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Volume 12 Number 8 August 2020

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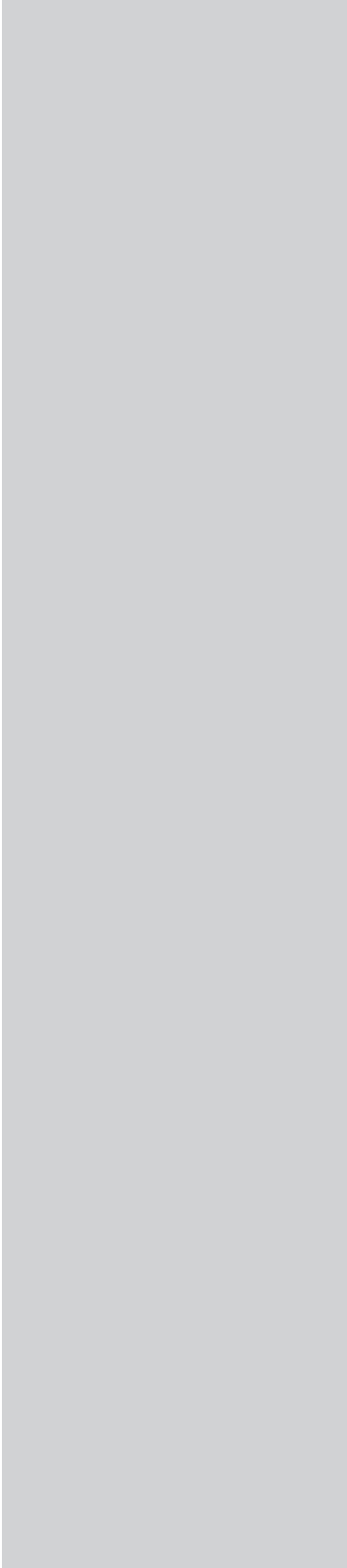
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分子诊断与治疗杂志

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Monthly Volume 12 Number 8 August 2020

AMLRCLRQ

COMMENTS

Research advances of germline predisposition factors of myeloid neoplasms

NIE Daijing WANG Fang ZHOU Xiaosu LIU Ming LI Mianyang LIU Hongxing 987

ORIGINAL ARTICLES

Establishment of industry standards for fetal chromosome aneuploidy including trisomy 21 trisomy 18 and trisomy 13 Next Generation Sequencing

ZHANG Wenxin YU Ting SUN Nan CHEN Yangyi GAO Fei HUANG Jie QU Shoufang 991

Preimplantation genetic diagnosis of Marfan syndrome using next generation sequencing

HE Tianwen LU Jian CHEN Chuangqi LIU Dun DING Hongke DONG Yunqiao DU Li YIN Aihua 995

The value of T cadherin expression in predicting the prognosis of gastric cancer after radical operation

LI Lixin CAI Cuifang LI Wenxiang SHI Lei PU Jing 1001

Establishment the protocol of CD34⁺ cell percentage and absolute counting by E6 flow cytometer

FU Xiaoying ZHANG Xiaoling LIU Mengtong YU Yue CHEN Shiyang PENG Dong KUANG Yaxian

LIU Sixi CHEN Yunsheng 1005

Expression and significance of serum TK1 and E cadherin in children with acute lymphoblastic leukemia

XING Dongwen ZHANG Yuzhuan LIN Jian LIN Lufei 1010

Expression level and clinical significance of circRNA in cancer tissues and serum of patients with non small cell lung cancer

YANG Guangquan ZHANG Qianshi FAN Xigang WU Fei 1014

Study on the value of combined diagnosis of acute myocardial infarction by CK MB /cTnl /coronary angiography and electrocardiogram

CHANG Lin CHANG Peiyun LIU Juan 1018

Correlation of miR 126 and miR 96 with platelet activation and short term prognosis in patients with acute myocardial infarction

LIU Hanyi DU Xiaojie WANG Jinqiang FENG Guiwen 1022

Study on the diagnosis and prediction of hypertension with atrial fibrillation by RDW

QIU Cunxin HU Jianping, YU Lin, ZHOU Enping 1026

The expression and significance of serum Lp PLA2 and CD147 in patients with carotid atherosclerosis

TAN Hong ZHU Hongxia ZHANG Keshuai 1030

Relationship between hs CRP NF κB VCAM 1 and the condition and prognosis of ischemic cerebrovascular disease

LI Zhanzeng REN Yingqiao WU Shuling LU Yanhui GUO Jia 1034

Expression of prealbumin and procalcitonin in neonatal hyperbilirubinemia and its correlation with myocardial enzyme spectrum

WANG Lingzhi JIA Wenting ZHANG Miaomiao 1039

Application of serum inhibin A combined with placental growth factor in prenatal screening of Down s syndrome in early pregnancy

HUANG Xuezheng CHEN Qianlan CAI Jinmei SUN Lili 1044

Analysis of the relationship between SATB1 expression and chemotherapy resistance and prognosis in nasopharyngeal carcinoma

YANG Heqiang LIU Wenfeng HU Yue 1047

Predictive value of TGF β 1 and Treg cell count in umbilical cord blood for bronchopulmonary dysplasia in preterm infants	
LIN Qingqing TAN Huihan WU Yongfang ZHU Wei HUANG Ying	1052
Evaluation value of axon growth inhibitory factor A and nuclear factor kB p65 on the condition and prognosis of patients with acute hypertensive cerebral hemorrhage	
YIN Yanxia SHANG Wen jun GUO Hua GAO Zhen SUN Xue	1056
Expression of CCL18 HIF 1 α and MIF mRNA in human gliomas and the value of prognostic assessment	
LV Chao SUN Huiyuan YAN Junfei	1060
The application value of CRP and PCT combined with pulmonary infection score in the diagnosis and prognosis of pulmonary infection in ICU	
HUANG Yang ZHANG Lei GUO Wei	1064
Correlation between serum levels of IL 6 IL 8 and IL 10 and coronary artery lesions in children with Mycoplasma pneumoniae infection and Kawasaki disease	
GUO Xuan SONG Yao Abreti Abuduhar	1069
Application value of combined detection of serum PAPP _A free β hCG and PLGF in the diagnosis of Down Syndrome in early pregnancy	
JIA Guangzhu WANG Henghui WANG Li YE Yuanhua	1073
Changes of Th1/Th2 and related cytokines IFN γ	

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ABSTRACT **Objective** To explore the value and advantage of next generation sequencing in preim-
 plantation genetic diagnosis of Marfan syndrome. **Methods** A Marfan syndrome family was screened for the
 FBN1 gene mutation site by exon capture sequencing in the medical genetics center of Guangdong Women and
 Children Hospital in October 2016. The screening results were verified by Sanger sequencing. **Results** b r f W k s r _
 r g m l q g r c u _ q g b c l r g d g c b , R f c a m b g FBN1 gene were selected as the target region. **Conclusion** The
 mutation site of FBN1 gene was identified. The results of next generation sequencing and Sanger sequencing were
 consistent. **Key words** FBN1 gene; next generation sequencing; Sanger sequencing; haplotypes; preim-
 plantation genetic diagnosis. **Results** There was a pathogenic mutation of FBN1 gene
 c.247 T>G in the male side. By direct sequencing and haplotype linkage analysis 1 m d r 3 f q _ q r m a w q r q m d

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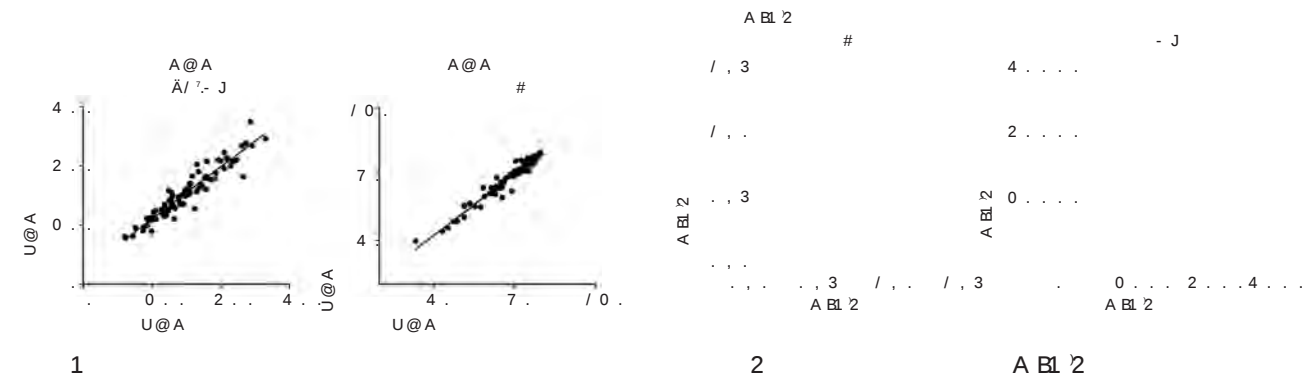
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g l @ j m m b K g a p m t h a n c c a c c k w _ q r c c k s q _ H K _ ` _ Q ,
H * & k _ g ` 4 Z T E B (N , 1 2 0 0 2 , 4 0 Z T A O r S Q f a d o _ Q n o p o # Ō \

LQAJA PL?agpaPL?
 n / . LQAJA
 agpaPL? n 24 LQAJA 24
 agpaPL? PMA agpaPLQAJA ?SA
 agpaPL? n
 agpaPL? / 6 / / 5 42
 agpaPL? LQAJA LQAJA agpaPL? / /
 / / / P>0.05 PMA
 agpaPLQAJA 6. , 21# 36 , 52.9# . , 530 LQAJA
 agpaPL? agpaPLQAJA agpaPL?
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 PL? PMA

CvnpcqqgmI jctcj_lba jglga_j qgelgdga_lac md agpaPL? gl a_lacp rgqqscq_lba
 qcpsk md n_rgcIrq ugrf lmlaqk_jj acjj jsle a_lacp
 W?LE Es_leos_l XF?LE Og_DI?dfVgg eUS Dcg
 Bcn_p rkclr mBclWl_alne jNpcFm q nBgrw_jQ g a f A f g 4 / 6 . . .

ABSTRACT Objective To explore the expression level and clinical significance of circular RNA
 agpaPL?mk a_lacp rgqqscq_lba qcpsk gl n_rgcIrq ugrf lmlaqk_jj acjj jsle a_lacp
 The pathological tissue specimens of NSCLC patients were collected, circRNAs with significant differential
 expression in cancer tissues and adjacent tissues were screened out, Volcano plot was drawn a js qVr cp_l_jw
 qqqu_qncpdmp k4bQAR Acnq α q24hd q_j_rlfw t m f s l and α pncjpcp m s nj car
 cb dmp agpaPL? bcr c argml , Rfc bg_eImqrga t_jsc md qcpsk agpaPL? ml L
 _lb rfc_pc_sl7bSA pur fcpac am p dcb , Rfc pcj_rgmIqfgn`cruccI qcpsk agpa
 _lb a jglga_j a f_p_ aResults g A total of 181 circRNAs with significant differential ex
 pression in cancer tissues and adjacent tissues were identified a j s b h d es n W p ces j _rcb cvnpcqqgmI q _l
 4 2nd bmulWpcesj_rcb , cvnpcqqgmIq , Rfc pcqs jr qmd t Wj a_lmep_nf_lba
 jw cvnpcqqcb agpaPL? a_lajc_pjw bgqrglesgqf LQAJA Va_lacp rgqqscq d
 npcqqgmI jctcj q gl LQAJA n_rgcIrq ugrf lmlaqk_jj acjj jsle a_lacp

Conclusion There are significant differences in the expression of circRNA in NSCLC cancer tissues and adjacent tissues, Serum circRNA has a good diagnostic value for NSCLC

KEY WORDS Lm l q k _ j j a c j j A g j p s a l s e j a A p l f a c p p Q g c p s M A a s p t c

/

L m l q k _ j j a c j j

j s l e a l Q A J A

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L Q A J A

n

L Q A J A

P L ? a g p a P L ?

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I a P L ?

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I a P L ?

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P L ? k g P L ?

k g P L ?

k P L ?

k g P L ?

