

T.C.

GUM GJ T'QUO CPIC \ ©P XGTU VGU
VKR'HCM©NVGU

DGJ ¥GV'J CUVCNK KPF C'RCVGL 'VGUV P P .
XGP " \ 'QMN© \ [QP 'UVTGU'VGUV "NG
FG GTNGPF T NO GU

F t0C { giÄnD PDQ C

±'J cuvcnmt,'Cpcdklo 'F en,

W\O CPNM'VG\

Vg|'F cp, o cp, F q±F tE gp ik|KORKMAZ

GUM GJ T

P UCP 62006

TEZ KABUL VE ONAY SAYFASI

T.C.
GUM GJ T'QUO CP IC \ ©P XGTU VGU "
VRHCM©NVGU 'FGMCPNK KPC "

C te v,to c"I ¾tgxrükF t0C { giÄnD PDQ Cø{c'Ck'"÷:Dgj±gv"J cuven ,pfc"rcvgtlk'
vguölp .X gp¾4| 'QmÄ | {qp"Uvtgu'vguk'kg"fg gtrpftkko guk'ø'cfn,"±cn, o c"Ätko k| "vtch,pfcp"
±"J cuvenmrt,"C pcdkko "F cnøfc"V ,rvc"W |o cpnm"Vg|k'qrctan"q{ "dkrk klq { "±qm w"kg"
mcdwn'gfko k vkt0

Tarih: 03.04.2006

IÄtkDc mcp , "R tqh0F t0\ chgt"ÄÄdc " o |c"
±"J cuvenmrt,'C pcdkko 'F cn,'Dc m0

© {g "R tqh0F t0O gj o gvUq { fcp" o |c"
±"J cuvenmrt,'C pcdkko 'F cn," t© {0

© {g "F q±F t0E gpik| Mq tmo c | " o |c"
±"J cuvenmrt,'C pcdkko 'F cn," t© {0

Gunk gj kt'Quo cpic |k© plxgtukgukV ,r'HcmÄnguk'[¾pgvko Mwtwvwpw'(0000)(0000)(0000)
Vctkj 'xg'(0000)(0000)Uc{ ,n,Mctct,{rc'qpc{rcpo , v,t0

R tqh0F t© tqn'I " MV©TM
Dekan

VG GMMOT

W|o cpm"g klo lo "uÃtgulpeg"jgt'mqpwf c"dkni k'xg"vgetÃdgrtkf rg"dcpc"{qri³4avgtp"
 xg"{gk o go fg"go gn'xgtgp"vÃo "jqecmt,o c."vg| "±cn, o cmt,o fc"dcpc"tgjdgtrk"gfgp"jqeco "
 Fq±F tEgpik|"Mqmo c|ø." dktrkng" ±cn, o cmcp" dÃ{Ãm" |gxm" cnf, ,o " vÃo " cukvcp"
 ctmfc mt,o c." xctn, ,o p" ugdgdk' ckgo g" xg" g lo g" vg gmÃt" gfgtko.

¥ PFGM NGT

	Sayfa No
¥ PFGM NGT (.....)	I
KISALTMALAR SAYFASI.....	II
“ \GV(.....)	III
“ \GV'* P I N \EG+(.....)	IV
I T (.....)	1
I GPGND NI NGT (.....)	3
I GTG¥ XG"[" PVGO (.....)	15
BULGULAR.....	19
VCTVK O C (.....)	29
UQPW¥NCT (.....)	36
KAYNAKLAR.....	37

KISALTMALAR

BH	Dgj±gv"j cuvcn ,
CRP	C- Reaktif protein
DPT	Deri paterji
ESH	Gtkvtquk'ugfko cpvcu{qp"j , ,
HSP	Ku," qmprotein
HSV	J gtrgu'uko rrgmu'xktAu
ICAM-1	pvgtugrÃngt"cf g {qp"o qrgnÃngtk
H¹	o o Ãpqhrg tguçp
IFN	pvgthgtqp
MNH	O qpqpÃmrggt"jÃetg
NK	Natural killer
PAI-1	Plazminojen cmkxc¼t'lpjklk¼tÃ
PBS	Fosfat tamponlu fizyolojik serum
PCR	Polimeraz zincir reaksiyonu
RA	Romatoid artrit
SLE	Sistemik Lupus Eritematozu
s IL-2R	UqñÃdrnlpvgtrgwmk 4"tgugr¼tÃ
TPA	F qnw"rnc o lpq lgp"cmkxc¼tÃ
WCDJ ¥ I	"Uluslara tcu,Dgj±gv"J cuvcn ,¥ cn, o c"l twdw
VCAM-1	X cunÃngt'ugrÃngt"cf g {qp"o qrgnÃngtk
VOST	X gp¼ "qmÃ {qp'lvrtgu'vguv

“ZET

Dgj±gvJ cuvcn, pfcRcvgtlkVguklplp.Xgp¾|Qmã|{qpUvtguVgukkg"
fg gtrgpfkfkno guk

F t© { giÃnDkpdq c"

Gunk gjkt'Quo cpi c|k©pkxgtukguk' ±"J cuvcnmtt,Cpcdkno F cn,VAtnkfg"

DJ ""ukvgo kn"xcunÃrkkm"dk"j cuvcnm"qwr "vcp,u,pfc"rcvgtlk""vgukhwmp,n,t0Cpean"
rcvgtlk'vguk"rq|khrk lplp"uqp" {,mctfc" {cr,np"±cn, o crctfc"e|cnf, , "i¾avgtko k vt0'Dw"
±cn, o cfc"XQUVøplp" rcvgtlk vguv" rq|khrk k' Ã|gtlpfg" dkt" gmuk" qwr" qm cf, ,p,p"
ctc v,t,m cu,"{cp,pfc."rq|khrk"Ã|gtlpfg"j cuvcnm"amxkguklplp"dk"tqã"qwr"qm cf, ,fc"
fg gtrgpfkfkf0

¥cn, o c {c'WCD¥ I "vcp,"¾nÃavgtlpg"i¾tg'DJ "vcp,u,"cm , "322"j cuvc""64'mcf ,p."7: "
gtmgn."{c "q t0'58032" {,n"cnp,mgp."47"uc nmn,"mqpvtn'i twdw"*: "mcf ,p."39"gtmgn."{c "
q t053032" {,n"cnpf ,0'J cuvcnct'xg"uc nmn,"mqpvtn'i twdpc."uc 'mqn'ngm¾4t" {Ã|Ãpg"42I "
k pg'kg'hrcukn"rcvgtlk'vguk"uqnlmqn"kg'XQUV "kg"42I "k pg'kg'hngm¾4t" {Ã|g"rcvgtlk'vguk
{cr,nf ,0'J gt"kn'mqn'6: "uccv'uqpte"fg gtrgpfkfkf0'J cuvcnct'Mtcwug'xg"ctmctfc nct,p,p"
kffgv'lpfksine i¾tg"uqtwrt'uqtwrtan"rwcprco crct,"{cr,nf,"xg""g "|co cpn,"qrcan'GUJ ."
CRP ve HLA-D7"±cn, ,nf ,0"''''

DJ øct,p,p"53øpfg"*' 53+"uc "mqnfc."5:øpfg"*' 5:+"uqnlmqnfc"XQUV"kg" {cr,np"
rcvgtlk'vguk"rq|khrk"dwmpfw0Rq|khrk"Ã|gtlpfg"ucfgeg"gtmgn"ekpuk{gvø"rq|khrk"¾pfg"gmk"
gwk k'ucrvpf ,0Mrlplm"dwniwrt"kg'RV"rq|khrk k'ctcu,pfc"fq twcn'dk"krkm"dwmpco cf,
J cuvcn, p"amkh'qnfw w"qniwrtfc'RVøplp"pgicvkhncm c" {¾pÃpfg"dk"t'g kno "i¾avgtfk k"qtc"
fgtgegik'dk"amxkg"rwep,"qncp"j cuvcnct,p'RVøplp"fcjc"±qm"rq|khrk'qnfw w"ucrvpf, Yani
j cuvcnm'amxkguk'ctwmpc'RV'pgicvkhncm c" g kno lpfg{f0

Uqpw±" qrcan<" XQUVøplp" rcvgtlk' vguv" rq|khrk k' Ã|gtlpfg" cprco n," dkt" gmuk"
i¾avgto gfk k'ucrvpf,0

Cpcjvt'¾4|eÃngt<Dgj±gv'j cuvcn, ,.Rcvgtlk'vguk'XQUV." kffgv'lpfgmuk'

SUMMARY

The evaluation of pathergy test in 'Vost' patients with rheumatoid arthritis stress test

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Günçay

Pathter test is performed. In the recent studies the decrease in the positiveness of the pathergy test is showed. The aim of this study was to investigate the effect of VOST on the positiveness of the pathergy test and the effect of disease activity on the positiveness of the pathergy test.

Classical pathergy test was found to be positive in 31 BD patients (%31) on the right arm and VOST pathergy test was found to be positive in 38 BD patients (%38) on the left arm. Pathergy test was more higher in male patients than female patients. There was no relationship between clinical signs and the positiveness of the pathergy test.

In conclusion, we found that VOST did not increase the positivity of pathergy test in BD patients.

Keywords: Pathergy test, VOST, severity index

I T

Dgj±gv'j cuvcn, .,{lpgrg{lek'c ,| "k'xg"i gpkcn'dni g"{ctrc t,pc.¼p'xg'ctnc'Ãxgkg.'" ekv'xg'gnrgo "uq twprct,pc"{qn'c±cp.'pgf gpk'dk'po g{gp'uÃtg gp'ug{ktk'dkt'xcumÃrkvkt"*3+0' m" qrc tam."3;59"{,npfc.'Rtqlh0F t0'J wmwukDgj±gv'vctch,pfcp"Ã±Ã"dgktvk"*chv."i gpkcn'Ãngt'xg" Ãxgkv+qrc tam"vcp,o rcpo cu,p,p"ctf,pfcp"*4+'Dgj±gv'j cuvcn, p,p"gnrgo rgt."i cuvtqkpvukpcn' ukvgo ."o gtmg|k'ukpk"ukvgo k'mcr "xg"jgt"±crvkn'ctvgt'xg"xgp" fco ctrct,p,"www w."dw" nede prg'fg'ukvgo kn'xcumÃrkkn'dkthas vcnm'qrc tam'fg gtrgpfkkn g{g'dc rcpf, ,¼4{rpgdkkt" (3).

J cuvcn, p"Ãtf g "qm c{cp'mkpk"dwniwrt,."eq tch'xg"gvkn'hc tmn, c"i¼tg"dc|," mkpk"dwniwrt,p,p"hc tmn,"ug{tgo guk'vcp,fc"iÃ±Ãngt" {qn'c±o amcf,t0'Dw"pgfgprg."dw" |co cpc"mcfct"±qm uc{,fc"vcp,"¼±Ãngt' i grk vkn k vkt0'Gp"uq"3; ;2" {,npfc." {cr,rp" wmwrtctcu,"dk'vqrmpv,fc"Dgj±gv'j cuvcn, ,vcp,"¼±Ãngt' i grk vkn k vkt0'Dw"vqrmpv,fc" rcvgtk'vguk'fg'j cuvcn, p'o k¼4'vcp,¼±Ãngt'pfgp'dktk'qrc tam'ncdwn'gfk k vkt"*6+0

Paterji testi, d gtlp'f, "w{ctcprct'mct ,xgtfk k¼4|iÃn'qm c{cp.'c ,t,"vgrmk'uqpwew" i grk gp"rcrÃn'xg"rÃvÃn'kg"¼4|gnkn'k'mkpk"dk" fwtwo fwt0'RRF "vguk'ikdk"ig±"vkr"c ,t," fw{ctn,m'vgrmko grgt'pfgp'dktk'kt0'cpcam'RRF ølp"vgtulpg"rcvgtk'vguk'u,tcu,pfc"jgtjcpik' bir ant klpkn'w{ct,"xgtkn g|0'C {t,ec'RRF ø{g"i¼4tg"vgrmko gpkp"fcjc"gmngp"dc rco cu,"xg" uqprcpo cu,"c{,tv'gflekfk"*7 9+0'Rcvgtk'rq|kkn k'cprco ,pc"i grgp"rcrÃn' {c"fc"rÃvÃn'f gp" dk'qruk' {cr,rctam"ko o Ãpqj kvqr lkn"qrc tam"lpegp'pk kpf"fgto kvg." {q wp"o qpqpÃnggt" jÃetg"O P J +vqrmpo cu,."fcjc"|"qtcpfc"p¼vtqkn'dkkn k" fco ctrctfc"lug"gpfqvni" ko guk' k|rgpk0Dw"ctcfc"gpfqvni'jÃetgrgt'pfg'KECO- 3"ikdk' {cr, o c'ekuko ekngt'p' {q wp" gnkf g" uwpo wwp'ctw, ,fc"i¼4vgtkn k vkt"*7+0

Dgj±gv'j cuvcn'ct,pc'ank'rcvgtk'rq|kkn"qtcpr,"' 9; :6"ctcu,pfc"fg ko gmngfk"*: +0' Uqp" {,mctfc."vgn'mwmp,o nm" k pgrgt'p'mwmp,m cu,"xg" dwprct,p" w±rct,p,p" uk' tk"qm cu," pgf gpk'rg" fgtkfg" {gvgt'peg"vtxo c"qmw wto cf, ,."dwpwp"fc"rcvgtk'rq|kkn"qtcprct,p," c|cnw, pc"lpcp,m amcf,t"*: .; +0'Dw"pw"i kfgto gm"xg"rq|kkn"qtcpr,p,"ctw,to am"co ce,{rc

fgtk'k+p"o qpquqf {wo "Ätcv'htk'vcrk'xgtrk'guk'*32+."fgtk'p'vuv'3/4peguk'vgo k|ngpo go guk'xg"
 k pg"w+rcr,p,p"mÄpvrg vtrk'guk'*33+."ekv'civ,pc"ucrk'"xgtrk'guk'*: 33 35+"ikd' {3/4pvg'rgt"
 mwmp,ro , v,t0" vg"{cpfcpr'rcvgtlk'v'guk'pgi'cvh'qrcp"j'cuvrc'f'c'ncp'cno ,p,"v'v'kdgp"{c'fc"X"
 u,x,"xgtrk'gp"{gtgtrfg"v'guk'p"rq|k'k'h'q'rfw w"ucrvcpo , v,t"*: +0'Dwppw"o gncpk|o cu,"±qm"k{k'
 c±mrcpco co , v,t0C'pcam'ncp"cm'c'u,tcu,pfc."wtp'kng"pgf'gpk{rg"fc'co ct"kk'dcu,pe,p"ctwo cu,"
 ya da dam ct'f , pc'ncp'u,|o cu,p,p"tq'Ä"q'rdk'geg k'k'fk'g'f'k'ro g'ng'fk0'

Dwtcfcp" jctg'ng'vg." fco ct" k+k' dcu,pe,p," ctw,tctm" {cr ,ncem" r'cvgtlk' v'guk'p'p"
 rq|k'k'rk'k'p'fg"dk't'ctv, "q'rdk'geg k'k'g'rk'uÄtÄng'dk'k'p'k0Dk|"dwpw"xgp'3/4|"qmÄ|{qp"v'v'gu"v'guk'
 *XQUV+"ctce,n , "k'g"{cro c{,"r'nc'p'rc'f' m0'Dwppw"kk+p"j'cuvrc'p'uc 'mq'wpc'm'rculn"r'cvgtlk'
 v'guk'uq'n'h'q're"fc'XQUV"uq'p'tcu,"r'cvgtlk'v'guk'{c'r'ctm'dcu,p±"ctv , p,p"rq|k'k'rk'k'Ä|g't'p'fg"tq'Ä"
 q'wr"qm'c{cec ,p,"ctc v,tf m0'Dw"ctcfc"j'cuvrc'm' am'x'k'v'guk'p'p"r'cvgtlk'v'guk'rq|k'k'rk'k'p'fg"
 bel ktrg{k'ek'q'wr"qm'cf , p,"fc'fg'g't'g'p'f'k'f'k'0'

I GPGND NI NGT

Dgj±gv"J cuvcn , "DJ +."{lpgrg{lek'c , | "kek'xg"i gpkcn'd/ni g"Ångtrg tk."i¼| "wwwwo w." ekv" xg" gmggo " uqtwprct.pc" {qn" c±cp" ugdgdk' dkrkpo g{gp." uÅtg gp" ug{ktrk' ukvgo km" dkt" xcumÅrkvt0' J cuvcnm"ug{ tlpfg" p¾4tqrq lkn." cmek gt" xg" i cuvqkpvguvkpcn" ukvgo " wwwwo w" fc" i¾4tÅrgdkro gmvfkt"*3.4+0

J cuvcnm"km'hng| "Rtqf0'F t0'J wvukDgj±gv'vctch,pfcp"3;59" { ,npfc."uÅtg gp"i kfk rk" {lpgrg{lek'c , | "xg"i gpkcn'ch¾4| "Ångtrg tlp" xg" cvmrc trc" i kf gp" Åxgkng tlp" qrw wtfw w" Å±Å" dgrktkknqo rrgmuk'qrctan'vcp,o rcpo , v,t0'F cjc"uqpte"dw"Å±Å"dwniw{c"ekv."gmggo .p¾4tqrq lkn." i cuvqkpvguvkpcn" rwn qpgt" xg" xcumÅrgt" dgrktvrgt" gmggo k vkt" *3.4+0'G tksog c" pqfq |wo c." hqmkÅrksg" xg" cmppg{g" dgp|gt" rg|{qprct" i kdk' fgtk' rg|{qprct,." vomboflebit, artrit, i cuvqkpvguvkpcn" ukvgo "xg"o gmg|k'ukpk" ukvgo k'rg|{qprct,."mcr "xg"jgt"±crvcmk'ctvgt."xgp" rg|{qprct,."cmek gt'rg|{qprct,."qt lgrkfkfko kv'xg'fk gt'qti cp'rg|{qprct, ""j cuvcn , p" ukvgo km" mctamvgtk'qnfw wpw"i¾4vgtog mvfkt"*5+0

GR FGO [QNQL:

