 MMIF
 iMark
 COBSE 601
 IL 6
 23 Macrophage move PTH
 ment inhibitory factor MMIF 6 Interleu
 kin 6 IL 6 4 Cobas e601
 Parathyroid hormone PTH 5
 MMIF IL 6 PTH
 1.2.2
 1 <21 mmol/L 7
 1.3
 Logistic
 Pearson MMIF
 1.1 IL 6 PTH
 2020 6 2022 4
 134
 22 112 20-74
 47.12±11.56
 SPSS 21.0
 X ± s t
 n % χ^2
 Logistic
 Pearson MMIF
 IL 6 PTH P<
 0.05
 2
 2.1
 134 112
 83.58% 22 16.42%
 2.2

		n % $\bar{x} \pm s$	
Table 1 Univariate analysis of factors affecting hypoparathyroidism		n %	$\bar{x} \pm s$
		n=22	n=112
55		15 68.18	89 79.46
>55		7 31.82	23 20.54
/		5/17	17/95
	cm		
1		9 40.91	55 49.11
>1 cm		13 59.09	57 50.89
		17 77.27	59 52.68
		9 40.91	39 34.82
		3 13.64	46 42.07
		19 86.36	66 58
10	"	12 54.54	
<10	"	10 45.45	
	"	14 63.64	
MMIF ng/mL	"	2.59±0.62	9
IL 6 ng/L	"	15.45±0.62	9
PTH pg/mL	"	19.62±4.33	

IL 6

IL 6

IL 6

¹⁴ MMIF T

¹⁵ PTH

¹⁶

PTH

PTH

¹⁷ MMIF IL 6 PTH

MMIF IL 6 PTH

MMIF

NLR CRP/ALB

1 2 1

CRP/ALB 118 ICU 2021 1 2022 12 NLR C / 35

83

Logistic ALB NLR Pearson ASA T₄ TSH FT₄ CRP/ALB NLR CRP/

0.05 P<0.05 Logistic T₃ FT₃ CRP/ALB NLR 60 T₃<1.31 nmol/L P<0.05

FT₃<5.15 pmol/L CRP/ALB>0.120 NLR 7.79 P>0.05 T₃ FT₃ P<

0.05 Pearson T₃ FT₃ CRP/ALB NLR CRP/ALB NLR

*** P<0.05 T₃ FT₃ CRP/ALB NLR

NLR CRP/ALB

Relationship between serum thyroid hormone NLR and CRP/ALB and delirium after lung cancer surgery