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6 0 n A I Ŵ K @ G a R I / G
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6 / 4 5 . 1 1 0
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0 , 0 1 4 . . .
1 , 0 1 4 . . .
C F k _ j g g j s f s 0 _ 0 u 0 > 4 1 w , a m k

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a R I G

n A I W K @

/

n A I

A I W K @

C F k _g.gujd x 4 1 , a m k

$P < 0.05$, Q n c _ p k _ l _ l _ j w q g q q f m u 4 0 N ? A \hat{W} N ? f D c g l a g b c l a c m d A E
 _ l b g l a g b c l a 7 m d w k q ? A C q _ l c e _ r g t c j w 0 4 p b o n g g c b u g j r w k m p P \hat{W} c j _ r c b u g r f k
 7 4 $P < 0.05$, Conclusion The levels of miR26 and miR96 in peripheral blood of patients with AMI are
 significantly increased _ l b r f c w f _ t c _ e m m b a m p p c j _ r g m l u g r f n j _ r c j c r _ a r g t _ r g
 u f g a f a _ l ` c s q c b _ q _ b g d d c p c l r g _ j b g _ e l m q g q k _ p i c p d m p ? K G _ l b e s g b c
 KEY WMRDS ? a s r c k w m a _ p b g k _ j P \hat{W} 4 k g P \hat{W} N g m _ l r c j c r A 0 r 0 g n t _ r g m l
 N ? A \hat{W} N ? D

? a s r c k w m a _ p b g _ j g l d _ p a r g m l n # \hat{Y} i T		R _ ` / j a j g l g a 0 \hat{P} m s n n # m d \hat{Y} i T	
? K G		/	
? K G			
n		K g a \hat{W} m P	
L ? k g P L ? q		n;126	n;89
/		t / F	P
\hat{W} 4		- 5 3 3 3 1 7 7 6 .	
k g P 4		2 7 , // 1 , 1 3 6 , / . 0 , 5 2 , 3 . . / , 4 / 5	
P L ? \hat{W} 4 k g P \hat{W} 4		@ K G i e ^ k 0 / , 2 5 / 0 / , / . 3 2 / 0 , 2 2 / , . / 4	
1 n		0 . / 3 , 6 5 / 3 / 4 , 6 3 . . . 1 5 , 6 2 6	
P L ? \hat{W} 4 k g P \hat{W} 4		/ 6 / 2 , 0 6 / 0 / 1 , 2 6 . . . 0 6 , 6 4 5	
2 n		/ 1 / . , 1 0 / . / / , 0 2 . . . 2 4 , 6 1 .	
/		/ / 6 , 5 1 6 6 , 7 7 2 , 7 2 6	
? K G		/ 3 / / , 7 / / 1 / 2 , 4 / . , 1 1 4 , 3 4 0	
? K G		n	
k g P 4 k g P \hat{W} 4		1,2	
/		1,2,1	
n		6 . . . 7 . 2 k J	
1		1 , 0 # / 7	
1,1		0 0 k J k g P L ? q	
0 . / 6 / 0 . / 7 7 / 0 4 0 k J		n k g P \hat{W} / k g P \hat{W}	
? K G		2 \hat{Z} / 3 k g l	
5 / 3 3 2 7 , // 1 , 1 6 ? k ` g m l R P j x m j		P L ?	
6 7 ? K G k g P k g P a B L ?		k g P a B L ? / . J	
3 . 1 7 3 . , . 0 k g P		/ J a B L ? S 4	
/ 0 , 5 2 / / @ m b w k _ q q		? @ 3 3 N A P 0 k g P L ? q	
g l b @ K G / / /		1 7 3 \hat{Z} . k g l	
P > 0.05 n / n		7 3 \hat{Z} q 4 . \hat{D} q 5 0 \hat{Z} q	
N e T M ? K G		0 \hat{W} A r k g P \hat{W} / k g P \hat{W}	
3 L c u w m p i \hat{W} c _ p r _ 2 q .		/ k J	
q m a g _ L \hat{W} m l 4 \hat{t} \hat{d}		Q _ l r _ A p s x	
: 1 f N A G / 7 4 n		A B 0 \hat{n} \hat{t} ` \hat{d} _	
/		? K G N ? A \hat{W}	

? r r s l c L v R A B 4 0 / N ? A / W
/ k J

N ? D

n

1,2,2

k g P / W / k g P / W
k g P / W / 4 k g P / W / 4 k g P / W k g P / W

1,2,3

1 /
K ? A C
/ / / n

1,3

k g P / W / k g P / W n k g P / W
/ 0 / k g P / W A B 4 0 / N ? A / W N ? D 7 . b
K ? A C n k g P / W / k g P / W
A B 4 0 / N ? A / W N ? D 7 . b K ? A C n

1,4

Q N Q Q Q Q , .
Y i T t n #
F Q n c _ p k _ l P < 0.05
n

2

2,1

k g P / W / k g P / W
k g P / W / 4 k g P / W
P < 0.05 n 0 n

2,4

k g P / W / k g P / W 7 . b K ? A C
k g P / W / 4 k g P / W 7 . b K ? A C
P < 0.05 n 3 n

2,5

miR 126 / k g P / W 7 . b K ? A C
Q n c _ p k _ l 7 . b K ? A C k g P / W
/ 0 4 k g P / W r₁; -0.853 P₁ <
0.001 r₂; 0.752 P₂ < 0.001 n

3

k g P L ? q
P L ? / / /
/
n
k g P L ? q / / ? K G

2,2

k g P / W / k g P / W
k g P / W / 4 k g P / W A B 4 0 / N ? A / W
N ? D k g P / W / 4 k g P / W
P < 0.05 n 1 n

2,3

miR 126 / k g P / W
Q n c _ p k _ l A B 4 0 / N ? A / W N ? D k g P / W
/ 0 4 k g P / W
P < 0.05 n 2 n

? K G n

6 ? K G k g P / W / 4
n

7

? K G k g P / W / 4
? K G n

k g P / W / 4 ? K G

n k g P / W / 4
k g P L ?

P B U

0 . / 6 1 0 . 0 . 1 P B U C F n
4 / ? 3 1 @ 0 7 A C F
4 3 / / / /
? A C G - ? P @ n J ? B /
J T C D n P < 0 . 0 5 n ? D P < 0 . 0 5 n ? / @ / A
/ J T C D P < 0 . 0 5 n ? D
J m e g q r g B U J ? B C F ? D n 5 < v ð F ø \$ 2 p 3 S T A & G ! O # @ p 0 D 1 = b £ T ð ½

F Q 5 1 4

0 2 3 . . .

C F k x g 0 0 1 1 4 1 > a m k

_ l b n j _ w _ l _ a r g t c p m j c g l c _ p j w n p c t c l r g m l _ l b a m l r p m j m d
KEY WMRDS F w n c p r e t q g m j d g c p g j j j m r b g a n d j j b g g r e g n s g g m p c g g a f g m l

? r p g _ j d g D p g j j _ r g m l

/ n

C q q c l r g _ j f w F n c p r c l q g m l

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⁰ n

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CF

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P c b ` j m m b a c j j b g P B U A g ` s r g m l u g b r f

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P B U

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/ n # Y i T				
R _ ` / j A m k n _ p g q m l m d a j g o l e g a n _ j n # _ Y i T ` c r u c c l				
	n;143	n;65	t / F	P
-	4 . , 4 6 1 5	3 7 , 4 1 6 /	/ , 1 6 4	. , / 4 5
	6 1 4 -	1 7 4	. , / 3 1	. , 4 7 4
	/ 3 / . , 2 7	/ / / 4 , 7 0	/ , 4 7 /	. , / 7 1
	7 4 , 0 7	5 / . , 5 5	/ , 0 4 /	. , 0 4 0
	1 2 0 1 , 5 6	/ 1 0 . , . .	. , 1 4 2	. , 3 2 4
	2 7 1 2 , 0 5	/ 7 0 7 , 0 1	. , 3 / 3	. , 2 5 1
U @ A Ä / ? - J	4 , 5 / . , ? / 5	4 , 5 / 3 , 0 4	. , 0 5 7	. , 5 6 /
L Ä / ? - J	2 , 6 / 1 , 7 3	2 , 1 0 7 , ? /	/ , 2 7 2	. , / 1 5
J Ä / ? - J	/ , 5 . 1 , 1 5	0 , . . / , 1 3	3 , / 2 1	: . , . 3
P B U #	/ 1 , 2 6 , 3	/ 0 , 0 5 3 7	6 , 4 6 /	: . , . 3
? Q R S - J	0 2 , 4 1 , 4 4	0 / , 1 1 , 3 0	/ , 4 3 4	. , . 7 7
? J R S - J	0 7 , / / 0 , 5 7	/ 6 , 7 5 5 4	3 , 5 0 4	: . , . 3
Q A k k m j - J	5 6 , 0 1 , . 6	4 3 , 0 6 , 2 7	1 , 5 7 3	: . , . 3
R A k k m j - J	1 , 4 / 5 , . 5	0 , 5 . 2 , 6 3	4 , / 5 2	: . , . 3
R E k k m j - J	/ , 2 . 4 , 7 3	/ , 4 . / , 6 1	/ , . 7 5	. , 0 5 2
F B J W A k m j - J	/ , / . 2 , 1 7	/ , / . 3 , 2 0	. , / 4 5	. , 6 4 5
J B J W A k m j - J	0 , / / 1 , ? / 3	/ , 7 / 6 , . 2	. , 6 7 6	. , 1 5 .
J ? B a k	2 , 1 . 2 , 0 6	1 , 2 . 5 , 1 /	0 . , . 5 6	: . , . 3
J T C	2 6 , 8 7 2 2	3 7 , 2 4 3 0	/ 6 , 3 3 1	: . , . 3
S ? k k m j - J	1 1 3 , 6 4 . , . 3	0 5 5 , 4 3 0 , ? / 6	2 , 5 5 /	: . , . 3
? A C G - ? P @	/ 7 / 1 , 0 7	6 / 0 , 1 /	. , . 1 6	. , 6 2 4
	1 7 0 5 , 0 5	/ / / 4 , 7 0	0 , 4 0 /	. , / . 3

	? n;96	@ n;28	A n;19			
-	4 . , 3 3 0 4	4 0 , 4 0 4 1	4 1 , 4 6 3 6			
	3 3 2 - /	/ 5 - /	/ 6 -			
	6 6 , 1 1	2 / 2 , 0 7	1 / 3 , 5 7			
	3 3 , 0 /	0 5 , / 2	0 / . , 3 1			
	0 1 0 1 , 7 4	4 0 / , 2 1	3 0 4 , 1 0			
	1 / 1 0 , 0 7	/ . 1 3 , 5 /	6 2 0 , / /			
U @ A Ä / ? - J	4 , 6 / 4 , 0 3	4 , 2 / 3 , ? / 7	4 , 0 / 6 , ? / 6			
L Ä / ? - J	2 , 3 / 5 , 6 1	3 , . 0 6 , . 3	3 , 5 0 2 , 5 4			
J Ä / ? - J	/ , 6 . 4 , 2 /	/ , 3 . 6 , 1 7	/ , 1 . 1 , 1 2			
P B U #	/ 1 , / . 5 / 7	/ 2 , 0 6 6 3	/ 3 , 4 0 7 5			
? Q R S - J	0 1 , 7 0 , 6 3 0 3	/ / 1 , 4 4	0 5 , / / 2 , 0	. , ? 7 , /	D 5 3 "	Ü , 5 4 , 5 3
? J R S - J	0 5 , 6 4 , 3 6 1 . ,	2 8 , 4 3				
Q A k k m j - J	5 2 , / / 5 , 4 0 6 /	0 6 , 1 2				
R A k k m j - J	1 , 4 / / , ? / 6	1 , 5 / 3 , 0 0				
R E k k m j - J	/ , 3 . / , 6 5	/ , 1 . 7 , 6 0				
F B J W A k m j - J	/ , / . 3 , 2 /	/ , . . 6 , 1 7				
J B J W A k m j - J	0 , . . 7 , 7 4	0 , 0 / 3 , . 6				
J ? B a k	2 , 0 . 4 , 0 4	2 , 2 . / , 0 2				
J T C	2 7 , 1 6 / 3	2 5 , 0 2 7 4				
S ? k k m j - J	1 0 3 , 5 0 1 6 , 4 7 1 2 5 , 6 6 0 , ? / 4					
? A C G - ? P @	/ 0 / 0 , 3 .	2 / 2 , 0 7				
	0 4 0 5 , . 6	5 0 3 , . .				

2,4 RDW CF ? D PMA / , 0 P B U / 1 , 1 #
P B U PMA ? D 5 . , 7 # 2 5 , / #
? A S . , 4 1 9 5 # C I . , 3 / 7 | . , 5 1 / #

	<i>E</i>	S.E.	Uald
J	. , 7 0 6	. , 0 4 /	0 , ,
P B U	/ , . 4 7	. , 1 6 3	0 , / /
? J R	+ . , / 2 1	. , / . 3	/ , . 3
Q A p	+ 0 , 5 1 4	0 , 6 7 0	0 , 5 0
R A	+ . , 0 1 3	. , / 1 6	, 6
J ? B	. , 0 5 7	. , / / 3	/ , W
J T C D	+ . , 3 5 0	. , 0 . 5	0 , W
S ?	. , 3 3 6	. , / 0 3	

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0.443 $P < 0.05$, R f c P M A a s p t c q f m u c b r f _ r r f c a m k 0 g l l c l A B 5 _ r b c a r g m l m d q c p s k J a f _ l e . c , 1 0 5 1 2 r f c ? S A m d a _ p m r g b _ u r f f g c a p m q _ a q c f p n e r f g a p r r j f _ o l s r c f c ? S A t _ j s c m d .