DJ "r tgcrcpu,"fÅp{cf c" kni lp±" dkt" fc ,no "i¾4vgtog mvfkt0'F q w' Cmf gpk| "xg Mw|g{ " Dcv,"Chknc" Åmrgtk' Q tve" F q w." tcp" xg" Lcrqp{c" j cuvcn , p" gp" um" i¾4tÅnfÅ Å" d/ni grgtfkt" *3+0'J cuvcnm" r tgcrcpu," Lcrqp{cøfc" 3B2" 222. Åmgo k| fg" gtkmkprgtfg" {cr ,rp" mkt'aramada 8- 32B2" 222" *36.37+" xg" 62B2" 222" qrctan'ucrvcpo , v,t" *3.36+0

DJ "jgtjcpi k'dkt" {c vc" i¾4tÅrgdkro gulpg'mct ,p." qtvcrø c" dc rpi ± {c , "42 52" {c " i twdwpfc" {q wprc ,t0Rwdgtvgf gp¾4peg" xg" 62" {c ,pfc p" uqpte" dc no cu," pcfkfk0' [lpgrg{gp" qtcn" Ångtk' qmp'bir olguda, 1- 46" { ,mm" dkt" ctcfc p" uqpte" dkrq" DJ " i grk gdkrkt0'D¾4" rg" dkt" qniwfc." DJ " i grk kr" i grk o g{geg kp' i¾4vgtgp" jgtjcpi k'dkt" dgrktg{lek' {qmwt0VÅtm'Dgj±gv" qniwct,pfc" qtvcrø c" dc rpi ±" {c , "450" { ,n" tcp" xg" Lcrqp" qniw" i twrct,pfc" kug" u,tcu, {rc" 26.2 xg" 570" { ,n" qrctm" dnfktro gmvfkt" *36.37+0'G tmgngtfg" mcf ,prctfc p" fcjc" hc|rc" i¾4tÅro gulpg'mct ,p" ekpu¾4| grk k'gvpln'hcmm,nmrc" i¾4tg" fg kgdkrkt" *36.38+0VÅtm" xg" tcp" qniw" i twrct,pfc" gmgnhcf ,p" qtcp, "u,tcu, {rc" 30: "xg" 306" qrctm" jchh" gmgm" ÅvÅpÅ Å"

i3/4vgtkmgp" *36.39+."Lcrqp{cøfc" uqp" { ,mctfc" { cr ,xpp" ±cn, o cmtfc." dw" q tcp ,p"mcf ,prct" rgjlpq" fg ko g{g"dc rcf , , "i3/4tÃm Ã vÃt" *3.3: +0'Co gtlmc" xg" pi kngtgøf gmk' ugtkrgtfq" fg" mcf ,p"gtmgn'q tcp ,mcf ,prct'rgjlpq"ctwo , "dwnwpo w wt"*3: +0'

Eq tck' fc ,no fc" i3/4tÃm p3/4|gnkm." i gpgvkm" lpegro grgtfg" fg." flmcv' ±gnlek" dkt" hctmn,nm" gmkpfg"mgpflpk' i3/4vgtogmvgfki0' Cmf gpk| Ãmngrgtk"Q tvc" F q w" xg" Lcrqp{cøfc" HLA- D7" fqmw" i twdw" kg"DJ "ctcu,pfc"mwxxgvk" dkt" kkmk" dwnwpo w wt0' JNC-B5 doku grubunun HLA- D73"cn"i twdw"cnpf , , pfc."dw"kkmk'fcjc"fc"dgrkti lprg o gmvgfk"*3: 3; +0' pi kngtg'xg'Co gtlmc Dktg kmF gxrgvgtkøf gmkDgj ±gv"j cuvcrt ,kg" { cr ,xpp" ±cn, o cmtfc"kg." HLA- D7" cpvklpklp" umn , p ,p"uc nm ,mqpvtnrgtg" i3/4tg"ctwo cf , , "i3/4tÃm Ã vÃt" *3: 3; +0' pi kngtgøf ." jcuvcrt , "cn" i twrntc" c { ,ctm" { cr ,xpp" lpegro grgtfg ."ucfgeg" i3/4| "wwwwo w" olan hastalarda HLA- D7"cpvklpklp" cprco n,"qrctm"ctwo , "umnmc"qrfw w" dwnwpo w wt" (19).

GV[QNQL 'XG''O O ©PQRCVQNQL ' <

I gpgvkmHcm3/4trgt

DJ ø ,p" gv{qrq lkuk' dklpo go gmvgfki0' Cmf gpk| Ãmngrgtk' xg'W | an" F q wøfc" jcuvcnm" r tgcrcpu ,p ,p" {Ãmugn"qmo cu , "xg" dw" ð4ni grgtfg" JNC- D7" kg'hwxxgvk' dkt" kkmkklp" xctn , p ,p" i3/4vgtkno guk." i gpgvkm" xg" ±gx tgugn' hcm3/4trgtlp" gv{qrq lkg" 3/4pgo rk" tqiÃpÃp" qrcdkgeg lpk" fÃ ÃpfÃto gmvgfk" *42+0DJ "rcvq i gpg|k' j am ,pfc" { c { i ,p' mcdwn" i3/4tgp" dkt" xctuc { ,o ,pc" i3/4tg= " jcuvcn , p" i gpgvkm" qrctm" { cm ,p" dktg { rgtfg ." ±g kmk" o kntqdkn" c lcpct ,p" xg { c" ±gx tgugn' hcm3/4trgtlp" pgf gp" qrfw w" ko o Ãpq tgiÃrcu { qp" dq | wmw w" uqpwew" q tvc { c" ±mv , , "3/4pÃpf gfk" (1,20).

HLA- D73" jcuvcnm" klp" 3/4pgo rk" dkt" ko o Ãpq i gpgvkm" dgrktg { kek" qrctm" mcdwn" gfkno gmvgfki0' Hmncv" ko o Ãpqrq lkn" dq | wmwrcrt , "vgknrg { gdkrgeg" o kntqdkn" c lcpct" xg { c" ±gx tgugn' gmngprt' hmpwupfc" qrfwm ±c' hctmn , " g { rgt' i3/4 { rgo k vkt" *3.3: 42.43+0

Viral Etiyoloji

Dgj±gv'jucvnc, p,p"v,r"rkgtcvÃtÃpg"i kto gulpfgp"dwiÃpg"fgm."xktwurt,p"gv{qmq lfgmk" tqiÃ"Ã|gtlpg"±qm"fwtwrw wt0'¥ g kmk"lqmqÃrcu{qp"±cn, o crct,"xg"grgmvtqp"o lntqunqrkn" lpegrgo grgrg"rg|{qprctfc" xg" xÃewv"u,x,rc,t,pfc" dc|," xktwu" dgp|gtk" {cr,rc,t" ucrcvpo, v,t" *6.3:+0'DwiÃp"¾|gmkng"J gtrgu"Uko rrgz"xktwu" *J UX+"Ã|gtlpg" {q wprc cp"±cn, o crct" xktwup" fq twfcp" lphgmuk{qp" {crctm" jucvnc, c" {qn" c±o cu,pfcp" |kcfg." V" jÃetg" lo o Ãpq tgiÃrcu{qpwpw"dq|ctm"gv{qmq lfg"tqn'crdkggeg lpk"i¾avgto gmvfkt"*3+0'J ucrcctfc" J UX "k±gtgp" fqrc cp" lo o Ãp"mqo rrgmngtlp" xctn, ," {cp,u,tc." EF 6." EF : "rgphukngtlp" J UP øpc"urgulkm"r tqrlkgtcvh"egxcrct,.."J UX "ugtqrq|kkl"uc nmn,"mqpvtqngtg"qtcprc" c|cmo, " dwnwpo w wt" *3.6+0' Rgtlgtkm" o qpqpÃmrggt" jÃetgrgtfg" fg." lp" ukw" FPC-RNA hibridizasyonu, dot blot DNA-RNA jkdkfk|cu{qpw." ctf,pfcp" fc" rqrko gtc|" |lpekt" tgmuk{qpw" *RET+" {¾pvgog rgtk"kg" J UX "i gpqo wpwp" dkt" rct±cu,p,p" xctn, ," i¾avgtkm k vkt" (19,22).

Streptokoklar

Gv{qmq lfgmk" tqiÃ"gp"±qm"vctv, ,rcp"xg"dwiÃprgtfg"fcjc"¾p" rrcpc"i g±gp" dkt"fk gt" mikroorganizma da str grvqmrcctf,t" *6+0' Grkfgo k{qmq lkn" ±cn, o crctfc." jucvrcct,p" ¾|i g±o k lpg." o wjvgo grgp" utgrvqmrcctc" dc n," vqpukrk" xg" fk " ±ÃtÃ Ã" i kdk" hqmcn" lphgmuk{qp" umn, ,"mqpvtqngtg" fcjc"hc|rc" dwnwpo w wt" *45+0' F k "vgfcxkngtlpg" xg{c" ±gmko rgtlpg" jgo gp" uqptc" jucvncm" ugo rvqo rc,t," crgxrgpgdko gmvfkt" *6+0' Hctm," utgrvqmrcctw rc,t,p,p¾|gmkng"jÃetg"fwxct,"cpvklgprgtlpgkhwrcpcctm">{cr,rcp"fgtk'vgumngtlpg." fk gt"o lntqqti cpl|o c"cpvklgprgtlpg"qtcprc"±qm"fcjc" kffgvk"tgmuk{qp"i grko gmv'xg"fcjc" ¾pgo rnk" vgvkp" ctf,pfcp" jucvncm" cmkxg" qrcdko gmvfkt" *6.46+0' Rgtlgtkm" mcp" rgphukngtlpk" utgrvqmrcctc" mct, " fw{ctn,rc v, ." Ãxgk" jucvrcct,p" rrc|o cu,pfc" Uvtrvqeqewu" r{qigpgu" cpvklgplp" xctn, ," xg" urgulkm" cpvknq"t" vktguklp" kontrollerden cprco n,"qrcctm" fÃ Ãm"qrfw w.'C "i twdw"utgrvqmrcctc" hct, "kug¾|gmkng"Ki C" k|qkr lpg"cpvknq rc,t,p"ctw, ,"xg"fqrc cp"lo o wp'mqo rrgmngtlp"i grk vk k'dkfkkn k vkt"*46 48+0'Dgj±gv' jucvrcct,p,p" c,|" hqrcrc,t,p,p" uc nmn,"mqpvtqngtg" hctm," qrfw w" xg" fcjc" {Ãmgn"qtcprc"Uvtrvqeqewu"ucpiwku"kgtfk k'i¾tÃm Ã vÃt"*45.49+0' |qrg'gflgp"

Uvtrvqeqewu'ucpiwku'ugtqvkrngtlp'fg'ug{ tgm'tcuwpcp'uw rct'qrfw w.'dw'pcfkt'ugtqvkrngtlp'
fk gt'ugtqvkrngtfgp'hcmm,'dk{qmq lkn^{3/4}|gmkngt'vc ,f , , 'i^{3/4}avgtko k vkt'*45 4: 4;+0

Isı Şoku Proteinleri

Uvngu' xg{c' ,u," qm" r tqvklp'gtk' *J gcv' uj qem" r tqvklp." JUR+." gp" dcuk' {cr ,fank'
o lntqq ti cpl|o crctfc'gp"i grk o k "ecpn,"kpucpc'mcfc't.'dÃÃp"ecpn,rctfc" {cr ,u,p,'mq two w "
xg" o qrgmÃrgt" {cr ,rct," ±qm" dÃ{Ãm" dgp|gtkngt" i^{3/4}avgtp" ko o Ãpqtgamkh" roteinlerdir.
pucprctfc" kphgmuk{qp" ckcprct," kg" vgvkngp'gp" r gm" ±qm" j cuvcnmc." gpfq lgp" JURøgt" kg"
o qrgmÃrgt" dgp|gtk l'p" rcvq i gpg|fg" tqn'q {pc {cdkgeg k' fÃ ÃpÃm gmvfk" *36 45+0' J crgp"
fgxco "gfgp"±cn, o crctfc."uvtrvqmqm'p"87'mFc"JUR"ktgfk k'fq twrpo , ve 65 kDa
JUR"klpfg'mÃÃm'dkt"rgrvk' d^{3/4}ni gulkp'Dgj±gv" j cuvcn't,p,p" rghqkvngtlp'k'ur gulkm"qrc tan"
w{ctf , , 'i^{3/4}avgtko k vkt'*45 49 52+0'

Dgj±gv" j cuvcn , p,p" i grk lo k'pfg"ko o Ãpqmq lkn" tgiÃrcu{qpwp"dq|wro cu,p,p'3/4pgo rk'
dkt" tqn' q {pcf , ,pc" kpcp,m amcf ,t0' Rtko gt" xg{c' ugnqpfgt" qrc tan" i grk vknngtk' c±mmn"
vc ,o co amc" xg" j cuvcn't,p" gvpkn" qtklp'kg." j cuvcnm" amxkkgulkp." ugo rvqo rct,p" elpulkp."
vgfcxk' fwtwo wpc" xg"mwncp ,rcp" rcdq tcwxc't" vgnpknngtlp'g" i^{3/4}tg" fg k knkngt" i^{3/4}avgto gnr"
dgtcdgt."jÃetgugrxg"jÃo q tcnko o Ãpkvgfg"±g k'kdq|vmmn't'vcp,o rcpo , v,t'*3 : 43+0

Hücreyel ve Hümorale Bağışıklık

Rgn'±qm'±cn, o cfc"rgtkhgtm'mcpfc"V"rghqkvngtk"*EF 5- "jÃetgrgt+"uc { ,ec" c|cmo , "
dwnpwo w wt0'Uwdi twr" kpegrgo grgtk'pfg."EF 6- " jÃetgrgtfg" j chkh" dkt" c|cmo c" kg" dgtcdgt"
EF : - " jÃetgrgtfg j chkh" dkt" ctv, " ucrvpo , v,t" *53+0'EF : - " jÃetgrgtfg" kg"EF 67"TC - "
w{ct,m co , . " EF 4; - " jch,c" jÃetgrgtk' cn" i twdwpwp" cprco n," qrc tan" ctvo , " qrfw w"
i^{3/4}avgtko k vkt" *53+0' J cuvcn , p" amkh" f^{3/4}pgo ngtlp'fg"V" jÃetgrgtlp'k' uÃr t^{3/4}t" hqpmuk{qpw"
dq|wro amcf ,t" *53 54+0'C { t,ec" rgtkhgtm'mcpfc" i co o c'lf gnc"V" jÃetg' tgu^{3/4}tÃ"vc ,{cp"
EF 5- " jÃetgrgtlp"uc { ,u,"mqpvqtmg'g"q tcpr" cprco n,"qrc tan" ctvo , " dwnpwo w wt" *55+0'Dw"
jÃetgrgtlp"uvngu'r tqvklp'ngtlp'g'mct , "ko o Ãp"egxcrvank^{3/4}pgo rk'tqngtk"uqpw±rct,"fcjc"fkmcv'
±mlekhn,m amcf ,t" *53+0'Rgtkhgtm'mcpfc'ankV"rghqkvngtlp'k'pgo rk'dkt'm,uo ,."dkt'amxku{qp"
i^{3/4}avgti guk'qrp"JNC- FT"cpvklp'vc ,o amcf ,t0'J cuvcn , p"amkh'f^{3/4}pgo k'pfg'rgtkhgtm'mcpfc

fq cn'mevkn' jÄetgrgt"*P cwten'mkngt."PM+"uc{ ,ec" ctvo cmrc" dgtcdgt." o wjvgo gn'ko o cvÄt"
hq to nct,p"fqrc ,o c'ucnpo cu,"uqpwew"jÄetg³/4fÄtÄeÄ"cmkxkgrgtk'c|cm cmcf ,t"*55+0

Rgtkgtkm" mcpfc." D" jÄetgrgtkpf g" uc{ ,ec" dkt" fg kknkn" qm co cmrc" dgtcdgt."
o go dtcp,pfc"KiC "vc ,{cp"D" jÄetgrgtk" ctvo , "dwnwpo w wto'Dc| , "xkcn' xg" qvqko o Äp"
jcuvcnmrtfc"qrfw w"i kdk'D"jÄetgrgtkpf g"rqkknqpcn'cmkx{qp"dwniwrt,'xctf ,t0J cuvcn ,p"
cmkh" f³/4pgo kpf g."urqpvcp"qrc tan"ko o wpq i nqdwrkp"ucni ,rc{ cp"D" jÄetgrgtk" cprco n,"qrc tan"
ctvo cmcf ,t"*3 :+0

Ng|{qprct,p³/4pgo rk'dkt'm,uo ,p,p"o wmq|crtfc"qm cu,.KiC 'k|qvkr kpf g"
immunoglobulinlerin pa vqi gpg|fg³/4pgo rk'qrcdkrgeg kp'fÄ ÄpfÄto gmgfkt"*56+0I gt±gmvgp"
ugtwo fcKiC "cprco n,"qrc tan'ctvo , .ÄmÄtÄmvg'kug'c|cm , "dwnwpo w wto'J cuvcrt,pÄ±vg'dktk"
kg" {ct,u,pfc'ucrvpcp'ko o wp'hqo rrgmngtkp."cn ,m , ,p"f , pfc" {Ämugn'dkt'q tcp,KiC "
u,p,h,f ,t"*56+0'

Dgj±gv"jcuvcrt,pfc"km" {c{ ,prctfc"p'kldctgp"flmck'+gngp³/4pgo rk'dkt'ncdq tcwxc't'dwniwuw."
p³/4vtqhkngtf g'ngo qvanku'xg"o qvkrkpglp"ctvo cu,f ,t"*3 : 57 58+0P³/4vtqhkngtkp"o go dtcp'gp|ko "
aktiviteleri, serbes v' qmukgp" tcfkncngtk' Ätgvlo rgtk' xg" hciquksq| | {gvpgmngtk' fg" ctvo , "
dwnwpo w wt"*57+0

J cuvc"ugtwo nct,pfc'hqo rigo cp,p.³/4|gnknng'E7.'E : .E ; "xg"hm³/4t'D ""'hgo rqpvgvgtkpkp"
ctw, ,." dwprctfc"p"E ; " "mqo rqpvgvklp" " jcuvcnm" cmkxkuguk" " kg" dÄ{Äm" dkt"mq tgrcu{qp
i³/4vgtfk k'dknfktk k vkt"*59+0