SHANG Mingxu¹ WEI Lijuan² SHI Ruochun¹

Z2211000029033

1. 100007

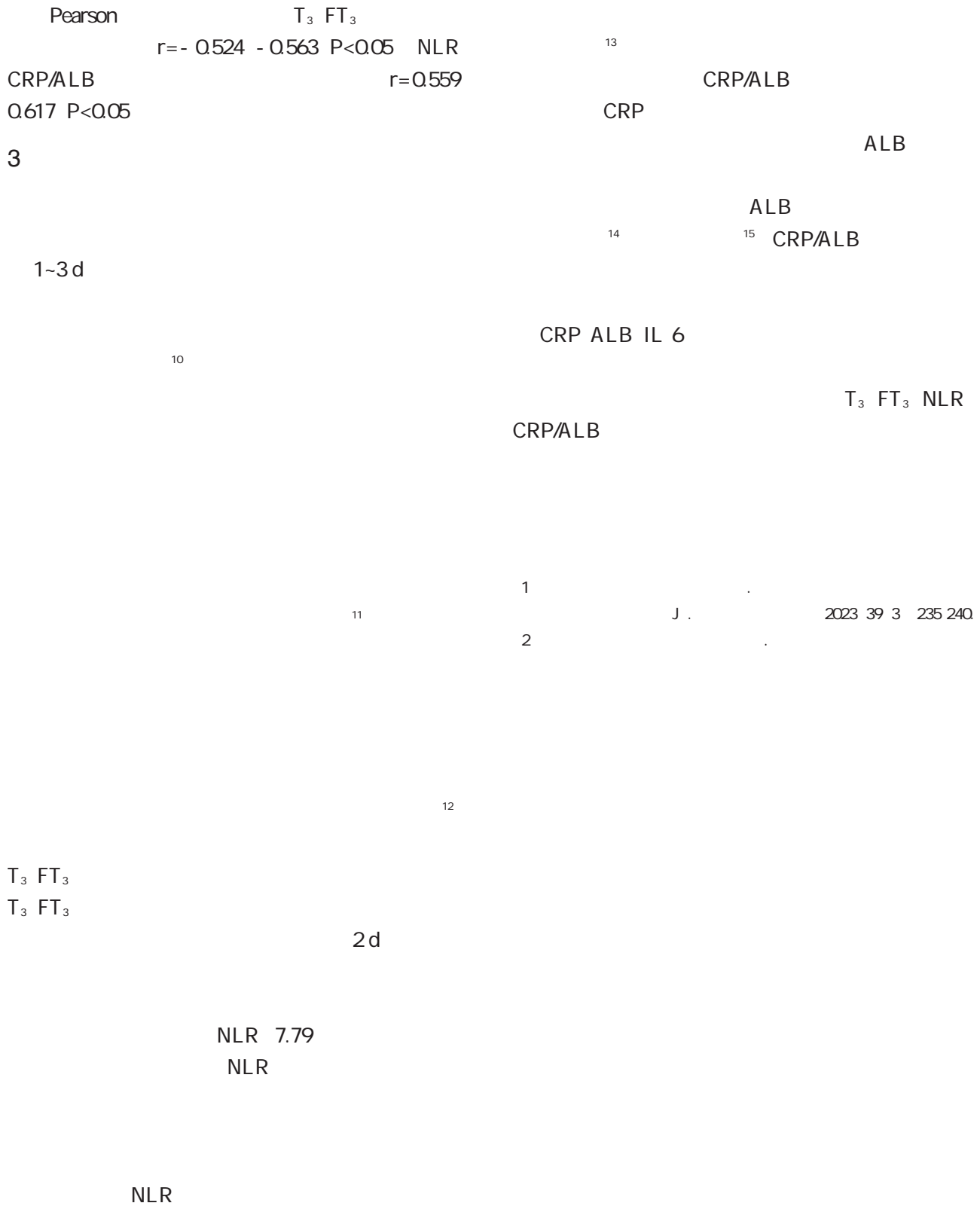
2. 100007

E mail m19525496961@163.com

There were no significant differences between the two groups in terms of sex, age, T4 levels and other indicators ($P > 0.05$). However, there were statistically significant differences in sleep disturbance and T3, FT3, CRP/ALB, and NLR levels between the two groups. Logistic regression analysis showed that age ≥ 60 years old, combined with diabetes, sleep disturbance, FT3 < 5.15 pmol/L, CRP/ALB > 0.120 , and NLR > 7.79 were all risk factors for postoperative delirium ($P < 0.05$). When comparing the T4, TSH, and FT4 levels in patients with mild and moderate delirium, there was no statistically significant difference ($P > 0.05$). However, the levels of T3 and FT3 in patients with mild delirium were higher than those in patients with severe postoperative delirium, and the levels of CRP/ALB and NLR were lower than those in patients with severe postoperative delirium ($P < 0.05$). According to Pearson correlation analysis, T3 and FT3 were negatively correlated with postoperative delirium in lung cancer patients, and CRP/ALB and NLR were positively correlated with postoperative delirium in lung cancer patients ($P < 0.05$). Conclusion: There is a correlation between postoperative T3, FT3, CRP/ALB, and NLR levels in lung cancer patients undergoing surgery and the occurrence of postoperative delirium. Detecting the levels of these indicators can provide data for clinically evaluating the severity of postoperative delirium.

KEY WORDS: Serum thyroid hormone, NLR, CRP/ALB, Postoperative delirium, Lung cancer

2.4 NLR CRP/ALB



cutaneous malignant mela 1
noma CMM 1.1
3% CMM
1 IV CMM 5
4.6%² CMM
2021 7 2022 6
CMM 120 CMM
CMM³
CMM⁸
RNA microRNA miRNA 18
RNA RNA
4 5
miRNA
RNA 211 microRNA 211
miR 211 miR 211
6 RNA 128
microRNA 128 miR 128
miRNA miR 128
7
CMM miR 211 miR 128
CMM