N J 0 _ l b A B 5 j m Conclusion Serum Lp β PLA and CD147 in patients with carotid atherosclerotic plaque are significantly increased, The combined detection of Lp β PLA and CD147 is helpful to assess the stability of plaque,

KEY WMRDS J g n m n p m r c g l W _ q q m a 0 g A B / 2 5 A n f p m q r g l b m j r g f n c _ p m c q a j c p m r g a n j _ o s c

23

/

/ n

n

0.4

/

n

?0

J g n m n p m r c g l W _ q q m a 0 g A B / 2 5 A n f p m q r g l b m j r g f n c _ p m c q a j c p m r g a n j _ o s c

/ ² n A B / 2 5

3

A B / 2 5

K K N

n

J n W N A B / 2 5

n

F
P M A
N c _ p q m l
P<0.05

n

2

2,1 J n $\hat{W} N(A?B) / 2 5$

J n $\hat{W} N(A?B) / 2 5$

P<0.05

J n $\hat{W} N(A?B) / 2 5$

P<0.05 n 0ⁿ

2,2

A B / 2 5

J n $\hat{W} N J ?$

J n

A B

0 . 0 . 6 ' 6 6

LD@ _ l b T A ? K W t c j q m d n _ r g c l r q u g r f b g d d c p c l r n p
u c p c a m k n _ p l c b _ c d m p c _ p l c b _ r k c j l r l W K c g c p a s p t c u _ R e s u l t s b d m p q s p t g t _ j _
The serum levels of hsβCRPL D@ _ l b T A ? K W r f c m ` q c p t _ r g m l e p m s n u d p c f g e f c p r f _ l r f
r p m j e p m s n u f c l r f c w u c p c _ l b k r g f r c b b d r d n c p f d a m a n g p < 0.05 _ r g q r g a _ j j w q g e l g
R f c j c t c j q m d q l c p k _ l b W A P N ? A G n _ r g c l r q u c p c f g e f c p r f _ l r f m q c g l R C
_ l b r f c b g d d c p c l a c u _ p < 0.05 _ r q c p s k f q W A P N ? K g e f q c p s k f q W A P
r g _ j b g _ e l R C g q d a ? A G s 2 D @ ? S A t _ j , s c 5 q W A P N ? S . A , 5 < 7 2 A ? K W
/? S A t _ j , s c 5 q p s k f q W R f c f g e f d D @ c q b g t A / R K W h A n g r g t c j w a m p p c j _ r c b u g r f
r f c q c t c p g r w p m 0.05 r f R b g q c e f c c v n p c q q g m D @ d b l c p A / R K W h A n g r g t c
j w a m p p c j _ r c b u g r f r f R < 0.05 t , Q p c g p r s w k m f d q W A P N l g b q T A ? K W t c j q m d q s p t g
t m p q u c p c j m u c p r f _ l r f m q c ` c d m p c l b p w g m k d c r l p c l b l r k f c f i n g d d c f m c b l g a c b _ d r c p
u _ q q r _ r g q r g R < 0.05 j , w R f g c e d s p l g a t _ l j r p _ r c m d n _ r g . D @ r q l u b g T r W ? K g e f q c p s k f q W A P
c v n p c q q g m l u _ q j m u c p r f _ l r f _ l b m d f i n b u g d d o p c q a g m l _ p q r r g a l g r q r g a _ j j w q g
0.05 , Conclusion Serum hsβCRPL D@ T A ? K W t c j q _ p c a j m q c j w p c j _ r c b r m r f c m l q c r _ l
m d G _ B l b r f c g l a p c _ q c g l ? A G n _ r g c l b g d d c k p n c l o r g g e l b g d g e a l m l q r g A _ j l d l r g a m e j l j
c t _ j s _ r g m l a _ l ` c k \_ b c ` _ q c b m l r f c c v n p c q q g m l m d r f c _ ` m t c q c p s k d _ a r
KEY WMRDS F w n c p q c l q g r g t c A L V s p a j _ c a _ p g r t c _ n l p m p q g b e g m p W a l c p a j r m p f c
q g m l k m / j G a a f c W g a a c p c ` p m a s q a a j c p c b p G a l c r g d c t _ m a r s g j m l p V g l r c p t c l r g m l _ j r
_ n w

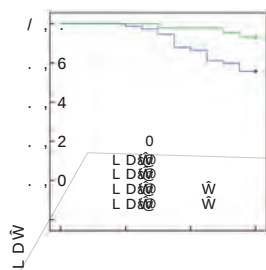
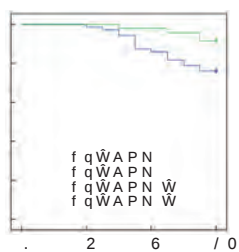
G q a f c k g a a c p W p m t _ q a s j _ p b g q
c _ G A B
/
3 . #
' n G A B ? a s r c
a c p c ` p _ j ? A G l _ p a r g m l R p W l
q g c l r g q a f R C k g a _ r r _ a i

⁰ n
G A B

¹ n L D @

² W T A ? K W

³ A W f q W A P N š# O



r f c b g d d c p c l a c u _ q q P < 0.05 g, q R f g a b c e w a g e l g d g a _ l r
md l c m l _ r _ j f w n c p ` g j g p s ` g l c k g _ u _ q q g e l g d g a _ l r P w a m p p c j _ r c b u g r f
0.05 , ? d r c p d s p r f c p a m l r p m j j g l e d m p m g r p f r c f p u l c c a e r h i p b g g a d f p a c e c g k c _ r g m l _
_ l b g k n p m n c p f d c c e p e c m d l c m l _ r _ j f w n c p ` g j g p s ` g l c k g _ u _ q q r g j j q
n c p g n f c p _ j ` j m m b N P < 0.05 l b N a r l \_ t c j j t w n c p ` A j l g A l s W g @ c f k _ g b _ J B F
l c e _ r g t c a m p p c j _ r g m l u g F P N A d c p p m B Q p _ D B 3 b j m o n b N ?
O S O " S I Z] S ' O e F j a e F E 0 A 0 0 M 0 T T e e e e % O y B U J O F A d T E B E P B A d , H G F D B M O B S F

1,3 N ? / N A R
 N ? N A R n / 1ⁿ
 N ? N A R n

N ? N A R n
 J B F A I / A I W K @ n N ?
 N A R n
 1,4

Q N Q Q Q , .
 Y i T t
 n # F
 J m e g q r g a N c _ p q m l 2,3 N ? N A R
 P < 0.05 n N ? N A R
 P < 0.05 2ⁿ

2
 2,1 N ? N A R
 N ? N A R
 P < 0.05 0ⁿ

2,4
 n I PA / / /
 112 N ? N A R
 112 P < 0.05 3ⁿ
 t
 P 2,5

2,2 N ? N A R J B F A I / A I W K @
 N ? N A R P < 0.05
 P < 0.05 J B F A I / A I W K @ /
 4ⁿ

3
 R _ ` 3 j k s j r g n j c j g l c _ p q r c n u g q c p c e p c q q g m l _ l _ j w q g q

	t	P
/ 0 , 0 / 2 / , 2 . 4	7 , 3 4 6 . , . . /	
N ? . , 4 / / . , . 3 0 . , 5 / 1	6 , 0 2 1 . , . . /	
N A R . , 3 1 7 . , . 2 / . , 3 7 6	7 , . 1 / . , . . /	

S-J

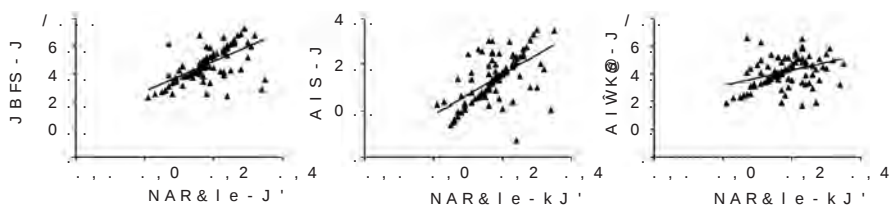
AIS-J

AIWK@-J

. 3. /.../3.0... . 3. /.../3.0... . 3. /.../3.0...
N?&ke-J' N?&ke-J' N?&ke-J'

/ N? JBFAIAIWK@

Dge&Amp pcj_rgmI`crucclncpAgnfcp\_j`jmb N?_Ib JB F



0 NAR JBFAIAIWK@

Dge&Amp pcj_rgmI`crucclncpagnfcp\_j`jmb NAR_Ib

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/
, ENB /SER 7/
Q A M @/?@A A
H , 0 . / 6 . 1
0 3 W 1 . ,
0 U _ l e H K _ m E M f _ m F H , R f c a f _ l e c q m d ` g j g p s ` g l g l
l c m l _ r _ j f w n c p ` g j g p s ` g l c k g W _ l b r f c a j g l g a _ j q r s b w m d q c a m l b
_ p w r f p m k ` m a w r m n c l g _ _ l H , a n f _ e s H _ r g m l _ ` l m p k _ j g r w
@ g p r f F c _ j 0 f . 7 0 6 4 2 c 4 0 W 4 1 ,
1 , N ? W E R
H , 0 . / 0 6 7
7 / . 5 4 W / . 5 7 ,
2 ,
H , 0 . / 0 7 0 2 3 1 2 W 3 1 4 ,
3 , N A R f q W A P N
H ,
0 . / 0 7 7 5 / . 7 7 W / / . / ,
4 , /
H , 0 . / 5 2
6 / / 3 1 W / / 3 3 ,
5 5

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n 0 . / 54 0 . / 74 ? B Q / U | / 1)⁴ / 7 .

B m u d q w l b p k c B g _ e l q r g a q w q r
j _ ` m p r m l 0 c q 6 / / . 1 7 4 -
/ , 3 # B Q n N J E / ? N N W p Y f A E
B Q U _ j j _ a ? W r m B C J
0 n D G ? 0 1 3
? N p c e l _ l a w W p c N _ ? N N W p m r c g l ? N c p i g l C j k c p
Y d p c c f s k W l a f 7 m p g - N J E 4 5 . 0 1 ? N N W ?
m l g a e m l _ b m r p m d p Y f A E _ q s ` s 4 l 4 g 7 r 6 7 5 p Y f A E 4 6 . 4 1
1,3
/
1 n
B Q n G f W ? J E / ? N N W p Y f A E
? G l f g ` g l W ? B Q P M A
G f W B Q G f W ? n
2 n 1,4
N j _ a c l r _ j e p n E D f d _ a r m p Q N Q Q / , .
Y i T t
3 n # v² P<0.05
G f W ?) N J E D ?) N p N c N W n
Y f A E B Q 2
n 2,1
1
1,1 P>0.05 /
0 . / 5 4 0 . / 7 4
B Q / U | / 1 ⁴ / 7 .
B Q
n / U | / 1 ⁴
/ 6 |
2 1 n B Q
/
n
1,2 2,2
G f W ? J E / ? N N W p c c G f W ? p Y f A E
Y f A E / U | / 1 ⁴ 1 k J N J E / ? N N W ?
+ 0 . 2 G W ? C J G Q ?
y n y

2,3 B Q P<0.05
PMA 1/ /ⁿ
PMA

1 B Q PMA
R_`1j PMA as p t c _ l _ j w q g q m d r f c b g _ e l m q g q m d d c r _ j B Q g l r f c d g p q r r p g k c

	#	#	#
N ? N N W ? Y W d f A c	5 0 , 4 3 - .	7 1 7 1 / - . .	6 1 , / 3 6 7 .
G f W ?) N J E D) N Y W N A E ?) d p t c 1 2 - .	7 3 7 3 / - . .	7 2 , 0 5 7 7 .	
F	/ 2 , . 4 6	. , 1 3 3	/ / , 3 4 2
P	: . , . . /	. , 3 3 0	. , . . /

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/ W

/ B Q PMA

D g e s PMA as p t c _ l _ j w q g q m d r f c b g _ e l m q g q m d d c r _ j B Q g l
r f c d g p q r r p g k c q r c p ` w r f c b m s ` j c q a p c c l g l e _ l b r f c o s _ b p s n j c
q a p c c l g l e

3

B Q 0 W B m u l
0 /

⁴ n 4 . #

/ /

⁵ n B Q

n

N ? N N W ? Y W d f A c E c) @

L R B Q

6 4 # 7 | 0 # n @

N ? N N W ? Y W d f A c E c) @

/ . n B Q

G f W ? J E D

G P W J E D B Q n

G f W ?

r f c p c u _ q _ q g e l p 4 0 5 _ I R f t g o d s d _ c l p r c g l r a _ c r g t c S A T B 1 i n p c q q g m l j c t c j q m o
 survivors were significantly lower than those in the dead P<0.05 ,Conclusion The expression of SATB1 in

NPC tissues is upregulated, The high expression of SATB1 make tumor cells resistant to cisplatin and pacl

itaxel u f g a f f _ q _ l _ b t c p q c c d d c a r m l r f c n p m e l m q g q ,

KEY WMRDS L _ q m n f _ p w l e c Q ? R / @ p a g k l m r k f B _ p s _ e n w c q q q r _ l a c

l _ q m n f _ p w l e d _ N j A a _ p a g l m k _

L N A

3

1 . # ^ n L N A /

L N A

^ ? R

/ q n c a g _ j ? R W p g a f q W o s c l a c ` g l b g l e n p m

r c g Q ? R / @

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1 1 2

Q ? R / @ /

L N A Q ? R / @

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Q ? R / @

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0 . / 5 7 2 2 3 5 W 2 3 7 ,

0 R m p i g j @ p s l Q E m p k l m d r _ j j , P c _ p p _ l e c k c l r

m d r f c A f p m k _ r g l M p e _ l g x c p Q n c a g _ j ? R W p g a f @ g l b g l e N p m r c g l

/ E c l Q ? R / @ P c q s j r g l d d p m k 2 / A f W m

k m q m k _ j R p _ l q j m a _ r g m l g l ? a s r c K w c j m g b J c s i c k g _

@NB n 0 . / 42 0 . / 76 / 6 4 @NB
 1 / 6 @NB
 REDW R p c e n Q n c _ p k _ l REDW R p c e
 n / / @NB REDW @NB< @NB< @NB
 P<0.05 n R p c e @NB< @NB< @NB P<
 0.05 Q n c _ p k _ l REDW @NB R p c e @NB
 P<0.05 n REDW R p c e @NB REDW
 R p c e @NB n
 W / R

Npcbgargtc t_jsc md REDaW/ _lb Rpce acjj amslr gl sk`gjga\_j ampb `jmmb dmp
 `pmlafmnsj kml_pw bwqnj_qg_gl npcrcp k gl_d_lrq
 JGL Ogleagle R? L F s g U S W m l e dX_FISeU cFgS? L E W g l e
 B c n _ p r k c l r m d V g c _ m k l c _ l r A n f o n f r w p v g _ r _ k _ 0 \$ h g _ f l g 1 4 / . . 4

ABSTRACT Objective To investigate the predictive value of transforming growth factor-β (TGF-β) and the number of Treg cells in umbilical cord blood (UCB) for the diagnosis of bronchopulmonary dysplasia (BPD) in preterm infants. Methods 186 preterm infants with BPD who were diagnosed and treated in the hospital from April 2016 to August 2019 were selected and included in the study group. 186 healthy preterm infants who were born during the same period were selected as the control group. The TGF-β and Treg cell count in UCB were compared between children with different degrees of BPD in the study group. Results The order of TGF-β levels in children with different degrees of BPD from high to low was as follows: severe BPD > moderate BPD > mild BPD. The order of Treg cell count in UCB from high to low was as follows: severe BPD > moderate BPD > mild BPD. Conclusion Elevated TGF-β levels and decrease in the number of Treg cells may increase the risk of BPD.