Ngphquksgtk" xg" hciquksgtk" met ,nmn," gmkrg ko rgtkpf g" xg" hqpmuk{qprct,p,p"
tgiÄrcu{qpwpfc" uksqmkprgt" i³/4tgx" {cro cmcf ,t0' Dgj±gv" jcuvcrt,pfc" vgudk' gfkrgp"
ko o Äpqm lkn" tgiÄrcu{qp" dq|wnwmrct,pc" ±g kvk' uksqmkprgtk" mcvn,fc" dwnwfw w"
fÄ ÄpÄm gmgfkt"*3+0Ugtwo fc'kpvgtgtqp"i co o cp,p'ctvo , "fÄ|g{ fg'qrfw w'xg'ngphquksgtk"
mÄnÄtg"gfknfknngtkpf g"urqpvcp"qrc tan"kpvgthgtqp"i co o c'ucni ,rcf mrc ,i³/4vgtk k vkt"*3 3 :+0'
Rgtkgtkm"mcp" o qpqpÄmrggt" jÄetgrgtk" o kq lgp"uwo Ärcu{qpwpc"pq to cn' xg{c" ctvo , "K2
(interleukin- 4+" ucni ,u," kg" {cp,v" xgtkmgp." o kq lgrg" w{ct,m , " ngphqdrucmct,p" f , ct,fcp

verilen IL-4 g" { cp, mrt, "dq |vm" dwnwpo w wt" *5 :+0' J cuvc" ugtwo rct, pfc. "¾| gmkng" amkh' f¾pgo fg" uKN 4T " *uqĩAdn'KN 4" tgugr ¾4tÃ+ " ctvo , . "V" ngphukngtklp" {Ãnugn" chlkpgrik'KN2 gnr tgu{qpw" kug" c|cro , v,t" *3+0'W {ct, no , "EF 6" ngphukngtklp" mqpvtqngtg" i¾4tg" ±qm" fcjc" {Ãnugn" qtcpfc" dkt'h,uo , . "lpvgtgwmk6 (IL- 8+ . "Ão ¾4t"pgmtq| "hcm¾4tÃalfa (TNF-U) ve IL-2 ucni ,rco cmcf,t" *58+0' " |gmkng." ngphukngtklp" pgtgfg{ug" wco co ,p,p" KN 8" ucni ,n,{qt" dwnwpo cu,"fkmcv±gnkcfkt0C ,t,KN 8"ucni ,rpo cu., "rqrknrppcnD "jÃetg" amkxcu{qpw.'EF : - " V"jÃetgngtklpfg" r tqrlhgteu{qp'xg"p¾4vtqhk"jkr gthqpmuk{qpwpc" {qn'c±ctan.'Dgj±gv"j cuvcrt,pfc" ucrcpcp" rgn±qm'ko o Ãpqrl kn"tgiÃrcu{qp'dq |wmw wpfc p"uq two nw'qrckrkt" *3 5 ;+0

Hc tmn,"q ti cp" ukuvgo ngtklpfg" i¾4| rpggp" j kuvru lkn" dq |wmw mrt,p" ±g kkrk kpg" tc o gp." Dgj±gv" j cuvcrt,pfc" i¾4tÃrpg" vgo gn' rcvru lkn" dwniw" xcmÃrkvkt" xg" fco cttctfc" i¾4| rpggp" dq |wmw mrt'hqpc c" xg{c" ±gxtg{g" de n,"hcm¾4trgtrg" fg k knknrgt" i¾4avgtdlkt" *43 56+0Q tcn' ch¾4| "Ãngtcu{qprct" xg" gtkvgo c" pqfq |wo c" dgp |gt" fgtk' ng| {qprct,"Ã|gtklpfg" {q wprc cp" j kuvrcvru lkn" ±cn, o cmt." rcvri gpg|fg" jÃetgugn' ko o Ãp" o gncpk|o cmt,p" xctn ,p," fgugmgo gmvfkt" *62+0' J kuvru lkn" ng| {qprct" igekno k" vkrvg" c ,t," fw{ctnm" *Vkr" KK+" ng| {qprct,pc" dÃ{Ãm" dgp |gtrknrgt" i¾4avgto gmvfkt" *62.63+0' J kuvru lkn" lpegrgo grgtkp" |co cprco c" xg" o gvqfwpc." c{t,ec" o wjvgo grgp" ±cn, ,rnp" i twdwp" gypkn" qtklkpog" i¾4tg" fg k knknrgt" i¾4tÃrgdko gmvfkt0"*****

MN P M" \ GNN MNGT <

Dgj±gv" j cuvcn , " jchh" fgtk' {cm,po cmt,pfc p,c ,t" p¾4tqr lkn" dq |wmw c" xg" dÃ{Ãm" fco ct"xcmÃrkvpog'hcfct" fg k gp" dkt'hnrpkn" ug{kt" i¾4avgtk0Mnrpkn" dgrktvngtklp" ±q wprw w." dc mc" j cuvcnmrtfc" fc" um±c" i¾4tÃrgdkrpg" dwniwrtfc p" qrw wt." cpecm" dwprct,p" dgrktrk'bir mqo dlpcu{qp" jcrpfg" i¾4tÃm guk'vcp,{ ,hqr{rc v,t,t" *3 3 :+0

Yineleyici oral aftlar

Ch'jgo gp" jgt" j cuvcfc" dwnwptw" xg" umnmrc" j cuvcn ,p" km" dgrktvukfkt" *' 92+." fg k kn" uc{ ,fc" qncp" chmrt" vgnctrc { ,e,¾4| gmk g" ucjkrvkt00 k¾4t." o c lq t" xg" jgtrgvktq to "qno amÃ|gtg" Ã±" fg k kn'hq to fc" i¾4tÃrgdkrkt" *6.64"±

I gpkvriÖserler

I gpkvriÄngtrgt"gtmgmgtfg"untqwo "xg"rgtkpcn'dß/ni gfg.'mcf ,prctfc"lug"wxwxc"xg" xci lpcfc"q tvc{c"±mct0Ng|{qprct'dkt"rcrÄni'c"fc"rcrÄni rÄuÄngt"rg|{qp"j crkpf g"dc nct"xg" dwpw"j ,|m" ,o dc{m"fgkpo k "i ldkÄngt"i grk ko k'k|rgt0I gpkvriÄngtrgt"chmctc"qtcpnc"uc{ ,ec" c|"kngp."fcj c'w|wp"uÄtgfg'k{krg ktrgt"xg"±q wprwnc"umcvtku'd ,tan, trct0Dw"umcvtkurgt'vcp ,k±p" qnfwm±c³/4pgo rkfk't*6.64+0

F gtkNg|{qprct,"

1. **G tlvgo c"pqf q|wo "dgp |gtk'pqfÄngt"rg|{onlar :** Dwprct" i gpgnkng" amw" i grk gp." yuvarlak ya da oval 1- 4"eo "±cr ,pfc"rctm'm,to ,|,"xg"dcuo amc"e t,n,"rg|{qprctf,t0 kffgvk' kphco cu{qp" pgfgpk' krg" gktvqukrgtkp" fco ct" f , ,pc" ±mo crct," uqpwev" jkrgrki o gpvg"dk'k|'d ,tmctm'k{krg ktrgt0
2. **RcrÄnrÄuÄler Lezyonlar :** HqrkÄrk' {c"fc"cmg{g"dgp|gtrgt0' Cmpg" xwni ctkvgp" i gtmhrlpkn."igtmgug"rcvqrg lkn'c±,fcpc{t ,rco c|rc t0

50F k gt'Ng|{qprct'<' Rcr cdi'rwtrwte"kr"ug{ tfggp"ñ/4nqukqncvkn'xcumÄrk."mÄÄm"xg" q tvc'dq{ "fco ctrct,p'pgntq|kcp'xcumÄrk'xg'Uy ggVUgpf tqo wpc"i³/4tÄngprtg"dgp|gt"e t,n," rcrÄngt"DJ 'øpfc"i³/4tÄngdkgp"fk gt'rg|{qprctf ,t*6.64+0

I ¾|Dwniwrt ,

I gpgnkng"km'knk' { ,n'k±pfg"q tvc{c"±mcp"i³/4| "wwwwo w"gtmgmgtfg"xg"i gp±rgtf g"fcj c" um"i³/4tÄÄt"xg"fcj c"e ,t"ug{tfgt"*65+0Ng|{qprct"±q wprwnc"jgo "¾p"ugi o gpvk"jgo fg" c tnc"ugi o gpvk'xg"tgvp{ , ,dgtcdgt"wwct0I ¾| "wwwwo w" 32 42"j cuvcfc"vco "i³/4to g'hc{d , " kg'uqpw±cp ,t*6.3 : +0

Gmgo 'Dwniwrt ,"

C tvtk' {c"fc"ctvtenlk' gnrkpf g"q tvc{c"±mcdkrgp"gmgo "wwwwo w"Dgj±gvk'j cuvcrt,p" yakl c m' {ct,u,pfc"i³/4tÄÄt"xg"umnc"o qpqctvkv' gnrkpf gft0Gp"um'wwwrcp"gmgo rgt'fk| " gmgo rgtkft0 I gpgnfg" fghq to kg{g" {qn' c±o c{cp" c tvtkp" uÄtguk' dknc±" iÄpfgp." dknc±" jchc{c'mcfc't'fg kgdkk't*6.3 : +0

O gting |kUkpt'Ukugo kDwiniw t,"

Gp"um"wwwrp"ð/ni g"dg{ kp"ucr ,f,t0C { t,ec"o gpkp i gcn'kttkcu{qp"yg'hchc"kk'dcu,p±" ctv, ,"ugpf tqo w"fc" i³/4tÃngdkk0Ugtgd tq ur kpcn'u,x,"kpegrgo gul pfg" j cuvcn, c³/4| iÃ"dwiniw" yoktur (4,18).

I cuvtqpvukp cnUkugo 'Dwiniw t,"

Mct,p"e t,u,,"k vcju,|nm'xg"dwrcpv,"i kdk'dgkrtkrgtf gp."Ãngtcvkhmqrksg" dgp |g { gp'hcpn," f k{ctg{g"mcfct" fg k lmn" i³/4uvgtgdkt0'Gp" ±qm" krgq±gmcn' ð/ni gfg" Ãngtcu{qp" i³/4tÃt0' J kuvmq lmn'qrctan'kphco cwet'dctum"j cuvcn, ,pfc"i³/4tÃngp"Ãngtrgtf gp'hc tmu,| f,t"6 52+

TANI :

3; ;2'Wnwur tctcu,"Dgj ±gv' J cuvcn, ,"¥ cn, o c" I twdwpwp" vcp,"³/4tÃngtk' w" gnknf gfk"6+ "<*****"

Tablo- 30Dgj ±gv'J cuvcn, pfc'Vcp," nÃngtk'		C±mro c"
O cE4t³/4tÃv	C , fc" {kpgrg{gp"clmct"	34"e { 'k+kpfg'5'fgp'hc rc" {kpgrgo g"
O kp³/4t' nÃngt"	I gpkcniÃngtrgt"	'd,tanc tam'k' krg gp'ch³/4 'Ãngtrgt"
	F gtk'rg {qprct,	RcrÃnq ""rÃuÃngt" {c"fc"cmgkq to "rg {qprct. eritema nodozum ya da benzeri lezyonlar
	I³/4 'rg {qprct,"	" p" {c"fc"cmc'Ãxgkv."tgvpc'xcum'Ãrk'
	P cvgtk'vguk'r q kknk k	" p" mqrc" 44" pqaw" k pgpkp" 7" o o dev,t,m cup,p" ctf pfc p" 6:0' uccwg" rcrÃn rÃuÃn'qmw o cu,

Mgukp"vcp,"k+kp"e ,|fc"vmtctrc { ,e,"ch³/4| "rg | {qprctc"gm"qrctan."knk'vcpg"fg"o kp³/4t³/4tÃvÃp" xctn, ,"igtgnkfk0

PATERJi TESTi

Dgj±gv' jcuvcn , pfc." dÃvÃp" fÃp{cec"mcdwn' gfkrgp" rvcq ipqo qplm" dkt"mrlplm" xg" rcdq tcwxc"t'dwniwwpwp"qm co cu,."vcp,'hq{o cfc"dÃ{Ãm"iÃ±nÃmrgtg"{qn'c±o cmvcf ,t0J wmwuk" Dgj±gv'kpm}{c{ ,p,pfcp"kkdctgp"Ã|gkpf g"fwtwrcp"vcp,"uq twpw."iÃpÃo Ã|g'mcfc t"uÃtgnrk" fg k krlkrgt"i¾avgtp"±g krlkrlplm"vcp,¾±nÃvrgtk'krg"±¾|Ãm g{g"±cn, ,m , v,t0Dw'dam,o fcp." jcuvcn , p"um"i¾tÃnfÃ Ã"ðni grgtfg"rgn"±qm"ctc v,to ce,"vctch,pfcp"Dgj±gv'jcuvcn , "k±p" rvcq ipqo qplm"mcdwn' gfkrgp" fgtk'c ,t," fw{ctn, , "xg{c" fgtk' rvcgtlk'vguk"*FRV+"c{t," dkt" ¾pgo g'uc jptir (12,13,44).

F gtlp k pg" dev,t,m cu," i kdk" o kplc cn' dkt" vtcxo c{c." 4648 saatte eritemli bir gpfÃtcu{qp"*rcrÃn±"xg{c"uvgtk' rÃvÃn' gmlkpf g" c ,t," {cp,v'xgto guk{rg"mctmvgtk|g" rvcgtlk' tgmuk{qpw."km"fghe'Dm dpgt"vctch,pfcp."ugo rvqo mct,DJ øc'w{cp" dkt'ktk'qulrk'xcmcu,pfc" vcp,o npo , v,t* ;+0F cjc"uqptc."rgn"±qm"ctc v,to ce,"vctch,pfcp"dgp|gt"i¾|rgo rgt'dkfk k k " xg" dkt"m,uo , "vctch,pfcp"DJ "k±p" rvcq ipqo qplm"mcdwn' gfk k vkt"*; 34 35+0'FRV."ucfgeg" uvgtk'dkt'k pglp'ekv'cn,pc"dev,t,m cu,"krg"{cr ,cdkfk k'i kdk"fgtk'k±gtkulp'k|{qrq lkn'ugtwo ." k|qquo qvkn"lquhcv"vco rqpw."RDU" *lquhcv"vco rqpw" h|{qrq lkn"ugtwo +." flukrg"uw." ,u,"krg" ci tgi g'gfk k "lpucp"i co o c"i rqudwkpk"qvq lgp"rnc |o c."i gpken'Ãnugtfgp"j c| ,trcpcp"cuqrkn" ekstre verilerek de benzer reaksiyonla t"qmw wtwmw wt"*: 32 35 3 :+0'F gpggp" ±g krlk' {¾pvgo rgt"ctcu,pfc."gp"fw{ctn,"qncp ,p"jkrqfgto km"k pg"dev,t,m tan"{cr ,ncp"rknÃt"qrfw" w" dkfk k k vkt"*: +0'Mcnp" k pgrgt"mwncp ,nf , pfc." rq|kkl" rvcgtlk'vguk"umn , p,p" xg" fjc" mwxxgvk'tgmuk{qprc"rÃvÃn i grk k lplc"ctw, , "i¾|rgpo k vkt"*: +0C {t,ec"fq cn'dkt'vtcxo c{c" o ctw|'mncp"{gtrgtfg"fg" rvcgtlk"tgmuk{qp"i grk gdko gmvfkt"*: .; +0' ni k±"qrcm."c ,|"xg" i gpken'ðni g{g"{cr ,ncp"rknÃtrg"jcuvcn , p"fq cn'ug{tkpf g"i¾tÃrgprgtfgp"hc tm,"qm c{cp" oral ve g gpken'Ãnugtcu{qprc"o g{fcpc" i gvtgdko gmv." jcw"dwprc"tc" cvg ." jcnk|rlm" xg" dc c t,u," i kdk"ukvgo km"ugo rvqo mct"fc" g rkn" gfgdko gmvfkt"*67+0'C {t,ec" kpvctcvtk'Ãrgt" lp lgnuk{qppw"ctf ,pfcp"ctvk."kpvctxgp¾| "lp lgnuk{qppw"ctf ,pfcp"vtqo dqhrgdk"i grk gdkfk k" bilinmektedir (46).

Rvcgtlk'vguk."dÃvÃpDgj±gv'jcuvcn , pfc"rq|kkl'fg kfk'xg'vguk'rq|kklrk k'fk gt'dc| , " mrlplm"hc tm,nmrc"t" i kdk"eq tch'hc tm,nmrc"t" i¾avgto gmvfkt0J cuvcnm"r tgcrcpu,p,p" {Ãmugn" qrfw w'F q w'cmf gpk|Ãmrgtk'Q tv'F q w'xg'Lcrqp{cøc jcuvcn , p" "82 :2kpf g"rq|kkl"

rcvgtlkm tgmuk{qp" i^{3/4}tÃmmp." pi kngtg" xg" C o gtlncøf cmk' Dgj±gv" jcuvcrt.pfc" ±qm" fÃ Ãm" qtcpc" rq|kklm" dnfktkno gmvfkt" *: ." 56." 69+0' pikkl" jcuvcrt" VÃm" jcuvcrtre" m,{cucpf, pfc."fk gt'mrlpkn" dwiwrctfc" cprco n," dkt" hc tm, nm" qm co cu, pc" te o gp." rcvgtlk' vguvlpk" pikkl" jcuvcrtfc" i gpgmknrg" pgi cvkh' mcnf, , ." co c" lptcfcgto cn' o qpquf {wo "Ãtcv" lplgmuk{qpwpc." VÃm" jcuvcrtre" dgp|gt" egxcrrct" xgtflmrgtk' i^{3/4}|rgpo k vkt" *: +0' FRV." c{p, " jcuvcfc" fc" dÃ{Ãm" fg k knknrgt" i^{3/4}uvgtgdkno gmvfkt' 0' J cuvcn, , p" mrlpkn" cmkxkgulpf" dkt" fg ko g" qm cuc" dkg. 'm, uc" |co cp" ctenmct, "kg" vntc trcpcp" vguvgt" rq|kklvgp" pgi cvkhg" xg{c" pgi cvkhgp" rq|kklg" f^{3/4}pgdkno gmvfkt" *: +0' Dw" ugdgrg." vguvlp" dkt' mg| "rq|kklh" dwrwo cu, "fgtk' fw{ctn, , p, " i^{3/4}uvgtgto gn" klp" {gvtklmcdwn' gfkno gmvfkt" *: +0' J cuvcrtfc." c{p, " c{pfc" {cr, rcp" ±qm" uc{ , fcmk' rknÃtg" {cp, v' jgt" |co cp" vÃtfg "qm cf, , pfc p." rknÃt" uc{ , u, p, "ctv, to an" {cncpe, " pgi cvkhk k' c|cncdkno gmvfkt" *: +0' G mgn" jcuvcrtfc." tgmuk{qp" kffgvk' mcf, p" jcuvcrtfc p" fcjc' hc|rcf, t*6: 6).

