広島大学大学院医系科学研究科
（歯学分野）及び広島大学病院
診療科（歯科）

研究業績年報 2022

2022

2022

1:
2:
3:
4:
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1: 1 D N D W D Q L $. X Q L P D W V X 5 7 V.X N *D X Q < M L 6 D+N D ,WWDR 66 +. R G R H , 3 X V
1 $ 5 7 H U D \ D P D 7 D 5 Q L P R (W I R H F.W V R U H K T L X J H K Q F \ Q H D U L Q I U D U H G O D V H U
H [S H U L P H Q W D O W R R X F K H R S Y D H L Q H Q Q U D W V $ X J D V H U V 0 H G R L 6 F L
V [

2: erayama R, Tsuji K, Furugen H, Duong M, Nakatani A, Uchibe K, (I I H F W V R I S H U L S K H U D O Q H U
R Q W K H L Q G X F W D R Q G S K R V S K R U \ O D W H G (5 . L Q W K H E U D L Q V W H P
F R P S O H [$ Q Q 1 H X R S V U F L V V

1: 7 H U D \ D P D F K L H R U J D Q L] D W L R Q R I V \ Q D S W L F L Q S X W V W R V S L Q D O
S D L Q , Q W - 1 H ' X H U F R V F L G R L

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1: 3RVW UGLDF DUUHVW 6HGDWLRQ 3URPRWHV $FWLYH $QWLRHQGRSOH
6XUYLYDO LQ D 0RXVH 0RGHO RI &DUGLDF $UUHVW.DWRQHGDZX$VP
(6LOYHUPDQ 0* 0DOKRWUD 5 6ROW . ,FKLQRVH) $QHVWKHVL
2: &KDUDFWHUL]DWLRQ RI WKH IDWW\ DFLG SURILOH LQ WKH YHQ
LPEDODQFH EHWZHHQ RPHJD DFLGV GXULQJ VSHFLDOL]RULH1VWDJ
.DWDNXUD 0 6HWRJDZD 6 %XQ&VWHV01RWEDVKL .

1:

1: 'LVWLQFW QHXURORJLFDO YHGDQWXQQW DUHFRUGLQJV IURP WKH U
DQHVWKHWLF EHG XQFRQVFLRXVQHVV .DWR 5)ORUHV) 0HQGH]
$QHVWKHVLD 5HVHDUFK 6RFLHW\ $QQXDO 0HHWLQJ
2: &RPSUHKHQVLYH EHKDYLRUDO DQDOHDQG IHPDOH PLFH GHULYHG IURP
RPHJDQG ORZ LQDRWWHJDFLG\RUL 1)XMLL . .DWDNXUDG 0 7DNDR
,816 ,QWHUQDWLRQDO &RQJUHVV RI 1XWULWLRQ 7RN\R
3: 6XEFHOOXODU ORFDOL]DWLRQ RI)R[3QG 97$ QHXURQV &KDX 9D
7KH&KL 0LQK &LW\ ,QWHUQDWLRQDO 'HQWDO ([KLELWLRQ &R

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'2+D'

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&KDQ0 &

L U L Q R W H F D Q

6DNDU\RUL 1.DWDNXUD 0 7DN:DRXQ,QWHUQDWLRQDO ([FHOOHQW $
,816 QG ,QWHUQDWLRQDO &RQJUHVV RI 1XWULWLRQ
'2+D'

5HQQ 7<LLQJ

1J\X\HQ 7KL 3KRXQJ 7KDR

a '
'
'

$VVRFLDWLRQ EHWZHHQ OHIW DWULDO DSSHQGDJH ILEURVLV DQ
0L\DXFKL 6 7RNX\DPD 7 8RMWDQFLK <0L2NDRXUD66 2NXER < .DWD
7DNDVDNL 7 1DNDWDQL 1 0DWVXGDLUD <)XUXVKR + 0L\DXFKL
&DUGLRYDVF (OHFWURSK\VLRO -DQ GRL MFH

2UDO DGPLQLVWUDWLRQ RI ERYRLQH WXEHUFXORVLV YDFFLQH &DOPHWWH*XpULQ
6.* PRXVH PRGHO <DQDJLVDZD 6 1DJDVDNL . &KHD & $QGR 7 $
,VKLNDGR $,PDQDND + 6XJL\DPD + 7DNDKDVKL , 0L\DXFKL 0 7
H GRL SRQMRXUQDO&ROOHFWLRQ

1RQ'HEDFHRXV O\PSKHGHPDWRSRLHWLF GLVRUGHU 6DUFRLGRVLV 6D FDVH UH
0L\DXFKL 0 $QGR 7)XMLKDUD 0 1DNDJXUR 0 1DJDR 7 2JDZD ,
-XO GRL SLQ 0D\SXE

3URJHVWHURQH VXSSUHVVHV XWHULQH FRQWUDFWLRQ E\ UHGXFL

LQGXFHG FKURQLF LQIODPPDWLRQ LQ PLFH 7HUDRND < 6XJLPRW
0L\DXFKL 0 .DMLRND 6 .RK , .XGXRO< %LRPROHFXOHV
ELRP

6HSWHPEHU GRL
KWWSV GRL RUJ VWRPDWRORJ\

(TXLVHWXP DUYHQVH LQKLELWV DOYHRODU ERQH GHVWUXFWLRQ
LQGXFHG SH6UKLREDR6QWLXWXWKR + 7DNDWD 7QW6KLPLQX5 0L\DFFKL
GRL H&ROOHFWLRQ

5HODWLRQVKLS EHWZHHQ SHULRGRQWLWLV DQG DWULDO ILEURV
OHIW DWULDO0L\DXFKL6HQG-HW/KL + 2XKDUD . 7RNX\DPD 7 2NXER <
0L\DPRWR 6 2JXUL 1 8RWDQL < 7DNDVDNL 7 .DWD\DPD .)XUXV
+L\DPD 7 1DNDQR < -$&& &OLQ (OHFWURRSLK\VLRO -DQ
M MDFHS (SXE 2FW

Importance of anti-FHQWURPHUH DQWLERGLHV LQ WKH GLDJQRVLV RI 6M|J
Sugimoto T, Ogawa I, Miyauchi M, Hirata S, Sugiyama E: J Oral Sci. 2022 Oct 1;64(4):324-326.
doi: 10.2334/josnusd.22-0231. Epub 2022 Sep 12.

S VWDWXV PRGLILHV F\WRWR[LF DFWLYLW\ RI ODFWRIHUULQ XQ
)XND]DZD 7 0L\DXFKL 0 +LURKDVKL 1 7DQLPRWR .)URQW 3KDU
ISKDU H&ROOHFWLRQ

,QWHJUDWHQWLQ1F DOWHUDWLRQV DQG WKH +LSSR SDWKZD\ LQ KHD
IXWXUH SUHFLSLQ6HQ 2PHDGPLRFKQWDQLP6RWLRQ6K6*XWNLQG
.DML0\D- 3HUV 0HG 6HS GRL MSP

Imipramine prevents *Porphyromonas gingivalis* lipopolysaccharide-induced microglial neurotoxicity: Yamawaki Y, So S, Oue K, Asano S, Furusho H, Miyauchi M, Tanimoto K, Kanematsu T: Biochem Biophys Res Commun. 2022 Dec 17;634:92-99. doi: 10.1016/j.bbrc.2022.09.109.

Effects of baicalin on the proliferation and expression of OPG and RANKL in human cementoblast-lineage cells: Kunimatsu R, Kimura A, Sakata S, Tsuka Y, Yoshimi Y, Abe T, Kado I, Yashima Y, Izumino J, Nakatani A, Kitagawa M, Miyauchi M, Takata T, Tanimoto K: J Dent Sci. 2022 Jan;17(1):162-169. doi: 10.1016/j.jds.2021.05.009.

Some tips on age estimation using DNA methylation in saliva samples as an index across the Japanese and Indonesian ethnicities: Oka H, Dwi Ariani M, Akazaki T, Miyauchi M, Kitagawa M. Leg Med (Tokyo). 2022 May;56:102042. doi: 10.1016/j.legalmed.2022.102042.

Periapical lesion following Cnm-positive Streptococcus mutans pulp infection worsens cerebral hemorrhage onset in an SHRSP rat model: Taniguchi Y, Ouhara K, Kitagawa M, Akutagawa K, Kawada-Matsuo M, Tamura T, Zhai R, Hamamoto Y, Kajiya M, Matsuda S, Maruyama H, Komatsuzawa H, Shiba H, Mizuno N. Clin Exp Immunol. 2022 Dec 31;210(3):321-330. doi: 10.1093/cei/uxac094.

0HGLFDO 7HFKQRORJ\

口　　歯　　歯肉

,PSDFW RI PDWHUQDO LQIHFWLRQ RQ EUDLQ GHYHORSPHQW
0L\DXFKL 0 ,$'5 $35 *HQHUDO 6HVVLRQ ([KLELWLRQ :HE

&25 WUHDWPHQW SUHYHQWV SUHWHUP
)XUXVKR + 0L\DXFKL 0 $35 *HQHUDO 6HVVLRQ ([KLELWLRQ :HE

5HQQ 7<

7KH LQKLELWRU\ HIIHFWV RI JLQJLSDLQ LQKLELWRU ; RQ SUHWHU
RGRQWRJHQLF LQIHFWLRQ LQ 1RQ+XPDQ 6 6XHQDND 6 1DNDML
73)XUXVKR + 0L\DXFKL 0

$;/ DFWLYDWHV <$3 DQG FRQIHUV UHVLVWDQFH WR (*)5 LQKLEL
2NDPRWR . $QGR 7 .DML\D 0 <DQDPRWR 6 0L\DXFKL 0

/36

Porphyromonas gingivalis
Renn Ting Yi 64 ( ),
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$;/ <$3 (*)5
132

$;/ +LSSR

$;/ <$3 (*)5

:HE

:HE

:HE

-\XYHSVLDPPRPD W\SH RVVLI\LQJ ILEURPD DQG FRPSOH[RG
6WDUHJE HU V\QGURPH

$0(' $

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FQP

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FQP

&RUWH[\PH &R

JADR/GC 70 JADR

1JX\HQ +XX +DQK 7LHQ

3DWHQWV

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1:

2:

1: &RPSOHWH VHTXHQFHV RI EDFWHULDORGFLWQKSHOLDVDPQGVLERDIWHULDO
0DWVXR 0L7UJDXYHQ -XQ]R +LVDWVXQH 0RWR\XNL 6XJDL +LWRV
$QQXDO 0HHWLQJ RI -DSDQHVH 6RFLHW\ IRU %DFWHULRORJ\ 7RN
2: &ODVVLILFDWLRQ DQG FKDUDFWHULVWLFVRIEJDWRVULRQLQRI EDFWHULRFLQ LP
1JX\HQD /H 0LNL 0DWVXR +LWRVKL .RPDWVX]DZD 7KH WK $QQ
IRU %DFWHULRORJ\ 7RN\R
3: *HQHWLF DQDOVLVRGXFLQJEDFWHULD LQ +LURVKLPD 3UHIHFWXUH
0LNL 0DWVXR 7UL1JHQ/H \HQWRVKL .RPDWVX]DZD 7KH WK $QQXDO
6RFLHW\ RI &KHPRWKHUDS\ *LIX
4: 5HVLVWDQFH PHFKDQLVP RI FDULRJHQWR EDFWHULD LQ SURGXFHG
1DNLDRNDG 0LNL 0DWVXRUD0L/H1JX\HQWRVKL
.RPDWVX]DZD 7KH WK $QQXDO 0HHWLQJ RI -DSDQHVH $VVRFLDW
5: 6XVFHSWLELOLW\ RI GLVLQIHUHWDQWDDDWDQHWDDDPW EDHSWHDORDSRURQ
RUDO FDYLWD $XV.DZD0DVXR<RVKLNDZD 0LQHND 7DNHXFKL 0DK
7UD /H 7VXJD .D]XKLUR .RPDWVX]DZD +LWRVKL 7KH WK $QQXD
2UDO %LRORJ\ 7RNXVKLPD
6: 7HPSHUDWHWSXHQGHQW K\SHUPXFRVLEVRVLWDWLRQ JHQURXFWXUH R
0L 1JX7UHQ /H 6KL]XR .D\DPD .HOO\ / :\UHV /LDQVKHQJ
0DVDWR 6X]XNL .RML <DKDUD 7VXQHNR 7HUDFKL .DQD 6DZD
.XQLKLNR .RKDPD .DWWKVUX\QL[XWRDQL 7+LURNL 2KJH 0RWR\XNL 6X
0HHWLQJ RQ 0LFURELDO (SLGHPLRORJLFDO 0DUNHUV ,00(0 ;;;;
7: ,GHQWLILFDWLRQ RI EDFWHULRFLQ 3HSWLGH[RFLQ GHWHUPLQDWLRQ RI UHV
PHFKDQLQVP <XMLQ 6X]XNL 0LNL 07DWDVXR +LW1RJVKHQ
.RPDWVX]DZD 7KH WK 0HHWLQJ RI WKH&KDSWHUV6RFLHWDQFKRU
2ND\DPD
8: *HQHWLF DQDOVLVRGXFLQJEDFWHULDWXLQH+LQRVKLPRPRUHIHFZD\DQ
0LNL 0DWVXR 7UL1JHQ/H \HQWRVKL .RPDWVX]DZD 7KH WK 0HHWLQJ
IRU %DFWHULRORJ\ 7RN\R1RNX %UDQFK 2ND\DPD
9: 6XVFHSWLELOLW\ RI GLVLQIHUHWDQWDDDWDQHWDDDPW EDHSWHDORDSRURQ
RUDO FDYLWDWHURPHDORQH IDFLOLW\ UHVLGHQWVDDN+LU<RWKRSNDZD
0LQHND 7DNHXFKL 07DUR/H7VXJX1DQD]XKLUR .RPDWVX]DZD +LWRV
-DSDQ ,QWHUQDWLRQDO6RFLHW\RI2UDO0LFURE
10: 'LIIHUHQW DPLQR DFLG VHTXHQFH IRU &SU$%& DIIHFWV QLVLQ $
LVRODWHV 1RUDNDL ,GH7UDN/H 0EWUXRR 01LVKX\HQRUD\XNL .DZDJ
.RPDWVX]DZD 7K+DSDWKU,QRDWWHDQDO 6\PSRVLXP RQ 0LFURELRORJ\
11: 1RYHO FDQGLGDWHV RI DQWLPLFURELDO SHSWLGHV $03V DJDL
056$ DJDLQVW $03V 0LNL 7DDVVKR +DWRVKL.RPDWVX]DZD 7KH
-DSDQ ,QWHUQDWLRQDO0LFURELRORJ\ .RUHD

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/H 1JX\HQ 7UDLQLQJ &HQWHU 6FLHQFH &XOWXUH (GXFDWLRQ &X
6SRUWV 6FLHQFHV DQG 7HFKQRORJ\ UHSDUWPHQW DWLRQDO SHUVRQ
K\SHUPXFRYLVFRVLWLHVLQVWDQEDSHQHPUDQW 1R .

10: $VDQR 6 0DHWDQL < $JR < .DQHUPHDOWDWXHG 3DWRVDSKWRO EDOO+ L&Q
HQKDQFHPHQW GUXJ GHG DSRSWRWLF FHOO GHDWK

11: <DPDZDNL < 6R + 2XH . $VDQR 6)XUXVKR + 0L\DXFKL 0 7DQLP
SUHYHQWV OLSRSRO\VDFFKDULGH UHGXFHG LPPXQRJOREXOLQ QHXURWR[LF

12: 6DNDPRWR . $VDQR 6 $JR < +LURNDZD 7 $OSKD)ROG YHUVLRQ
EHWZHHQ 9,35 DQG6UHQG6DEORVQG í&&\W IRUPDWLRQ RI IXQFWLF
VLJQLILFDQFH IRU 9,35

1: 6DWRVKL $VDQR 0LVD <DPDVDNDP.RWR $WVXVKLQRRWDQRX
1DND]DZD +LWRVKL +DVKLPRWR -DPHV $:DVFKN <XNLR $JR
EUHDVW FDQFHU FHOO PLJUDWLRQ 93$& ,6%$3 -RLQW V\P
,QWHUQDWLRQDO 63RFLHWLGHRUDQGRWKLYW ,QWHUQDWLRQDO 6
DQG 5HODWHG 3HSWLGH1RYHOVEHNU 2FWREHU
2: $PL 2QR 'DLFKL .RDQ 6DWRVKL $VDQR 7DWVXQRUL 0L\DND
1DNDJDZD $WVXNRQR\DWDQDEH$XL1DNDR]DZD +LWRVKL +DVK
$:DVFKN <XNLRVS$JHFLLHXRRQUH[SUHVVLRQ RI KXPDQ 93$& UH
FRJQLWLYH G\VIXQFWLRQ 93$& ,6%$3 -RLQW V\PSRVLXP RI V
6RFLHW\ IRUH%LRLGHWLYHQG3 WKH WK ,QWHUQDWLRQDO 6\PSRVLX
3HSWLGHV 2VDN1RY2HPEHU
3: .RKHL .LWDJDZD 0DVD\XNL %DED 7RPR\D 7DNHPRWR .D]XNL 1D
7DNXPD 5\RWD +DVKLPRWR +RLW$RKL7DNDVXRE2RW1RNDZD ,PS
QHXURGHYHORSPHQWL YLQGL3QHXFHDO VWHP FHOOV IURP SV\FKLD
PLFURGXSOLFDWLRQ 93$& ,6%$3 -RLQW V\PSRVLXP RI WKH
6RFLHW\ IRU %LRDFWLYHWK3HQWHGHVWDQGQDWK 6\PSRVLXP RQ 9,3
3HSWLGHV 2VDN1RY2HPEHU
4: 5HL <RNR\DPD <XNLR $JR $WVXVKL .DVDL 0DVDWR 7DQXPD 0L
0RPRNR +LJXFKL +LVDWR ,JDUDVKL .DZDNDQ6HEXUL1DLND6KXQ <DPD
+DVKLPRWR +LWRVKL +DVKLPRWR $JUDQXODU LQVXODU FRUW
DUNHWDPLQH 7KH VW $QQXDO 0HHWLQJ RI WKH 6RFLHW\ IRU
'LHJR 86$ 1RYHPEHU
5: .RKHLWDJDZD 0DVD\XNL %DED 7RPR\D 7DNHPRWR 0DVDWR 7DQ
<DPDJXFKL <XNLR $JR .DUX76HNLDUHNL.D]XKLUR 7DNDNXWD $WVX
+LWRVKL +DVKLPRWR 7DNDQREX 1DND]DZD ,QWUDQDVDO R[\W
FRQWULQG6WFHG QHXUDO 4DFW5YPLXWLDQWDP3R2*¥H PRGHO RI DXWLVP V
7KH VW $QQXDO 0HHWLQJ RI WKH 6RFLHW\ IRU 1HXURVFLHQFH
1RYHPEHU
6: <XNLR $JR 5HL <RNR\DPDDVDWRX7RKQ.DPDL0LVX]X +D\DVKLGD <X

0RPRNR +LJXFKL +LVDWR ,JDUDVKL .DRUX 6HLULNL 6KXQ <DP
+DVKLPRWR +LWRVKL +DVKLPRWR $FWLYDWLRQ RI WKH URVWU
DQWLGHSUHVVDQW DFWLYLWLHV 7KH VW $QQXDO 0HHWLQJ R
1HXURSV\FKRSKDUPDFRORJ\ $&13 'HFHPEHU
7: +LWRVKL +DVKLPRWR 0LVDNL 1LX 0DVDWR 7DQXPD .DRUX 6HLUL
.DVDL &OLQLFDO DQG [HQRJUDSKLF VWXGLHV RQ VHUR
0HHWLQJ RI WKH $PHULFDQ &ROOHJH RI 1HXURSV\FKRSKDUPDFR

1: :DVFKHN -DPHV 9,35

2: :DVFKHN -DPHV
9,3 93$& 3, .

3: 6DPQDQJ 6XQ $EDZD $EUDU

4: +0*%

5: $6'

6: (*&0

7:

8:

9: 6DWRVKL $VDQR 0LVD <DPDVDND .DLUL 2]DVD -DPHV :DVFKH
QHXURSHSWLGH UHFHSWRU 9,35 VLJQDOLQJ LQ WXPRU FHOO PLJ

10: (LML ,PDGR 6XQ 6DPQDQJ $EGXOQDRL]DD]$KEDZD 7DWVXR
<XNLR $JR $EQRUPDO SDLQ VHQVLWLYLW\ DVVRFLDWHG ZLWK
YDOSURLQGXFHG PRXVH PRGHO RI DXWLVP

11: 6DPQDQJ 6XQ
1HXUR

12: 6DPQDQJ 6XQ (LML ,PDGR 7UDQ 1JRF %DR +X1QKDV<RNL
1RULPLWVX 0RUX[RNDFKR6DWRVKL $VDQR <XNLR $JR 3RVVLEOH
LQKLELWLRQ LQ WDFWLOH K\SHUVHQVLWLYLW\ LQ D PRXVH PRGH

13: 9,35 3, .

14:

15:

16:

%3&131333

17: 6XQ 6DPQDQJ +X\QK 1JRF %DR 7UDQ

18:

7539 $0*

19: 3/& 35,3 3+ GRPDLQ

20:

1:

2: % *3&5 9,35

3: <XNLR $JR .RWDUR 6DNDPRWR 6DWRVKL 6DWDQL .DQWDJRQLVW W
WKH WUHDWR RSHUDWLRQ RI 9LF& ,6%$3 -RLQW V\PSRVLXP RI WK
,QWHUQDWLRQDO 6RFLHW\ IRU %LRDFWLYH 3HSWLGHV DQG WKH
DQG 5HODWHG 3HSWLGHV 2VDND 1RYHPEHU

4:

5:

1: $0('

$ $

2:

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3: %

+

4: %

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0RRWKD $UFKDQD

(UGD .DULQD

<XVWLVLD <HQQ\ $UGKL\HQQR\

1:
2:
3:

1: , *RHO 0 1RLUL < <DP[illegible] .DWR PXUD (QKDQFHPHQW R
LQWHUDFWLRQ EHWZHHQ XVHU SURJHQLWRU FHOOV DQG DFWL
VXUIDFH PRGLILFDWLRQ ZLWK IXQFWLRQDO ROLJRSHSWLGHV %L
2: + .LPXUD +. 7VXUXLDWD , +LUDWD) 1LVKLR + $EH[illegible] / 'RL
JURRYH WUHDWPHQW FDQ LPSURYH WKH VKHDU ERQG VWUHQJW
FHPHQW ZLWK DQ DGKHVLYH V±VWHP 'HQW 0DWHU -

1: 7 2JDVD.ZDDWR SKRDOLHG F\WRPHWU\ XVLQJ DQWLERG\ PLFURDUUD\
6RF ±
2: $ 1DNDQR . .DWR 5HFRPELQDQW SURWHLQ V\QWKHVLV IRU QD
%XOO 6RF 1DQR 6FL 7HFKQRO

1:

2: . .DWR %LRHQJLQHHULQJ FKDOOHQJHV LQ UHJHQHUDWLYH PH
%LRPHGLFDO (QJLQHHULQJ $NLKLUR 0L\DXFKL <XML 0L\DKDUD
6LQJDSRUH LQ SUHVV
3: $ 1DNDQR . .DWR 5HJHQHUDWLYH QDQRWHFKQRORJ\ (QJLQHH
1DQRPHGLFLQH 1LQJ *X HG 6SULQJHU 6LQJDSRUH)LUVW RQ

1: . .DWR &KSQQ DFDGHPLF HQJLQHHULQJ %XOO -DSDQ &KLQD 0

2: :HEVLWH KWWSKX ZL[RVDWHGRWRUVKLD 8QLYHUVLW\ UHDP
+HDOWKFDUH LQ D *OREDO 3HUVSHFWLYH

1: $ 0RRWKD . .DWR 6XUIDFH LIRRUSEUDQWLQRJQRVWLF3HUIRUPDQFH DV
LQWHUIDFH ,'0& 1RYHPEHU

1: . .DWR +LURVKLPD 8QLYHUVLW\ 6FKRRO RI 'HQWLVWU\ +LVWR
&RUH 3URJUDPV LQ %LRFKHPLVWU\ 3ODTXH &RQWURO
2: 7 2JDVDZDUD . .DWR 4XDQWLWDWLYH FHOO VXEVHW DQDO\V
'HFHPEHU 7RNXVKLPD
3: . .DWR ,QWURGXFWLRQ WR 0ROHFXODU %LRORJ\ 3URJUDP DW)DFXO
%UDZLMD\D 0DODQJ ,QGRQHVLD 1RYHPEHU 2QOLQH
4: . .DWR %LRHQJLQHHULQJ DQG %LRWHFKQRORJ\ )D
8QLYHUVLWDV %UDZLMD\D 0DODQJ ,QGRQHVLD 2QOLQH
5: . .DWR %LRHQJLQHHULQJ DQG %LRWHFKQRORJ\ )D
8QLYHUVLWDV %UDZLMD\D 0DODQJ ,QGRQHVLD 'HFHPEHU