PCR
1.3
miR 211 miR 128
cDNA
miR 211 miR 128

Ki 67
miR 211 miR 128
9

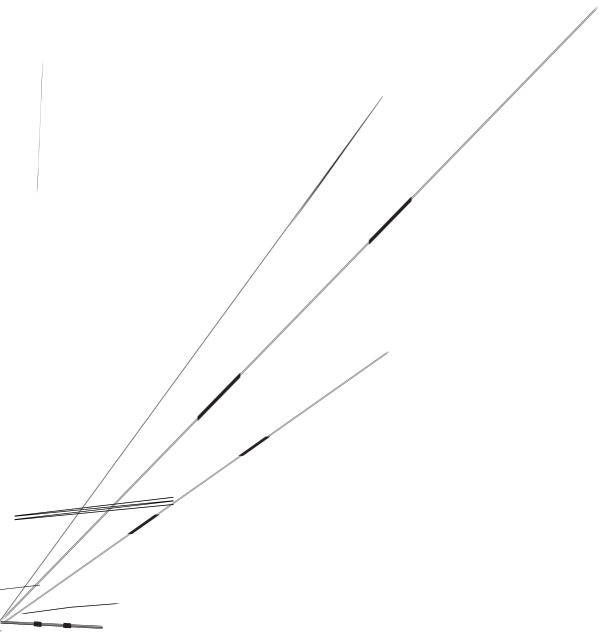
miR 211 miR 128
1.4

SPSS 24.0



-

-



=1 miR 211 ~
 miR 128 miR 211 miR 128
 Logistic P<0.05 3
 2 n %

Table 2 Comparison of clinical data between remission group and non remission group n %

	n	n=82	n=38	χ^2	P
	68	47 57.32	21 55.26	0.045	0.833
	52	35 42.68	17 44.74		
<60	71	51 62.20	20 52.63	0.983	0.321
60	49	31 37.80	18 47.37		
	11	6 7.32	5 13.16	1.555	0.459
	25	16 19.51	9 23.68		
	84	60 73.17	24 63.16		
<2 cm	44	27 32.93	17 44.74	1.560	0.212
2 cm	76	55 67.07	21 55.26		
	15	15 18.29	0 0.00	8.062	0.018
	82	53 64.63	29 76.32		
	23	14 17.07	9 23.68		
	45	28 34.15	17 44.74	1.243	0.265
	75	54 65.85	21 55.26		
	32	12 14.63	20 52.63	19.171	<0.001
	88	70 85.37	18 47.37		
	77	46 56.10	31 81.58	7.333	0.007
	43	36 43.90	7 18.42		
~	49	43 52.44	6 15.79	14.436	<0.001
~	71	39 47.56	32 84.21		
Ki 67 % <30	39	32 39.02	7 18.42	5.025	0.025
30	81	50 60.98	31 81.58		
	79	58 71.95	20 52.63	4.309	0.038
	41	23 28.05	18 47.37		
	52	38 46.34	14 36.84	0.954	0.329
	68	44 53.66	24 63.16		

3 CMM

Table 3 Analysis of risk factors affecting the efficacy in patients with CMM

	β	SE	Wald χ^2	OR	95% CI	P
=0 =1 =2	-0.565	0.331	2.914	0.568	0.297-1.087	0.088
=0 =1	0.822	0.406	4.099	2.275	1.027-5.042	0.043
=0 =1	0.972	0.385	6.374	2.643	1.243-5.622	0.012
~ =0 ~ =1	1.106	0.412	7.206	3.022	1.348-6.777	0.007
Ki 67 <30=0 30=1	0.762	0.554	1.892	2.143	0.723-6.346	0.169
=0 =1	-0.944	0.608	2.411	0.389	0.118-1.281	0.120
miR 211 =0 =1	0.792	0.304	6.787	2.208	1.217-4.006	0.009
miR 128 =0 =1	0.865	0.399	4.700	2.375	1.086-5.192	0.030

3

miR 211 XP11.3 miRNA 211
 NFAT5 IGF2R TGFBR2 miRNA 211
 90% 86.2%
 miR 211
 CMM miR 211
 Babapoor
 miRNA 211

miR 211

miR 211 1

MMP 16 miR 211 16 mRNA J . 2022 37 5 470 474.

miR 211 2

miR 211 miR 211 J . 2022 44 10 1146 1154.

miR 128 2q21.3 3p22.3 3

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miR 128 miR 128 11 . miRNA 211

3 UTR CCL18 CCL18 12 J . 2016 49 9 630 635.

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miR 128 miR 128 14 RNA 128 J . 2022 37 6 104 109.

miR 128 CMM miR 211 miR 128 15 CCL18 miRNA J . 2017 50 9 631 635.