Rcvgtlk' vguvlpk" rq|kklk k' kg" jcuvcn, , p" ±g krl'ugo rwo rct, "xg" cmkxkguk' ctcu, pfc" fc" pgv' dkt' mqtgrcu{qp" i^{3/4}uvgtgto go k vkt" *: +0

Fgtk' rcvgtlk' vguvlpk" DJ " klp" rcvqipqo qplm" qwr" qm cf, , "vctv, o cnf, t0' Yg krl' fgto cvqr lkn" xg" tqo cvqr lkn" jcuvcnrcrtfc p" qrw cp" i gpk "mqpvtn" i twrct.pfc." Ãr jgrk' rq|kklm" f, pfc" " rq|kklh" rcvgtlk' vguvlpk' dwrwo cf mct, p, " dnfktgp" ±cn, o cct" {cp.pfc." pyoderma gangrenosumda, Sweet Sendromunda, eritema elevatum diutinumda, idiopatik tgmÃttcp" qtcn' ch^{3/4} | "Ãngtcu{qprctfc." klpatik eritema nodozum ve iridosiklitte, herpes i gpkcnrkv" rq|kklh" rcvgtlk' vguvlpk' i^{3/4}|rgpfk lpk' dnfktgp" {c{ , pncrtfc" xctf, t" *66.72+0' Q tcn' xg" i gpkcn' Ãngtcu{qprw." gtkgo c' pqfq |wo rw' xg' ktk' qulm' k' jcuvcrt. p" fcjc' uqptank' ug{ ktrgtk' kg" ilgili bilgiler yeterl k' qm cf, , pfc p." dw" xancrt. p' Dgj±gv" jcuvcu, "qm cf mct, p, " kfflc" gvo gn" |qtfwt0' R{qfgto c" i cpi tgpquwo "xg" Uy gg' Ugpftqo wøfc" Dgj±gv" jcuvcn, , "kg" dkrknvg" fg" i^{3/4}tÃngdkrgp" jcuvcnrcrtfc, t' xg" dw" jcuvcnrcrtfc" i^{3/4}|rgpfk k' dnfktkrgp" fgtk' c, t, "fw{ctn, , p. p." Dgj±gv' vgnk' rcvgtlk' rq|kklk k' kg" mrlpkn" xg" jkuvrq lkn" dgp|gtrk k' vco " qrc tm" c{f, pncv, m co , v, t" *66.72+0' FRV" rgn" ±qm" ctc v, t, e, "vctch, pfc p." DJ " klp" qnfwm±c^{3/4} | iÃn' xg" vcp, fc" ±qm' h, {o gvkdkt' cmk' h' mcdwn' gfkno gmvfkt" *: .; 34 35.73+0

F gtlp{c ,t,"fw{ctn, ,"ugdgd{rg."hctm,"cpvldgrgt'hwmcpctm}{cr ,rp"fgtk'vguvgtk'
 {cncpe,"rq|kxh"xg{c" ,t,"egxcrct"xgtgdtko gmgfkt"*74.75+0'FRVøp{m{m{pkn"xg"j kuvqj lkn"
 qrcctm."lo o ÑpquÑr tguh'vgfckf gp"gvnkrgpo gfk k'dkfktko k vkt"*76+0'

Paterji testinin histopatolojik incel go grgtk{pfg." tgmuk{qpwp"w{ct,m c" o gvqfwpc."
 dlqrk' {cr ,rp" |co cpc" xg" o wj vgo grgp" j cuvcrt,p" gvpln"n{4ngp{p" i{3/4tg." qrfwn±c" hctm,"
 uqpw±rct" gnf" gfk k vkt' ¥cn, o crct,p" 3/4pgo rk" dkt" m,uo ,pfc." k pg" dev,t,m cu," xg{c"
 intradermal serum fizyolojik injeksiyonu ile yap ,rp"rcvgtk'vguvgtk{pfg"i gpgnkmg"46"uccv"
 uqpte" cnpcp" dlqrk'3/4tpgmgtpfg." qctn'Ñngtrgt" xg" gtkgo c" pqfq|wo c" dgp|gt" gnkfg."
 fgto kuvg." 3/4gnkmg" rgtkxcunÑrgt" {gtg ko rk" ngphqo qpqpÑmrggt" jÑetg" kphktcu{qpw"
 ucrvpo , v,t"*77+0Dw±cn, o crctfc"ug{tgn'qrcctm."fq twfcp'k pglp}{crv, ,"vtexo c{c"dc n,"
 qrfw w" fÑ ÑpÑrgp." mÑ+Ñm" rqrko qth' pÑxgrk' Ñ4mquk' *RO PN+" kphktcu{qp" crpct," fc"
 i{3/4tÑm Ñ vÑt" *77+0' F qmw" mgukgtk{pfg" ko o wpqi nqdwkprgt." mqo rigo cp." hktk{pfg" xg"
 crdwo k{p"i{3/4avgtkgo go k vkt"*34+0Dgj±gv"j cuvcrt,pfc intradermal histamin injeksiyonu ile
 {cr ,rp"rcvgtk'vguvgtk{pfg"*o qfkk{g"D txcgto cp"vcr "vguk±." f{3/4tÑpÑ"uccv"dlqrk'vguvgtk{pfg"
 ko o Ñpqh{tguccp" *H" {3/4pgo k' kg" fco ct" fwxcct,pfc"Ki I ."KiO ."E3s" xgE5" dktkko k'
 i{3/4avgtko k vkt"*34+0C {p,"j cuvcrtfc."460'uccv"dlqrk'vguvgtk{pfg", m'o kntqumqrkn"lpeggo gk{pfg"
 fg" {q wp" RO PN" kphktcu{qpwpw" janko " qrfw w" Ñ4mqukmrcuku" xcunÑrk" xg{c"
 Ñ4mqukmrcuku"qro cmu,| pUy ggVUgpf tqo wpc"dgp|gt'rg| {qprct"i{3/4tÑm Ñ vÑt"*34+0[c|ctrcct"
 fqr cp"ko o wp"mqo rignurgt"dc n,"xcunÑrk"xg"ugtwo fc"dkkpo g{gp"dk"o cffg{g"dc n,"
 qrcctm"ctwo , "dwvpcp"p{3/4vtqhk'nngo qvamukuk'rcvqi gpg|fg"uw±rco , rctf,t"*34+0'RCvqj lkn"
 lpeggo grgtk'p' dkt'm,uo ,pfc"xcunÑrk"rgj lpg"dk"dwriw"vgurk'gfk g|mgp."dk'tm,uo ,pfc"fc"
 gpfqvgñjÑetgrgtk{pfg" k o g.c ,t,"r tqhktcu{qp"xg"fg lpgtcu{qp"dkfktko k vkt"*63.77+0'

Rcvgtk'rg| {qprct,pfc."grkfgto kuvgNcpigtjcpu"jÑetgrgtk{pfg"ctw, ,"dkfktko k vkt"*43+0'
 C {t,ec"rgn"±qm" {c|ct."o cuv"jÑetgrgtk{pfg"uc{ ,xg"o gwdqk|o cu,p,p"ctw, ,p," i{3/4|rg{gtgn."
 dwpwp"rcvgtk'egxcd,p"qmw wo wpfc3/4pgo rkqrckgeg kpk'Ñ Ñpo Ñ rgtfkt"*34.43+0'

Tgdwen" fgtk' rpegtg" vguk' kg" {cr ,rp" lpeggo grgtfg." Dgj±gv" j cuvcrt,pfc."
 p{3/4vtqhkngtf"ctwo , 'ngo qvamukug"rctcrnqrcctm"p{3/4vtqhkngtkp'hqpvqngtf gp"±qm"fcjc"j ,|n,"dk"
 gnkfg" fqmwfc" mc{dqrfw w" xg" 460' uccwg" {gtk' wo co gp" o amqhc lctc" d,tamv, ,"
 i{3/4|rgpo k vkt"*78+0Dgj±gv"j cuvcrt,pfc"ucfgeg"p{3/4vtqhkngtkp"fg ki'o qpqpÑmrggt"jÑetgrgtk'fg"

mgo qvcmuk' ctvo cmcf,t" *77+0' Rcvgtk' ng|{qprct,pfc" fgto kuv" ¾|gnkng" rgtkxcunÄrgt"
 lphkvtcu{qp"}{cr cp"jÄetgrgt"gtngp" f¾pgo fg"RO PN."i g±"f¾pgo fg"fg""ngphqo qpqpÄmrggt"
 jÄetgrgt"qrdkkt0T gmuk{qpwp"i grk ko lpf g"C tvjwu"vr k'xg{c"i g±kmo k "vr vg"xg{c"i gelmo k "
 vr vg" c ,t," fw{ctn,nmrt,p." jÄetgugn' xglxg{c" jÄo q ten' ko o Äpqru lkn"o gncpk|o crct,p" tqiÄ"
 qrdkkt0' Dw" mqpwrct,p" c{f pncpdko guk' xg" rvcgjik fenomenin patogenezinin
 cprc ,rdkno guk'k±p"fcjc'kgtk±cn, o crctc'kj vk{c±'xctf ,t0'

XGP " \ QMN© \ [QP'UVTGU'VGUV

Xgp¾4|"qmÄ|{qp'uvtgu'vguk±lp"xlxq"hd tkpqrkkn"}cp,v,"i¾avgto gfg'hwncp ,rcp"fw{ctn,"
 dkt'vgukt0'Xgp¾4|"ukvgo g"dcu,p±"w{ iwncpo cu,"uqptcu,pfc"w{ iwp" ctvctfc"cn,pcp"mcp"
 vgnkngtk'xg" fco ct"i tghmgtkpfg"" fco ct"gpfqvgrkpkp"cmkxg"gfknfk k'±g kirk"±cn, o crctfc"
 i¾avgtko k vt"*7959). PAI- 3"xg"vRC "gpfqvgr'jÄetgrgtkpeg" {cr ,rcp"o cffgrgtfkt0'P qto cni'
 mq wrct'cn,pfc"vRC .RCK3"kg"dktrg gtgn'fqrc ,o fc"dwnwpwtngp."±qm"e|"o knctfank'ugtdguv"
 m,uo ,"fqrc ,o fc"dwnwpwt"*79.8: 8;+0'XQUV"u,tcu,pfc."vRC "fÄ|g{lpfg"ctv, ."vRC RCK1
 qtcp,pfc"fc"ctv, "dgnrgpkt0'Dw" gnknfg"gpfqvgrk{cn'cf g|{qp"o qrgnÄmrgtkp"uwpwo wpw"
 ctw,tf, ,."dwpwp"fc"gpfqvgrg"p¾vtqkhi" {cr , o cu,p, ctw,tctan"xg" {cpi ,{,"vgnkngfk k'kgtk'
 uÄtÄm Ä vÄt"*7;+0Dk|ko "±cn, o co ,|fc"XQUV."o cp qp"q tvncoc""mcp"dcu,pe,"fg gtrgtkpf g"
 32"fanknc'wwwrctm"}{cr ,m , v,t00 cp qp"¾4|ÄnfÄmrgp"jgo gp"uqptc'r cvgtk'vguk¾p hqrc"42I "
 mcnpn ,pfc'5'k pg'kg'w{ iwncpo , v,t0

I GTGŸ 'XG' [" PVGO NGT

1-Hastalar ve kontrol grubu

Dw"±cn, o c."Gmk gjkt"Quo cpi c|k'©pkxgtuksuk"V,r "HmÃnguk" ±"J cuvcnncrt,"C pc" Dkko "F cnpc"dc n,"Tqo cvqm lk'Dkko "F cnpec."Q em"4227-O c{ ,u"4227"vctkj rgtk"ctcu,pfc" {cr ,m , v,t0Ÿ cn, o cp,p" {cr ,m cu,"k±p"jgo 'Gmk gjkt'Q I ©VH"gvkmhwtwmpfc"i gtgnk'k|kp" (MSW-Etik- Vqrmpv,422701- 3:+ " jgo " fg" jcuvcnrc" igtgnk" c±mrcnrc" {cr ,mcm" dki kgpfkko k "qpc{ "cnpo , v,t0

Ÿ cn, o c{c." Wmurtctcu," Ÿ cn, o c" I twdw" Dgj±gv" J cuvcn , " *WCDJ Ÿ I + " vcp," ¾mÃnguk"i¾tg'Dgj±gv"jcuvcn , "vcp,u,hqpo w "322'Dgj±gv"jcuvcu,"cnpo , v,t0Dw"jcuvcnrc" fcjc¾pefgp"dw"vcp,{ ,cm , "vank" 'xg"uc cnv,o "cnv,pfc"qrcp"jcuvcnrc"qm cu,"{cp,pfc."{gpk' vcp," cm , " xg" jgt" jcpik' dk" k±" mwmrcp c{cp" jcuvcnrcfc" qmw w{qtfw0' Tqo cvqm lk' poli mlpk lpg" {gpk' dc xwrcp" jgt" jcuvc{c"mrculm" rcvgtlk' vguv" {cr ,m amcf ,t" xg" dwprct,p" uqpw±rc,"mc{ fgfkno gmvfkt0'Dw"±cn, o c{rc" jcuvcnrc" knpek' dk" rcvgtlk' vguv" {cr ,m , v,t0' D¾{rgeg"km"dc xwtw"¾pgo lpf gmk'rcvgtlk'vguv'kg"vank "u,tcu,pfank'rcvgtlk'vguvkm,{ curcpo , " qmpo amcf ,t0Dw"dk|g."dk"cpno fc"jcuvcn , p"cnxrk"¾pgo k'kg"uguv| "¾pgo lpf gmk'rcvgtlk' rq|kkk kpk'mct ,rc v,t0 c" qrcpc , " xgto gmvfkt0¾{rgeg"XQUV" kg" {cr ,rcp" rcvgtlk' vguv" uqpw±rc,"jgo "30hrculm"rcvgtlk'vguv'kg"jgo "fg"g " |co cpn,"{cr ,rcp2. klasik paterji testi ile m,{curco c"qrcpc , "xgto gmvfkt0'

Ukugo kn'dk"jcuvcn , "qm c{cp."39"gtngm"xg": "mcf p"vqrno "47'mk k'uc nmn,"dktg{ " uc nmn,hqpvtni"i twdw"qrcnrc"±cn, o c{c"cnpo , v,t0""

Mqpvtni"i twdwpfc"±cn, o c{c"cnpo an'k±p" whq wnc"ctcpo , v,t<

1- J gtjcpi k'dk"ukugo kn"jcuvcn , p,p"qm co cu,.

2- [am,p" ¾pgo fg" ig±tkno k " {c" fc" ig±tkno gmv" qrcp" gphmuk{qp" jcuvcn , p,p" qm co cu,.

3-Mk lplp'ngpf kulpf g'xg'ckrgulpf g'q tcn'ch¾{mÃuÃpÃp"qm co cu,.

4- ¥cn, oc{c"i^{3/4}p^{1/4}Ãm^{1/4}hcv,n,{qt"qm cm.