1: %
..
2: &
6WHPQHVV .
3: 0RRWKD $UDFKDQDQ $UFKDQD RI
SDUDFHOOXODU VXUIDFH RQ LPSODQW
DQ HSLWKHOLDO VHDO
4: .
5: %
..
6: & 6WHPQHVV
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7: &
.
8: % L36
+
9: &
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10: 3((. &
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11: &
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12: -67
6)

1: 'H[DPHWKDVRQH UHVHWV VWDEOH6DVF RQEHRWLWQQRW QLKWKHU UD6QQM
(07 WR SDUW2NDXG(067 <DPDNDGR 1 +LJDVKLNDZD . 8HWVXNL 5 ,V
6 0L]XWD . .DPDWD 1 %7LRE.KXHPH %LRSK\V 5HSRL
M EEUHS H&R300'HFWLRQ -XO

2: Oral administration of bovine lactoferrin suppresses the progression of rheumatoid arthritis in an SKG mouse model Yanagisawa S., Nagasaki K., Chea C., Ando T., Ayuningtyas N. F., Inubushi T., Ishikado A., Imanaka H., Sugiyama E., Takahashi I., Miyauchi M., Takata T. PLOS ONE 17(2) e0263254-e0263254.

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1: &DQFHOODUDWLRQ RI FRQVXOWDWLRQ UHSODFHPHQW IURP FDOFLQRVLV SDWLHQW H[WHUQDO URRW UHVRUSWLRQ
0HPLGD 7 0DWVXGD 6 1DNDPRWR 7 2XKDUDDNLPDWLRD100H[WUDRUGLQDU\
1
%RQH 5HS -DQXDU\
2: &\WRNLQHV UHJXODWH VWHPQHVV RI PHVHQFKLPDO SWHPRGRQWDO
UHJHQHUDWLRQ
,ZDWD 7 0L]XQR 1 1DJDKDUD (7.DMLQDGD 6DVDNL 6 7DNHGD . .L
)XMLWD 7 .XULKDUD +
- 3HULRGRQWRO\ )HEUXD
3: &RPSUHKHQVLYH FKDUDFWHULVWLFV RI 6WU
.DWVXPDWD 7UDJXHQ.DZDGR 0 7DQLJXFKL < 2XKDUD .
2RJDL1DNDWD 0 0L]XQR 1 1LVKLWDQL < .RPDWVX]DZD +
0LFURELRORJ\ 0DUFK
4: ;HQRWUDQVSODQWDWLRQ RI FU\RSUHVHUYHG KXPDQ FOXPSV RI
FRPSOH[HV SUHWUHDWHG ZLWK ,) DOYDULDO ERQH UHJHQHUDWLR
2JDZD 7 .DML\D 0 +RULNRVKL 60R<RVKLND 6 <RVKLPRWR 6

6RQH + ,ZDWD 7 2XKDUD . 0DWVXGD 6 0L]XQR 1
5HJHQ 7KHU $SULO

5: 0DWKLFDWRU\ GVWULEXWLRQ LQ SDWLHQW ZDLWLQJ WLPHV LQ GLDEHWLF QHXU
+DPDPRWR < 2XKDUD . 0L\DJDZD 7DNDKLUR 0DWVXGD 6XJLPRWR 6 ,ZDWD 7 2KQR + <RQHGD 0 0L]XQR 1 .XULKDUD +
3/R6 2QH -XQH H

6: ,QGXFWLRQ RI IXQFWLRQDO UHPRGXODU L36&V YLD D QHXUDO FUHV
.DPL\D ' 7DNHQDJDZD 1 6RUDNL 0 $NDERVKL 7 =KDR & 6KLED
7R\RRND < 6DNXUDL + .XULKDUD + ,NH\D 0
13- 5HJHQHUDWLYH 0HGLFLQH 6HSWHPEHU

7: &OXPSV RI PHVHQFK\PDO VWHP FHOOV H[WUDFHOOXODU PDWUL[
SHUROQWDO WLVVXH LQ D UDW SHULRGRQWDO GHIHFW PRGHO
6RQH + .DML\D 0 7DNHGD . 6DVDNL 6 +RULNRVKL 6 0RWRLNH 6
<RVKLL + <RVKLQR 0 ,ZDWD 7 2XKDUD . 0DWVXGD 6 0L]XQR 1
- 7LVVXH (QJ 5HJHQ 0HG 2FWREHU

8: 5HJXODWRU\ RI HQHVV GLQUHYHG PDVHQFK\PDO VWHP FHOOV YLD
DQG FXOWXUHG ZLWK KXPDQ JLQJLYDO ILEUREODVWV DQG SHULR
,ZDWD 7 „NDQHGD 7DNDKDVKL . 7DNHGD . 1DJDKDUD 7RNDML\D 0
0 0DWVXGD 6 2XKDUD .)XMLWD 7 .XULKDUD + 0L]XQR 1
- 3HULRGRQWDO 5HV 1RYHPEHU (SXE

9: 7KH /LSRSRO\VDFFKDULGH ,V DQ 8QHQGRWR[LF 7RRO IRU 'HWHFWLQJ /36
5KHXPDWRG 6\QRYLDO &HOO &XOWXUHV
.KQR + 2XKDUD 6 0RWRNXQDJD 7 6XJLPRWR 7 :DWDQDEH + ,VKL
<RVKLGD < 0L]XQR 1 2]DZD 7 .DZDWDND 0 +LUDWD 6 .LVKL + 6
1RYHPEHU

10: 3HULDSLFDO OHVLRQV RI YLUXOHQW &RFFXV PXWDQV EUDOS LQ
KHPRUUKDJH RQVHW LQ DQ 6+563 UDW PRGHO
7DQLJXFKL 2KKDUD . .LWDJDZD 0 $NXWDWVXER 0 7DZDUDGD 7 =KDL
+DPDPRWR < .DML\D 0 0DWVXGD 6 0DUX\DPD + .RPDWVX]DZD +
&OLQLFDO DQG ([SHULPHQWDO 3HULRGRQWRORJ\

11: $QWLIODPPDWRU\ (IIHFWV RI *HQLSRVLGLF$GG*XLGHG3HUURUHVWRUDWLRQ
0LFH
7DPXUD 7 =KDL 5 7DNHPXUD 7 2XKDUD . 7DQLJXFKL < +DPDPRW
6 0XQHQDJD 6)XMLWD 7 DQG 0L]
%LRPHGLFLQHV 'HFHPEHU

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,PSDFWDQRLPXP WRQJXH SUHVVXUH LQ SDWLHQWV ZLWK MDZ GHIR
VXUJHU\ .RL]XPL . 6KLQWDQL 7 <RVKLPL < +LJDNL 0 .XQLPDWV
. 6KLED WDZRUL6 'LDJQRVLWFV
,GHQWLILFDWLRQ RI D &RZGHQ V\QGURPH SDWLHQW ZLWK D QRYH
GHULYHG LQGXFHG SOXULSRWHQW VWHP FHOOV 2ED\DVKL) +D
2NDPRWR 7 &HQO9L'WYUR%LRO $QLP
1LYROXPDE PRQRWKHUDS\ DIWHU LQGXFWLRQ FKHPRWKHUDS\ EL
OHDGLQJ WR FRPSOHWH UHPLVVLRQ RI ORFRUHJLRQDO DGYDQF
+DPDQD 7 0LVKL5PD7RUDWQL 6 2NDPRWR 7 2UDO 6FL ,QW
$ FDVH RI OLFKHQRLG RUDO PXFRVLWLV DVVRFLDWHG ZLWK QLY
2NDPRWR . 7RUDWDQL 6 2NDPRWR 7 2UDO 6FL ,QW
(IIHFWVRQJXH SUHVVXUHOXEULFDQWEORFNG YROXPH G\QDPLFV
VSHFWURSFRS\ VWXG\ 0L\DWD + 7DQL 5 7RUDWDQL 6 2NDPRWR
7ZR FDVHV RI WHPSRURPDQGLEXODU V\QRYLDOQHKRXGDWRQV
)XNXWDQL 7 7RUDWDQL 6 .DQGD 7 0DWVXL . <DPDVDNL 6 6XPL
5HV 3XEOLF +HDOWK
6LPXOWDQHRXV GHIHFW UHFRQVWUXFWLRQ RI WKH DQWHULRU RVLQHRXV EHUR PDQG LQGLH XVLQJ WKH EXFFDO IDW IODS DQG VXEPHQWDO LVODQG
)XMLWD < 7RUDWDQL 6 - 'HQW 6FL
,GHQWLILFDWLRQ RI D IDPLOLDO FOHLGRFUDQLDO G\VSODVLD ZL
RISDWGHQWLYHG LQGXFHG SOXULSRWHQW VWHP FHOOV +DPDGD
2ED\DVKL) <DPDVDNL 6 .DQGD 7 .RL]XPL . 7RUDWDQL 6 2NDPR
9(*)$ SURPRWHV WKH PRWLOLW\ RI KXPDQ 9(*) 5 E\ HOHYDWLQJ LQWUDFHOOXODU

SDWKZD\ .RL]XPL . 6KLQWDQL 6 +DPDGD $ +LJDNL 0 <RVKLR
2NDPRWR 7 ,Q 9LWUR &HOO 'HY %LRO $QLP

10: $ UDUH FDVH RI SOHRPRUSKLF DGHQRPD RE DLDLVQDW LQ DPDW DWKLH6\
,WR 1 7RUDWDQL 6 - 2UDO 0D[LOORIDF 6XUJ 0HG 3DWKRO

11: (YDOXDWLRQ RI RUDO PXFRVDO OHVLRQV XVLQJ WKH ,OOXPL6
'LVWLQJXLVKLQJ VTXDPRXV FHOO FDUFLQRPD+DVDJXKFLK6 <(E7RVUKDLW
+DPDGD $,WR 1 2ED\DVKL) .LPXUD 1 <DQDPRWR 6 ,QW - (QYL

12: 7UHDWPHQW DQG SURJQRVLV RI RUDO FDQFHU SDWLHQWV ZLW
PXOWLFHQWULF\HWHUDWRDVO\VLV 6DNDPRWR < 2VXX 0 +DVHJDZD
+ 2NXU 0 <DPDNDZD 1 .LULWD 7 <DQDPRWR 6 8PHGD 0 .RML
+HDOWK

13: :KROH EORRG WUDQVFULSWRPH SURILOLQJ RI OLQJEQHGWZDPRXUNLVHV DQG HQH
FKDUDFWHULVWLF RI WKH UDUH W\SH RI RSWHRP\HOLWLV <DKD
6DNDPRWR + $VDND 7 .LWDJDZD < 0RULGHUD . 1RJXFKL . 6XJ
%LRFKHP %LRSK\V 5HS

14: 3URWRFRO IRU D PXOWLFHQWUH SURVSHFWLYH REVHUYDWLRQD
QRQGHJDWLYH RUDO WRQJXH VTXDPRXV FHOO<DQDPDPRWR 0 ,QRPDWD 7 1DND\DPD + 1RPXUD 7 <DPDVDNL D7XV<DNPDZDPXUD
<DPDNDZD 1 +DVHJDZD 2 8HGD 0 .LWDJDZD < +LUDNL $ +DVH
$VRGD 6 .RED\DVKL 7 ,LQR .DQQXGD.DZD,JXFKLKLDVK$LMLPD 5 1R
2NXUD 0 7DQDND $ 6XJLXUD 7<DGKDLVQKLDUQL0< 2VDL<KDULDD]DNL $
$ .DZDPDWD + +LURVKL , 8FKLGD . 8PHGD 0 .XULWD + .LUW