177

11 J . 2023 44

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2 197 200. 14 . MAFLD

12 J . 2021 18 5 397

404.

13 2022 28 4 684 689. 15 NLR CD64

Mountziou G Samantas E Senghas K et al. P75.04 Advanced Lung Cancer Inflammation Index ALI Neutrophil CRP/AIb J . 2022 17 7 840 843.

ESR PCT IL 8

PCT 8 IL 8 AECOPD 2018 5 2021 7 ESR
 78 AECOPD AECOPD 31
 28 19 ESR PCT IL 8
 AECOPD ESR PCT IL 8
 > > F=100.904 163.469 45.916 P<0.05 ESR PCT
 IL 8 AECOPD r=0.404 0.381 0.295 P<0.05 ESR PCT IL 8
 t=4.961 7.892 6.535 P<0.05 AECOPD AUC
 IL 8 AECOPD AUC ESR P<0.05 AECOPD
 ESR PCT IL 8 8

Changes of ESR PCT and IL 8 and value of combined detection in patients with acute exacerbation of chronic obstructive pulmonary disease

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ABSTRACT Objective To explore the changes of erythrocyte sedimentation rate ESR procalcitonin PCT and interleukin 8 IL 8 and the value of combined detection in patients with acute exacerbation of chronic obstructive pulmonary disease AECOPD . Methods A total of 78 patients with AECOPD in Tianchang Hospital of Traditional Chinese Medicine People's Hospital were enrolled as research subjects between May 2018 and July 2021. According to the severity of AECOPD they were divided into the mild group with out respiratory failure 31 cases the moderate group acute respiratory failure no life threatening 28 cases and the severe group acute respiratory failure life threatening 19 cases . The levels of ESR PCT and IL 8 among the three groups were compared and their correlation with disease severity was analyzed. All patients were given symptomatic treatment. According to therapeutic efficacy the patients were divided into the effective group and the ineffective group. The evaluated value of combined detection with different indicators for disease severity and clinical efficacy was analyzed. Results With the aggravation of the disease levels of ESR PCT and IL 8 were increased in AECOPD patients and the levels were shown as severe group > moderate group > mild group F=100.904

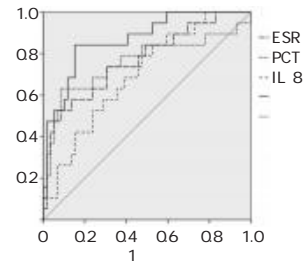
IL-8 in the ineffective group were higher than those in the effective group $t=4.961$ 7.892 6.535 $P<0.05$. The AUC of combined detection for evaluating the severity of AECOPD was greater than that of IL-8 alone and the AUC for evaluating the severity of AECOPD was greater than that of ESR alone $P<0.05$. Conclusion The levels of ESR, PCT and IL-8 are related to disease severity in AECOPD patients and they have evaluated value on disease severity and therapeutic efficacy.

KEY WORDS Chronic obstructive pulmonary disease Acute exacerbation Erythrocyte sedimentation rate Procalcitonin Interleukin 8

Chronic obstructive pulmonary disease COPD

COPD
Acute aggravation of COPD AECOPD

$\bar{x} \pm s$ t
 ROC ESR PCT IL 8
 AECOPD spearman
 ESR PCT IL 8 AECOPD
 P<0.05



2
 2.1 AECOPD ESR PCT
 IL 8
 ESR PCT IL 8
 > >
 P<0.05 1

1 ESR PCT IL 8 AECOPD ROC
 Figure 1 ROC curves of ESR PCT and IL 8 levels on evaluating AECOPD severity

1 AECOPD ESR PCT IL 8
 $\bar{x} \pm s$

2.3 ESR PCT IL 8 AECOPD

Table 1 Comparison of levels of ESR PCT and IL 8 in patients with different AECOPD severities $\bar{x} \pm s$

ESR r=0.404 PCT r=0.381 IL 8 r=0.295
 AECOPD P<0.05

	n	ESR min/h	PCT ng/mL	IL 8 μ g/mL
	19	34.09 \pm 5.39	8.67 \pm 1.53	10.35 \pm 2.06
	28	27.53 \pm 4.16 ^a	6.29 \pm 1.12 ^a	8.12 \pm 1.58 ^a
	31	15.98 \pm 4.67 ^{ab}	3.15 \pm 0.69 ^b	6.09 \pm 1.16 ^{ab}
F		100.904	163.469	45.916
P		<0.001	<0.001	<0.001