2- J cuvcnm'cmkxcu{qpwp'xg'r cvgtlk'vgnlpl'fg gtrpfktk k

J cuvcn:tc"Dgj±gv"j cuvcn, ," kf fgv^{3/4}Ãvgtk'c c ,fcmk^{3/4}Ãvgtg"i^{3/4}tg"jgo "uqtwrc tm"
jgo "fg"owc{gpg'gfkgtm"fg gtrpfktk k "xg"rwcprct,hc{fgfk k vkt0

Dgj±gv"J cuvcn, ," kf fgvHqto w"*82+

Hafif (1 puan) : Oral aft

I gpkcnÃngt"

Vkr km"fgtk'rg|{qprct,"gkgo c'pqfquwo ".hqmÃrk'xg'r crÃm "rÃuvÃrgt"
lezyonlar)

Artralji

Vgntctrc{cp"dc "c t,rc,"

Epididimit

I cuvtqkpgvknpcnluugo ""ugo rvo rct,"ntqpm"fkctg'xgmct,p'c t,u,"+

R^{3/4}tkm"c t,"

[Ã|g{gr'xgp"vtqo dq |w"

Orta (2 puan) : Artrit

Derin ven trombozu

Cpvgtkqt'Ãxgkv"

Gastrointestinal kanama

kf fgvk*5'rwcpr'+<Rqugtkqt"lr cpÃxgkv.tgvpcn'xcumÃrkv

Arteriyel tromboz veya anevrizma

O c ¼t'xgp'vqo dq |w'*xgpc'hcxc.'j gr cvkn+

Neuro- dgj±gv'

Barsak perforasyonu

3- Rcvgtlk'vgnkplp' { cr ,n cu,

C tf ,pfc p"j cuvcrc tc"42" I 'hcn,pn , pfc" k pg"kr"uc 'hqrwp"hgnt¼t" {Ã|Ãpg."fgtk'cmqn' kr"vgo k|rgpfkmgp"uqptc"rcvgtlk'vgnkplp' { cr ,n cu, "i wrcpf ,ODwppw" k±k" k pg"gr kf gto kuk'i g±k" "fgto kug" wrc cecn" gnknfg"67"fgtgegrm" c±, "kr"uqmwnfw" xg"; 2"ucpk{ g"wwnfwncp"uqptc"±gnknfKV guv" uqpwew'6: 'uccv' uqptc" {vnc t,fc dgrktvkrp ¾4n±Ãvgtg"i¾4tg"fg gtrgpfkknfK0

4- Xgp¾4|'qmÃ | {qp'vntgu'vgnkplp' { cr ,n cu,

Uqnlmqrc" xgp¾4| "qmÃ | {qp'vntgu'vgnkplp' { cr ,n cu, "i wrcpf ,ODw"vgnkplp' "j cuvcrc p"ukvqrkn" xg"fk{ cuvqrkn" mcp"dcu.pe,¾4n±Ãvgtg" xg"q tvrc c'hncp"dcu.pe,"dwrwpfwncp"uqptc" { cr ,n cu, "i wrcpf ,ODw"vgnkplp' "j cuvcrc p"ukvqrkn" xg"fk{ cuvqrkn" q tvrc c"mcp" dcu.pe," fg gtlpfg" 32" fcnknc" wwrfw0' O cp qp" 32" fcnkncp.p" uqpwpc" u¾4p fÃtÃnfÃvgtg"uqptc."j go gp""42" I "k pg"kr"rcvgtlk'vgnkplp' { cr ,n cu, "i wrcpf ,ODw"vgnkplp' "j cuvcrc p"ukvqrkn" xg"fk{ cuvqrkn" uqnlmqrc" w{ i wrcpf ,ODw"vgnkplp' "j cuvcrc p"ukvqrkn" xg"fk{ cuvqrkn" uqpwew'6: 'uccv' uqptc.¾4p gtrgpfkknfK0 ¾4n±Ãvgtg"i¾4tg"uc 'hqrnf cnkuqpw±rc t'kr" dkrknvg"fg gtrgpfkknfK0

J cuvcrc tfc"vgnkplp' iÃpÃ" g " |co cpn,"cnw'hc | "tgnmcpnrc t,"±cn ,nf ,0'J NC 'D- 7"uqpw±rc t," kug"j cuvcrc t.p"fq{ c'hc { ,mrc t,pfc p""xg" {gpk'vcp ,n,"xg" {c'vgnkplp' tk'gnukn"qrc p"j cuvcrc tfc"cnw'hc | "tgnmcpnrc t,"kr" g " |co cpn,"±cn ,nf ,0

5-Laboratuvar testleri

J cuvcrc tfc p"gtktqkv'ugfko cpvcu{qp"j ,| , "Guj +."E- reaktif protein ve HLA B5 fqmw" i twr" cpvklpk' ±cn ,nf ,0'VÃo " rctco gvtgrgt"Gunk gjkt"Quo cpic|k'©pkxgtukguk'V ,r" HcnÃnguk'J go cvqrk kNcdq tcwctrc t,pfc"±cn ,nf ,0

C-reaktif protein ."gtktqkv'ugfko cpvcu{qp"j ,| , "xg""J NC 'D7"vgnkplp' ucfgeg"j cuvc"i twrvc" ±cn ,nf ,0Uc nmn,"i twdc'hncp"vgnkplp' { cr ,n cu, "i wrcpf ,ODw"vgnkplp' "j cuvcrc p"ukvqrkn" xg"fk{ cuvqrkn"

- 1- C- tğmkkh" r tqvğp=" o ci g Dgemo cp" o c tmcn," ekj c | " kg" pgr j gmq o gvtkn" {3/4pvg o "kg" o i lfn'ekpukpfgp" j gucrncpctan"±cn, ,nf ,0
- 2- Eritrosit sedimantasyon j , | ,G tkpğ"6AR ve Grenier Bio- qpg""o c tmcn," ekj c | r t r "q v o c v k n" {3/4pvg o "kg" o o l j t'ekpukpfgp" j gucrncpctan"±cn, ,nf ,0
- 3- J NC 'D7=I gp'Gvkcn'rQ' *I gto cp {+o c tmcn, M V 'kg'ugtqı lkn" {3/4pvg o " kg"±cn, ,nf ,0

6- ucvkuknugn^{3/4}|Ao ıgo g'<

Analizlerde SPSS for Wi pfqy u"352" rmgv' r tq i tco ,hwnrcp ,nf ,0' ucvkuknugn fg gtrğpfktkno gfg'r> '207'kucvknugn'qırc tam'cprco n,hcdwn'gfkfı0"

Uc nmn,"i twr "kg'Dgj±gv" j cuvcırt,"ctcu,pfcmk="ekpu." {c .uc -sol kol (VOST ile) rcvgtlk"uqpwhırt,Mkmetg"vgu"kg"fg gtrğpfktkfnı0'J cuvc" i twdwp"uc "xg"uqıhmqn" *XQUV "kg+" rcvgtlk"vgu"uqpwhırt,"kg"ekpuk{gv'xg"J NC- D7'hıct ,rc v,t,m cu,"kıkp'Mkkare vğukhwnrcp ,nf ,0" Uc " xg" uqı" mqrı " *XQUV" kg+" w{iwnrcpı " rcvgtlk" vgu" uqpwhırt,p,p" {c " i twd" kg" mct ,rc v,t,m cu,pfc'V-Vguv'hwnrcp ,nf ,0'±cn, o c {c"cnrcpı" j cuvcırt,p" amw'hc | "tgamcprıct,"xg" mdkpkn'lpfgmug"i3/4tg" *82+" j gucrncpo , "amkxkg" rwcprıct,p,p" jgt'knkında uygulanan paterji test uqpwhırt,"kg"fg gtrğpfktkno guk'kıkp'O cıpp Y j kpg { 'W"vgu' hwnrcp ,nf ,0' Rcvgtlk"uqpwhırt,p,p" knc±" mwnrcpı " xg" mwnrcpo c {cp" j cuvc" i twrırt,p,p" amkxkg" rwcprıct,pc" i3/4tg" mct ,rc v,t,m cıct,pfc'O cıpp Y j kpg { W"vgu' hwnrcp ,nf ,0

BULGULAR

F go qi tchkn'xg'hnplkn'dwniwrc t,p'fg gtnp ftkno guk

¥cn, o c{c'322'DJ øu,*'64'hcf ,p.'7: "gmgm."{c "qt058Ö32"{ ,n+cnp ,tngp.'47'hk k*:" mcf ,p."39"gmgn."{c "qt053Ö32"{ ,n+uc nmn,'mqpvqr'i twdwpw"qmw wtfw0'I twrc t'ctcu,pfc" elpu"w{wo w"uc rcpcu,pc"mct ,p." {c "w{wo w"uc rcpc cf ,0'DJ ørc t,p,p" {c "qtcrro cu," uc nmn,'mqpvqr"i³⁄⁴tg"fcjc" {Ämugmk}*r>"2027+0¥cn, o c"i twrc t,p,p"fgo qi tchkn³⁄⁴|gnknrgtk' vcdm'4øfg'xgtrk k vkt0

Vcdm'4<Dgj±gv'j cuvc'i twdw'kg'hnplkn'dwniwrc t,p'fgo qi tchkn³⁄⁴|gnknrgtk

F go qi tchkn³⁄⁴ gnknrgtk	Dgj±gv'j cuvc'i twdw	Uc nmn,"i twr
[c ,	36.54..10.3	31.8..10.1
Gmgm".....Mcf ,p"'	58	17
	42	8
J cuvcnm'uÄtguk*{ ,n+	80:Ö8*3" c{ó58" { ,n+	-

< ?"r>2027 DJ ""i twdwpw" {c "qtcrro cu,"uc nmn,"i twdc"i³⁄⁴tg"fcjc {Ämugmk0

Dgj±gv'j cuvcrc t,p ,hnplkn'dwniwrc t,p ,fc ,no ,Vcdm'5øfg'xgtrk k vkt0

Vcdm'50Dgj±gv'j cuvcrt p p'vuv'co cp ,xg³/₄{m³/₄g'f³/₄tg'hdpln'dwnwrt p'f c no <

	m ³ / ₄ g	Vguv'co cp,
Aft	100	43
I gpkcn ³ / ₄ ngt	75	20
I ³ / ₄ 'wwrwo w	29	9
Deri bulg wrt,	89	40
Eklemtutulumu (artrit)	25	10
Damar tutulumu	24	9
P ³ / ₄ tqrlkn'wwrwo	3	-

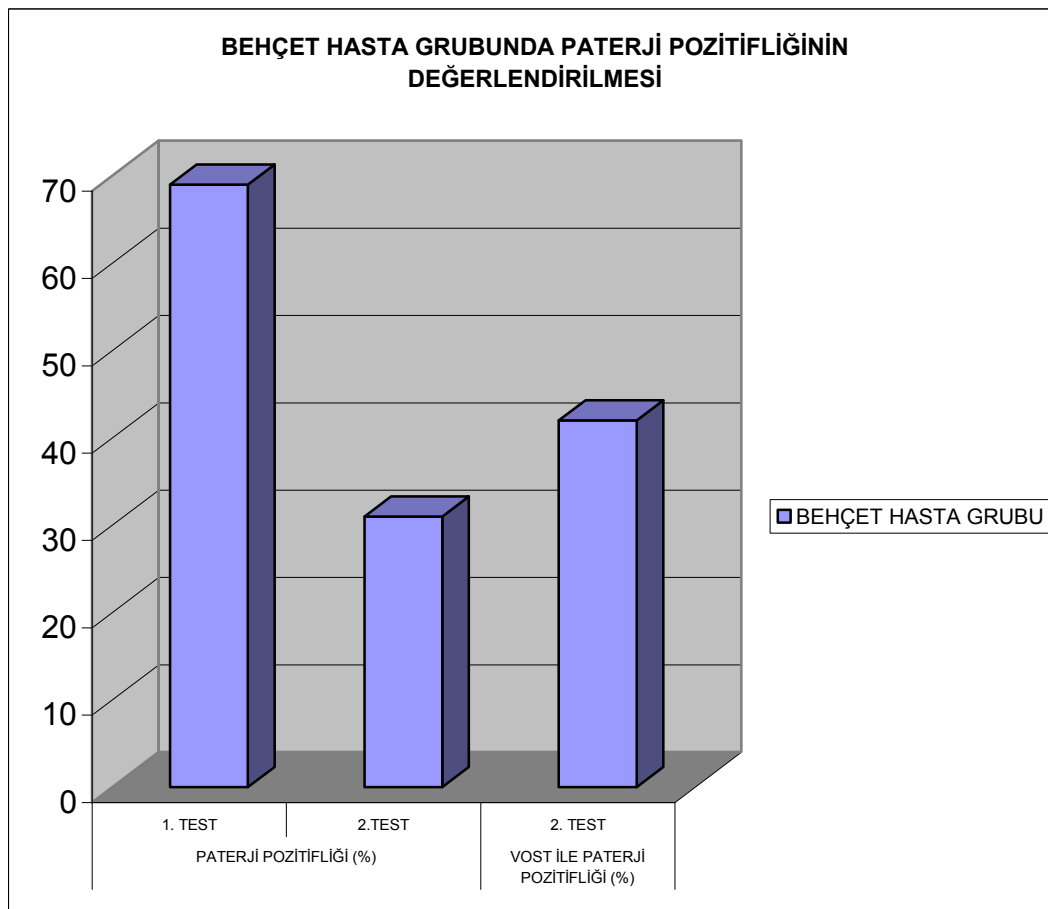
Uc 'xg'buqhmf cmkr cvgtlk'vuv'upw±rt p p'fg gtrpftkko gk'

Uc 'mqnfcp' {cr ,rp'mrculn'r cvgtlk'vuk'40mrculn'RV'+322'j cuvc p'53'''''''''' 53+dpfg' positif bulundu. XQUV' {cr ,rp'mqnf cmk'*uqrlmqn'r cvgtlk'r q|kkhk k'kug'5: 'qniwfc'*' '5:+' i³/₄|rpfkXQUV' {crv, ,o ,|'mqnf cmk'r cvgtlk'r q|kkhk k'k'fg'j gucdc'ncw, ,o ,|fc'vqrnc'64' j cuvcfc'*' '64+'vuv'r q|kkhk'Uc 'mqnf cmk'40mrculn'RV' r q|kkhk k'k'g'XQUV'uqptcu, {cr ,rp' p cvgtlk'r q|kkhk k'ctcu,pfc'hc m'dwvpo cf, '*r@2027+0' m'dc xwtw'u,tcu,pfc' {cr ,rp' r cvgtlk' vuk'p' uqpw±rt, j cuvc'fqu{crt,pfcp' i gtl{g'f³/₄p³/₄m'qr tan'gnf g'gfnf kODwvrt'30mrculn'RV' qr tan'cf rcpf ,t,nf ,0' [ã | "DJ øfc p": 5ø³/₄p³/₄m'vuv' uqpwevpc'wrc ,nf ,0'J cuvcrtfc p'8ø,p p'30' mrculn'RV' uqpwev' {gpk'vcp, 'mqpo cu, 'pgfgpk{rg.11 j cuvc p'kug' {c'dc mc'dk'td³/₄o fg' {c'fc' dc mc'dk'j cuvcpgfg'r cvgtlk'vuk' {cr ,nf , , 'k³/₄p'vuv' uqpw±rt, {c' {qmw' {c'fc' qnc'dk'g'dgp |gt' {³/₄pvgø k'p'mwncp, mcf , , 'xctuc { ,rtan' flmcvg' cn, po cf ,0'C {t, ec' r cvgtlk'vuk' uqpw±rt, pc' wrc ,rp": 5' j cuvc p": "vcp'guk'fg' r q'k'k' k'p'k' k'f'g' {gpk'vcp, "cm , "cpcan' dw'±cn, o c'k³/₄p' fg gtrpftkko gm³/₄|gtg'v'gfcxk'cm cfcp'r cvgtlk'vuv'gtk' {cr ,m , v,tODw': 5' j cuvc p'79øp'fg' (% 69) paterji testi pozitifti (1. klasik PT +0Mrculn'RV'øfgnk' r q|kkhk'q' t'p ,.'322'j cuvc p' uqpw±rt, flmcvg' cn, pctan'mct ,re v,t,nf , , pfc." jgo "uc 'mqnf cmk'40mrculn'RV' uqpwev' i³/₄tg'''''''' '*r>2.2223+." jgo 'XQUV' uqptcu, {cr ,rp'RV' uqpw±rt, pc' i³/₄tg'*r>2.2223+." jgo 'fg'4'v'g'v'gnk' vqrnc' r q|kk' uqpw±rt, flmcvg' c'nf , ,o ,|fc'kucv'v'k'ug'n'qr tan'f'c'j c' {ã'ugnk'*r>2.2223+0'

Vcdnı' 60' Dgı±gv' j cuv' i twdwpw' xg' uc nmn' nıpvtdı' i twdwpw' r cvgtlk' vıv' r q|kklıngtlpı'ııpw±rc t,

	Dgı±gv' j cuv' i t0	Uc nmn' nıpvtdı
Rcvgtlk'rq kklı k' (1.test)	57/83 (% 69) ^a	-
Pat gtlk'rq kklı k' (2 test)	31/100 (%31)	0
XQUV'ııg'rcvgtlk'rq kklı k' (2.test)	38/100 (%38)	0
TOPLAM	42/100 (%42)	0

^a r>'20223.'30ııgv'ııpwew.'40ııgv'ııpwewpc.'XQUV'ııg'ıı cr'ııp'ııgv'ııpwewpc'ııııtg'ııg'ıı vıırcıı fcnk'ııpw±rcıı'ııııtg'ııcprııcn'ıı{Ämııgnıı0



J cuvcnm' kf fgv'rwcp' r cvgtlk'rq | kkh'qrcprt.p' j cuvcnm' kf fgv'rwcp, "40Ö306 .pgi cvh'qrcprt.p' hk' lug" 40;Ö30; " dwnp fw0' C tefc" kuvvknugn' dkt' hctmn, nm" { qmw" *r@2027+0' Ancak negatif qrcprt.p" kf fgv' rwcp, " fcjc" { Ñmugm0' XQUV" uqptcu, " { cr ,rp" RV" uqpwewpfc" fc" dgp|gt" uqpw±rc' gnf g' gfnf k0Uqn' m' qnf c' RV" rq | kkh'qrcprt.p' etkinlik rwcp, "40Ö306 .pgi cvh'qrcprt.p' mk' lug" 40;Ö30; " dwnp fw0' P gi cvh'qrcprt.p" kf fgv' " rwcp, " fcjc" { Ñmugm" qm cu, pc" mct ,p" kuvvknugn' hctmn, c' wrc o cf, *r@2027+0C pecm' Ño " j cuvc' xgtk' g' tk' f' kmcvg' cnpf , , pfc" *uc " xg' uqnm' qn' k±p+ " r cvgtlk' v' guk' pgi cvh'qrcprt.p' gmlp' rkn" rwcp, "5Ö30; . " rq | kkh'qrcprt.p' hk' lug" 40Ö306 " dwnp fw0Dw' kuvvknugn' cprco n, nmvc { f, *r ? 2024+0

Dgj±gv' j cuvc' i twdwpw" kf fgv'rwcp, pc' i³/4tg' i twr rctc' c { , tf m' Vcdm' 7+0Dwprct. " kf fgv' rwcp, "2" qrcprt' *i twr 'K±. " kf fgv'rwcp, "3 4" qrcprt' *i twr 'KK±. " kf fgv'rwcp, "54 olanlar (grup KK±. 'xg" kf fgv'rwcp, "7' xg' Ñ | g' tlp' fg' qrcprt' *i twr 'KK ±' qm an' Ñ | g' tg' b' cn' i twr w0' I twr 'KK of gnk' r cvgtlk' rq | kkh'k k' fk gt' i twr rctc' i³/4tg' fcjc" f Ñ Ñm Ñ. " cpecm' dw' kuvvknugn' f Ñ | g { fg' fg knf k0' I twr 'KK of gnk' RV" rq | kkh'k k' kuvvknugn' hctmn, nmvc" qm cuc' fc" fcjc" { Ñmugm0' Dw" uqpw± j cuvcnm' kf fgv' c' twm±c RV" rq | kkh'k k' p' c | cnf , , p, " i³/4vgto gmv' f k0

P g" { c | m' hk' j cuvc' f qu { crct, p f cp. "3 hrculm' r cvgtlk' v' guk' p' { cr ,nf , , " f³/4pgo g' dktg' dkt' mct , nm' i grgeg m' h' p' kn' d' kni k' g' tlp' " i Ñ xg' p' k' k' t' dkt' gnk' f g' gnf g' g' f go g' f kn0Dw' p' g' f g' p' r' g' dw' h' q' p' w' f c" kuvvknugn' dkt' fg' g' t' r' p' f' k' t' o' g' { cr co cf m0'