15: $ SUHOLPLQDU\ FOLQLFDO VWXG\ RI VHJUHHQDWHGGRVQGHEXOHFRVR
MDZ 2WVXUX 0 6RXWRPH 6 +D\DVKLGD 6 5RNXWDQGD 6 <DQDPRWR 6

16: ,PDJLQJ ILQGLQJV DQG WUHDWPHQW RXWFRPHVWGRVDWHRQHHFXEW
MDZ 2WVXUX 0 6RXWRPH 6 +D\DVK7LGNDJL <DQXPRWR86PH6GDVDNL
%RQH 0LQHU 0HWDE

17: /RQJWHUP LPPXQRVXSSUHVVLYH WKHUDS\ IRU OHDGV WR SRRU RX
FDUFLQRPD 1DUXVH 7 <DQDPRWR 6 2WVXUX 0 2NX\DPD . 0RU
2UDO 0D[LOORIDF 6XUJ 0HG 3DWKRO

18: (IIHFWV RI VOHHS SRVLWLRQ RQ WKH WUHDWPHQW UHVRQVH F
$NDKRVKL 5 <DQDPRWR 6 6DNDPRWR < 1DUXVH 7 +D\DVKLGD 6
&UDQLR

19: 3UHYDOHQFHURDDDWHXGQEGYHUWWPHYHQWLVFDEGIRQWRZLQJ LPPXQH
LQKLELWRU WKHUDS\ LQ -DSDQHVH SDWLHQWV ZLWK YDULRXV VR
0 +D\HV &1 $LNDWD + D2WDDR<RWRD:GDLO\ +DWWRUL 1 6XJL\DPD
7RUDWDQL 6 7DNHFKL 0 ,FKLQRKH 7 8HGD 7 7DNHQR 6 .RED\D
1DJDWD < .XGR < ,GD . &KD\DPD . %0& &DQFHU

20: $QDOJEHDVLHG VHGDWLRQLQRSDRWLDQWVWXUZLHWUK FKURQLF UHSLUDW
7DNDKDVKL 7 <RVKLGD 0 2QR 6 .DQGD 7 2ED\DVKL) .DPLR +
6KLPL]X < - &UDQLRIDF 6XUJ H

21:)LUVW LVRODWLRQHRLVWDQFRPHEQWKURFDUFLQXRUDQHDYDQG
+LVDWXQH - 7DQLPRWR . .KDUD 7 0\RNHQ < 7RPLWD < 6XJD
H

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2: ,QWHJUDWLQJ *HQHWLF $OWHUDWLRQV DQG WKH +LSSR 3DWKZD\ IRU)XWXUH 0HGLFLQH DQG 7 2NDPRWR . 6KLQWDQL 7 <DQDPR -6 .DML\D 0 - 3HUV 0HG
3: 70(0 $ DV D 3RWHQWLDO 7UHDWPHQW 7DUJHW IRU +HDG DQG 1H 6 - ([S &OLQ &DQFHU 5HV

31: 0 X OLWQLV W L W X W L R Q D O HUU HVHQ D DSKQR I <RDQQDCP RWQRF6 8 P H G D 0 . X U L W
< 2 N X U D 0 8 H G D 0 + D V H J D Z D 7 < D P D N D Z D 1 . L U L W D 7 , Q W
2 Q F R O R J \& K L F D J R

39: 0XOWLFHQWUH SURSHFWLYH REVHUYDWLRQDO VWXGLHV RQ WKH HFRORJLFDO WRQJXH VTXDPRXV7&HOOXODU&DUFLQRPDV&RQGLWLRQV 8PHGD 0 .XULWD + .LULWD 7 (XURSHDQ0DVWLWRORJ\&RQJUHVV 0DGULG

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8: 'HYHORSPHQWDO WUDLWV RI DFV DQG PDFKLQH OHDUQLQJ PRGHO IRU SUHG
PHWDVWDVLV LQ SDWLHQWV ZLWK WRQJXH FDQFHU .XER . .DZD
,PDQR 1 1LVKLEXFKL , 6DLWR $ .RQLVKL 0 2QDRN6PRWR1 7<RVK
7DNHQR 6 1DJDWD < 2UDO 6XUJ 2UDO 0HG 2UDO 3DWKRO 2UDO 5
9: ,QKLELWLRQ RI DQJLRJHQHVLV DQGDQXLQRWHSQWRQJHQLVLVQ RQ RU
VTXDPRXV FHOO FDUFLQRPD 1DNDJDZD7DKDW6D <DPDUXVH71 6DN
0 6DVDNL . 1LZDWD & 2QR 6 $LNDZD 7 - &DQFHU 5HV &OLQ 2Q
,PPXQH UHVSRQVH WR F\WRVROLF '1$ YLD LQWHUFHOOXODU UHF
ILEUREODVWV 1DUX+VH,7KL2KDW< .6KDJHL VKL + 6DNXPD 0)XNXL
7RELXPH . 1LVKL + 7DNHFKL 0 2UDO 'LV
([SUHVVLRQ RI JDODQLQ UHFHSWRUV LQ RUDO ILEUREODVWV DQGXFWDQLQGXFH
FRQWDLQLQJ SDUWKHQRJHQHWLF6NDGXPD 0.D2WR + 1DUXVH 7 1DNDJDZD
+ 7DNHFKL 0 - $SSO 2UDO 6FL H
(IIHFWV RI &($&$0 LQ RUDOH[SUHVVLRQ RI &DGKHULQV &DWHQLQV DQG &DGKHULQ
6DNXPD 0 2KWD .)XNDGDWR6+$NDKLGD < 1DUXVH 7 7DNHFKL 0
+ $LNDZD 7 - $SSOL 2UDO 6FL
3K\VLFDO 3URSHUWLHV DQG $QWLPLFURELDO $FWLYLWLHV RI &RPSRVLWHV $Q ,Q 9LWUR 6WXG\ 7DNHFKL 0. 7LXQX . ,VKLNDZD .
&KHPLFDO LQKLELWLRQ RI /6' OHDGV WR HSLWKHOLDO WR PHVH
FHOO FDUFLQRPD 2QR 2QDHVYLUXV 6'QGHQW VXSSUHVVLRQ RI =(%
2NXGD 6 7RELXPH . 8HWVXNL 5 2QR 6 0L]XWD . 1DNDJDZD 7
&RPPXQ ,Q SUHVV

5(' V\VWHP

1:

:H E

2:

a :H E

3:

a

4:

0$6'2

a

5: %HFNZLWKH PDQQ 6\QGURPH

a

6: .RVWHFND

a

7:

a

8:

a

9:

a

10:

a

11: S 0$3. 67$7

132

:H E

12:

a :H E

13:

a :H E

14:

a :HE

15: ,QKLELWLRQ RI DQJLRJHQHVLV DQG DQWLPLFURELDO SURSHUWLHV RI VTXDPRXV FHOO FDUFLQRPD 1DNDJDZD 7D26KWDXNDGDUKVHDP6NDNG
1 $NDJL 0 6DVDNL . 1LZDWD & 2QR 6 $LNDZD 7

a :HE

16: $$

a :HE

17: S 0$3. 67$7

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+HQJN\ %RZR $UGKL\DQWF

3((. 3((.

1: 5HODWLRQVKLS EHWZHHQ IRRG FUXVKLQJ DQG RUDO IXQFWLR
<DPDZDNL . 0RUL 7 ,WDNL 6 +DUXWD $ 7DNHGD & +LUDRND $
0 7VXJD SLO$RW VWXG\ ,QWHUQDWLRQDO -RXUQDO RI (QYLURQ

2: 2UDO DQG 5HFWDO &RORQ5HWLRQ QEWJ$QWL2FUDFWLDO DQG
$VVRFLDWLRQ ZLWK 'HDWK 7HPURQ&5HVSHQRWLSHQRWLRQ 0XOWLFH
2EVHUYDWLRQDO &RKRUW 6WXG\ .DMLKDUD 70D<DVKXR . /HRVKL
01 $UDL & 7DNHXFKL 0 .LWDPXUD 1 6XJDZDUD < +LVDWVXQH
.RPDWVX]DZD + 2KJH + 6XJDL 0 *HURQWRORJ\
3: 'LVLQIHFWDQW 6XVFHSWLELOLW\ RI 7KLUG

/H 1JX\HQ 7UD 0L

6XVFHSWLELOLW\ RI GLHWDU\ QXWULWLRQ &HUWLILFDWH 3URJUDPPH
QHJDWLYH EDFWHULD LVRODWHG IURP HRUDO FDQFHU EDY\LWH VRLGHQQV
.DZDGD 0 <RVKLNDZD 0 7DNHXFKLDW V/XLDZD 7VXJKHDSDQP .RUHD
,QWHUQDWLRQDO 6\PSRVLXP RQ 0LFURELRORJ\ <HRVX .RUHD

,PSDFW RI PDWHUQDO 3RUSK\URPRQDV JLQJLYDOLV LQIHFWLRQ
0L\DXFKL 0 ,$'5 $35 *HQHUDO 6HVVLRQ ([KLELWLRQ :(%

5HQQ 7LQJ <L

3((.

3((.

:(%
$ FDVH UHSRUWYRIORXDWRKHDWLQJHQWUDRUDO VFDQQHU <RVKL
+ .DZDJRH 0 7VXJD .
1RYHO PHWKRG RI SUHGLFWDEOH SULPDU\ LPSODQW VWDELOLW\
PHDVXUHPHQW :DNDPDWVXDUR<RE2DWD<NH 5 .XER 7 7VXJD .

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,PSDFW RI PDWHUQDO 3RUSK\URPRQDV JLQJLYDOLV LQIHFW
-$'5 -$'5 *&

3((. 3((.

5HODWLRQVKLS EHWZHHQ IRRG FUXVKLQJ DQG RUDO IXQFWLRQ L
<DPDZDNL . 0RUL 7 ,WDN& 6+L+UDURXWDD$$ 07DDUXHGPD 0 <RVKLNDZD 0
0 7VXJD . $ SLORW VWXG\ ,QWHUQDWLRQDO -RXUQDO RI (QYLUR

2UDO K\SRIXQFWLRQ DQG LWV UHODWLRQVKLS WR RUDO GHVDUF
<RVKLGD 0 +LUDRND $ 7DNHGD & 0RUL 7 0DUX\DPD 0 <RVKLNDZ

([SHULPHQWDO WRRWK ORVV DIIHFWV DVSDUWDWH EHKDYLRUDO HIIHFW
2XH + +DWDNH\DPD 5 ,VKLGD (<RNRL 0 7VXJD . 2UDO 'LV
2QOLQH DKHDG RI SULQW

$QWLPLFURELDO DGKHVLYH SRO\XUHWKDQH JHOV IRU LQGXVWULDO DQG VRPDWR SURVWKHVLV IDVWHQLQJ
1DNDPRUL . $EH < 7DNHXFKL 0 .DJDZD . <RVKLKDUD . <RVKLGD
$YDLODQDEOH -XQH

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$ FDVH UHSRUW RI RUDO KHDOWK HYDVCXDWLRQ LQ 2XHQWU\PRUKD
.DZDJRH 0 7VXJD .
1RYHO PHWKRG RI SUHGLFWDEOH SULPDU\ LPSODQW VWDELOLW\ PHDVXUHPHQW :DNDPDWVX . 'REDWDXEHK 7UD7VXJDNL <

10:

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7KH 3RVVLELOLW\ RI 7LDVDQLXQP,RUR6DWWDOLWHQ\SRVXP RI $G
IRU ,PSODQW 'HQWLVWU\ VHFWLRQ 'RL . ,$'5 $35 *HQHUD
([SHULHQFH &KLQD &KHQJGX DQG :(%
3ODQW FXOWLYDWLRQ SODQ ZLWK WDHQL3RUWHQWLXP VKRSVK
6\PSRVLXP +LURVKLPD
&UHDWLRQ RI WKH QHZ PDVN ZLWK WLWDQLXP PHVK PHPEUDQHV
(GXFDWLRQ 6\PSRVLXP +LURVKLPD