2.4 ESR PCT IL 8

2.2 ESR PCT IL 8 AECOPD
 ROC AECOPD
 AUC IL 8 P<0.05
 2 1

51 27 ESR PCT
 IL 8 P<0.05
 3

2 ESR PCT IL 8 AECOPD
 Table 2 Evaluated value of ESR PCT and IL 8 levels on severity of AECOPD

	AUC	SE	95% CI	P
ESR	32.56 min/h	0.772 ^a	0.066 0.643-0.900	0.579 0.864 <0.001
PCT	8.13 ng/mL	0.758 ^a	0.076 0.609-0.908	0.632 0.915 0.001
IL 8	7.96 μ g/mL	0.698 ^a	0.065 0.570-0.826	0.842 0.475 0.010
		0.869 0.047	0.777-0.960	0.842 0.848 <0.001

2.5 ESR PCT IL 8 AECOPD

ROC AECOPD
 AUC ESR PCT IL 8
 P<0.05 4 2
 4 ESR PCT IL 8 AECOPD

Table 4 Evaluated value of ESR PCT and IL 8 levels after treatment on clinical efficacy of AECOPD

	AUC	SE	95% CI	P
ESR	17.89 min/h	0.726 ^a	0.060 0.608-0.844	0.593 0.784 0.001
PCT	3.52 ng/mL	0.837 ^a	0.053 0.734-0.941	0.667 0.922 <0.001
IL 8	6.01 μ g/mL	0.865 ^a	0.050 0.768-0.962	0.815 0.843 <0.001
		0.960 0.022	0.918-1.000	0.963 0.863 <0.001

3 ESR PCT IL 8 $\bar{x} \pm s$
 Table 3 Comparison of ESR PCT and IL 8 levels before and after treatment between effective group and ineffective group $\bar{x} \pm s$

	n	ESR min/h	PCT ng/mL	IL 8 μ g/mL
	27	25.13 \pm 4.67	19.03 \pm 3.26 ^a	5.31 \pm 1.19 4.10 \pm 0.76 ^a 7.55 \pm 1.27 6.58 \pm 1.32 ^a
	51	24.22 \pm 5.03	16.35 \pm 3.04 ^a	5.79 \pm 1.31 3.18 \pm 0.49 ^a 8.02 \pm 1.09 5.07 \pm 0.85 ^a
t		0.779	4.961	1.588 7.892 1.710 6.535
P		0.439	<0.001	0.116 <0.001 0.091 <0.001

^aP<0.05

PCT IL 8 AECOPD
PCT IL 8 AECOPD ESR
PCT IL 8

AECOPD AECOPD IL 8

12

AECOPD COPD

3

AECOPD

13

ESR PCT IL 8 5 F

AECOPD

6

ESR

7

ESR

8

COPD

ESR

AECOPD

9

ESR

ESR

AECOPD

AECOPD

10 PCT

PCT

IL 8

COPD

11

• •

AUC is 0.976. Conclusion The specificity and sensitivity of the regression model constructed with NO GR IL 6 combined with cTnl and CK MB in the diagnosis of VMC are significantly higher than other single indicators. It can provide a powerful basis and assistance for clinicians to diagnose VMC in children as early as possible.

KEY WORDS Children Viral myocarditis Nitric oxide Glutathione reductase IL 6 Model

Viral myocarditis VMC

VMC 1

2

VMC

6 Interleukin 6 IL 6

Glutathione reductase GR

Nitric oxide NO

)

2.2

VMC
 cTnl 0.907
 IL 6 0.912 ROC the area under the
 ROC curve AUC NO 0.883 3
 VMC IL 6
 VMC IL 6
 VMA NO
 VMC INF TNF
 iNOS
 NO NO

2.3

ROC
 cTnl CK MB GR
 NO IL 6 5 5
 $\text{logit } P = 20.102 + 0.157 \cdot \text{Ctnl} +$
 $0.218 \cdot \text{CK MB} + 0.462 \cdot \text{NO} + 0.354 \cdot \text{IL 6} + 0.368 \cdot \text{GR}$
 ROC VMC
 AUC 0.976 1
 0.55 0.977
 0.982 0.959

3

IL 6

16
5 cTnI CK MB GR NO IL 6
AUC
15 A 3
AUC
17 hs CRP TNF
VMC AUC 18 CK MB
cTnI IL 1 O
NO GR IL 6
NO GR IL 6 cTnI CK MB
VMC
VMC
1
J .