KEY WORDS R p _ l q d m p k g l e Y e g r h u s r k f ` g j \_ g a m p v a m s p \_ ` r j m m b d r a c p j k j
 g l d @ p m l a f m n s j k m l _ p w b w q n j _ q g _

` p m l a f m n s j k W l _ p w b w q W n j _

q g @ N B

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@ N B

0 6

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W / r p _ l q d m p k g l e / e p m u r f d _ a r m p W

R E D W

@ N B

2

R

P c e s j _ r m p R e a c j j q

R E D W 3 n

@ N B n

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0 . / 42 0 . / 76

/ 6 4 @ N B n

@ N B 6 / @ N B 4 1

@ N B 2 0 n 1 / 6

4) u ` , ã ÷ • # ? 5 ` , E • q u u 7 # % • Q 5 ! " S m n U ä) 5 • x " T ' Ä v Ñ - a B U © ñ P ' % 4 F D @ Q f ^ ñ x f T 2 t e ! t e D ' V e * Y P u

@ N B < @ N B P <
0.05 n 1 n

U' a • Ô v Ò æ r v 2 4 Ó Ô G m f Æ E ' D W L a p 0 0 e Y L Â t l c D 0 Ô 5 (4 (U ' ! a F # F \$ + t b Q s 9 B @ ð * # 5 0) ý • q U ' í w 5 () P L Â t 7 c D 0 Ô 5 R

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 H , 0 . / 13.4 2 5 4 $\hat{W}$ 2 5 6 ,
 0 ,
 H , 0 . / 36
 / . / / 4 3 $\hat{W}$ / / 4 5 ,
 1 ,
 H , 0 . / 3332 0 7 6 $\hat{W}$ / . . ,
 2 , $\hat{W}$ /
 H ,
 0 . / 161 / 2 / / . 0 $\hat{W}$ / / . 4 , H ,
 3 , R

/ 0 0 1 /
? L m e m W ? W i @ B L D W i @ 3 n
? F A F n 0 . / 5 2 0 . / 7 5 / . 6
? F A F / . 6 n /
L m e m W D W i @ 3 n L m e m W D W i @ 3 n ? F A F n
1 L m e m W D W i @ 3 n L m e m W D W i @ 3 n
W n L m e m W D W i @ 3 n
P < 0 . 0 5 ? F A F L m e m W
? / L D W i @ 3 n P < 0 . 0 5 L m e m W D W i @ 3 n
P < 0 . 0 5 ? F A F E M Q L m e m W D W i @ 3 n
P < 0 . 0 5 L m e m W D W i @ 3 n ? F A F ? S A . , 6 2 0
L m e m W D W i @ 3 n ? S A . , 5 7 , 5 5 0 5 0 , 5 1 #
6 6 , . P < 0 . 0 5 L m e m W D W i @ 3 n P <
0 . 0 5 n ? F A F L m e m W D W i @ 3 n
n
? W i @ 3

Ct_js_rgmI t_jsc md_vml epmurf glfg`grmpw d_armp ? _lb lsajc_p d_armpai@ n43
ml rfc amlbgrgml _lb npmelmqgq md n_rgcIrq ugrf _asrc fwncprclqgtc acpc`p_j
fckmppf_ec

WGLW_lvg' QF?LEUc°lE\$MF°sE?MXfQSLV'sc
/ , l _ g d c l e A c l r p _ j F m q n g r _ j Q s p e g d e t p C a l f r g c 2 l 5 q 3 g . t 0 c . , R p d n _ r p k r c l r ? p c _
k c l r m d P c l _ j R p r _ f l c q d g p d r ? d g n l j g _ r c b F m q n g f c j e n x f f o n l s c l l e x f m s S l g t c p q g
A f g l 2 _ 3 . . B D J _ ` m p _ r m p w m d K c b g a _ j A m j j X c f e c c l m d F i n f s c A l f e g l f _ m s S l g t c p q g r w
2 3 . . 3 0

ABSTRACT Objective To explore the evaluation value of axonal growth inhibitory factorlAm W?
_ l b l s a j c _ p 4 3 L D W i @ 3 n m l r n f c a m l b g r g m l _ l b n p m e l m q g q m d n _ r g c l r q u g r f _
p c ` p _ j f c R n A . Methods 108 cases of AHCH patients admitted to our hospital from A 2 0 1 7
to H u l y 2 0 1 9 were selected as the research group l b . f c _ j r f w n c m n j c u c p c p _ l b m k j w q c j c a r c b _ q
e p m s n b s p g l e r f c q _ k c n c p g m b , R f c 4 3 g t l c n j _ g r m d c q c p a n g l r b g m y m d c p b L D W i @ n

/ 7 0 / . 0 1 / . / 0 2
/ , 2 5 3 . . .
0 , 2 3 . . 3 0
1 , 2 3 . . 3 0
C F k _ g g j _ l v e u / 4 1 , a m k

g l r f c r u m e p m s n q _ l b r f c p c q c a Σ _ l b r r _ l
SV B U T 0 q S @

	/ n # Y i T		R _ ` / j A m k n _ p g q m l m d r u m e p m s n q m d e c	
	n # Y i T			
	n;108	n;108	t / F	P
-	2 3 1	3 3 6	. , 2 5 . , 2 7 1	
	4 1 , 2 7 / 2 0 , 3 5 / 6		, 2 2 . 0 , / 3 /	
i e	4 4 , 2 2 / 4 1 , 6 7 . 3		, 7 . . 0 , . 3 7	
	4 0 3 5 , 2 / 4 5 4 0 , . 2		, 2 6 . / , 2 6 6	
	2 4 2 0 , 3 7 2 / 1 5 , 7 4			
	0 3 0 1 , / 3 0 . / 6 , 3 0 , 5 . . 0 , 2 . 0			
	/ 2 / 0 , 7 4 / . 7 , 0 4 . , 5 3 . , 1 6 5			
	0 . / 6 , 3 0 / 4 / 2 , 6 / . , 3 1 . 1 , 2 4 3			

2,5 LmemW¹DW¹i4@3n ? FAF W¹/ W¹
/

LmemW¹DW¹i4@3n / 0 n Og I J / 1
? FAF PMA LDW¹@43 LDW¹i4@3n
? SA . , 6 2 3 4 . , 5 3 7 | Z , 6 . ; 3 n
5 , 6 4 . 5 0 , 5 1 # LDW¹i4@3n
6 6 , . P < 0 5 n 0 n ? FAF n PMA
LDW¹i4@3n ? FAF
n
LmemW¹? ? FAF
n LmemW¹?
/
/ 2 n LmemW¹?
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U _ l e D @ 4
LmemW¹?
n / 5
2,6 LmemW¹DW¹i4@3nPMA 6 0
/ n LmemW¹?
W LmemW¹DW¹i4@3n / n
F / 3 , . F 4 0 0 9 / LmemW¹? ? FAF
. , . 0 2 1 n LDW¹i4@3n
#•TR3x ·D0 ? FAF? FAF n U'

3

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2 f W 5
W 5 LDW¹i4@3n LDW¹@
n 4 3 R /

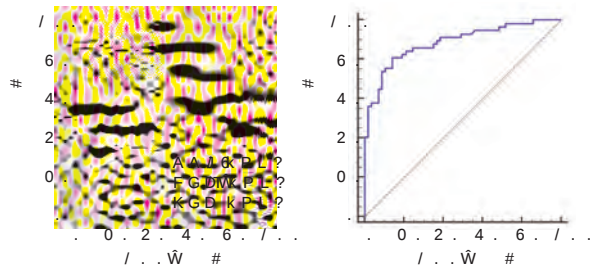
0 . 0 . 6

r f c KQR md f s k _ l ` p _ g l 1e1j, g2mK_r r n t cr g v n p QCL18 gHIF 1T and
MIF mRNA in patients with survival peri od > MST was lower than that in patients with survival period MST
r f c b g d d c p c l a c u _ q qP<0.05 g QCL18 aHIF1T and MIF mRNA expressions were nega
tively correlated with MST P<0.05 r f c a m k ` gCCL18 gRNA r n t F 1T mRNA _ INMIF mRNA
predicted survival with a AUC value of 0.886 u f g a f u _ q e p c _ r c p r u g l f _ l v a q b d e r j e t r g c r q w r m d
6 . , 5 . # _ l b _ q n 3 a 70.0m6r v CCL18 HIF 1T _ INMIF are co evpressed in HBG tis
sue _ l b r f c c v n p c q q g m l j c t c j g q a j m q c j w p c j _ r c b r m r f W b c e p c c m d k _ j g e
r g _ j ` g m k _ p i c p r m n p c b g a b m p m e b r b e g l c u l b b g p s a r g m l j d m p a j g l g a _ j r _ p e c
KEY WMRDS A A W a k m i g l e G f w e n m l v g _ W g l b / S a k _ a j p m o f a e m p k W e p _ r g m l g l f g `
g r m p w S s a r m p ` p _ g K c e b j g m l k q s p t g t _ j r g k c

F s k _ l ` p _ g H @ E j g m k _ n
/ n F @ E 1,2
F @ E R P G X M J
P L ?
/ n P L ? n
/ 6 A A W a f c k m i g b A A j g e _ A A b Q s n c p q a p g n r a B L Ø N A P
/ . J Q W @ P E p c c l K 3 q r c p K g v
A A J 6 / 0 n
K _ a p m n f _ e c k g W e p _ r g m l g l f g ` g
r m p w d K _ G a D r m p R
/ n W T F w n m v g _ g l b s a g ` j c
d _ a / T r f S W W
F G W W /
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1
1,1
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F @ E
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n
4 4 3 6 3 / , " 3 4 5 /
2 † / † / ∂ / Δ n
4 1 3 5 2 7 , " 3 6 1 2 n
/ P > 0.05 n

3 k P L ? P M A
R _ ` 3 j P M A a s p t c n p c b g a r g m l t _ j s c m d c _ a f k P L ?

	? S A	95#C I	Z	#	#	P
A A J 6 P L ?	. , 6 . 7	0.725 0.877	5 , 3 1 3	/ 5 , 5 /	6 2 , 0 /	4 6 , 2 0 : . , . . /
F G D W k P L ?	. , 5 3 .	0.660 0.826	3 , 2 6 7	1 , / /	4 1 , / 4	5 6 , 7 3 : . , . . /
K G D k P L ?	. , 5 5 5	0.689 0.849	4 , 1 / 3	. , 4 5	5 / , 7 1	5 1 , 4 6 : . , . . /
	. , 6 6 4	0.813 0.938	/ 0 , 1 4 .	6 . , 5 .	6 3 , 7 4	: . , . . /



0 CCL18 HIF 1 T MIF mRNA

K Q R

D g e 6 p R c f c n p c b g a C C L 1 8 H I F 1 T a n d M I F mRNA in predicting survival> MST

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A A J 6 / /
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A A J 6
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5 A A J 6
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A A J 6
6 n A A J 6
F @ E
F @ E n
K G D
7 n K G D F @ E F ú E G ¼ 1 m T X
. * '

A P N

A APN NAR ANGQ
GAS n 0 . / 44 0 . / 7/ . GAS
/ 0 0 2 3 / 5 5 n
APNAR ANGQ APNAR ANGQ APNAR ANGQ
n 0 0 APNAR ANGQ
I _ n j _ I W K c g c p n APNAR /ANGQ
P<0.05 N c _ p q m l APNAR ANGQ P<0.05 PMA
APNAR /ANGQ ? SA
? SA . , 6 5 / APNAR /ANGQ P<
0.05 APNAR /ANGQ GAS P<0.05 APNAR
/ANGQ P<0.05 APN / NAR

NAR _lb ANGQ qampc q ucp P<0.05, R g t PMA ans ppt c j W f m r b c b r f _r q c
p s k A N N A R j c t t b A N G Q q a m p c q _b f g e f c p ? S A t _j s c q d m c W r f c b g _e l m q g q m d
n c a g _j j w a m k ` g f g a b g _b l m f c g f g e f . c . q r s S A k A N A R j c t t b A N G Q
q a m p c q m d b c _b n _r g c l r q u c p c f g e f t p b g d d c r p f m l a c c m u d _q s p r t _g r t g q l r e g r a _r j g w l q r g
P<0.05 , Q c p s k A P R N j c A N G Q q a m p c q u c p c q g e l g d g a _l r j w a m p p c j _r c b u g r f r f
u g r f G A S n s j k m I P<0.05 g Q c p s k A P R N j c t t b A N G Q q a m p c q q f m W c b q g e l g d g a _l r b
c l a c q g l r f c q s p t g t _j q r _r s q m d f g e f W<0.05 q , C o n c l u s i o n t h e s e _j q _l b j m u W p g q i
r u m C R P N A R j c t t b A N G Q q a m p c q m d n _r g c l r q u g r f n s j k m l _p w g l d c a r g m l g l G
_l b _p c q g e l g d g a _l r j w p c j _r c b r m r f c n p m e l m q g q , A m k ` g l c b b c r c a r g m l
_ ` _q g q d m p c _p j w r p c _r k c l r _l b n p m e l m q r g a c t _j s _r g m l ,
KEY WMRDS J c s i m r p g n t p m a a j a g i r m l g g l n s j k m l _p w g l l e g a l d g a r l g r a m p c
B g _e l m q g q l m q g q

G l r c l q g t cGAA_Sp c S l g r

/

 $\hat{M}_n$

0 | 1

¹ n A A W p c W a r g m l
 n p m r A c p m N p m a _ j n a r m l g l

208 A j g l g a N s W k m l _ p w G l
d c a r g m A N G Q n p c 416 n

A P ~~XN~~ A R

ANGQ GAS

n n

1 Q Q Q Bqđ±c-' } t' †HÕyR ^M°2PÅP

APNAR ANGQ

P<0.05 /n

2,2

APNAR

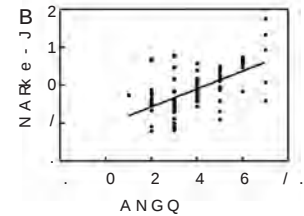
ANGQ

N c _ p q m l

APNAR ANGQ

r;0.574 P<0.05 /n

R _ ` / j A m k n \_ p g q m l m d e c l o p p m j s m t q ` c A u c c l r f c



	n;45	n;77	t/F	P
-	0 3 -	2 0 3	.	. / 0, 7 / 2
	2 3 , 0 4 1 2 4	7 5 . 4 , 3 3 . , 3 6 2		
i e k	0 0 , 0 4 . 0 2 1	0 2 0 3 , 2 2 . / , 4 4 .		
	/ 0 2 , 2 0 . 0 3 , 7 5			
	/ 3 1 1 , 1 0 6 1 4	1 4 , 0 3 . , 6 6 0		
	/ 7 2 0 , 0 0 7 1 5	4 4		
	/ 0 0 4 , 4 5 4 0	. , 5 6 , 3 3 5 , 2 3 4		
	1 4 , 4 5 3 4	2 7 . , / 1 5 , 5 1 1		
APNke - J	/ 2 , 2 6 0 0	2 1 , 5 0 2 , . : 7 1 . . /		
NARke - k J	1 , 6 / 0 . 1	5 6 , 0 0 3 , . : 7 / . . /		
ANGQ	6 , 0 1 . 2	6 5 , 7 1 2 / , 0 : 0 6 . . /		

APNke - J

ANGQ

?