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&OLQLFDO UHSRUWV RQ PDVN FHPHQWLQJ 3((. FURZQ RQ PROD

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$XWRPDWHG VHJPHQWDWLRQ RI DUWLFXODU GLVF RI WKH WHPSR
LPDJHV XVLQJ G,HWHRS6OHDULQHLQJ 7RVKLPL < 7<DXN3HGQJ6 7DQDND
1DNDPRWR 7 1DJDVDNL 7 .DNLPRWR 1HSXUD\DPD 7 7DQLPRW
GRL V Z
,PLSUDPLQH SUHYHQWV 3RUSK\URPRQDV JLQJLYDOLV OLSRSRO\V
QHXURWR[LFLW\ < 6R + 2XH . $VDQR +)XUXVKR + 0L\DX
.DQHPDWVX 7%L%RSRKFKHPV &RPPXQ GRL
M EEUF
&RPSOHWH *HQRPH 6HTXHQFH RIDQG\3DUXRXGRFDWH /DEWHKL+FLVOLQ
5HVLVWDQW 6WDSK\ORFFXV DXUHXV 6HTXHQFH 7\SH 6WDSK
7\SH ,6WUDLQ ,VRODWHG IURP.RXUXRQLFXORVLVWDWXQSD7R\RGD $
<DPDVDNL 2 .DQHNR - 6XJDL 0 0LFURELRORJ\ UHVRXUFH $QQ
GRL PUDGRL V Z
(IIHFWV RU HKTQFK QHDUDUHG GLRGH ODVHU LUUDGLDWLRQ RQ SDLQ
PRYHPHQW1DQDWDVL $ .XQLPDWVX 5 7VXND < 6DNDWD 6 +R
, 3XWUDQWL 1$5 7HUD\DPD 5 7DQLPRWR . /DVHUV 0HG 6FL
V [
5HJHQHUDWLYH 1DQRWHFKQRORJ\ (QJLQHHULQJ &RXUIDFHWR RU 6
1DQRPHGLFLQH GRL RUJ B
0DVWLFDWRU\ )XQFWLRQ $VVHVVPHQW /RSDQXOWDWDDWLHQWVU2U
7UHDWPHQW 6 8HGD + ,ZDL . 0HGLQD && ,VKLGD (.XQLPD
3DODWH &UDQLRF - GRL
'HQWDO DQG RFFOXVDO FKDQJHVHPXQLWLQGHPQLFDWLRQ -DS
ZLWK REVWUXFWLYH VOHHS DSQHD (IIXQVWVIRORZHGLQD &&
0LXUD 6 7VXND < 7DQLPRWR . - FOLQRO0HG MFP
&RPELQDWLRQ WUHDWPHQW DQG VWHP FHOOV IURP KXPDQ GHF
UHJHQHUDWLRQ E\ HQKDQFLQJ %03 9(*) DQG &'3XW[SDQVLRQ L
1$5 5LNLWDNH . +LUDNL 7 1DNDMLPD . $EH 7+ 7VXND < 6D
7DQLPRWR . &HOOV GRL FHOOV
/RQJLWXGLQDO HIIHFWV RI HVWURJHQ RQ PDQGLEXODU JURZWK
SHULRG LXQE RDLWV$ZDGD 7 +LURVH 1 <DQRVKL7DXEORL7(DNDQR 0
.LWD ' ,WR 6 1DNDWDQL $ 2QLVKL $ $VDNDZD < 7DQLPRWR
GRL M \GELR
&RUUHFWLRQ RI VHYHUH VNHOHWDO &ODVV ,, KLJK DQJOH FDVH
E\ GRXEOH MDZ2RVWHRWRP\7 .DX 0 2QR 6 7DNHFKL 0 7DQLPRV
'HQW &ROO GRL WGFSXEOLFDWLRQ
2UWKRGRQWLF WUHDWPHQW IRU D SDWLHQW ZLWK URRW UHVRUS
ELODWHUDOO\ LQ3DQRWKHGWDDQLQHLVURVH 1 2QLVKL $ 1LVKL\DPD
7DQLPRWR . &DVH UHSRUWV LQGHQWLVWU\
(IIHFWV RI EDLFDOLQ RQ WKH SUROLIHUDWLRQ DQG H[SUHVVLRQ
OLQHDJHXQLHPOWVX 5 .LPXUD $ 7VXND < +RUH . <RVKLPL <
6 1DNDWDQL $ .LWDJDZD1DWDLDWDQL7DXFHQLQWRWRL
GRL RUJ M MGV
7KH ,QIOXHQFH RI WKH DFU\OR\O[HWK\O 3KRVSKRU\OFKROLQH 3RO\PHU
)ULFWLRQ DQG $WWDFK.PHQWDPV2UDO 7DXDENDH<ULD6DNPL . <RVKLPL

< .DGR , ,QDGD $ .LULWRVKL < 7DQLPRWR GRL0DWHULDOV
PD
(IIHFWV RI +XPDQ 'HFL GHXURXV GHQWDO3K\VLRORJLFDO6WUHVVRQHGOLWLRQHG
0HGLXP RQ WKH 0H9(&VERZOLWHREO+DVWXQLDQGW%X65&V +LDNL 7
5LNLWDNH . 1DNDMLPD . 3XWUDQWL 1$5 $EH 7 $QGR . 1DN
&HOOV GRL FHOOV
)XQFWLRQDO UHJXODWLRQHRO ORVWEVHRESHDUVDLFHORQ7XJHQ WUHDWPH
,]XPLQR - <DPDPRWR 7 <DVKLPD < 6KLPR 6 7DQLPRWR . $
RI SULQW GRL M DUFKRUDOELR
,PSDFW RI 0D[LPXP 7RQJXH 3UHVVXUH:HLJKW3DWWHUQ8HQGXUDQFH'H
2UWKRJQDWK.LRFL]6XPLJHU\6KLQWDQL 7 <RVKLPL < +LJDNL 0 .XQ
7VXJD . 7DQLPRWR . 6KLED + 7RUDWDGQRL6 'LDJQRVWLFV
GLDJQRVWLFV
&KDUDFWHULVWLFVWLOLFRIIDFWRUEHORQJLQJ00RU[SKRORJ\ LQ 3DWLHQWV ZLWK ,GLR
5HVRUS7DQLPRWR . $ZDGD 7 2QLVKL $ .XER 1 $VDNDZD < .X
&OLQ 0HG GRL MFP
6WXG\ RI $OYHRODU %RQH'HPLQHUDOL]DWLRQ 6WHP &HOOV DQG +\
9DVFXODU (QGRWKHOLDO *URZWK)DFWRU (QKDQFHPHQW DQG ,QI
([SUHVVLRQ6DQNLDYRWL 7 1XJUDKD $3 3UDKDVDQWL & (UQDZD
: .DQDZDDZDPRWR 7)XMLPRWR . &OLQ &RVPHWGRL HVWLJ 'HQ
&&,'(6

(YDOXDWLRQ RI)UFWLRQDO)RUH3H3GXRWWRW%XGDFNHW 6L]H 'LIIH

5HFRPELQDQW SURWHLQ V\QWKHVLV IRU QDQRPDWHULDO DVVHPE

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'HHS /HDUQLQJ 05,

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3XW1U$DQWL

3UHGLFWLRQ RI FHSKDORPHWULF $1% DQJOH RQ ODWHUDO SURIL
QHWZRUN

'HHS /HDUQLQJ 05,

'

6HPDSKRUH

3XWUDQWL 1$5

&\QWKLD &0

&'

3XWUDQWL 1$5

3XWUDQWL 1$5

3XWUDQWL 1$5

&\QWKLD &0

3XW1UDQWL

3XWUDQWL 1$5

&\QWKLD &0

(U <$*

(XURSHFLILF RYHUH[SUHVVLRQ RI KXPDQ 93$& UHFHSWRUV LQ P
&KHQ /
:DVFKHN - $ 7KH WKQDWLRQDO 6\PSRVLXP RQ 9
3$&$3 DQG 5HODWHG 3HSWLGHV 7KH VW ,QWHUQDWLRQDO 6RFLH
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7DQLPRWRWKRGRQWLFV DQG WHPS3RHUPHDFKDELOLW\ GHVRQGUREHU
DQG SRVVLEOH7KHROXWLRQWHUQDWLRQ7UDGLQDF3HGR2UDWKRGRQ

7DLSHL RQOLQH
7DQLPRWUHH.YHQWLYH DQG ,QWHUFHSWLRQ2UWKRGRQWLFV 6&
8QLYHUVLWDV $LUODQJJD 6XUDEDYD RQOLQH
7DQLPRWXRQFWLRQDO -DZ 2UWKRSHGLFV 2QOLQH6HUQHUV6WDV
$LUODQJJD 6XUDEDYD RQOLQH

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9: &DQFHOORXXHEHRQLVXDFHPHQW IURP FDOFLQRVLV LQ SDWLHQW PXOWLSOH H[WHUQDO URRW UHVRUSWLRQ 0HPLGD 7 0DWVXGD 6XJL\DPD (.DNLPRWR 1 0L]XQR 1 %RQH 5HS GRL

10: ,QWUDG LHQDWHLQDWLRQ UHSURGXFLELOLW\ RI 7 PDSSLQJ IRU WH DW 7 :RQJUDWZDQLFK 3 1DJDVDNL 7 6KLPDEXNXUR . .RQLV 7 $NL\DPD < $ZDL . .DNLPRWR 1L6FL 5HSV GR

11: $XWRPDWHG VHJPHQWDWLRQ RI DUWLFXODU GLVF RI WKH WHPS LPDJHV XVLQJ GHHS OHDUQLQJ ,WR 6 0LQH < <RVKLPL < 7DN 1DNDPRWR 7 1DJDVDNL 1L7UDQVDPLP7RPRQLPRWR . 6FL 5HS V Z

12: (YDOXDWLRQ RI DOYHRODU ERQH K\SRPLQHUDOL]DWLRQ LQ RUWKRSDQWRPRJUDSK\ 2NDZD 5 1DNDPRWR 7 0L5HS\RVKL 6 GRL V

13:)RXU FDVHV RI F\WRNLQHYDVFRQDWLRQ &2919, UHSRUW 0XUDWD 1)XNXL 7 .DWVX\D 1)XNXPRWR : 2ND + <RVKLNDZD 1 1DJDR 1 $ZDL RVK<LPRWR . 1DJDR 0)URQWLHUV LQ ,PPXQRORJ\ ILPPX

14: $QDO\VLV RI WKH IHDVLELOLW\ RI XVLQJ GHHS OHDUQLQJ IRU PX SDQRUDPLF UDGLRJUDSKV 2ND8UDNE6 0LQWV<XKZDPRW&R1RPXUD 5 1 0XUD\DPD 7 'HQW 0DWHU - G1RLY GPM

15: 2VWHRSRURVLV VFUHHQLQJ VXSSRUW V\VWHP IURP SDQRUDPLF U QHWZRUN 1DNDPRWDNL7PRYDJXEKLHQW$RPD[LOORIDF 5DGLRO $ GPIU

1: 7DVWHV FKDQJH DIWHU DGPLQLVWHULQJ.RQDVKLW0KH6KLSV'ERXN XURF . :RQJUDWZDQLFK 3 .DNLPRWR 1 7KH WK ISDVLDQ &RQGLWLRQRVJ\RI *LX -DSDQ

3:

5:)LEHURSWLF HQGRVFRSLFDHOOXOLQW PD\ LQFUHDVH SHUVLVWHQFH SDWLHQW 1DJDVDNL 7 <DPDGD 6 <RVKLGD 0 <RVKLN .RQLVKL 0 6XHL < 1DNDPXUD 7WHR 7W.DNDVLEXQR &1QJUHVDFRDO DQ 5DGLRORJ\ *LIX -DSDQ

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11: -XYHQLOH g S1VDPAeuRPoDWRiG+RVVLI\LQJ ILEURPHDEHQG RGRQW V\QGURPH

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1: 7KUHHDU VXUYH\ RI RUDO K\JLHQH FRQGLWLRQV RG &DP E RGLD S
,ZDPRWR < 0LWVXKDWD & 1DLWR 0 .R]DL . -RXUQDO RI 2UDO
2: *UHHQ WHD FDWHFKLQ LQK1HLWG XFHG LQIODPPDWRU\ UHVSRQV
JLQJLYDO HSLWKHOLDO FHOO 5<RV1NDQ6 .1DNDEDY0RWR1RRUQDO
RI 2UDO %LRVFLHQFHV
3: 6LPXOWDQHRXV SUHVHQFHDQG SRVLWLYH LQ WKH RUDO
FDYLW\ LV DVVRFLDWHG ZLWK UHQDOWG\\HIXQFWSRQDO\VHSK
0LVDNL 7 1DND 6 1DJDVDZD < 0DWVXRNDDNDQWR 6 1DNDPXUD
. 1HSKURQ
4: &KDUDFWHUL]DWLRQ RI WKH XQLTXH RUDO PLFURELRPH RI FKLOG
1 +DPDGD 0 1RPXUD 5 .R]DL . 6FLHQWLILF 5HSRUWV
5: 'HWHFWLQJ WKH SUHVHQFH RI VXSHUQXPHUDU\ WHHWK GXULQJ
OHDUQLQJ DOJRULWKPV $ SLORW VWXG\ 0LQH < ,ZDPRWR < 2
7 < 0LWVXKDWD & .DNLPRWR 1 .R]DL . 0XUD\DPD 7 ,QWHUQ