P g" { c | m' hk' j cuvc' f qu { crct, p f cp. "3 hrculm' r cvgtlk' v' guk' p' { cr ,nf , , " f³/4pgo g' dktg' dkt' mct , nm' i grgeg m' h' p' kn' d' kni k' g' tlp' " i Ñ xg' p' k' k' t' dkt' gnk' f g' gnf g' g' f go g' f kn0Dw' p' g' f g' p' r' g' dw' h' q' p' w' f c" kuvvknugn' dkt' fg' g' t' r' p' f' k' t' o' g' { cr co cf m0'

Tablo 5. DJ 'i twdwpfc' j cuvcnm' kf fgv'rwcp, pc' i³/4tg' r cvgtlk' v' gu' r' q | kkh'k k

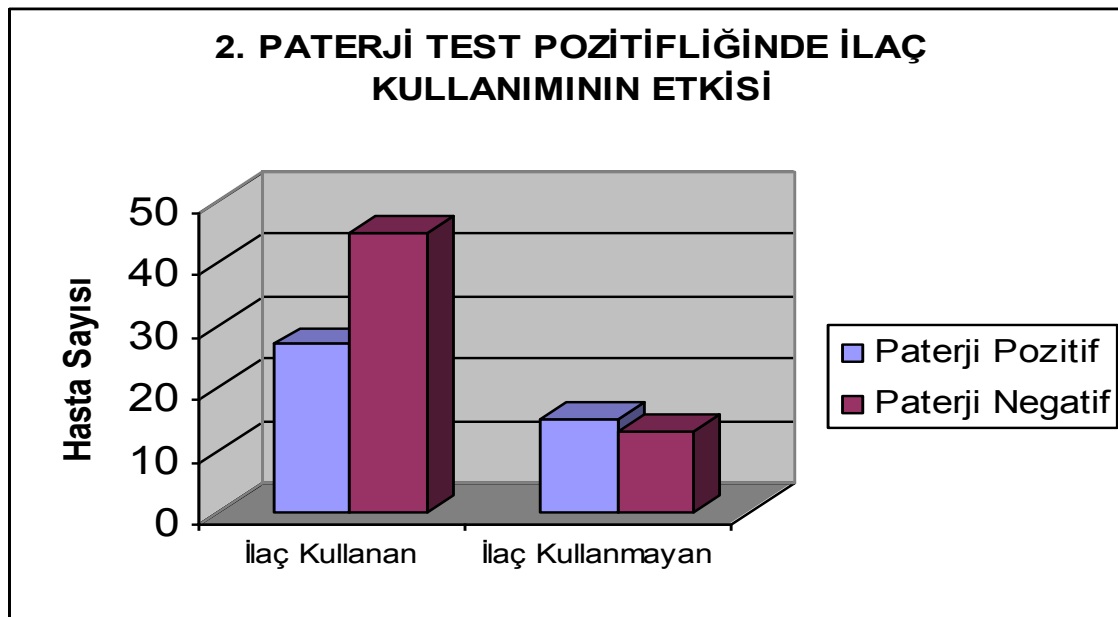
V G U V ' V R	F F G V ' ' ' ' ' ' ' ' ' ' ' ' P U A N L A R I			
	0	1-2	3-4	×7
	I gr.	II gr.	III gr.	IV gr.
RV"rq kkh'k k'	3/11 (27)	16/39 (41)	11/36 (30.5)	2/14 (14)
*uc' h' qn-				
RV"rq kkh'k k'	5/12 (41)	20/39 (51)	10/36 (27.7)	3/14 (21)
(sol kol)				

mlpek'rcvgtlk'vuv'r q |klk kÅ |gtlpfg'kr±hwncp, o p p'gmkuk

[Å |DJ ø p '94 'vcpuk'kr±hwncp, mgp. 4 : 'vcpuk'jgt"j cpi k'dk'kr±hwncp, {q trtf, 0' kr±hwncp"j cuvrc t, p '49 'vcpuk'pfg'*' '5907+. 'kr±hwncp, c {cp"j cuvrc t, p 'kug'37øpfg'*' " 7707+RV"rq |klk kÅ tcf c'kucvukmugn'dk'hc tmm, nm" {qmw'*r? '208+'Vcdm'8+0

Tablo 6. mlpek'rcvgtlk'vuv'r q |klk kÅ |gtlpfg'kr±hwncp, o p p'gmkuk

	kr±hwncp cprt	kr±hwncp, c {cprt
PT pozitif	27(%64)	15(%36)
PT negatif	45(%78)	13(%22)



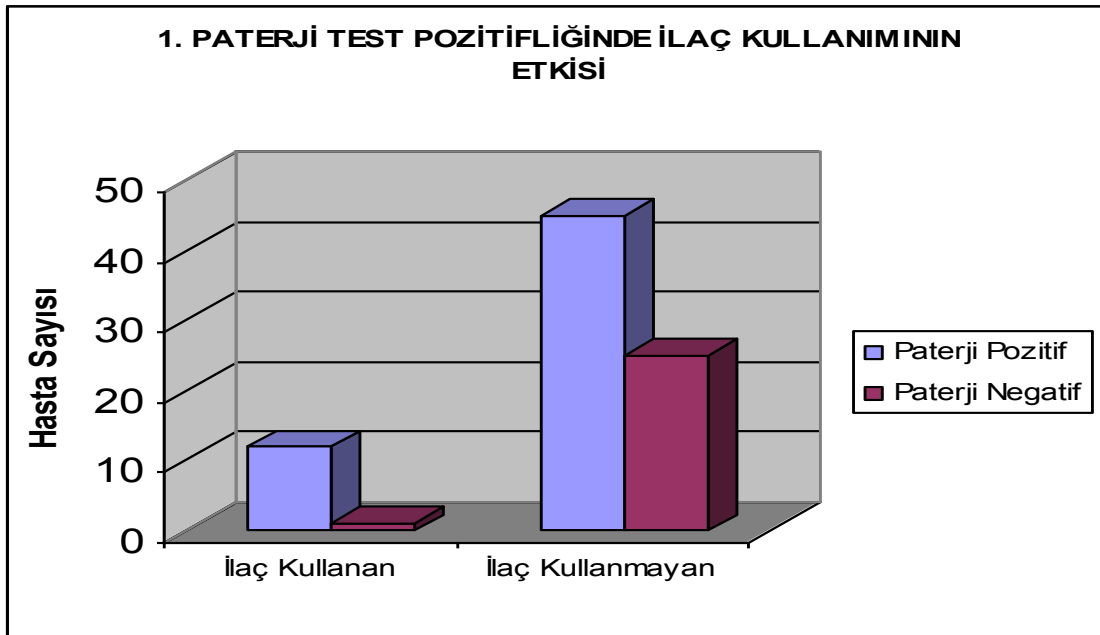
Dklpek'rcvgtlk'vuv'r q |klk kÅ |gtlpfg'kr±hwncp, o p p'gmkuk

Dklpek'rcvgtlk'vuv'r q |klk kÅ |gtlpfg'kr±hwncp, o p p'gmkuk "RVølp" {cr ,nf , , "f%4pgo fg"j cuvrc t, p"j cpi k'kr±rt, "mwncp f mrc t, p," jgo "j cuc" fqu {crt, pfc p"gnfg"gwkn" jgo "fg"j cuvrc t"vgrhqp"kr±wrc ctm" xgtkgtlo klp" uc rco cu, p, " {crvm' Buradan elde gwkkökl" uqpw±rt"1. Paterji testi Å |gtlpfg" kr±

mwmcp,o ,p,p'gmkuk'qwr "qm cf , ,p,"fg gtrgpfkto go klg" {ctcf,0'Dktkpek'vguv'u,tcu,pfc'83 jcuvc p,"rcvgtlk'vguv'ucpwewpw"iÃxgpkkt dkt"ucpw±"qrc tm'mcdwn'gwm0Dwprctfcp"79"vcpguk' r q |khh."48"vcpguk'lug'pgi cvh'kf10Vguk'r q |khh'qrcp"79"jcuvc p"34"vcpguk'vguv"|co cp ,mqn kulp" {c"fc"dc mc"dk"kc±'hwncp ,mgp"*' "43+.'vguk'pgi cvh'qrcp"48"jcuvc p"ucfgeg"3"vcpguk'kc±" mwmcp,{qtfw"*' "6+0' ucwvknugn'fg gtrgpfkto fg"dw"4"i twr "ctcu,pfc"cpco n,"dk"hc tm" dwncpco cf ,"*r?2074+0M,ucec"kc±'hwncp,o ,p,p"rcvgtlk'r q |khhk k'Ã|gtpfg"dk"gmuk'{qm" gibiydi (Tablo 7).

Vcdiq'90Dktkpek'ncun'r cvgtlk'vguv'r q |khhk k'Ã|gtpfg'kc±'hwncp,o ,p,p'gmkuk

	kc±'hwncp,{q t	kc±'hwncp o ,{q t
PT pozitif	12(%21)	45(%79)
PT negatif	1(%4)	25(%96)



Cmwv'hc |'r tqvlgpigtllg'r cvgtlk'gvu'r q|kllk lpl'fg gtrpftkno guk

Cmwv'hc |'r tqvlgpigtllg'r cvgtlk'gvu'r q|kllk lpl'fg gtrpftkno guk "jgo 'ETR" jgo "fg'GUJ "kg'uc 'mqrfc" {cr ,rp"40hrcukn'RV" po |kllk k'xg'XQUVølp" {cr ,nf , , "uqnhqnrRV" r q|kllk k'ctcu,pfc" dkt "kkmk'dwvpo cf ,0Uc " mqrfc" r cvgtlk'gvu'r q|kllk qncp" j cuvcrt,p'GUJ "xg'ETR" fÄ|g{ rgtk'460.18 mm/saat ve 2.4.4.9 o i lfn'dwvptmgp."pgi cvh" qncpct,p'mk'480.25 mm/saat ve 1.8.3.9 mg/dl bulundu. Bu hcmrt" kuvvuknugn" cpico n,nmc" fg kfk" *r@2027+0'C {p, "uqpwrt" XQUV" kg" {cr ,rp"RV" uqpwrt,pfc" fc" gnf g" gf kfk'ORq |kllk RVørk' j cuvcrt,p'GUJ "xg'ETR" fÄ|g{ rgtk'46.17 mm/saat, 2...608'o i lfn'pgi cvh" qncpct,p'mk'lug'49.25 mm/saat ve 2.4 mg/dl bulundu. Aradaki farklar jgt'kllk'k'lp" fg' kuvvuknugn" cpico n,nmc" fg kfk" *r@2027+" Vcdm": +0

Tablo 8. Cmwv'hc |'r tqvlgpigtllg'r cvgtlk'gvu'r q|kllk lpl'fg gtrpftkno guk

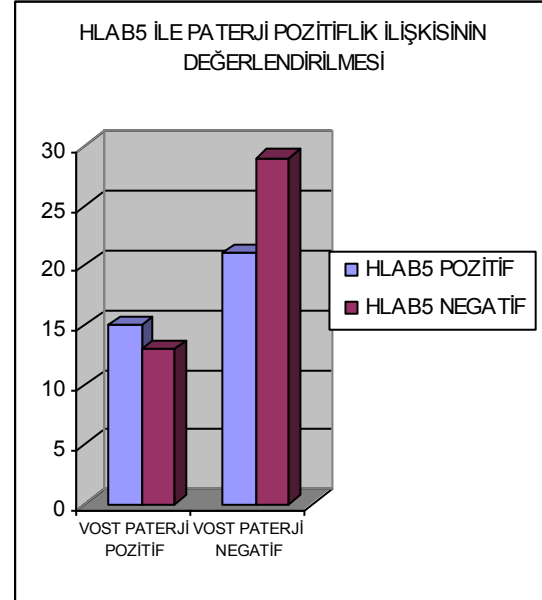
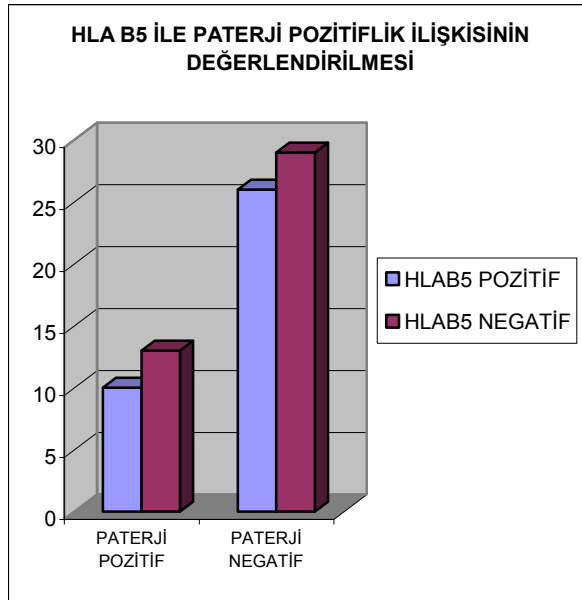
	Test sonucu	2. paterji testi	VOST ile paterji testi
ESH (mm/s)	Pozitif	24.9 Ö3:	46 Ö'39
	Negatif	480 Ö'47	49 Ö'47
CRP (mg/dl)	Pozitif	40 Ö'60;	4 Ö'60
	Negatif	30 Ö'50;	4 Ö'6

HLA-D7'lg'r cvgtlk'r q|kllk lpl'fg gtrpftkno guk

J cuvcrt,p" j cuvc" mc{ ,vrt,pfc" {ctctrp ,rtm" 9: " j cuvc,p" JNC-B5 sonucuna wr ,nf ,0Dw" j cuvcrt,p" 58" vpgulpfg" *' "69+" JNC-D7" r q|kllk J cuvcrt,p" 64" vpgulpfg" *' " 75+"pgi cvh" J go "uc 'mqrfc" {cr ,rp"40hrcukn'RV" fÄ|g{ rgtk'fg." jgo "fg" uqnhqrfc" {cr ,rp" XQUVørk'RV" r q|kllk k'Ä|g{ rgtk'fg" JNC-D7øp" dkt" gmkuk" ucrcpo cf ($V^2=0.01$, $p>0.05$; $V^2=0.5$, $p>0.05$) (Tablo 9) .

Tablo 9. HLA-D7'lg'r cvgtlk'r q|khh'n'kkmkulp'fg gtrgp ftkno guk

		HLA-B5 pozitif	HLA-B5 negatif
2. klasik paterji	Pozitif	10	13
	Negatif	26	29
VOST paterji	Pozitif	15	13
	Negatif	21	29



Elpu'fc no ,lg'r cvgtlk'r q|khh'n'kkmkulp'fg gtrgp ftkno guk''''''''

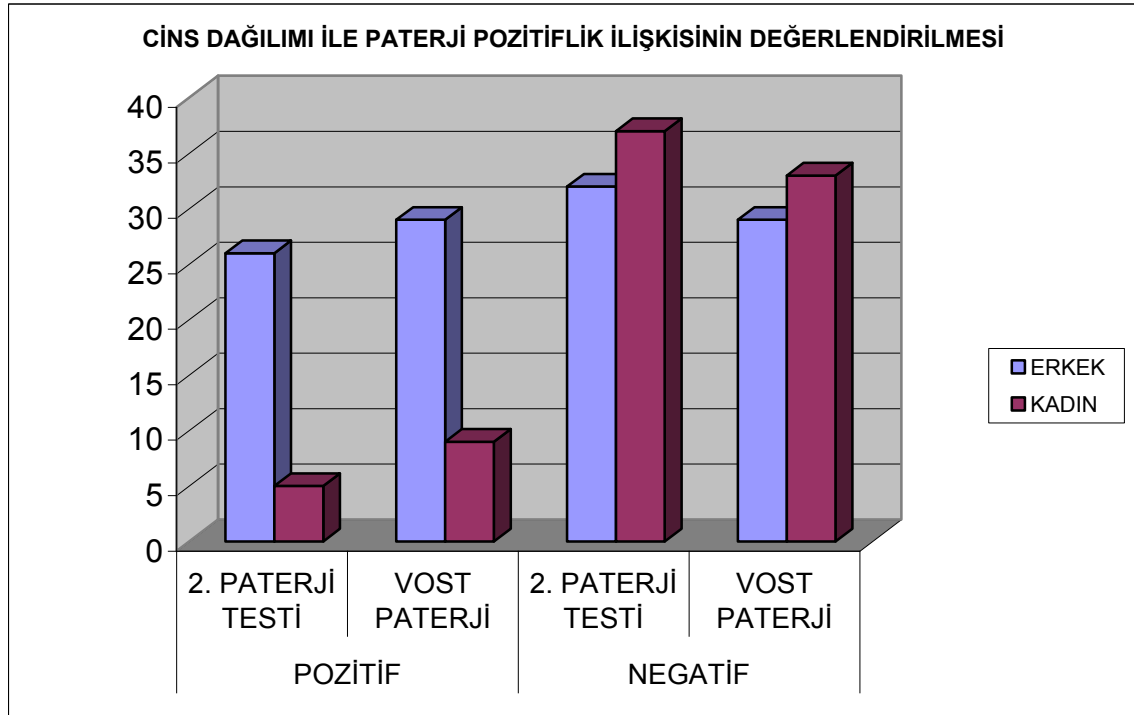
Uc "xg"uqnlmqre"{cr ,rnp"RV"rq|khh'n'kkmkulp'fg gtrgp ftkno guk''''''''
 {Amugn"q tepfc{f ,0'7:"gmgm" jcuvc p"48"vcpgulpfg"* "67+"RV"rq|khh'n'kkmkulp'fg gtrgp ftkno guk''''''''
 jcuvc p"7"vcpgulpfg"rq|khh'n'kkmkulp'fg gtrgp ftkno guk'''''''' 38+0Dw'kucvkuugncprco n,nmc{f ,W =10.8, p<0.01). Sol
 mqre"{cr ,rnp"rcvgtlk'r q|khh'n'kkmkulp'fg gtrgp ftkno guk'''''''' 72"%4; 17: +ulp'fg.mcf ,p"jcuvcrt,p"fc"
 ' 43"*; 164+dp'fg'dw'p'fw0Dw'hc mn,nm'fc'cprco n,{f ,W =7.27, p<0.01) (Tablo 10).