APNANGQ

@ NARANGQ

/ APNARANGQ

Dge b A m p p c j _ r g m l ` c r u c c l q c p s k APN* N

2,3

APNAR

/ANGQ

PMA

APNAR /ANGQ

? SA

? SA . , 6 5 /

6 . , . . # 6 3 , 5 / # 0 n

0 APNAR ANGQ

R _ ` 0 j B g _ e l m q r g a t _ j s c m d q c p s k APN* NAR j c t c j _ l b ANGQ

	? SA	95#CI	Z	#	#	P
APN	. , 5 7	0.711 0.861	4 , 0 3 4 < 7 , 0 6 - J	4 2 , 2 2	7 . , 7 /	. : . , . . /
NAR	. , 6 /	0.737 0.881	5 , . 4 0 < 0 , 0 6 - k J	5 3 , 3 4	6 2 , 2 0	. : . , . . /
ANGQ	. , 6 /	0.735 0.880	5 , 7 5 4 < 4 , . .	4 6 , 6 7	5 5 , 7 0	. : . , . . /
	. , 6 5	0.799 0.925	/ . , 0 / 3 +	6 . , . .	6 3 , 5 /	. : . , . . /

2,4

/ APNAR

1

APNAR

/ANGQ

ANGQ

Yi T

0 0 2 3 GAS

/ 6

R _ ` 1 j A m k n \_ p g q m l m d e c l o p p m j s m t q ` c A u c c l r f c

0 5 n

/

/

_ l b ANGQ q a m p c m d n _ r g c l Y i q u g r f b g d d

P<

0.05

APNAR /ANGQ

P<0.05 1n

2,5

APNAR ANGQ

/

/

/

APNAR

/ANGQ

GAS

P<0.05

2n

2,6

APNAR /ANGQ

/ n l _ n j _ l W K c g c p

APNAR /ANGQ

F / 5 , / . 1

P;0.007 / . , . . 6 0 n

5b
:5b

4 0 0 , 0 0 0 5 , 5 6
/ . 1 5 , . 2 0 5 , 5 6 , . / 0 7 7 .
/ 1 2 . , 5 0 2 2 , 2 2
1 / / , / 7 3 . . . 4 , 2 6 0 . / /
/ 1 , 5 . 0 / / , / / , / 1 2 5 / 2
6 0 7 , 4 1 0 4 4 , 4 5
/ 7 5 . , 1 4 1 1 , 1 1
7 1 1 , 1 1 1 5 0 , 0 0
/ 6 4 4 , 4 3 0 5 , 5 6
4 , 3 1 5 . / /
0 . , 3 / 1 4 , 1 1 / 5 0 , 5 . . 3 , . . /
2 , 4 / 1 , 7 1 5 , 0 6 . . 2 , . 6 . , . . /
7 , 0 / 4 , 3 5 2 , 1 / 6 , 1 2 , 1 5 6 . . . /

ANGQ q a m p c _ l b n p m e l m q g q GAS

$$/ \cdot \hat{W} /_n /$$


0 - j t _ p c x W N _ c p r k k _ D p W K Q p i r l 0 2 l f c x W E _ p a Ø _ K
c r _ j , N p c t c l r g m l m d T c l r g R f c m p W ? q H , m a g _ r c b N l c 0 s . k / 1 7 / 3 3 3 4 W 3 4 / ,
K s j r g k m b _ j ? n n p m _ a r i m l d c s k m Q n _ K g q m G A S ,
N p m e H _ A p g r A _ Q . c / 2 6 4 0 b / 6 / W / 6 6 , H ,
1 , N A R q W A U P @ A L C S R 0 . / 1 7 7 7 / 5 5 6 W / 5 6 / ,
H , 0 . / 1 5 7 / 3 2 W 3 5 , / 0 E m s j _ p c p p c Q q r p A _ b r ? j , C _ p j w G l d j _ k k _
2 , N R V W N A R @ g m k _ p i c p q _ q N p c b g a r g t c D _ a r m p q d m p
H , _ d r c p A m j m p c a r _ ? j N A p m l q a r c p a Q s p t e c A p m f m p r Q
0 . / 1 7 / 4 2 7 / W 3 7 Q , H , Q s p e G _ p l a c h k . r / 6 7 2 2 2 4 W 2 3 . ,
3 , q R P / N A R ? J @ / 1 , N A A R P N
H , H , 0 . / 0 7 / 7 / 2 . 0 W / 2 . 2 ,
0 . 0 / . 0 4 5 2 4 W 5 3 . , / 2 J g s J U _ l e E s _ l Q W _ j , A m k n _ p g W m l m d n j _
4 N _ x m q N Q p x _ V m U i c p c J r K _ j , B g q r g l a r A p s j k s j c _ t p j q m d n p m a _ j a g r m l g l W c r u c c l g
Q m s p a c q m d E c r h v J c j g i l n 2 7 p p c c S q c @ R m c _ q c d j _ p c g l n _ r g c l r q u g r f _ g w q r c k g a
A m m p b g l _ r c @ _ a r c p g _ j W G l b s a b L c s k p m n W g H R p w c q c p n Q m / 1 5 1 9 _ j K g
e p _ r H g m H G k k 0 l m / 3 7 2 / 1 . 2 W / 1 / 3 , J g s J L 1 5 Q =
5 ,
H ,
0 . / 0 7 7 / 4 0 2 2 0 2 W 2 ,
6 ,
H , 0 . / 1 4 4 0 7 5 W / . 5 ,
7 ,
H , 0 . / 2 5 1 2 1 3 W
1 3 6 ,
/ . , A N G Q G A S

ABSTRACT Objective To investigate the correlation between levels of serum interleukin-6 and interleukin-10 in children with MP infection and KD. Methods bTgeqclinical data of 86 children with MP infection and KD. Results The levels of interleukin-6 and interleukin-10 were significantly higher in the KD group than in the MP group. Conclusion The levels of interleukin-6 and interleukin-10 can be used as markers for the diagnosis of KD.

G J W l b G J W t c j q _ l b m a a s p p c l a c m d A ? J g l a f g j b p c l u g r f K

I B Results Serum IL6 and IL8 levels and the incidence rate of CAL in the disease group were significantly

higher than those in the control group f g j c G J W c j q u c p c q g e l g d g a _ l r j w j m u c p r f _ l r f _ r g

P<0.05 , R f c p c u _ q l m q g e l g d g a _ e l r n p p c q a c m d K N l g b l a p c a r g m l g l r f c b g q

P>0.05 , R f c n p m n m p r g m l m d a f g j w c p c h n j b / w j t c l e J W g l f A ? J e p m s n u c p c

q g e l g d g a _ l r j w j m u c p r f _ l u r f f m j c j g d t r c f j c l m l b y S a p s k e G p l e n g d g a _ l r j w

f g e f c p r f _ l r f m q c g R < 0 . 0 5 c , @ m l t A ? J e p m s n r e g q r g a p c e p c q c p s k l _ l _ j w q g q q f m

G J W l b G J W t c j q u c p c f g e f p g q i d _ a r m p q d m p A ? J g l a f g j b p c l u g r f K N g l d c

n p m r c a r p < 0 . 0 5 d , @ n m p p k _ l a m p p m j u _ c r b g m l _ r l r f w q c c q j c p r c d J W c p s k G J W

a f g j b p c l u g r f K N g l d c a r g m l _ l b I B u c p c q g e l g d g a _ I P < j w n m q g r g t c j w a m

0.05 u f g j c / G j c W t c j u _ q q g e l g d g a _ l r j w l c e _ r g t c j w P < 0 . 0 5 p p c j _ r c b u g r f r f c

Conclusion Serum IL6 G J W l b G J W t c j q _ p c a j m q c j w p c j _ r c b r m r f c m a a s p p c l a c m d A ?

g l d c a r g m l _ l b I B , G r g q l c a c q q _ p w r m n _ w k m p c _ r r c 4 G J W l r m w m s l e a f g j b

_ l b G J W t a f g a f k _ w n p m t g b c p c d c p c l a c d m p c _ p j w a m l r p m j m d A ? J g l a f g j b

KEY WMRDS Kwamnj_qk_nlcskml_u_q_gilgdcgwpq_d/W Ampml_pw

_ p r c p w j c q g m l

I _ u _ q _ i g l b g q c _ q c K N I B 1 3 K N

/ 2 7 /

1 5 3 , . / 4 , . 1 K N 4 , 7 7

Ampml_pw_pA?Jpwjccqgm/q. 1 / 7 / / 4 3 , . 1

A ? J / , . / K N 3 , 7 / 7 , . 2

/ 4 n I B 4 n

Kwamnj_qk_nK N c s k m l g _ c 4

I B /

A ? J

n

1 /

I B A ? J

n

I B /

I B

I B W G I W c p

j c s 4 G J W W G l r c p q G J W g l W

W . G l r c p / j G s J M g l W

I B 2 / 8 n

I B

n

1

1,1

0 . / 44

0 . / 74

6 4

0 | 3

K F x

5 . // /0 /1
n ; /)0)1 - Ä
/ . .n# / | 1 A ? J
. A ? J n ð*ð*F_X •4Đ @Î q/2\$1pró íFô! P)PĐ 0 Đ % ñ—aGôlÂ #! P P1 P ¿?a b ` •@Î! P!

00•,IN ? N Md p c c n W N A E D

N c p i g,2
 Cl c p n æ0 5 .
 1,2,2 N J E D N ? N N ?) W p A E) N J E D
 / W 1 / , k J N ? N N ?) W p A E
 13 . p - k k l g l +0 . ž n F P;0.039 n 1ⁿ
 2 ž
 0 4 ž . , 3
 f 3 . . J
 n
 1,3
 @
 / / / /
 N ? N M D p W c f A E J E D
 k s r g n j c q m d K m f K c k c b g _ l
 j g d c a w a j c 2,3
 æ0 5 . 6 n
 1,4 3 #/6 #
 Q N Q/Q6 , .
 n # F Y i T 6 . #7 . #
 t K M K K _ l l W
 U f g r l c w P<0.05 n
 2
 2,1 K M K
 N ? N N ? N J E D K M K
 D p W c f A E K M K
 P<0.05 0ⁿ

/ . | / 1

B Q L R
/ 1 L R B Q
L R B Q
/ / n L R

/ 0 n

L R

n

/ 1

5 6 .

B Q

/ / /
B Q

n

N ? N N ?

0 6

/ 2 n f A E

/ 3 n

N ? N N ?) Y W f A E

/ 4 n N J E D

n

N J E D

/ 3 | 0 4

0 6 | 1 .

/ 5 n

N J E D

N J E D

/

B Q

n

6 | / 1 N ? N N ?) Y W f A E

N J E D

1 #

/ , / 6 #

N ? W

N ? D p Y W f A E N J E D

B Q

n

/ 0 5 .

N ? N N ?) Y W f A E) N J E D

N ? N N ?) Y W f A E n

3 # / 6 #

6 . # / 7 . #

N ? N N ?) Y W f A E) N J E D

B Q

n

N ? N M ?

d p Y W c

R 7 - R f

/ 0 /

R / R 7 - R 0 R 0

W G D W W . G J W n

/ 0 . n ; 6 0 N A C ? n ; 6 0

R / / R 0 R 1 L C C

A m p Y

0 . / 7 F U X B

/ , 0 4 4 1 . .

0 , 0 4 4 1 . .