6: $QDO\VLV RI WKH IHDVLELOLW\ RI XVLQJ GHHS OHDUQLQJ IRU PX
SDQRUDPLF UDGLRJUDSKV 0LQH < ,ZDPRWR < 8UDEH 6 0LW
.DNLPRWR 1 0XUD\DPD 7 'HQWDO 0DWHULDOV -RXUQDO
7: &OLQLFDO FKDUDFWHULVWLFV RI FKRURLGDO QYHQG JXDUGLDQV S
VWUDLQV VHFUHWLQJ DO VWXG\ 2VXJX 0 0LNDVD < .LWDPXUD 7
5 1DNDQR . 6FLHQWLILF 5HSRUWV
8: (VWDEOLVKPHQW RI LQGLFDWRU IRU VFUHHQLQJ HFKLQRGHUH
.DKDUD <DUD6DVDK1LL]DWR 1 <DPDQH $ 1LNDZD + <DPDVDNL
(XURSHDQ -RXUQDO RI 3DHGLDWULF 'HQWLVWU\
9: 7KH HIIHFW RI LPSURYLQJ RUDO KHDOWK OLWHUDF\ DPRQJ WHDF

VFKRROLQL&GHUHGLD $VDR < ,ZDPRWR < &KHD & &KKHU 7 (
. (XURSHDQ -RXUQDO RI 3DHGLDWULF 'HQWLVWU\
10: 'LVWULEXWLRQ RI SHULRGRQWRSDWKLF EDFWHULDO VSHFLHV EH
< LVDNL 7 ,WR 6 1DND 6 2NXQDND 0 1DWDQR 0 7DXFKL .
. 2GRQWRORJ\ LQ SUHVV
11: 'HWHFWLRQ RI IURP H[WUDFWHG WHHWK RI D SDWLHQW ZLWK
SXUSXUD +DPDGD 0 1R6XU2JJ5\D 0DW.DVRH\DPD + 8]DZD 1 1DN
0LFURRUJDQLVPV

1:

2: :LOOLDPV

1: 0DQDJHPHQW RI ELVSKRVSKRQDWH-UHODWHG FKURQLF SDUHQWLQQWKH ILHOG R
0LWVXKDWD & .R]DL . -DSDQHVH 'HQWDO 6FLHQFH 5HYLHZ
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1: -636 &RUHSURJUDPFDVLFHSODWIRUPVLQWHUQDWLRQDO
LQWHUQDWLRQDOPHGLFDOHGXFDWLRQDQGIRVWHULQJU
WRVDYH¶FRUDGUHQDOWK

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1: &HQWUDO KLJK PRELOLW\ VXUJLFDO VSHFLDOLVW VRFLHW\ DQG FDO VKSSHDVHQLFLWRLJOLWD\ DFWLYDWLRQ LQ D PRXVH PRGHO RI VHHDLVH 6DWR) 1DNDPXUD +LVDRDNDVKLPD . :DQJ ' /LX . :DNH + 1LVKLERUL 0 0RULRND

2: 5HDOWLPH DVVHVVPHQW RI VXUJLFDO QRZQHOHFWURQLF VWHWKRVFR LQWHOOLJHQFH V\VWHP 6X]XNL . 6KLPL]X < 2KVKLPR 6 2XH . ,ULIXQH 0 6KLPH 1 &OLQ ([S 'HQW 5HV
3: 3HQWREDUELWDO PD\ SURYLGH FDWDUDFW VXUJHRQV WLWK HXXURJHQLYFLDQLQ KLEL UHOHDVH IURP SHULSKHUDO QHUYHV RI UDWV 2QL]XND & ,ULIX <RVKLGD 0 .RFKL 7 ,PDGR (.DQHPDWVX 7 1DNDPXUD < 0RULR /HWW
4: (IIHFWV RI DQWLSV\FKRWLFV RQ LQWUDYHQRXV VHGDWLRQ ZLW WUHDWPHQW IRU SDWLHQWV ZLWK LQWHOOHFWXDO GLVDELOLWL $ 7DNDKDVKL 7 2XH . 0XNDL- $QWUHOXQHFW '2NDEDO<5HV
5: 0LURJDEDOLQ DOOHYLDWHV QRFLFHSWLYH K\SHUVHQVLWLYLW\ SRVWWUDXPDWLF WULJHPLQDO QHXURSDWK\ .RFK1D7ND1DKLPD<
. ,ULIXQH 1D01RU%RKDY %UDLQ 5HV
6: ,QWURFHSWLYH DFFXUDF\ LV UHODWHG WR WKH SV\FKRORJLFDO FURVVHFWLRQDO VWXG\ <RVKLQR $ 2WVXX 1 'RL 0 0DHNDZD 7 +HDOWK
7: 'LIILFXOW LQWXEDWLRQ DQG SRVWRSHUDWLYH DSLUDWLRQ SQ FDVH UHSRUW 2GD $ 2XH . 2GD < 7DJXFKL 6 7DNDKDVKL 7 0 <RVKLGD 0 %0& $QHVWKHVLRO
8: 3UHQDWDO YXOXH WR YDOSURLF DFLG FDXVHG DOORG\QLD DVVRFLDV (6XQ 6 $EDZD $5 7DKDUD 7 .RFKL 7 +X\QK 71% $VDQR 6 +D 1DNDVKLPD . .RWDNH < ,ULIXQH 0 7VXJD1. $7DNDXPDHXURRFKLHPND ,QW

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6DPQDQ$E6DXZD $EUDU

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3: $EQRUPDO SDLQ VHQVLWLYLW\ DVVRFLDWHG ZLWK VSLQDO PLFU
LQGHXFF PRXVH PRGHO LMRU DPXDWLRV P6XQ 6DPQDQJ $EUDU 5L]DO $ED
.D]XKLUR 7VXJD 0DVDKLUR ,ULIXQH <XNLR $JR

4: :DLWLQJ ,V (IIHFWLYH IRU 6PRRWKHG 7RRWKOLWWXXEWR<R\8KLGGHU
6KLJHUR 2QR 7DPD\R 7DNDKDVKL $\D 2GD $NDUL 0XNDL .DQD
6KLPL]X 0DVDKLUR ,ULIXQH ,$'5 /$5 *HQHUDO 6HVVLRQ ([K

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6DPQDQJ 6XQ

6: 3RVVLEOH UROH RI KLVWRQH GHDFHW\ODVH LQKLELWLRQ LQ WDI
VSHFWUXP 6GLRVRDQGHU6XQ (LML ,PDGR 7UDQ 1JXUFD %DR]X+X\QK
+LVDNDNDVKLPD 1RULPLWVX 0RULRND 1RULND]X .LJXFKL 6DWR

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1: Melatonin enhances cisplatin-induced cell death through inhibition of DERL1 in mesenchymal-like CD44high OSCC cells. Shigeishi H, Yokoyama S, Murodumi H, Sakuma M, Fukada S, Okuda S, Yamakado N, Ono S, Takechi M, Ohta K. Journal of Oral Pathology & Medicine, 51(3): 281-289, 2022.

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5: ,PPXQH UHVSRQVH WR F\WRVROLF '1$ YLD LQWHUFHOOXODU UH
DQG ILEUREODVWV 1D+UXVVKLTGD2KWDKLJHDLWR L + 6DNXPD 0)XNX
7 7RELXPH . 1LVKL + 7DNHFKL 0 2UDO 'LVHDVHV

6: 7ZR 3$53 LVRIRUPV DUH DVVRFLDWHG ZLWK LQGXFWLRQ RI D
.DWR + 2KWD . 6DNXPDUXV)HKV7DGG6RLGHLVKL + 1LVKL + 7DNHFK
0HGLFLQH 5HSRUWV

7: 3HULRGRQWDO LQIODPHG VXUIDFH DUHD LQ RUDO FDYLW\ DVVF
ZLWK KHPDWRORJLF PDOLJQDQF\ XQGHUJRLQJUHRRWWRW+HUDS
6KLJHLVKL + 2ED\DVKL 7 <RVKLRND < .RQLVKL 0 0XQHQDJ
)XNXVKLPD 1 .DNLPRWR 1 2KJH + .XULKDUD + ,FKLQRKH 7 .D

8: ([SUHVVLRQ RI DQWL HSHWHUHG V LQRUDO LQLEURODVWV LQGXFHG E\ &
JOXFDQ WDLQLQJ SDUWLFOHV 6DNXPD 0 2KWD .)XNDGD 6 .
6KLJHLVKL + 1LVKL + 7DNHFKL 0 - $SSO 2UDO 6FL H

9: (IIHFWV RI &($&$0 LQ RUDO NHUDWLQRF\WHV DQG 2UDO &DQFHU
SDUWLFOHV 6DNXPD 0 2KWD .)XNDGD 6 $NDJL 0 .DWR + ,VKL

+ 1LVKL + $LNDZD 7 - $SSO 2UDO 6FL H

10: 6XQLWLQLE SURPRWHV DSRSWRVLV YLD S HJX3 DWKRWLYDWRED
NHUDWLQRF\WHV)XNDGD 6 2KWD . 6DNXPD 0 $NDJL 0 .DWR +
1LVKL + 7DNHFKL 0 $LNDZD 7 2UDO 'LV 2QOLQH DKHDG RI

11: ,QKLELWLRQ RI DQJLRJHQHVLV DQGDXLPRWHSUROLIHUDWLRQ RI
VTXDPRXV FHOO FDUFLQRPD 1DNDJDZD 7 2KWD . 1DUXVH 7 6DN
0 6DVDNL . 1LZDWD & 2QR 6 $LNDZD 7 - &DQFHU 5HV &OLQ 2Q
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13: $<$ 7URXVVHDX

+XPDQ 3DSLOORPDYLUXV +39
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1HZV /HWWHU 1R

2: +XPDQ 3DSLOORPDYLUXV 1HZV /HWWHU 1R

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7: 7KH DVVRFLDWLRQ EHWZHHQ SHULRGRQWRSDWKLF EDFWHULD D
SHRSOH 6KL1DNDRXD 0 2ND , <DQR . +DPDGD 1 +6DVDNL 0
.DQH\DVX < 0DHKDUD 7 6XJL\DPD 0 2KWD .

8: &RLQIHFWLRQ RI RUDO &DQGLGD DOELFDQV DQG 3RUSK\URPRQ
SHULRGRQWLDWLHG GLRQGLHGU SHRSOH 2ND , 6KLJHLVKL + 1DNDPXU
< 0DHKDUD 7 2KWD .