Tablo 10. Erkek ve kadınların 2. paterji testi ve VOST ile paterji testi sonuçlarının karşılaştırılması

	Test sonucu	2. paterji testi	VOST ile paterji testi
Erkek	Pozitif	26(%45)*	29(%50)**
	Negatif	32(%55)	29(%50)
Kadın	Pozitif	5(%16)	9(%21)
	Negatif	37(%84)	33(%79)

* , p < 0,05 (Mann-Whitney U testi)

** , p < 0,01 (Mann-Whitney U testi)



Tablo 11. Dg j ±gv'j cuvcrc t p f c' huplm' dwniwrc tnc' r cvgt lk'gvu' bqpw ±rc t p p' kkmkuk

	Paterji pozitiv	Paterji negativ
Aft	15	28
I gplvci Ångt	7	12
© xglv	3	6
Ekleme sorunu	18	28
Damar tutulumu	4	7
Deri tutulumu	21	19
Beyin tutulumu	-	3
I U'go r vqo rc t,,	1	5
HLA-B5	18	18

*= I U'go r vqo rc t,, k f fgv' l p f g m l p g " i 3/4 t g . h n c t , p " c t , u , " x g " k u j c n { a m , p o c u , p , p " x c t " q r w r " q m c f , , p c " i 3/4 t g " d g r k t r g p o k v k t 0

J cuvcrc t f c " D J ø p , p " m r p l m " d w n i w r c t , { r " R V " r q | k k r k k ' k k m k u k " v g n g t " v g n g t " f g g t r g p f k t k f k l p f g " c p r c o n , " d k t " k k m k " d w n i w p c o c f , 0

VCTVK O C

Dk| "dw" ±cn, o cfc "XQUV" ctce,n , "kg" rcvgtlk' vguvlp "rq|kkhk kpf" ctv, " {cr,r" {crco c{cec ,o ,|,"ctc v,tf m0'J cuvc"i twdwo w|wp" {c "fc ,no ,"pq to cn'mqpvtnf gp"hc tmn," qm cu,pc"tc o gp."dw"hc tmn,n ,p"uqpw±rct'Ã|gtkpf"dk"gmkkuk'qrndkreg kpk'fÃ Ãpo Ã{q tw|0' Ekpufc ,no ,"dan,o pfc p'uc nmn,mqpvtnf gp"cpno n,"dk'hc tmn,nm"dwro cf m0DJ "i twdwpfc" ekpu"fc ,no ," jchh"dk" gmgn"dcum,pn, , {¼pÃpf{fk" *35+" *6: +0'Dw"uqpw±."VÃmk{gøfg" {cr ,rp" grkfgo k{qmq lkn" ±cn, o c" uqpw±rct,pfc p' hc tmn," fg knf0' J cuvcrt,o ,|p" mrlpln" dwiwrt,p," flmccvg" cnf , ,o ,|fc." jgo " igpkcn'Ãngt"umn, , jgo "fk gt"qti cp"wwwwo rct," dan,o pfc p'rkgtcÃtfgp'hc tmn,¾|gnknrgt"i¾avgto k{q tfw"*37+0C pecm'vuv'|co cp,pfc"jgo "chv umn, , jgo "fg"fk gt"qti cp"wwwwo rct,"fq cn'qrctan"fcjc"cf ,0'Dw."±cn, o co ,|p" jgo "mgukugn" qm cu," kg" jgo " fg" jcuvcrt,o ,|p" ±q wppw" vnk" cnv,pfc" qm crct," xg" kn± mwmpo crct,{rc'kkmkk'qrndkkt

Dgj±gv"j cuvcn, p p'fk gt"dk'vcp,¾nÃvÃ"qmp"rcvgtlk'vuvk"j cuvc"i twdwo w|fc."q rno " rq|kkhk" {¼pÃpfgp." {cpk' jgo "uc " jgo "uq'nmqm" flmccvg" cnf , ,o ,|fc" ' "64"q tcp ,da rq|kkh0'rcvgtlk'vuvkpfgnk'rq|kkhk"q tcp, "{ ,mct"kegtkulpfg"fg kmgnknrgt"i¾avgto gmvgfkt0' Dw" fg kmgnknrg." ±cn, o c{c" cnpcp" jcuvcrt,p"mrlpln" xg" gpln"¾|gnknrgtk" vuvk" pcu,n {cr ,nf , ,.hwmp ,rp" k pgpl±cr, "xg"fgtk'k±lp" xgtkrgp"o cffgrtg "{cm,pfc p'kkmkkfkt0Wew" mÃpvk vktk k "k pg"kg"rq|kkhk"q tcp, " "89"q tcp,pfc" *33+" dwwpwtngp" fcjc" kpeg" k pg" mwmp,nf , ,pfc" dw"q tcp,pfc" fcjc" fÃ Ãm"qrfw w"ucrvpo , v,t0' " tpg lp." 3; ;2" { ,npfc" {cr ,rp"dk"±cn, o cfc." ;4DJ øfc'ucfgeg"42I 'xg"48I 'k pgrtg "{cr ,rp"rcvgtlk'vuvk' uqpw±rct," kpegp'fk kpf."42I " *igpk rkn"20,"o o +"k pg"kg" " 87"rq|kkhk"ucrvp,mgp"48I " *igpk rkn" 20"o o +"k pg"kg" {cr ,rp"vuvgtfg"rq|kkhk"q tcp, " 57"qrctan"dwmpo w wt"*: +0' [wtfanv' xg"ctmfc rct.pec" {cr ,rp"dk"crp"±cn, o cu,pfc"kg"rcvgtlk'rq|kkhk k" "550"dwmpo w wt0' C tc v,t,e,rct" dw" fÃ ÃmÃ Ãp"pgfgplk" jcuvcrt,p" jcuvcpg{g" i gno g{k' |q twpw"m,ro c{cean" jchh'ug{kik'j cuvcn, c'ucjk"qm crct,{rc'kkmkrgp'fko krgfkt"*84+0"

Dk|ko "±cn, o co ,|fc"ew"mÃpvk vktk k "k pg"hwmpo cf m."cpean"ew"fcjc" igpk " qrp" *42I +20,"o o "rkn" k pg"hwmpf m0C {p,¾|gnknk" k pg{k'km"rcvgtlk" *30'vuv+"vuvkpl" {cr ,nf , ,f¾pgo fg"fg'hwmpo , vm0Dw" f¾pgo fgmk'rcvgtlk'rq|kkhk"q tcp,o ,| " "8; "kf0Dw" rkgtcÃtg'w{iwpm"i¾avgtp dk"fg gtfk0 Ancak 2. PT (VOST ile) uqpw±rct,o ,| ¥ co c "

±cn, o cu.pc"i³⁄₄tg"fcjc" {Ãmugn"dkt"rq|kñrkñ"i³⁄₄uvgto gulpg"* "64+"tc o gp." |cto c cp"xc" cñcfc ñct,p,p"±cn, o cu.pc"i³⁄₄tg"fcjc"fÃ Ñm"dwñpfwODwñfc"rcvgtlk"rq|kñrk kÃ|gtlpfg"dkt" ±qm" fg kmgpñp" gñkñk"qñcdkñ gulñp" dkt pgfñp"qñcdkñgeg ñpñk"¼{ñg{gdkñkñ|O'Uqp" {,ñctfc" vñuñp" rq|kñrk ñpfg" c|cñ c"qñfw w" i³⁄₄uvgtkñ k ñk" *:+O'Dwñfc."CKFU"³⁄₄peguk" ñ⁄₄pgo fg" ñwñcp,ñp" ñ±qm"ñwñcp,o ñmñ "k pñgñtkñ"vñm"ñwñcp,o ñm"ñk pñgñtg" i³⁄₄tg"fcjc" jcuñcñ{.e," qñ cu,"uq two ñfwñO'Dw" i³⁄₄|ñgo k'fq twñ{cp"±cn, o c"³⁄₄tpñgñtkñ {wñct,fc" xgñtkñ k ñO'Dw" ±cn, o cñct,p" uqpw±ñct,pc" i³⁄₄tg." iñpk" w±w" k pñg" ñwñcp,ñ cu," vñuñp" fw{cññ, p," ctw,to ññcf ,tO'

Bizim ±cn, o co ,|. "XQUVñpñ" rcvgtlk" vñuñ" rq|kñrk k'Ã|gtlpfg" dkt" gñkñk" qñwr" qñ cf, ,p,p" cñc v,to cu," {cp,pfc." rq|kñrkñ"Ã|gtlpfg" jcuñcñm" kñfgvñpñ" dkt" tqñÃ" qñwr" qñ cf, ,p," ñpegñgo g{k'fg" co c±ñ,{qñfwO' I gñkñg" ñ⁄₄pñm." fqu{c" vñcñ cu," ñgñ" kñm" rcvgtlk" uqpw±ñct," gñfg" gñkñp" jcuñcñcfc."ñguñsugn"qñcñm"ñkñpek"dkt"rcvgtlk"vñuñk"XQUV"uqñtcu,pfc" {gñkñgp" {cñ,ñf,O'J gñ"iñgñkñg"ñ⁄₄pñm"±cn, o cñc" {c cñcdkñgegñ"fg gñgñpñkñto g" |qñwññct,p,"dw" ±cn, o c" u,tcu,pfc" dkñ" fg" {c cñ mO'Vñuñp" {cñ,ñf, , ñ⁄₄pgo fgñk'ñkñpñ" dñwñwñct,p" jcuñcñ" fqu{cu,pfc." vñuñ" |co cp,{ñ" dñkññgñ" {gñgñpñeg" vñp,o ñpñ co cu," dw" |qñwññctfcñ" gñ" ³⁄₄pgo ñkñkñ fñO'Dw"pñfgñpñg"ñm"rcvgtlk"vñuñpñp"uqpw±ñct,Ã|gtlpfg"jcuñcñm"gñkñpñkñ ñpñp"dkt"tqñÃ" qñwr" qñ cf, ,p," fg gñgñpñkñgo gñkñO' C pñcñ" kñm" rcvgtlk" vñuñpñp" {cñ,ñf, , ñ⁄₄pgo fgñ" jcuñcñct,o ,|p"ñc±ñwñcp,rñwñcpñ cñ mñct,p,"jgo "jcuñcñ" fqu{cñcñ{,ñct,pfcñ"jgo "fg"¼|gñ" qñcñm"jcuñcñctfcñ"iñxñpñkñ"dkt" gñkñfg"¼ tñpñkñO'Dw"xgñkñdkñg"rcvgtlk"rq|kñrk k'Ã|gtlpfg" ñc±" ñwñcp,o ,p,p" gñkñk" qñwr" qñ cf, ,p,p" {cp,v,p," xgtgegñmO' ñm" dc xñtw" u,tcu,pfc" {cñv, ,o ,|"rcvgtlk"vñuñpñfgñkñ"rq|kñrk ñp"* "8;+." {cñ,ñp"ñkñpek"vñuñ"uqpw±ñct,pc"i³⁄₄tg"fcjc" {Ãmugn"qñfw wñw"ucñvcñm"*' "64+O'J gñ"pñgññcñct"qññw"ucñ{,ñct,o ,|p"ñcñ|"qñ cu,"pñfgñkñgñ"ñkñ" ÑK" {cñpñ, ñmñ" {cñro , "qñcdkñgeg ño kñkñf, ñco cñmñfc."dw"uqpw±ñcñ|gtlpfg"ñc±ñct,p"dcñm,ñ{.e," dkt"tqñÃ"qñ cf, ,p,"¼{ñg{gdkñkñ|O'ñpñmñ"ñc±ñwñcpñ"jcuñcñct,o ,|"ñgñ"ñc±ñwñcpñmñyññ" jcuñcñct,o ,|"cñcu,pfc" dkt"ñcñm" dñwñcñ cñ mO'Dw" jgo "3O'RV" xgñkñgñtkñkñp" jgo "fg"±cn, o cñ" |co cp," {cñ,ñp"4O'RV"ñXQUV"ñgñ+xgñkñgñtkñpñfg"fg"ñgpñgñtfñO

C pñcñ" 4O' vñuñ" u,tcu,pfc" {cñv, ,o ,|" ñmñkñgñ" fg gñgñpñkñto gulpg" i³⁄₄tg." jcuñcñmñ" ñlevññmñsññññ pñterñi pñzñtñfl k k'Ã|gtlpfg" qñcu," vñtu" dkt" gñkñfg" dñwñpñfw wñw" ucñvcñ mO' " pñgñkñgñ" fco ct"ñcñkñdcu,p±"cñv, ,wñ{ ñwñco ñmñ"rcvgtlk"rq|kñrkñ"qñcñp,"cñw,tcdkñgeg ño kñ" fñ Ñpeguñpñp"fq tw"qñ cf, ,p,"i³⁄₄tfñmñO' cñkñXQUV."rcvgtlk"rq|kñrk k'Ã|gtlpfg" cñw,t,e,"dkt"

tqn' q {pco cf, 0' " vfgp" dgtk' RV" kg" mrlplm" dwniwrt" cteu, pfc" dkt" kkmk' qnr " qm cf, , " ctc v, t, m , v, t0Dc| , "ctc v, t, e, rct' RV" r q | kkhk k' A | gtlpfg' mrlplm" dwniwrt, p" tqA " qm cf, , p, " kgtk' uA tgmgnp " ; .85.86+ "fk gt' ctc v, t, e, rct' fco ct' wwwwo w" kg " *87+ . " gtmgn" qm cmc " *87+ " xg" HLA- D7 " *88+ " r q | kkhk k' kg' kkmk' k' dwno w rctf, t0Dk| " ±cn, o co , | fc. " {wnc, fcmk ±cn, o crct, p" vgtulpg' mrlplm" dwniwrt" kg" RV" r q | kkhk k' cteu, pfc" fq twucn' dkt' kkmk' dwno cf m0' C pean" [c | , e, " xg" ctmfc rct, p, p " ±cn, o crct, pc" m q wv' qrc tan" gtmgn" jcuvcrtfc" RVølp fjc " ±qm" r q | kkh' qrfw wpw" i 3/4 | rgo r g f k 0' " v g " {cpfc p " {lp g " [c | , e, " xg" ctmfc rct, pec" kgtk' uA tgmgnp " tersine HLA- D7 " xctn, , p, p " RV" r q | kkhk k' A | gtlpfg" dgrktg {kek' qm cf, , p, " dwrfwm0' C pean" jcuvcrt, o , | p " ±q wpfc " D7 " fg gtrgpfkilo lpk " hc tmn, " { 3/4 p vgo r g t r g " ctc v, t, m cu, " xg" vAo " jcuvcrt, p " D7 " fg gtrgpfkilo lpk " { cr , mco co cu, " dw" uqpwewo w | wp " i A xgpktk k' k' m q p w u p f c " mw mw w {cpf , to cmcf , t0'

Dc| , "ctc v, t, e, rct' RV" pgi cvh' qncp" jcuvcrt, p " mcp " cnpo cu, p, " vankdgp " { c " f c " KX " u, x, " xg t k o l p f g p " uqptc " RVølp " r q | kkhg v k l p k ' i 3/4 | rgo rgo k ardir (8,9). Bunun nedeni c ± m r p c o c u c ' f c . h m p ' c n o , ' u , t c u , p f c ' w t p l n g { g ' d c n , ' f c o c t ' k + k ' d c u , p e , p , p ' c t w o c u , " { c ' f c ' h m p ' c n o , ' u , t c u , p f c ' f g t k ' k + l p g ' m c p ' u , | o c u , " d w " r q | k k h k l p " q n w w o w p f c " t q n ' q { p c { c d k r k t 0 ' v g " d k | " f g " d w t c f e p " j c t g m g v g X Q U V ' k g R V ø p k ' f g g t r g p f k t o g { k ' c o c ± r c o , v m 0

[cr , r p " k o o A p q j k u r q m k o { c u c i l ' ± c n , o c r c t f c . " r c v g t l p k p " r q | k k h ' q n f w w " d 3/4 n i g f g . " f g t o k u f g . " ± q w p n w w " O P J " x g " c | " q t c p f c " R O P N " d k t k o l p k p " q n f w w " i 3/4 u v g t k o k v k t 0 ' O P J ø r g t l p " ± q w p n w w " V " r g p h u k ' x g " o q p q u k l o a m t q h c l r c t f , t 0 ' V " r g p h u k v g t l p k p " ± q w " f a E F 6 7 T Q " j A e t g r g t l p f g p " q n w w t 0 ' F g t k f g n k ' m g t c v l p q u k v g t " k u g " i A ± A " d k t " g n k f g " J N C - D R s u n u m u v e I C A M - 3 ' u p w o w " i 3/4 u v g t k r g t 0 F c o c t r c t f c ' k u g ' f c o c t ' ± g x t g u l p f g ' O P J " x g R O P N " d k t k o k . " g p f q v g n " k o g u k ' x g " i A ± A " d k t ' K E C O - 3 " { c r , o c " e k u k o e k k ' u p w o w " x c t f , t " 5 } . B u b u l g u r c t , p " v A o A . " i g ± " v k r " c , t , " f w { c t n , n m " v g m k o g u l p g " d g p | g r t k n " i 3/4 u v g t k 0 ' R c v g t k ' r q | k k h k l p k p " i g r k k o k ' u , t c u , { r c " 3/4 { r g 3/4 | g v g p g d k r k t 0 F , " w { c t e p " c t c e , n , " k g ' m g t c v l p q u k v g t " w { c t , n o a m c . " m g t c v l p q u k v g t f g p " c ± , c " ± m c p " u k s q m l p r g t " O P J " x g " R O P N ø k " q r c { " { g t l p g " ± g m o g m v g . " w { c t , p , p " x g t k r f k k ' { g t g " i g r g p " o q p q u k l o a m t q h c l " x g " V " r g p h u k v g t k ' q n c " { d 3/4 n i g u l p f g n k ' { c p i , { , ' u g t d g u v g v k t f k n r g t k ' u k s q m l p r g t e g " c t w , t o a m c f , t r c t " * 7 + 0 '

Dw" j k u r r e v q m l k n " ± c n , o c " u q p w ± r c t , p c " m q w v ' q r c t a n . " D J ø f c " u g t w o " j A e t g r g t " c t c u , " { c r , v , t o c " e k u k o e k n r g t k '] l p v g t u g n A r g t ' c f g | { q p " o q r g n A n g t k ' * K E C O - 3 + _ " f A | g { r g t k f g " { A n u g n "

dwnpwo wwt" *89+0' KECO-1, IL-1 ve gamma- kpvgtgtpwp" mqpvtqã" civ,pfc" qrcp" dkt" o qrgmÃnfÃt0KECO- 3.V'gphqukgtpk" {cpi ,c¼ni gulpfg"qrcpo cu,pfcp"uqtwo nfw" *89+0