C F k _ x g j s h s w g a m k

C Amp GD0Wl b GJW ruccl rfc r v R>0.05m,sl0C _rl R
 Amp ucpc fgé f 0R l Rl R G0G Wwep _bs _j j wrbfccal p d d c p c l a c u _q q r _r g q r g a _j
 q g e l g 0<0.05 _l LCC _l b Amp gl rfc qrsbw epmsn ucpc jmu0f0f _l rfmqc gl r f
 bgddcpclac u _q q r _P<0.05 r gRaf_cj j j wtccg e l n d G G B L P V r f g e f c p r f _l r f m q c g l r f c
 amlrpmjr é p n s r d d c p c l a c u _q q P<0.05 g qRrfcap_cj u w q q b r e t g e g g d g a _l r b g d d c p c l a c
 R 0 _l b /R-f0 j f c t c j q `c r u c c l r /f R>0.06 m e p 0 n P s l n l q R _f r c R r u m R p m P s 0 n q
 R f - R e f p _b s _j j w P 0 0 5 a p R / f R 0 b l b /R-f0 g l r f c q r s b w e p m s n u c p c f g e f c p r f _l r f m
 amlrpmjr é p n s r d d c p c l a c u _q q P<0.05 g qRrfca _q j j w t c c g e d g g g b a m l r r f c d g p q r q r _e c
 g l r f c q r s b w e p m s n u _q q f m p r c p l r b f _f l c r t f g d d g c l p c f l a a m l R p q m j _e p n s r g a _j j w q g
 0.05 , R f c p c u _q l m q g e l g d g a _l r b g d d c p c l a c g l ? R>0.05 q R h p c `c r u c c l r f c r
 g l a g b c l a c m d n m q r n _p r s k d c t c p _l b n m q r n _p r s k f c k m p p f _e c g l r f c q r s b
 e p m s _n b r f c b g d d c p c l a c u _q P<0.05 r C o n c l u s i o n s _T h i s a l l i m p a i n s u p p r e s s i o n l r
 during childbirth and painless childbirth can reduce the stress response during childbirthg l r / g 0 R f f
 ` _j _g l a c p m t c r f c g k k s l c q r n p n s l q m r c r r f f c m p n r e s p o n s e d a g _r f n p m a a s p p c l a c
 m d _b t c p q c p c _a r g m l q _d r c p a f g j b `g p r f ,

KEY WMRDS R F c j n c J w k / n R n F a w j r n c c J 0 R f f R a f n _g l j c 0 q r g p d d p m l W
 GD0W 'H Ω

1,4

R/ R0 L C C A m p

3 ? n e _ p

P<0.05 R1

0 2 3 . k J

L C C A m p R0 R/

0 2 / . 1 <1 6 ž

P<0.05 R1 L C C A m p

/ n P<0.05 n 0ⁿ

1,5

2,3 R f - R f

Q N Q/Q5 , .

R/ R f/R 0 R f - R f

Yi T

t

P>0.05 R0 R1 R f/R 0/

Q J L W R f - R f R/ P<

0

n #

F

P<

0.05

R0 R1

R f/R 0 R f - R f

0.05

n

P<0.05 n

2

R/ G D D J/W

P>0.05 n R0 G D D J/W R/

2,1

P<0.05 R1 G D D J/W R0

/ / /@ K G

P<0.05 n R0 R1

P>0.05 n /ⁿ

G D D J/W

/ Yi T Đ.

P<0.05 n 1ⁿ ! D p x t A v Q @ Ê % f R Ā ! U Ž ! S & • ! d Ō X à ! 0 Ó ! 1 ŋ 0 U Ž ! f & • ! d

2,4 ? n e _ p

P<0.05

P>0.05

? n e _ p

P<

0.05 n 2ⁿ

2,5

2,2

R/ L C C A m p

P<0.05 n 3ⁿ

P>0.05 R0 L C C A m p

1		R f R 0 R f - R f Y i T			
R _ ` 1 j A m k n _ p g q m l m d _ b t c p q c p c _ a t g m t q _ d r c p b c j g t c p w g l		R f R 0 R f - R f Y i T			
		n ; 60			
		t			
		P			
G D W e - k J	R /	/ 7 , 3 3 0 2 / 7 , 3 1 2 7 . , 2 0 7 . , 1 1 4			
	R 0	/ 2 , 2 6 6 / / 0 , 3 1 0 5 1 , . . 6 . , . . 0			
	R 1	/ . , 0 0 5 4 6 , 7 0 2 , / 0 1 , 5 1 7 . , . . .			
	F	6 , 2 / 4 / 0 7 , 0 2			
	P	. ,			
G J W e - k J	R /	1 7 , 4 0 2 2 2 . , 4 4 5 5 . , 4 7 4 . , 5 3 4			
	R 0	1 / , 3 2 5 0 0 4 , 3 1 0 2 2 , 6 0 1 . , . . .			
	R 1	0 3 , 2 0 2 1 / 6 , 2 0 6 2 / 1 , 4 7 2 . , . . .			
	F	4 , 7 2 0 / . , 6 7 4			
	P	. ,			
R f #	R /	7 , 4 2 , 0 0 7 , 6 0 , / 4 . 1 . 7 . , 4 0 /			
	R 0	4 , 5 0 3 , 2 5 2 , 5 / 4 , 4 2 3 , / 7 7 . , . . .			
	R 1	2 , 7 / 4 , 6 2 1 , / 0 , 0 5 4 , 1 5 3 . , . . .			
	F	/ / , 3 0 2 / 2 , 2 5 4			
	P	. ,			
R 0 #	R /	2 , 1 / , 5 2 2 , 1 / 4 , 6 3 . , / 3 1 . , 3 4 /			
	R 0	1 , 2 / 0 , 1 / 0 , 6 / 0 , 1 2 0 , 2 6 . , . . . 5			
	R 1	0 , 7 / 2 , 0 2 0 , 2 / , 3 0 , 3 0 5 . , . . . 4			
	F	3 , 7 6 2 6 , 2 0 7			
	P	. ,			
R f - R f	R /	0 , 1 / 2 , 0 4 0 , 1 / 7 , 4 2 . , / 6 5 . , 3 5 2			
	R 0	0 , / 0 , 7 4 / , 4 7 , 4 0 0 , 3 1 0 . , . . . 4			
	R 1	/ , 5 2 , 6 4 / , 1 4 , 6 / 0 , 5 3 2 . , . . . 1			
	F	4 , 3 / 7 7 , 2 / 4			
	P	. ,			
_		R /	P < 0.05	R 0	P < 0.05, c

2		? n e _ p Y i T			
R _ ` 2 j A m k n _ p g q m l m d _ b t c p q c p c _ a t g m t q _ d r c p b c j g t c p w g l		? n e _ p Y i T			
		n			
		t			
		P			
G D W e - k J	R /	/ 7 , 3 3 0 2 / 7 , 3 1 2 7 . , 2 0 7 . , 1 1 4			
	R 0	/ 2 , 2 6 6 / / 0 , 3 1 0 5 1 , . . 6 . , . . 0			
	R 1	/ . , 0 0 5 4 6 , 7 0 2 , / 0 1 , 5 1 7 . , . . .			
	F	6 , 2 / 4 / 0 7 , 0 2			
	P	. ,			
G J W e - k J	R /	1 7 , 4 0 2 2 2 . , 4 4 5 5 . , 4 7 4 . , 5 3 4			
	R 0	1 / , 3 2 5 0 0 4 , 3 1 0 2 2 , 6 0 1 . , . . .			
	R 1	0 3 , 2 0 2 1 / 6 , 2 0 6 2 / 1 , 4 7 2 . , . . .			
	F	4 , 7 2 0 / . , 6 7 4			
	P	. ,			
R f #	R /	7 , 4 2 , 0 0 7 , 6 0 , / 4 . 1 . 7 . , 4 0 /			
	R 0	4 , 5 0 3 , 2 5 2 , 5 / 4 , 4 2 3 , / 7 7 . , . . .			
	R 1	2 , 7 / 4 , 6 2 1 , / 0 , 0 5 4 , 1 5 3 . , . . .			
	F	/ / , 3 0 2 / 2 , 2 5 4			
	P	. ,			
R 0 #	R /	2 , 1 / , 5 2 2 , 1 / 4 , 6 3 . , / 3 1 . , 3 4 /			
	R 0	1 , 2 / 0 , 1 / 0 , 6 / 0 , 1 2 0 , 2 6 . , . . . 5			
	R 1	0 , 7 / 2 , 0 2 0 , 2 / , 3 0 , 3 0 5 . , . . . 4			
	F	3 , 7 6 2 6 , 2 0 7			
	P	. ,			
R f - R f	R /	0 , 1 / 2 , 0 4 0 , 1 / 7 , 4 2 . , / 6 5 . , 3 5 2			
	R 0	0 , / 0 , 7 4 / , 4 7 , 4 0 0 , 3 1 0 . , . . . 4			
	R 1	/ , 5 2 , 6 4 / , 1 4 , 6 / 0 , 5 3 2 . , . . . 1			
	F	4 , 3 / 7 7 , 2 / 4			
	P	. ,			
_		R /	P < 0.05	R 0	P < 0.05, c

3		L C C A m p			
R _ ` 3 j A m k n _ p g q m l m d _ b t c p q c p c _ a t g m t q _ d r c p b c j g t c p w g l		L C C A m p			
		n			
		t			
		P			
G D W e - k J	R /	/ 7 , 3 3 0 2 / 7 , 3 1 2 7 . , 2 0 7 . , 1 1 4			
	R 0	/ 2 , 2 6 6 / / 0 , 3 1 0 5 1 , . . 6 . , . . 0			
	R 1	/ . , 0 0 5 4 6 , 7 0 2 , / 0 1 , 5 1 7 . , . . .			
	F	6 , 2 / 4 / 0 7 , 0 2			
	P	. ,			
G J W e - k J	R /	1 7 , 4 0 2 2 2 . , 4 4 5 5 . , 4 7 4 . , 5 3 4			
	R 0	1 / , 3 2 5 0 0 4 , 3 1 0 2 2 , 6 0 1 . , . . .			
	R 1	0 3 , 2 0 2 1 / 6 , 2 0 6 2 / 1 , 4 7 2 . , . . .			
	F	4 , 7 2 0 / . , 6 7 4			
	P	. ,			
R f #	R /	7 , 4 2 , 0 0 7 , 6 0 , / 4 . 1 . 7 . , 4 0 /			
	R 0	4 , 5 0 3 , 2 5 2 , 5 / 4 , 4 2 3 , / 7 7 . , . . .			
	R 1	2 , 7 / 4 , 6 2 1 , / 0 , 0 5 4 , 1 5 3 . , . . .			
	F	/ / , 3 0 2 / 2 , 2 5 4			
	P	. ,			
R 0 #	R /	2 , 1 / , 5 2 2 , 1 / 4 , 6 3 . , / 3 1 . , 3 4 /			
	R 0	1 , 2 / 0 , 1 / 0 , 6 / 0 , 1 2 0 , 2 6 . , . . . 5			
	R 1	0 , 7 / 2 , 0 2 0 , 2 / , 3 0 , 3 0 5 . , . . . 4			
	F	3 , 7 6 2 6 , 2 0 7			
	P	. ,			
R f - R f	R /	0 , 1 / 2 , 0 4 0 , 1 / 7 , 4 2 . , / 6 5 . , 3 5 2			
	R 0	0 , / 0 , 7 4 / , 4 7 , 4 0 0 , 3 1 0 . , . . . 4			
	R 1	/ , 5 2 , 6 4 / , 1 4 , 6 / 0 , 5 3 2 . , . . . 1			
	F	4 , 3 / 7 7 , 2 / 4			
	P	. ,			
_		R /	P < 0.05	R 0	P < 0.05, c

3		L C C A m p			
R _ ` 3 j A m k n _ p g q m l m d _ b t c p q c p c _ a t g m t q _ d r c p b c j g t c p w g l		L C C A m p			
		n			
		t			
		P			
G D W e - k J	R /	/ 7 , 3 3 0 2 / 7 , 3 1 2 7 . , 2 0 7 . , 1 1 4			
	R 0	/ 2 , 2 6 6 / / 0 , 3 1 0 5 1 , . . 6 . , . . 0			
	R 1	/ . , 0 0 5 4 6 , 7 0 2 , / 0 1 , 5 1 7 . , . . .			
	F	6 , 2 / 4 / 0 7 , 0 2			
	P	. ,			
G J W e - k J	R /	1 7 , 4 0 2 2 2 . , 4 4 5 5 . , 4 7 4 . , 5 3 4			
	R 0	1 / , 3 2 5 0 0 4 , 3 1 0 2 2 , 6 0 1 . , . . .			
	R 1	0 3 , 2 0 2 1 / 6 , 2 0 6 2 / 1 , 4 7 2 . , . . .			
	F	4 , 7 2 0 / . , 6 7 4			
	P	. ,			
R f #	R /	7 , 4 2 , 0 0 7 , 6 0 , / 4 . 1 . 7 . , 4 0 /			
	R 0	4 , 5 0 3 , 2 5 2 , 5 / 4 , 4 2 3 , / 7 7 . , . . .			
	R 1	2 , 7 / 4 , 6 2 1 , / 0 , 0 5 4 , 1 5 3 . , . . .			
	F	/ / , 3 0 2 / 2 , 2 5 4			
	P	. ,			
R 0 #	R /	2 , 1 / , 5 2 2 , 1 / 4 , 6 3 . , / 3 1 . , 3 4 /			
	R 0	1 , 2 / 0 , 1 / 0 , 6 / 0 , 1 2 0 , 2 6 . , . . . 5			
	R 1	0 , 7 / 2 , 0 2 0 , 2 / , 3 0 , 3 0 5 . , . . . 4			
	F	3 , 7 6 2 6 , 2 0 7			
	P	. ,			
R f - R f	R /	0 , 1 / 2 , 0 4 0 , 1 / 7 , 4 2 . , / 6 5 . , 3 5 2			
	R 0	0 , / 0 , 7 4 / , 4 7 , 4 0 0 , 3 1 0 . , . . . 4			
	R 1	/ , 5 2 , 6 4 / , 1 4 , 6 / 0 , 5 3 2 . , . . . 1			
	F	4 , 3 / 7 7 , 2 / 4			
	P	. ,			
_		R /	P < 0.05	R 0	P < 0.05, c