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10: $VVRFLDWLRQV EHWZHHQ SDWKRJHQLF VSHFLHV LQ VXEJLQJLYDO SODTXH
< 7DPXUD 7 .DWR < .XER < 2NDGD 5 1DJD\RVKL 0 +LVKLGD $
1DLWR 0 ,$'5 $35 *HQHUDO 6HVVLRQ &KLQD :HE

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SURSHUWLHV RI WLWDQLXP WU7HDWHGKZLWKRFDOLXPQDQRZ
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3UHYDOHQFH R% DRUUD 0 YL(US XVWHEQG 3RUSK\URPRQDV JLQJLYDOLV DQG
SHULRGRQWDO LQIS DFRUHRGHVWXLRQDHDO DVWHXG\ 6KLJHLVKL + 2ND , 6
1DNDPXUD 0 1LVKLPXUD 5 GHXGLFLQH 0 %2KOWDLP RUH H
0'
*HQHWLF ORFL DQG SULRULWL]DWLFOQ RH JHQHWLVDHQGUDWRPHXQDF
ORQJLWXGLZQLDGH JHVRRPHL D*RLRVN VWXGLHV RQ +7HXPHU $ 7KRPDV
6(6YHLQEMRUQVVRQ * :LQNOHU 7: *•QWKHU) 6WDUN .- &KDL
$KOXZDOLD 7 6VYHQG 2 %DNNHU 6-/ %DQDV % %DQVDO 1 %LJJ
%RHUZLQNOH (%RWWLQJHU (3 %UHQQHU + %UXPSWRQ % &DU
&KHH 0/ &KHQJ &< &KX $< &LXOOR 0 &RFFD 0 &RRN -3 &RH
'HJHKDUGW) (FNDUGW .8 (QGOLFK . (YDQV 0 I HL WRKVDEHUJHUD
& *DPSDZDU 3 *DQVHYRRUW 57 *KDQEDUL 0 *KDVHPL 6 *LHGU
+DOODQ 6 +DPHW 3 +LVKLGD $ +R . +RSPHDQ $ RORHG]HN %WHU
.IK|QHQ 1 +YHHP . +ZDQJ 6- ,NUDP 0$ -RV\XOD 16 -XQJ % .IK|
&& .RHQLJ : .UDPHU + .UPHU %. .•KQHO % .XXVLVWR - /DDNV
0 /LHE : /LIHOLQHV &RKRUW 6WXG\ RQ 6-) //XQGV U0$ /\\WLNILQ
0DKDMDQ $* DUFWDD 3/5 0HLVLQJHU & 0HWLQJHU 7 0HODQGHU 2
0RQRQHQ 1 0RUULV $3 0\FKDOHFN\M -& 1DGNDUQL *1 1DLWR 0
1LNXV . 1LQJ % 2OWH 7 ,2 'RQRJKXH 0/ 2 &RQQHOOD - H2UDIVVRQ
3DUVD $ 3HQGHUJUDVV 6$ 3HQQLQ[%:-+ 3LUDVWX 0 3UHXVV 0
27 5KHLQEHUJHU 0 5LFH .0 5L]]L) 5RVHQNUDQ] $5 5RVVLQJ 3
6EDQD\DJP & 6DOYL (6FKPLGW + 6FKPLGW 5 6FKRO] 0 6FK
6KDIIHU &0 6LHEHU .% 6LP ; 6LPV 0 6QLHGHU + 6WDQ]LFN .- 7K
. 6WULQJKDP +0 6XOHP 3 6]\PF]DN 6 DD\OR9UF FD7UKJLRX &+/YD7QHG
+DUVW 3 YDQ GHU 0RVW 3- 9HUZHLM 1 9|ONHU 8 :DNDL . :DG
:DQJ - :DWHUZRUWK '0 :KLWH +' :LOOHU &- :RQJUP VW:HRQJZDUG
/0 =LPPHUPDQQ 0 =RQGHUYDQ SV%RQJH %J7HU &$ 3DWWDUR
.URQHQEHUJ) +HLG ,0 .LGQH\ ,QW
7KHHDU VXUYH\ RI RUDO K\JLHQH FRQGLWLRQV R$V&DPE RGLDQ S
,ZDPRWR < 0LWVXKDWD -&2UDDOWR0RL0 .R]DL .
/RZLQWHQVLW\ FLJDUHWWH VPRNLQJ DQG PRUWDOLW\ ULVN D
LQ -DSDQRQ K RL 0)UHHGPDQ 1' 6DLWR (7DQDND 6 +LUDED\DVK
8VXL < ,WR + :DQJ & N7HXFKLR7VK.LWD3DX < 8WDGD 0 2]DVD . 6
, :DGD . 1DJDWD & 6KLPD]X 7 0L]RXH 7 0DWVXR . 1DLWR 0 7
5HVHDUFK *URXS IRU WKH 'HYHORSPHQW DQG (YDOXDWLRQ RI &D
(SLGHPLRO
$OFRKRO LQWDNH DQG VWRPDFK FDQFHU ULVN LQ PDXSUDQ7 $ SRRO
:DNDL . /LQ < 7DPDNRVKL $ 8WDGD 0 2]DVD . 6XJDZDUD < 7VXI
,WR + 1DJDWD & RLW7HXFKLR7VK.LWD3DX < 8WDGD 0 2]DVD . 6
*URXS IRU WKH 'HYHORSPHQW DQG (YDOXDWLRQ &DQFHU 3UH

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+DP7D PXU.DWRXE<R2NDGDDJD\RV+LVWRULFDO.DL+DPDM2PRWD
. 1DRLW ,$'5 $35 *HQHUDO 6HVVLRQ ([KLELWLRQ ZHE

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RVWHREODVWLFHOD\V7 E{\ K\SHUEDULF R[\JHQ WUHDWPHQW $UFK
M DUFKRUDOELR
<RVKLRND 5 0LQHLNDZDNXUDD\DPD 7 /DQVSUD]ROH DQG]ROH
KDUG WLVVXH KHDOLQJ RI WRRWK WUDXPDWLFDOO\ DYXOVHGLQFLVRUV0LHUVPHGLQ3KDUL

3: 0LQH < 2NXGD . <RVKLRND 5 6DVDNL < 3HQJ 7< .DNX 0 <RVKLN
2FFOXVDO WUDXPD 5HQGDWLVSRRWVHRQDFHUVIRUVLV RI WKH MDZ LQ P
GRL V
4: .RGDLUD $NLKLVD .RL]XPL +LURVXX +LUDED +DUXWR 7DNHX
6DL%WRQGLQJ3HUIOXHWLQJ PDWHULDOV WR-WUDWRQGLFXP DSQG WLWDQL
5: ,ZDJXUR 6KRJR 6KLPRH 6DLML <DPDPRWR .RKHL 0LQH <XLFK
,QIOXHQFH RI GHQWDO DEUDVLYHV RQ VXUI-DFH DQG6XEVXUIDFH JOR
SS
6: <DPDPRW.RDNX 0 2QR 6 7DNHFKL 0 7DQLPRWR . &RUUHFWLF
KLJK DQJOH FDVH ZLWKRPQQGLEXOJXUHWPLOH E\ GRXEOH MDZ VX
&RGRL WGFSXEOLFDWLRQ

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1: Occlusal Trauma and Bisphosphonate-related Osteonecrosis of the Jaw in Mice: Mine Y, Okuda K, Yoshioka R, Sasaki Y, Peng TY, Kaku M, Yoshiko Y, Nikawa H, Murayama T: Calcified Tissue International, 110(3), 380-392, 2022.
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3: Alterations to titanium surface depending on the fluorides and abrasives in toothpaste: Shuto T, Mine Y, Makihira S, Nikawa H, Wachi T, Kakimoto K: Materials, 15(1), 51, 2022.
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7: BMP and activin membrane-bound inhibitor negatively regulate connective tissue growth factor controlling mesothelioma cell proliferation: Hoang NTD, Hassan G, Suehiro T, Mine Y, Matsuki T, Fujii M: BMC Cancer, 22(1), 984, 2022.
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9: Effects of the methyl methacrylate addition, polymerization temperature and time on the MBG@PMMA core-shell structure and its application as addition in electrospun composite fiber bioscaffold: Lin HN, Peng TY, Kung YR, Chiou YJ, Chang WM, Wu SH, Mine Y, Chen CY, Lin CK: Ceramics International in press
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5: 3UHGLFWLQJ RI FHSKDORPHWULF $1% DQJOH RQ ODWHUDO SUR
QHWZRUN DNL 6 0LQH < 8UDEH 6 0LWVXKDWD & 0XUD\DPD 7

6: 0XOWLFODVV &ODVVLILFDWLRQ RI 2GRQWRPD DQG 6XSHUQXPHUD
0LQH < ,ZDPRWR < 8UDEH 6 0LWVXKDWD & 0XUD\DPD 7 ,
([KLELWV RQ JGX

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11: 3'*)5 UHJXODWHV FHOO SUROLIHUDWLRQ DQG GLIIHUHQWLDWLRQ &7)XMLSUHVVL

12:

13: $QDO\VLV RI PDQGLEXODU ODWHUDO GHYLDWLRQ RQ SRVWHURI
DOJRU\WKP DNL 6 <RVKLP< < ,WR 6 7DNHGD 6 7DQLPRWR . 0XUD
'HQWDO 0DWHULDOV &RQJUHVV

14: 5HJXODWLRQ RI EDVRQHFHOO GLIIHUHQWLDWLRQ E\ GQ1 % WLF %
SHSWLGH WR 7 0LQH < 7DQLQRWR 0 0DWVXRDQDWRPLFDO &RQJUHVV

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1: $UWLILFLDO ,QWHOOLJHQFH 6\VWHPV RQ 'HHS /HDUQLQJ 6WXGLHV
,QWHUQDWLRQDO 6\PSRVLXP RQ 'LJLWDO ,QVWUXPHQWV DQG %LRPHGLFDO

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1: 2FFOXVDO 7UDXPD DQG 'LVWXUEDQFH 'LVRUGHUV LQ 0LQRU<1 W2N NG-DZ LQ 0
<RVKLRND 5 6DVDNL < 3HQJ 7< .DNX 0 <RVKLNR < 1LNDZD +

2: $OWHUDWLRQV LQ WKH FWLWDSHLQXPLQJ RQ WKH IOXRULGHV DQG DEUDV
< 0DNLKLUD 6 1LNDZD + :DFKL 7 .DNLPRWR .
3: /DQVRSUD]ROH DQG]ROHGURQDWH GHOD\V KDUG WLVVXH KHDOL
WUWHDG PLFH <RVKLRND 5 0LQH < .DNX 0 1LNDZD + 0XUD

4: +RZ VFKRRO OLIH ZLWK LQWHUQDWLRQDO VWXGHQWV GHYHORSV
VWXG2HQW+V 7DML 7
5: &RPELQDWLRQ RI &DUERQDWH +\GUR[\DSDWLWH DQG 6WHP &HO
%RQH 5HJHQHUDWLRQ E\ 9QQ*KDQG&Q &' %0(3 SUHVVLRQ LQ ,PPXQR
0LFH1XUXO $LV\DK 5L]N\ 3XWUD.RWG L 55RNLXQLPHW7RPRND +LUD
1DNDMLPD 7DNDKDUX $EH <XML 7VXND 6KX]R 6DNDWD $\DND
7DQLPRWR &HOOV GRI FHOOV
6: &RPSDULVRQ RI WKH DFFXUDF\ RI GLQHHRQWLQKDRGLDO LF
UHFRJQLWLRQ <XPL 7VXFKLGD 0DKR 6KLR]DZD .D]X\XNL +DQGD
- 3URVWKR2GRQWLF5HKDE RI SULQW
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11: /DFWREDFLOOXV UKDPQRVFXQVP/ 6WUHSWRFRFFXV PXWDQV

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14: (VWDEOLVKPHQW RI LQGLFDWRU IRU VFUHHQLQJ HRFKLOGUHQ EXVH
.DLKDUD < 6DVDKDUD + 1LL]DWR 1 <DPDQH $ 1LNDZD + <DP
(XURS(DQ -RXUQDO RI 3DHGLDWULF 'HQWLVWU\

5ROH RI /DFWREDFLOOXV UKDPQRVXV LXQ2UDGD+)NLBKWBLQRI 'LVD
<XLND 0L]RWD +LUURUNLHQLWN2ZDO +HDOWK 5HSRUWV YRO

1: 'HYHORSPHQW RI (WDNEDVHG HLWPHRR[LVLQJHQH DQWLEDFWHULDO D
%LRPHGLFDO (QJLQHHULQJ 1LNDZD DQG 7DNHPDVD 6DNDJXFKL

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1: $ 1RYHO ,QKLELWRUVRQWLWRRF[LTQR[L\QVWHP H[SUHVVHG.DEWR)
<DPDJXFKL < ,QRX\H . 0DWVXR7KH)V%K6GRBXHQDQRXQH 0

1: 7$ 7VD$ 7VD7

2: '1$ 7$ 0DVD\RUL
,QRX\H
3: &KDUDFWHUL]DWLRQ RI 7VD$ 7VD77RDLQQRYLHWR[LQ V\VWHP
0DVD\RUL ,QRLX\H ' & 86$
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1: 2ND + 7DML 7 +RZ VFKRRO OLIH GHZLWKRSQWWKHQDQWRQFOWXGH
GRPHVWLF GHQWDO VWXGHQWV (XURSHDQ -RXUQDO RI 'HQWDO