NLRP3 SAA NF B

3 NLRP3 A SAA
 2020 6 2022 6
 n=19
 NF B 70
 n=51 NLRP3 SAA NF B
 NLRP3 SAA NF B P<0.05 NLRP3 SAA
 NF B < < P<0.05
 NLRP3 SAA NF B P<0.05 ROC
 NLRP3 AUC 0.634 63.43% 67.40%
 114.02 pg/mL SAA AUC 0.715 73.50% 69.00%
 30.99 mg/L NF B AUC 0.914 81.40%
 70.00% 38.27 μg/mL P<0.05
 NLRP3 SAA NF B
 3 A

Expression and clinical significance of NLRP3 SAA and NF B in serum of patients with craniocerebral infection after craniocerebral injury

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ABSTRACT Objective To study expression and clinical significance of NOD like receptor protein 3 (NLRP3), Amyloid A (SAA) and Nuclear Transcription factor (NF B) in serum of patients with craniocerebral infection after craniocerebral injury. Methods 70 patients with craniocerebral injury admitted to the People's Hospital of Rugao City, Jiangsu Province from June 2020 to June 2022 were selected as the study subjects. They were divided into an infected group (n=19) based on their infection status and an uninfected group (n=51) as the control group. Serum NLRP3, SAA and NF were analyzed. The diagnostic value of B in postoperative craniocerebral infection after craniocerebral injury surgery. Results The levels of NLRP3, SAA and NF B in infected group were significantly higher than those in control group and the difference was statistically significant (P<0.05). NLRP3, SAA and NF B levels were statistically significant in patients with mild infection < moderate infection < severe infection (P<0.05). The levels of NLRP3, SAA and NF B in poor prognosis group were significantly higher than those in good prognosis group and the difference was statistically significant (P<0.05). ROC results showed that the AUC of serum NLRP3 was 0.634, the sensitivity was 63.43%, the specificity was 67.40% and the cut off value was 114.02 pg/mL. The AUC of serum SAA for

predicting craniocerebral infection after craniocerebral injury was 0.715 the sensitivity was 73.50% the specificity was 69.00% and the cut off value was 30.99 mg/L. The AUC of serum NF B for predicting craniocerebral infection after craniocerebral injury was 0.914 the sensitivity was 81.40% the specificity was 70.00% and the truncation value was 38.27 μ g/mL. The specificity and accuracy of combined detection were higher than that of single detection $P<0.05$. Conclusion Serum NLRP3 SAA and NF B are all abnormally high in patients with craniocerebral infection after craniocerebral injury and the combined detection of craniocerebral infection after craniocerebral injury has higher diagnostic efficacy. This study also provides a new idea for the clinical treatment of craniocerebral infection after craniocerebral injury and has high clinical application value.

KEY WORDS NOD like receptor protein 3 Amyloid A Nuclear transcription factor Craniocerebral injury Brain infection

0.914 81.40% 70.00%
38.27 µg/mL
P<0.05 4 1

2.2 NLRP3 SAA NF B

NLRP3 SAA NF B <
< P<0.05
2

3

2.3 NLRP3 SAA NF B
NLRP3 SAA NF B
P<
0.05 3

8

9

NLRP3

NLRP3

10

NLRP3

2.4 NLRP3 SAA NF B

11

ROC NLRP3
AUC 0.634 63.43%
67.40% 114.02 pg/mL SAA
AUC 0.715
73.50% 69.00% 30.99 mg/L
NF B AUC

miR 100

1 2

miR 100

100 miR 100 # " " 100 miR 100

miR 100

New progress in the research of miR 100 in human cancer

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ABSTRACT The expression of miR 100 is severely dysregulated in various human cancers and plays an important role in cell metabolism cycling migration epithelial mesenchymal transition and differentiation. Its dysregulated expression is also closely ep G p of eG _

2021R3113

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C666 1 SUNE1
miRNA
miR 100 HOXA1
Wnt/ catenin
6
miR 100
miR 100
7
miR 100
H727 UMC11 miR 100
mTOR RNA TORC1
8
miR 100 FOXA1
9 miR
100 5p
10 miR 100
miR 100
11
miR 100
miR 100
CXCR7 miR 100
U :

- 9 Xie H Xiao R He Y et al. MicroRNA 100 inhibits breast cancer cell proliferation invasion and migration by targeting FOXA1 J

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