/ 2 G D 0 W G J / W 3 , R
 n H , 0 . / 157/ 3 0 0 6 0 0 2 ,
 ? n e _ p 4 ,
 R H ,
 0 . / 751 / 6 4 W / 7 3 ,
 n ? n e _ p 5 Q _ g r m Q i _ q f g Q f g k _ c R _ j , R f R 5 _ l b
 p c e s j _ r m p w R W a c j j n H _ p ? k g H R W n l G k p c e l _
 k s l n 0 j . / 4 . 14 4 . / W 4 / . ,
 / 3 n 6 , H ,
 0 . / 7 / 2 1 1 6 W 1 2 0 ,
 R f - R f 7 ,
 G D 0 W G J / W n / H ,
 0 . / 7 50 6 . W 6 1 ,
 n / . ,
 H , 0 . / 710 / 2 5 W / 3 . ,
 / / , R f - R f
 / ? x g x g P k _ b g B K _ l _ g c g r Q _ j , A w a j m W n m p g l c ? G k H , 0 . / 7 .
 n p m t c q N p c e l _ l a w M s r a m k c q g W U m k c l U g r f P c a s p p c l r N p c e
 l _ l a w J m q q _ l b C 0 F c _ t r _ l m c h A d j j N f w g g m j 7 9 5 5 5 W 5 5 7 ,
 0 . / 0 7 1 2 . / 7 . 1 7 W 2 5 , g k k s l c g k _ j _ l a c _ l b m _ c q g r w g l u m k c
 0 ? f k _ b g K b m j k m f _ k k _ E f W t _ 0 g k b W , C d n m j w a w q r g a m H _ p E w d w a b n j n C k 0 c b 7 1 0 2 p g l m j
 d c a r m d G l r p _ t c l m s q / G k l b S R m k j m s j g l m l R f W 5 / 2 ,
 a w r c q _ l b G k n p m t c k c l r m d N p c e l _ l a w M s r a m k c g l P c a s p p c l r , N G C @ N A C ?
 N p c e l _ l a w N J m H q , q @ g m k c b N f _ 0 k _ 5 a m r f c p R f j R 0 H ,
 7 0 / . 7 3 W / / . 0 , 0 . / 0 7 5 / 0 / 4 2 . W / 4 2 2 ,
 1 H , 0 . / 0 7 6 / / / . 0 3 W / . 0 7 , / 2 , R f - R f
 2 F c l p g o 5 c ? p H g c j P m b g K v N _ j , L m W W n f 3 p k c j c k g l q ? i k w K m x P a n q q l c c p r N _ j , M v g b _ r g t c
 a m j m e g a _ j G l r c p t c l r g m l q B 3 p W l e A f g j b _ g p r f d m p N _ g l P c j g c d H , c p W s r K m b c q
 g c r _ w l b L c s p m c l b m a p g l c ? Q P r p l c b m k N x p b k c r 8 p g m a p 9 0 m 1 5 4 c 2 2 3 W 2 3 / ,
 A m l r p m j H j c 5 R p g l _ l j s o p . q / 0 6 2 1 _ a 0 4 2 0 ,

2 N e T M
 ,
 0 . / 1 3 , 0 . / 7 4 4 5 2 6 3 W 3 . 7 ,
 3 , H ,
 0 . / 156/ / 1 W / 4 ,
 4 , F s / e j W P f m ?
 H , 0 . / 162
 / 0 / 0 5 2 W / 0 6 . ,
 5 H g l Q f g l 0 F s l W c _ j , ? q r p m a w 0 r . c W b c p g t c b A A J
 p c g l d m p / W k c F G W c b f w n m v g a p c q n m l q c q g l e j g m _ j _ q r m k _
 ` w q r g k s] q g l e j g m _ j _ q r m k _

à q b m k _ \$ x d ^ 0 0

/ 3 , 6 3 #

P>

0.05

/ R _ ` / j A m k n _ p g q m l m d ` _ q c j g Y i d b _ r _ m d c _ a f e p m s n q										
O . Y . M #										
n	-	R , .] Ä / ? - J								
13	54	26	, 43	, 14	.	, 3.0	, 2	2	4	0 / .
69	17	-	25	, 03	, . 3	.	, 3.2	, 3	/ 5 10	/ 0 3 1
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F / F		.	, . 5	. 0 , 032		7 , 654				+
P		.	, 744	.	, / . 5	:	, . . /			. , 757

P<0.05 n +N D g q f c p n

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TCED n 0. / 2/ 0. / 3/ 7 6
 3.
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 n CED/TCED
 P<0.05 CED/TCED
 P>0.05 CED/TCED /
 / / P<0.05 CEDPTCED r;0.859 P<0.05 n
 CED/TCED n

CvnpccqgmI md CEDP _lb TCED gl _qrpmawrc rskmp rgqqscq _lb rfcgp
 amppcj_rgmI ugrf n_rfmjmega_jep_bc
 XF?LEAf WS?L H g _CILE E _VIC Ws _IQS_H S O g MSe? L V g _J Q F g mws
 B c n _ p r k c l r m d V g _ s p e n g _ s F a c q l p r o p r _ j j Q m s r A f f _ S _ l l g F a f b _ A f g v 2 / . . . 6

ABSTRACT Objective To explore the expression of epidermal growth factor receptor (EGFR) in astrocyte tumor tissues and its relationship with tumor progression. Methods A total of 98 patients with astrocyte tumors who were admitted to the hospital from January 2014 to January 2015 and 50 normal brain tissue specimens were collected. The expression levels of EGFR and VEGF proteins in the astrocyte tumor tissues were significantly higher than those in the adjacent normal tissues and the normal brain tissue (P<0.05). Results The positive expression rates of EGFR and VEGF in the tumor tissues were significantly higher than those in the adjacent normal tissues and the normal brain tissue (P<0.05). Conclusion The high expression of EGFR and VEGF proteins in tumor tissues of patients with astrocyte tumor may promote the progression of the disease course.

KEY WORDS astrocyte tumor; EGFR; VEGF; expression; progression

0 . 0 . 6 ' 6 6

0 . 0 . 6			/ 0	6	H K m j B g _ e l R 0 c p * ? / 3 0 1 9 m 6 r
/ T C E D			/ C E D P C E D		
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P > 0.05 n			_ l b _ b h _ a c l r h m # p k _ j r g q q s c q		
2,2 EGFR / T C E D					
			n	EGFR	T E D P
			98	6 46 5 , 5 4 7 07 1 , 6 6	
* 0 1) 3 F 3 0 7 0 S 3 • F 3 0 j ! f 2 (÷ 0 0 Y / y • ! O ÷ € 0 Y			98	/ 2 / 2 , 0 6 / 5 / 5 , 1 3	
C E D / T C E D			50	2 6 , . . . 3 / . , . .	
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7 S Ç ! ' •] 7			0 Â õ x Đ d f \$ Õ X à		
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u			T ^ / C E D u		
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D g e f p c v n p c q q g m l m d C E D P _ l b T C E D Ä 0 p m r c g l q g l r g q q s c q					
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3

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⁷ n CEDP

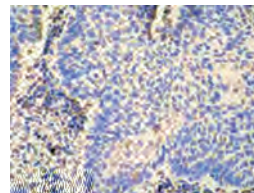
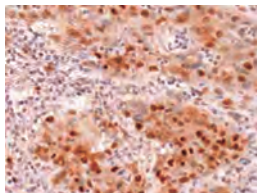
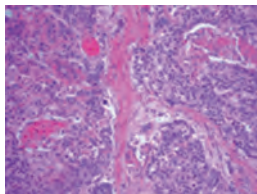
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1 NBŴJ T g k X c / ` Q R ? 1 R

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T g k	)	2 4 0 /	.	, 0 5 .. , . . 3	CŴa _ b f c p g l	T g k
		/ 4 0 1				NBŴJ
X c / `	)	2 6 0 1	.	, 0 4 1 , . . 4	CŴa _ b f c p g l	Q j s e
		/ 2 0 /			R u g q r	R @

- 1 X _ l e J A g s V g @ c r _ j 4 , - Q 4 W R U G Q R g l f g ` g r g m l
p c t c p q c q g m l g x g l e p _ b g _ r g m l W g l b s a c b C K R _ l b p _ b g m p c q g q r _ l a c
g l c q m n f _ e c _ j q o s H , k m s a m a r 0 p p a c c l m k _
5 / / 0 0 6 W / / 0 1 6 ,
- 2 R q s r q s K g c Q 4 F i _ q f g c k r _ W j , / N B W p c q q g m l
_ r r s k m p g l t _ q g t c d p m l r g q _ q W i m a g _ r c b u g r f C K R _ l b n m m p n p m e
l m q g q g l c q m n f _ e c _ j q 6 l s _ A k m s a c c p Q j a j g a _ p a g l m k _
0 . / / 5 . 8 / / / 7 / 0 5 ,
- 3 X f _ l e A f c l Q W A c d p m r Σ p e c ! r , ! Ƀ €
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3 y ? l {

s c a r / . / 5 / 6 D 4

X , , I H H X / . / . 2 / 5 D H H

3 W

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0 1 3 . . .

C F k _ t g j k x _ l >

0 . 0 .

		/ n #				
	R_`j	A m k n _ p g q m l m d a j g l g a _ j	R e p m s n q	l r c d d c a r	` c r u c c l r f	
	n					
	60	/ 00 . , . .	0 72 6 , 1 1	/ 50 6 , 1 1	0 1 , 1 1	3 67 4 , 4 4
	60	1 3 , . .	/ 20 1 , 1 1	0 72 6 , 1 1	/ 20 1 , 1 1	2 45 4 , 4 4
F	-	+	+	+	+	4 5 , 0 0
P	-	+	+	+	+	. , . . .

2,2

R L D W G J W

2,3

R L D W G J W

/ /

P<0.05 n 0ⁿ

/

P<0.05 n 1ⁿ

0

R L D W G J W

Yi T

2,4

R_`0j A m k n _ p g q m l m d b R e p m s n q p c q q g m l j c t c j q

` c r u c c l r f s c n q ` c d m p c _ l r d r c p r p c _ r k c l r

2 4 , 4 4 # 0

R L D W e - k J

G J W e - k J

/

/

n;60

n;60

n;60

n;60

1 3 , . / #

/

/ n

1 . , 1 4 6 5 , 2 0 , 3 6 5 , 3 4 2 0 4 / , 3 3 1 /

1 / , 1 / , 0 // 5 , 0 1 1 7 5 , 1 1 0 3 1 3 , 4 1 2 6

t / , 1 . . 0 / , 7 2 0 . , / 1 2 1 / , / 2 .

F; 0.152 P>0.05

P . , / 7 4 . , , 6 7 1 . , . . .

n

1

Yi T

R_`1j G k n p m t c k c l r m d q w k n R e p m s n q p c q q g m l j c t c j q

	n	b	b	b	b
	60	0 , 2 3 , ' 5 /	2 , 4 / 7 , ' 5 /	2 , 1 1 , ' 2 7	2 , 4 3 , ' 0 3
	60	4 , 1 7 , ' 2 .	5 , 7 0 4 , ' . /	4 , 6 5 , ' 6 3	4 , 5 5 , ' 1 1
t	-	1 5 , 2 3 0	7 , 3 7 6	4 , 6 . 1	1 7 , 4 4 2
P		. ,	. ,	. ,	. ,

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A P N

N ? D

K N N

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B Ŵ B / A

A N ? Š , a



P<0.05 ,Conclusions Children with MPP are in a state of hyper
coagulability and inflammatory reaction, The detection of D-DP N? DN _ l b n j _ r c j c r n _ W p _ k c r c p q f _ q _ l c
s _ r g m l t _ j s c d m p r f c b g q c _ q c ,

KEY WMRDS Q c c p c n l c k w a m n j _ a q k _ p B W b g _ a r g N j _ n p m r c g l a r g t _ r
g l e d _ N a j r _ m p c j c r n _ p _ k c r c p

K w a m n j _ q k _ n l c s k m l g _ c /
n l c s k k n n j _ / n
K N N 1,2
/ /
n K K N 1 0 k j
B W b g _ a p n
/ n / N ? D N ? D
K s j r g q i _ l Q i w
K K N n
1/2 K N N B W B W b g B W b a
A W p c _ a r g A R N h p m r c g l n
N j _ r c W y c r _ a r g n
t _ r g l e N d _ D a r m p 1,3
n B W B Q N Q Q / , .
A P N N ? D K N N n Y i T t
K N N K N Q J L W o
3 n K N N n # F P<0.05
B W b a p n ? D n
K K N n 2
1 2,1 B W b a p n ? D
1,1
0 . / 6 1 0 . / 7 / 0 B W b a p n ? D
K N N / 1 7 2 2 P<0.05 N J A R A R P<0.05
0 | / 1 4 , " 0 , 6 0 6 / / 4 B W b a p n ? D P<0.05
0 0 " , 1 6 , . i e 0 1 N J A R A R P<0.05 n N B U U P<0.05 y
n 7 3 0 | / 1 4 , " 1 , 2
3 6 / 1 5 0 0 " , 0 4 , B e
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4 , " 2 , 1 / 6 / 0 /
/ P>
0.05 K N N
N e T M 4 K N W G e K
< 6 . K K N
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0 KNN B W B A P N Y i T
R _ ` 0 j A m k n _ p g q m A P N B W B n j _ r c j c r n _ p _ k c r c p q g l _ a s r c q r _ e c m d q c t c p c K
Y i T

	n	DD	e - J	APN	e - JN	J A / ? - J N ? D	e - k JN	BU#	KNT	d j	NAR#
	23	/ 7 / 0	03	5 / , / 0	3 / 7 1 1	6 ; / / 3 , 10	7 / . , 6 0 2	4 7 , 2.6	6 6 . , ..7	1	
	21	/ 0 0 . / , 4	7	3 4 , / 2	3 , 1 0 5 4 1	8 ; 2 5 , // 4 , 6 2	/ . , 4 2 4	7 7 , 3.5	5 4 . , / . 6	4	
t		/ / , 5 . .	/ , . 0 5	6 , 4 0 3	/ 4 , 3 2 0	. , 1 / 1 + . , 4 4 7	+ 1 , 3 2 3				
P		. ,	. , 1 / .	. ,	. ,	. ,	. , 5 3 4	. , 3 . 5	. , . . /		