Dw'dkni kgt", , pfc.XQUVøp"rcvgtk'rq|kkkkm'qrcu,n ,p,'ctw,t,r'ctw,tco c{cec p," vqg tkm'qrc tam'vctv, cdkktk|0

RVøpk"XQUV"kg"dkrkmg" {cro c" i gtm±go k|. "fco ct"kk'dcu,p±"ctv, rct,p,p" {c"fc" f, ct,fcp" {cr ,rp"j cucr{ ,e,w{ iwrc cmt,p."fco ct"kk'dcu,p±"ctw,t,m cu,"kg"dklikte paterji vguv"rq|kkk kpk'ctw,tcec , "xctuc{ ,o ,pc"fc{cp,{qtfw0'Dw"xctuc{ ,o ,o ,|,"dc|,"i¼|rgo "xg" xgtkgtg"fc{cpf,tf m0" tpg kp="dc|,'mk kgtfg" c{cmv'mcm c{c"dc n,"xcumÃrkkm" f¼mÃpvÃrgt" qtc{c"±mcdkno gmg"xg{c"wtplng"vguk" {cr ,rtan" fco ct"kk'dcu,pe,"ctw,t,nf , pfc"xcumÃrkkm" qrcp"j cucrctfc"rgvg kgt"qtc{c"±mcdkno gmgfkt0'Dcu,p±"ctv, p,p" fco ct" {cr ,u,"Ã|gtkpfgnk" gmkulpk" i¼avgtp" dkt"dc mc"¾4tpgm"dc|,"xcumÃrkmg"fg"dcu,p±"hc tmmn , p,p"qrfw w" {gtg"tf" cpgxtk|o cmt,p" fcjc"um"qm cu,f,t0'RV" f, ct,fcp"w{ iwrcpcp" dkt" vtexo c{c"fgtkp" c ,t," fw{ctn , "cpmco ,pc" i gm gmgfkt0'Dk| "k pg"dcv,tctan" f, "w{ctcp" {ctevc" {cp,pfc" dkt" fg" fco ct"kk'dcu,p±"ctv, " {crtan"kw{ctcp" {ctevc" {co c±rf m0D¾4|regg."rcvgtk'rq|kkkkm" qtcp,p, "jgo "f, "jgo "fg"kw{ctcp" {ctevctm"ctw,tcec ,o ,|,'wo wv'gwo k vkt0¥ cn, o co ,|fc" mwmpf , ,o ,| "XQUV"cupfc"hdtkpqrkkm'ukugo kp"gmkprik kpk'fg gtrgpftgp" dkt"vguwt" *79+0' PAI- 3"xg"RC "gpfqvg"jÃetggtlpeg" {cr ,rp"o cffgmgfkt0P qto cñmq wmt" civ,pfc"RC .RCK 3"kg"dkrg gtm"fqrc ,o fc"dwnpwtmgp."±qm" c| "o kmctfcmk'ugtdguv'm,uo , "fqrc ,o fc"dwnpwt" *79.8: .8; +0'XQUV"u,tcu,pfc."RC "fã|g|kpf"ctv, ."RC RCK3"q tcp,pfc"fc"ctv, "dgmrgpkt0' Hkdtkpqrkkm'ukugo kp"gmkprik kpk'fg gtrgpftgp" dkt"vguvt'rcvgtk'rq|kkk kã|gtkpf"pcu,n'dkt" gmk" i¼avgtgeg k" {c"fc" {cpi ,ucn'¾mÃvgt"Ã|gtkpf" dkt" gmkuk" qmvr" qm cf , "kg" kni kk' rkgtcvÃtf" dkt"dkni k'g"wr co cf m0C pecm"dgp|gt" fggp{ugn"o qfgmgtk'f kmcvg" cmtan"dc| , " ±mct,o rctfc"dwnpwo cp,p'qrcu,"qrfw wpw" fã Ãpã{q tw|0" tpg kp."jgt'pg'ncfct"dc| , "±grkmkk ±cn, o c"uqpw±rct,"qnic"fc" *7: +."kpucep"uchgp"xgp" i tghkpg"w{ iwrcpcp"dcu,pe,p"gpqvgk{cñ cfg|{qp" o qrgmÃngtkp" uwpwo wpw" ctw,tf , , "dwpw" fc" gpfqvg" p¾4vtqhk" {cr , o cu,p," ctw,tctan"xg" {cpi ,{ , "vgkmg{gtgn"uchgp"xgp"dããpããããã"dq|fw w"kgtk'uããmãããã"59). C pecm"dw" fggp{ugn¾4tpgmg."fco ct"kk'dcu,p±"w{ iwrcp,o , "522"o o J i øfc"4" fcmknc"uãtg"rg" {cr ,m , v,t0'Dwpw"uqpwepfc"KECO-1, VCAM- 3"xg"R"ugrgmkp"¾pgo rk"q tcpfc"ctw, , " i¼vgtkm k vkt0'Dk|ko "o qfgko k|fg"kg."fggp{kp xkq'ñq wmtfc" {cr ,nf ,0C {t,ec'w{ iwlanan dcu,pe,p uygulama gmkrve o kmct,da qrfw±c"hc tm,{f ,0Biz, XQUVøpk'ortalama kan

dcu.pe.pfc" 32" fcnknc" w{iwrco c" gnrkpf" {crvm0' XQUV" uqptcu.pfc" rcvgtlk' vguv' rq|kkrk kpf"dk'tcv, "qno co cu.p,"{gvgtkpeg}{Amugn'dcu.p±w{iwrco co ,|rc±mrc co an'qrcu," qrcdkk0' [Amugn'dcu.p±w{iwrco co cp.p"uqpwewpfc"{gvgtrk'dkt'cfg| {qp"o qrgmAn'w{ct,o ," {crco cf , ,o ,|,,"vguv'rq|kkrk kpf"dw"pgfgprg"dk'tcv, "ucrv{co cf , ,o ,|,"u4{rg{gdkrk|0' C pean."pg" {c| m'nk'cf g| {qp"o qrgmAn'fA|g{rgtkp3/4±go go go k| "dw'mqpwfc'hgulkp" {cti ,rtfc" dwvpo co ,|,"|qtrc v,to amcf ,t0

¥ cn, o cfc'gnfg'gwkk ko k| "dk'tdc mc'kni kp±"i3/4|rgo ."j cuvcnm" kffgvkpkp ctv, ,pc'vgtu'dkt" gmkf'g"RV"r q|kkrk"q tcp.p.p" c|cmo cu,{f ,0' [cpk'j cuvcnm" kffgvk'ctwm±c"RV"pgi cvkh'mco c" g kko kpf g| f0'Dwpwprc" w{wo nw"qrc tm." jgo "uc " jgo "fg"uq'n'mqn' rcvgtlk' vguv"uqpw±rc t," dkrkng'flamcvg"cnpf , ,pfc."RV"pgi cvkh'qrcprc t,p"amxkg"rwc p., "RV"r q|kkrk'qrcprc t"i3/4tg" fcjc" {AmugnM0Dgj±gv"j cuvcn , p.p"amxkg" xg" kffgvkpkp"pcu,n'fg gtrgpfktkgeg k'kg"kni krk" vctv, o crct" jcrct" fgxco "gvo gmvgfk0'J gt"kkuk" k±p" fg"o Amgo o gn3/4±Avgt" dwm amc"dc| , " |q twmrc t" xctf ,t0'Dk| ko "nwmrc pf , ,o ,| "Mtcwug" xg" c m0p p"3/4±Avgtk" *82+" cunpfc" kffgv 3/4±Avgtk' qno cu.p" tc o gp" j cuvcrc t,p" iApegn' j cuvcnm" dgkrtvrgtkp' fg" k±go guk' pgfgpk|rg" aktiviteyi de {cpu,wckno gmvgfk0'Dk| "dw" c±, fcp"gnfg"gwkk ko k| "xgtrgk" j cuvcnm" amxkguk' |go klpkg'qwtctm'vctv, o am'kuk{q tw|0

J gt'pg'ncfet'cn'i twr "3/4|Ao ngo guk' {crctm'qniw'uc{ ,o ,| ,qrfwm±c" c|cnw , ,o ,| 'krk' uA±Ang"fg" xg" dwppw"uqpw±rc t,o ,| ,p"iA±xgpktrk kpk'c|cnw , ,kffk'gfkg'fg."dw'mqpwfc"dc| , " ±mct,o rctfc" dwvpo co ,| "igtgnk{q t0'Dk| kpf k' i kdk'RV ."RRF "i kdk' i g±" vkr "c ,t," fw{ctn,nm" tepkimesidir. C pean"RRF økp" vgtulpg" rcvgtlk' vguv"u,tcu.pfc" jgt" j cpi k' dk't" cpvklgplm" w{ct, " xgtrk g|0' C {t,ec"RRF ø{g" i3/4tg" vgrmko gplp" fcjc" gmgp" dc nco cu," xg" uqrcpo cu," c { ,tv' edicidir (5- 9+0'RRF "fcjc"3/4peg" vAdgmAnq| "dcukr'kg'mct ,rc ,nf , ,p.p" i3/4vgti guk' k0' Cmkh" vAdgmAnq| "gphgmuk{qpw"qno cu.p"tc o gp"RRF økp"pgi cvkh'qrfw w'hmplm" fwtwo rct" xctf ,t0' Dwprc t'vAdgmAnq| "r n4tg|k"o kkrk'gt'vAdgmAnq| fwt0Dwpw"pgfgpk'vgrmk'xgtdkrgegn"±g tgugn' mcpf ank"V"rgphukrgtkp" {cpi ,p.p" {q wp"qrfw w"cnek gt"fqnuwupfc" {c"fc" rrgx ten'ctenmc" dtkmo guk'k" *92.93+0Uc cnv,o fcp"uqptc"RRF økp"r q|kkrk o guk'dw'xctuc{ ,o , "fq twrc t"i kdk' i3/4|Amo gmvgfk0' C {p,"3/4|gnk k'Dgj±gv" j cuvcn , p.p" vcp,u.pfc"nwmrc pf , ,o ,| "RV" k±p" fg" u4{rg{gdkrk"o k|k|A" [cpk'±qm"gmkp"dk'Dgj±gv"j cuvcn , pfc"RV"pgi cvkh"qno c" g kko kpf g" o kfkA" "Dk| ko "±cn, o c"uqpw±rc t,o ,|c" i3/4tg"u4{rg"dk't" g kko kpf"qrfw wpw"u4{rg{gdkrk{q tw|0' NkgtcvA±tg u4{le bir i3/4|rgo kp" xctn , p, belirleyemedik. Ancak RA ve SLE gibi

tqo cvqrq lkn"jucvcmrctfc'RRF "vguklp"jucvcm ,p"gvmlp"qrfw w"i3/4pgo fg'pgi cvkh'qrfw w"94+"
igtg kpfgp"jctgngvg"wpw"kf fkc"gf gdkkkl'mk."i g±"vr" c ,t,"fw{ctn,mm"vgrmko grgtk' {cpi ,ucn'
vgrmlp" {q wp"qrfw w"jucvcm"i3/4pgo rgtkpg'pgi cvkh'qrdkkt0'

Gvmlp"i3/4pgo fg"RVøplp"pgi cvkh"qm c" g krko lpk" c±mrc cfc"mwncpedkgeg ko kl" dkt"
dc mc"xgtk'DJ øfcmk'uksqmlp"ucn,p,o ,p,p"fg kmgrk k'kg"kn k'k'qrdkkt0DJ øp,p."Vj-1 tipi
dc , m" {cp,v"jucvcm , "qrfw wpc"lpcp,m amcf,t"*5;+0"Vj-3"vr k'uksqmlprgtk"gp"i3/4pgo rluk'
IFN-gamma ve IL- 4øfkt0"C pecm"dw"±cn, o crct,p"vgtukpg"gvmlp'DJ øp,p"ug{tkpfg"Vj-2 tipi
uksqmlp"ctv, p,p"fc"qrfw w"i3/4avgtko k vkt0Dwprct'KN6 ve IL- 32"fw0" tpg kp"C t,fq cp"xg"
ark. *7;+gvmlp'DJ øfc"Vj-2 tipi sitokin olan IL- 6."8"xg"32ø"uguukl"i3/4pgo "jucvcmrct,pc"i3/4tg"
fcjc" {Ånugn"dw w rctf,t0Tc|kwf flp"U0"xg"ctmøfc"dgp|gt"uqpw±rct,"DJ ørct,p,p"rgtkgtk"
mcp"o qppqÅnrggt"jÅetg"mÅnÅt"±cn, o crct,pfc"gnfg"gv k rgtfkt"*95+0Dw"±cn, o cfc"gkin
DJ ørct,p,p"O P J ørgtkKN 6."32""xg"35Å" {Ånugn"qtcpfc"ugntvg"fggtgmgp"Vj-1 sitokinleri
olan IFN-gamma ve IL- 34ø{k'qrfwm±c" fÅ Åm"dw w rctf,t0Dw"uqpw±rct."mct ,v"±cn, o c"
uqpw±rct," qnc" fc" *5;+." " gvmlp" i3/4pgo fg" Vj-4" uksqmlp" Åtgko lpk" dcum,p" qrfw wpw"
i3/4termektedir. Th-2 tipi sitokinler, Th- 3" vr k'uksqmlprgtk" w{ct,u,p," gpi gmgogmg" xg"
{cpi ,{,"dcum,rct,mrct,"kgtk'uÅtÅm gmgfkt"*3+0" vg{cpfc"p.Vj-4"uksqmlprgtkpk."i g±"vr" c ,t,"
fw{ctn,mm"vgrmko guk'Å|gtkpg"fg"dcum,r{ ,e,"dkt"qn'q {pcf mrc,t,"dkkpo gmgfkt0" tpg kp'KN
4 ve IL- 32"rq|kklh"V"rgphqukrkt" c|cm , "KN2 ve IL- 34"xctn , pfc"RRF ø{g'mct , "cpgtlkn"
fcxtepedko gmgfkt" *96+0' RRF " pgi cvkhk k' k±p" i3/4avgtko k " dw" o gncpk|o crct,p" rcvgtlk'
pgi cvkhk lpk" c±mrc cfc"kg" {ctc{cdkgeg lpk'mgukp"qrctm"kf fkc"gfgo gugn"fg"qruc,"dkt"
c±mrc c"qrdkgeg lpk'u3/4{rg{gdkkkl'0M,ucec'DJ øp,p"gvmlp"i3/4pgo kpfg"dcum,p"jcrg"i gm k "
olan Th- 4" vr k'uksqmlprgtk." i g±"vr" c ,t," fw{ctn,mm" vgrmko grgtk' Å|gtkpg'gnk' dcum,r{ ,e,"
3/4|gmkngtkpk" dkt"rct±cu,"qrctm"RV"rq|kklh k'gp i gmkør olabilir.

Uqpw±"qrctm."vmlk"cn,pfc"qrctp"xg"±q w"jucvcm, c" {3/4pgrkn"kr±"mwncpccp"Dgj±gv"
jucvcm"i twdwpfc" {cr ,rcp"dw"±cn, o cfc."RV"rq|kklh k'lp"mklpkn"dwncrct"krkmlk"qm cf , ,"
cmw"hc| "r tqvklprgtk'rg"dkt"krkml"i3/4avgto gfk k"gtngm"jucvcmrctfc"fcjc"±qm"rq|kklh"qrfw w."
jucvcm ,p" kfgvk'qrfw w""qniwrc'fc"RVøplp"pgi cvkh'incm c" {3/4pÅpfg"dk" g krko "i3/4avgtk k"
qtv"fgtgegrk'dkt"cmv&kg"rwcp,"qrctp"jucvcmrct,p"RVøplp"fcjc"±qm"rq|kklh"qrfw w"ucrcpf ,0'

Dw" ±cn, o ep,p" cu,n' co ce," qmp" XQUV" kg" RV" rq|kkk klp" ctw,t,rdkgeg k'
xctuc{o ,p,p" fq tw" qm cf, ." dwpfc" {ctcv,rcp" dcu,p±" ctv, ,p,p" {gvgtk' {Amugmkng"
qm co cu,p,p" c±mrc{ ,e,"dkt"pgfgp"qrdkgeg k'uqpwewpc"xct,nf ,Dw"vkr "±cn, o crct,p"fg k kn"
dcu,p±"w{ iwrc o crct,{rc"xg" jcuvcnm" amkxcu{qpwpwp" fc" dktrkng" fg gtrgpfkfk k'±cn, o c"
mq wmt,pfc"{cr ,m cnf ,t0

UQPWYNCT<

1. Xgp¾|"qmã|{qp"utgu"vguk*XQUV+"w{iwr{ctm}{crv, ,o ,|"rcvgtk'vgvlp'hrckuln"
rcvgtk'vgvlp"i¾tg"jchh"{Ãmugn"qrfw w"cpem"dwpwp""kvcvkumugn"cpico n,nmc"
qno cf, ="
2. PT p q|kkk kpfg."Dgj±gv" jcuvcn ,p,p"mkpm" dwniwrct,p,p" dgrkrg{kek' dkt" tqã"
qno cf, ,."dwpchq w'qrctan'cnw'hc|"r tqvlpngtk'kg'RV"rq|kkk k'ctcu,pfc"fc"dk"
kkmlkp"ucrvpco cf, ="
3. RV"rq|kkk klp"gmgn"jcuvc"i twdwpfc"fcjc"{Ãmugn"qrfw w."cpem"J NC-B5 doku
cpvkgpkrg'kkmlkp"qno cf, ="
4. RV"uqpw±rct,p,p." jcuvcn , " kfgvk"ug{tgfgp"qniwrctfc"pgicvh"mcro c"g kko kpfg"
qrfw w."qtc"fgtgegrk"dk" kfgv"rwcp,"qrp" jcuvcrtfc"fcjc"±qm"rq|kkh"qrfw w"
ucrvpcf,O' ¥ grkmkk' i kdk" i¾tÃpqp" dw" uqpwep" jgo " amxkg" jgo " fg" kfgv"
rwcprct,p,p"fkmcvg"cnpctm">{cr ,nf, ,±cn, o crctrc'kfgrgpo guk'i gtgmo gmvfkt0".....

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