2: 2ND + $ULDQL 0' $ND]DNL 7 0L\DXFKL 0 .LWDJDZD 0 6RPH WL
PHWK\ODWLRQ LQ VDGLYDFWRSWHUV-DSDQHVH DQG ,QGRQHV
0HGLFLQH 7RN\R

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4: 0XUDWD . 1DNDR)XNXVKL7XF.RLW1X\D 1)XNXPRWR : 2ND + <RVKL
1DPHUD $ .DNLPRWR 1 2XH 1 $ZDL . <RVKLPRWR . 1DJDR 0)R
&29,' YDFFLQDWLRQ &DVH UHSRUW)URQWLHUV LQ ,PPXQRORJ

5: 2ND + $VDR <0LWVXKDWD & 0DWVXPRWR < 1RPXUD 5 .DNLPRW
'HQWDO UDGLRJUDSKLF LQIRUPDWLRQ RI WHUP QHZERUQ EDELH
UDGLRJUDSKLF FDVHV DORQJ ZLWK SK\VLFDO DWWULEXWHV LQ -

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1. 1LVKL2KWD . .XUDPRWR < 6KLJHLVKL + 2ED\DVKL 7 <RVKLRND < + <RVKLGD 7)XNXVKLPD 1 .DNLPRWR 1 2KJH + .XULKDUD + ,FK LQIODPPXHUGDFH DUHD LQ RUDO FDYLW\ DVVRFLDWHG ZLWK IHEULO PDOLJQDQF\ XQGHUJRLQJ FKHPRWKHUDS\ 6FL 5HS)HE 30,' 30&,' 30&
2. 1DUXVH 7 2KWDVKLGDW<R 6KLJHLVKL + 6DNXPD 0)XNXVKL 1DNDJD + 7DNHFKL 0 ,PPXQH UHVSRQVH WR F\WRVROLF '1$ YLD LQWHU NHUDWLQRF\WHV DQG ILEUREODVWVGR2UDO 'LVRGXE (S 1RY 30,'
3. 1H]X 7 +RVRPL 11LVKRNDL6PRUL 0 6KLJD < ,PDPXUD (6KLQWDQL 0DUX\DPD + $VVHVVPHQW RI VHUXP ,J* WLWHUV WR YDULRXV SH ILEULOODWLRQ LQHQDFWXWH 6WUDLQHH &SDUWLDOEURYDVF 'LV GRL M MVWURNHFHUEURYDVGLV (SXE DKHDG RI SULQ
4. .DWR + 2KWD . 6DNXPD 0)XNDGD1L6VK1LDDuNHVFKI7 06K7ZJRHL3$SS + LVRIRUPV DHUGH ZLWWKRFLQDGXFWLRQ RI DQWLYLUDO IDFWRUV LQ RUD 0DU GRL PPU)HE (SXE
5. 6DNXPD 0 2KWD .)XNDGD 6 .DWR + 1DUXVH 7 1DNDJDZD 7 6 ([SUHVVQVIIQJOO SHSHWHLGV LQ RUDO ILEUREODVWV LQ FRQWDLQGXFHG FRQWDFW SDUWLFOHV - $SSO 2UDO 6FL $SU H 30,' 30&,' 30&
6. 6DNXPD 0 2KWD $NDXNDGD6WR + ,VKLGD < 1DUXVH 7 7DNHFKL 0 $LNDZD 7 (IIHFWV RI &($&$0 LQ RUHD[SUHVVLQJ&RQHVGREO\+&2D JOXFDQ SDUWLFOHV - $SSO 2UDO 6FL 1RY H GRL 30,' 30&,' 30&
7. 0L\DXFKL 6 1LVKL + 2XKDUD . 7RX\DPD 7 2NXER < 2NDPXUD 6 7DNDVDNL 7 .DWD\DPD .)XUXVKR + 0L\DXFKL 0 7DNDKDVKL 6 %HWZHHQ 3HULRGRQWRORJ\ DQG $WKHURVFOHURO GRL M MDFHS $SSHQGDJHV -$&& &OLQ (OHFWURSK\VLRO GRL M MDFHS

8. 6X]XNL . 6DVDGD 6 1LVKL + .LPXUD < 6KLQWDQL 7XFKLL +$ 0DVX
2NDGD 0 ,PSDFW RI RUDO K\JLHQH RQ IHEULOH QHXWURSHQLD
&DQFHU GRL V (SXE 2FW 30,'
9.)XNDGD 6 2KWD . 6DNXPD 0 $NDJL 0 6DWRKL 1 7DNDKDVKL 7 1DNDJD
0 $LNDZD 7 6XQLWLQLE SURPRWHV DSRSWRVLV YLD S 0$3. DFV
RUDO NHUDWLQRF\WHV 1RYUDOG'R VHDVHV RGL (SXE DHDG RI
10. 7DPXUD=KDL 5XWDN7HP2XKDUD . 7DQLJXFKL +DPDPRWR <)XMLPRUL
0XQHQDJD 6)XMLWD, 7QIDDPXQRWRUSQWHFWV RI *HQLSRVLGLF $FL
JLQJLYDGXFHG 3HULRGRQWLWLV LQ 0LFH %LRPHGLFLQHV 'HF

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7: 'LIIHUHQW DPLQR DFLG VHTXHQFH IRU &SU$%& DIIHFWV QLVLQ $
LVRODWHV LDNL ,GHZDGLDW VXR 0L7UDX\HQ +LURPL 1LVKL +LUR
.DZDJXFKL +LWRVKL 7.RPDWVXK]DZD 'RUHQD ,QWHUQDWLRQDO 6\PSR
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+LVVHQ 5\RVXNH .DNKRGD0DHUDQQ% %DGURY $ELJDLO 6 / 6WLFNL
<RVKL\XNL 6DNUDGE - DUYLV 'DYLG % 1HOVRQ 4L)X

2: (IIHFWV RI DQWLSV\FKRWLFV RQ LQWUDYHQRXV VHGDWLRQ ZL
WUHDWPHQW IRU SDWLHQWV [XZLWK 2KHDQWDHGRVHFWXDO7DLJDE<RYKW
2GD 7DPD\R 7DNDKDVKL DQD0D2XHKL$NRVUHLQXQLH2NDGD
GRL MLU

3: 6WDWHPHQWV IURP WKH 6HFRQG ,QWHUQDWLRQDO :RUNVKR
7RVKLND]X <DVXL <RVKLQREX 0DHGD $QWKR1QD\0RRDK 5L1HO1RL
.RXVKL .D]XQRUL ,NHEH 3DXO 3LFFLQLQL +LUR[XKL6RX]NL +
<RVKL7DUDX&QKLHK <DQJ 'DYLG .XPDRWR .XQJ 5RFN .ZRQ 7RPRWDI
6\OYDLQH *RXS\ $VKUDI 6DP\ UHDQ+LPURVDR1DN&KZXHNLP*HQ 7DQDE
0DUTXDUGW 5LFKDUG /HH 6XQJERN 7RPR\R *RQGD .D]XQDUL .LP
-RXUQDO RI 6SRUWV 'HQWLVWU\ SS

4: ' LIILFXOW LQWXEDWLRQ DQG SRVWRSHUDWLYH DLUZD\ DRVHEL[DWLRQGS
FDVH UHSRUW $\DXNGLD2GDQDD7XHJXFKL 7DPD\R 7DNDKDVKL $NDU
'RL <RVKLWDND 6KLPL]X 0DVDKLUR ,ULIXQH 0LWVXKLUR

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VHFWLRQ<DXQLVWXGLHV &KLDNL)XUXWDQL <XLND 0L]RWD +LURQRU
<RVKLIXPL VKLR +LVDKR <DPDJXFKL <XUL+LRUR<RVKLNDZDRVKL\XNL
&RQJUHVV RI ,QWHUQDWLRQDO $VVRFLDWLRQ IRU 'LVDELOLW\ DQ
2: $ FDVH RI JLQJLYHFWRP\ DQG IHQHVWUDWLRQ IRU QXPHURXV
V\QGURPH<RXNL 2GD +LVDKR <DPDJXFKL <RVKLIXPL 1LVKL R +LURQR
+LURQDR $VDKLQD .RWD 0L\DKDUD &KLDNL)XUXWDQL <XULNR
&RQJUHVV RI $VLD $VVRFLDWLRQ IRU 'LVDELOLW\ DQG 2UDO +HD

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23: 2UDQGDLQWHVWLQDO EDFWHULDO IORUD LQ FHQWHQDULDQV DQG LQ QXUVLQJ K EPEJWHDRNHIXVDKLQD +2UROGZRUD 7DGDVKL <RVKLNRBXR

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1: Fiberoptic endoscopic evaluation of swallowing may increase pharyngeal residue in postoperative oral cancer patients Nagasaki T., Yamada S., Yoshikawa M., Yoshida M., Shimabukuro K., Ohtsuka M., Konishi M., Suei Y., Nakamoto T., Kakimoto N.: The 13th Asian Congress of Oral and Maxillo-Facial Radiology & The 62nd general assembly and annual scientific congress of Japanese Society for Oral and Maxillo-Facial Radiology ( ) 2022.

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SHULRGRQWDO WLVVXH LQRO HGDQWH S.HUMLRGRQWHDO WLVVXH
+RULNRVKLWR WRLNHRULPRU6PRWRK+LL<RVKLQRZD7WD2XK.DUDDWVXGD
0L]XQR-RXUQDO RI 7LVVXH (QJLQHHULQJ DQG 5HJHQHUDWLYH 0H
2: $VVHVVPHQW RI 7LVVXH 5HVSRQVH WR 9DULRXV 3HULRGRQWDO 3DWKRJHQV
LQ $FXWH 6WUHSWRFRFFXV + 1DNDPRUL 0
(6KLQWDQQ DQG 7JXFKL + 0DWVXPDH+&HUEURYDVF 'LV
3: ,PSDFW RI 0D[LPXP 7RQJXH 3UHVVXUH LQ 3DWLHQWV ZLWK -DZ 'H
6XUJHU\ . 6KLQWDQL 7 <RVKLPL < +LJDNL 0 .XQLPDWV
7DQLPRWR . 6KLED + 7RUDWDQL 6 'LDJQRVWLFV %DVHO
4: 0DVWLFDWRU\ G\VIXQFWLRQ LQ SDWLHQWV
2XKDUD . 0L\DJDZD 7 6KLQWDQL 7 0DWVXGD 6)XMLWD 7
0 0L]XQR .1XUNDUD3UR6+2QH H
5: 9(*)$ SURPRWHV WKH PRWLOLW\ RI KXPDQ
SDWKZD\ 2XJL]XPL 6KLQWDQL 7VKLGR < +DPDGD $ +LJDNL 0 6DNDPR
2NDPRWR 7 ,Q 9LWUR &HOO 'HY %LRO $QLP
6: ,QWHJUDWLQJ *HQHWLF $OWHUDWLRQV DQG WKH +SSR 3DWKZD\
IRU)XWXUH 3UHFLVLRQ 7KHUDSHXWLF 6KLQWDQL 7 <DQDPRWR 6 0L\
*XWNLQG -6 .DML\D 0 - 3HUV 0HG
7: $ FDVH RI PXOWLSOH P\HORPD GLDJQRVHG E\ H[WUDPHGXODU
.RJXPL . 6DNDXH 7 1DNDVH < 2ED\DVKL) $QGR 7 6KLQWDQ
6XUJ 0HG ,QW 2SHUDWRUV
8: 6HFUHWRU\ FDUFLQRPD LQ D \RXQJ DGXOW SDWLHQW
OLWHUDWXUH UHYLHZ DQG DQDO\VLV 7DQL 5 .LPXUD 1 7DJXFKL < +LURWD 6

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< 0DNLKLUD 6 1LNDZDLP RWDFKL 7DWHULDOV

5: &RPSDULVRQ RI WKH DFFXUDF\ RI GLIIHUHQW LQWUDRUDO LF
UHFRJQLWLRQ <XPL 7VXFKLGD 0DKR 6KLR]DZD .D]X\XNL +DQGD
- 3URVWKRGRQWH 5HVHDUFK 2QH 1LQHW D

6: (IIHFWV RI GLPHQVLRQDO DQG GLRUHOBDVHUR VOLWV RQ VKHDU ERQG VWUHQ
LQGLUHFW FRPSRVLWH UHVLQ DQG]LUFRQLD ,ZDJXUR 6 6KLPR
3HQJ .DNX 0 - 3URVWKRGRQW 5HV

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