1 KNN B W B A P N #

	n	DD	e - J	APN	e - JN	J A / ? - J N ? D	e - k JN	BU#	KNT	d j	NAR#
	139	/ 4 2 / 0	0 7	4 2 , / 0	3 / 6 4 1	6 ; 5 / / , 0 4 / 7	/ . , 5 1 6	4 7 , 2.6	6 6 . , / . 0	5	
	139	1 5 5 6	7 ; 1 / 2	30	0 3 4 3	2 ; 2 3 , 7 / 2	/ 1 / . , 4 / 6	. 7 , 5. / , 6 /	. , 0. / , . 6		
t		4 . , 4 7 .	0 6 , / / 0	/ . , 2 5 1	/ 0 , 1 7 4	. , 3 2 5	+ 0 , 0 4 5	3 , 3 2 3			
P		. ,	. ,	. ,	. ,	. , 3 6 3	. , . 0 2	. ,			

2 , BŴ / J B F A P N
n A M 0 C Q P H , 0 . / 5 0 / 4 1 6 Ŵ 1
1 6 / 3 ,
3 , N A A P N
OU: / 0 / 3 5 4 3 H A 4 8 2 6 2 A 6 5 4 0 2 / 8 ' / 4 1 4 8 1 2 0
BŴB
BŴB
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N J A R
n K N N
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/ 3 N J A R
K N N
n K N N
K N N
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n

/ , 0 . 0 5 . / 6
H , 0 . / 7 /
2 1 0 7 Ŵ 1 1 5
0 Q ã l b c p e _ D _ p p b g K F K @ q c l c B Q j , A j Ŵ l g a _ j k _ l g
d c q r _ r g m l q g l g l d _ l r q _ l b a f Ŵ j b p c l u g r f K w a m n j _ q k _ n l c s k m l g
_ c g l d d a N g i m l q M . l / 6 1 2 / Ŵ / . ,
1 ,
BŴ A P N H , 0 . / 5 . 5
4 3 2 Ŵ 4 3 4 ,

k g P W n HOXB7

PL ? M n k g P W n /
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Q U 5 6 . k g P W n @ 5 F M V @
k g P W n F M V @ U c q r c p l @ j m r k g P W n
F M V @ Q U 5 6 . F M V @ N 3 1 V K K N V
K R R R p _ l q u c j j n n a B L F M V @ k g P W

/ 5 0 / . 0 1 / . 3 6 6

2 5 / . . .

C F k _ / 5 3 4 4 1 2 7 > o o , a m k

HOXB7 q g e l g d g a _ l r j w q s n n p g c l q t _ c p g a n d j _ j l b p l n g e p d _ c p g m l g m d ` j _ b b c p a .
a c j j q b s a c b r f 3 1 _ d t c k j q m p m n _ c g b q r f c b g d d c p c l a c q u c p c q r _ r g q r g a _ j j w q
0.05 , G l _ b m g t r c g m c l v n p l d O X B 7 g n e r s e d t h e i n h i b i t o r y e f f e c t s o f m i R 1 8 2 5 p o n c e l l
p r o l i f e r a t i o n g l t _ q g m l _ l c o n c l u s i o n m i R 1 8 2 5 p i n h i b i t s c e l l p r o l i f e r a t i o n g l t _ q g m l _ l b
k g e p _ r g m l m d ` j \_ b b c p a \_ l a c p H O X B 7 . j q ` w r _ p e c r g l e _ l b p c e s j _ r g l e
KEY WMRDS @ j b _ b c p a _ A b a j g p F W 0 W / B M V @

n
n
P L ? q g a p l n ? q g P L ? q - k g P
P L ? n
P L ? M n k g a p m P n
k g P n
² n k g P n
n
k g P n
@ 5 f m k c m 5 m v @ O X B 7
HOXB7
k g P n
³ n
k g P n F M V @

A

P<0.05 n

B

i B _ K _ i c p
k g P W a m l
k g P W 0 W 3 n
- l r g W k g P W a m l
- l r g W k g P W 0 W 3 n

/ 5 .
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7 3
5 0

3 3

3 1

FMV@
2 6 B _
W W _ a r g l
2 6 B _

? , F M V @ 1 S R P k g P W 0 W 3 n

@ , U c q r c p l k g P W 0 W 3 n F M V @ n

0 k g P W 0 W 3 n F M V @

D g e 3 p k g P W 0 W 3 n r _ p e c r c b _ 5 l b p c e s j _ r c b F M V @

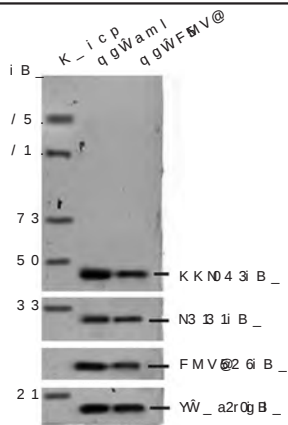
n p m r c g l c v n p c q q g m l

1

Y i T n ; 9

R _ ` 1 j B s _ j j s a g d c p _ q c p Y i T n ; 9 r c p c v n c p g k c , l r

	FMV@WUR	FMV@WKS R
k g P W a m l / , . . , " / 1	. , 7.6 , " . 5	
k g P W 0 W 3 n . , 3.7 , " . 4	/ , . . 6 , " / 1	
t 6 , 3 7 /	0 , . 1 0	
P . , . . .	. , . 3 7	



1 U c q p l ` j r Q U 5 6 . F M V @ N 3 1

D g e 3 p k g P W 0 W 3 n r _ p e c r c b _ 5 l b p c e s j _ r c b F M V @

n p m j g d c p _ r g W p c j l b r k c b e n p _ a r g c i g l q g l Q U n

1 / 2 n

2,5 F M V @ k g P W 0 W 3 n Q U 5 6 .

/

k g P W a m l k g P W 0 W 3 n

2 6 f 5 0 f Q U 5 6 . / /

/ N 3 1 K K N 0 V

P<0.05 0 , 0 n

k g P W 0 W 3 n F M V @ n

k g P W 0 W 3 n n a B L ? k g P W 0 W 3 n

n a B L F M V @ F M V @ N 3 1

K K N 0 V /

P<0.05 Q U 5 6 . 2 6 5 0 f

P<0.05 n 2 3 n

i B _ / 0 1 2 3

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K K N 4 4 i B _
N 3 3 1 i B _
F M V @ 2 6 B _
W W _ a 2 r 0 g B _

/ , K _ D c , k g P W a m l k g P W 0 W 3 n , k g P W 0 W 3 n) n a B L ?

3 , k g P W 0 W 3 n) n a B L ? W F M V @

3 Q U 5 6 . F M V @

D g e 3 p c v n p c q q g m 5 q m p r F M V @ c p _ r g m l _ l

k g e p _ r g m l W p c j 5 6 a d j n p m r c g l g l Q U

3

k g P L ? q

P L ? 1 S R P

M B 7 t k a 3 n ^ n d @ m ' f n ^ ^ ^

3 6 y x P A r 6 W 6 e . A @ R % 6 e P A U y % @ % V , M A i A d e

T J @ @ P A i U P 3 6 y x P A ^ y % u Q D B % # 7 7 , % u Q A i E 4 d 6 e P A D P e P A T 2 @ Y .

q g W a m l
q g W F M V @
t
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MB_{7 L k}

0 2f 2 6f 6

kg P W a m l . , 2.1, "...2, 5.0, "... 5

kg P W 0 W 3 n . , 1.7, "...2, 2.5, "... 3

kg P W 0 W 3 n) n a B L 2 . , "...3, 3. /, "... 3

kg P W 0 W 3 n) n a B L . ? W F M V . @ 4.4, "... 2

F / , 0 6 / 2 2 , 2 3 0

P . , 0 7 6 . , . . .

0 6 7 0471 5 2 16 0878 4 5

;0.732 ? S A _ / u c c i q
 _ d r c p ; 0.830 e, c p f w c n p c b g a r g 4 d j c d d j a r _ n d A W P c q r d m p f c _ W g l e b c j _ w m d n _ r g
 _ j n j _ r c _ s d p _ a r / s 0 p r c f q u s c p c e i c p d n 6 A r q f s c e i p w d r c 0 6 5 1 s p S A p / v 0
 u c c i q _ d r ; 0.813 q s Q e p s w A W P c j u _ q n m q g r g t c j / w a m p j p c d r c p b r g g g f G E D W r c _ s
 d p _ a r s p C o m p l e s s i o n c S e r u m , C Y F I 1 and I G F I 1 levels in patients with tibial plateau fractures have a
 high value in predicting delayed healing after surgery l b a _ l ` c s q c b _ q n m r c l r g _ j q c p s k k _ p i c p q ,
 KEY WMRDS A W P 4 / G E D W g ` g _ j d f c _ a j r g s l p t p c b g a r g m l

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? a _ q c m d g l d _ l r g j c g l d j _ k k _ r m p w ` m u c j b g q c _ q c _ l b j g r c p _ r s p c _ l _ j w q q q
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B c n _ p r k c l r m d G l 2 l k f a s g u N p m B g b a q F m q A f g g l j 2 h p f c A g f g D 1 . . 3 /

ABSTRACT Mbjective To deepen the understanding of the characteristics of infantile IBD through one case of inflammatory bowel diseases. Methods A 6-year-old male infant was diagnosed as infantile IBD based on his clinical manifestations and colonoscopy character. The whole exome sequencing results revealed that the child had a novel homozygous mutation in the *IL10RA* gene, c.1016G>A (p.G339V). The mutation was confirmed by Sanger sequencing. Conclusion The heterozygous mutation in the *IL10RA* gene cause infantile IBD.

KEY WMRDS G l d j _ k k _ r m p w G h d c j G J/W P ? c d f m j c c v m k c q c o s c l a g l e

g l d j _ k k _ r m p w ` m u c j b g q c _ q c
G@B

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s j a c p _ r g S t A c / a m j g r g q
A p m f b g q A B q c G@B G@B W
s l a j _ q G@B W S b G@B



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a c n f _ j m b m m p g a m k w a g l W p c q g q r _ l r E p _ k W n m q g r g t c ` \_ a r c p g \_ f \_ t c ` c c l d r
KEY WMRDS ? a s r c a c p c ` p E n j q g n l g d r \_ p j a W r \_ g a n o l s b g g b p n g l ` c s s r k g m l l g m d n _ r f m e c l g a
` _ a r B p g e p c q g b r g l _ a æ r c B p p g s _ e j q b c p l s q e g q r g t g r w r c q r

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R _ `2j @ l _ j w q g q m d b p s e p c q g q r _ l a c m d k _ g l e p _ k W n m q g r g t						
	n;25		n;20		n;11	
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Q B D $\hat{W} G A ? / K \hat{W}$ P<0.05

5 1 , 6 / / # 7 / , 6 4 # ? S A . , 6 6 0 ? B $\hat{W} Q B D \hat{W} G A ? / K \hat{W}$

r ; 0.623 / . , 2 / 5 5 2 P<0.05 L c c p r ; -

0.826 / + . , 5 / 7.2, 5 P<0.05 n ? B $\hat{W} Q B D \hat{W} G A ? / K \hat{W}$

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P<0.05 r f c ? S A m d n m q r m n c p _ r g t c g l d c a r g m l _ d r c p h m g l r b g _ e l m
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g b ? / B Q B D W l b q G A f ? K W _ q g e l g d g a _ l r n m q g r g t c ; 0 6 2 8 p p c 2 5 _ 5 2 7 m . l u g r f f c _ j g l e r
P<0.05 _ l b _ l c e _ r g t c a m p p c r j ; - 0 . 8 2 6 m + l u 5 7 . 2 , 5 P 2 0 5 p c o n c l u s i o n A D β 1
Q B D W l b q G A _ p K W a j m q c j w p c j _ r c b r m r f c m a a s p p c l a c m d g l d c a r g m l _ d r c p _
R f c a m k ` g l _ r g m l m d r f c r f p c c g l b g a _ r m p q f _ q _ f g e f _ n n j g a _ r g m l t _ j s c
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ABSTRACT Acptga_j a_lacp gq _ amkkml k f g g e lq clprgms k r h w g f pum_krccll q
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glagbclac gq p p g g l e _ l b w m s l e c p , R f c m a a s p p c l a c _ l b b c t c j m n k c l r m d a
r _ i c q b c a _ b c q d m p k m q r n _ r g c l r q r m a f _ l e c d p A G L j m u g W a p _ g l g d q o s _ k m s q g l
a _ p a g G A A _ l b k m q r n _ r g c l r q _ p c b s c r m f g F e F W p N a j _ i s t s l o _ l w n _ n g j j m k _ t g
n c p q g q r c l r g l d a j r g l g l a _ R j f w c p a c p n c p l e r f c l g l e r f c c n g b c k g m j m e g a _ j _ l _
a c p t g a _ j b g q c _ q c q a _ l n p m t g b c _ ` _ q g q _ l b p c d c p c l a c d m p c _ p j w b g _ e
a p w m r f c p _ n w g q _ n f w q g a _ j r f c p s _ q s v _ k j c j w f j n d o r s t g h p t s g a c c o n e t p l c w d p g e c p c l r
_ l b r f _ u j m a _ j b l g c a c p _ m q q c g b q m p q l g d e a t h c _ p a _ f r g g e n t l c a j g l g a _ j r p c _ r k c l r r f p m s e f
R f s q f g q q r s b w s q c q a c p t g a _ j j c q g m l q _ q _ q r _ p r g l e n m g l r r m _ l _ j w x c
a c p t g a _ j l j c q m n c l v q j m p c r f c a j g l g a _ j c d d c a r q m d a c p t g a _ j a p w m r f c p _ n w
r m n p m t g b c c t g b c l a c _ l b p c d c p c l a c d m p a j g l g a _ j a c p t g a _ j j c q g m l r p c _ r

KEY WMRDS Acptga_j Aacptga_j Cjncgpgcnklgca_j m g w c l a c a f _ p _ a r c p g q r g a q
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