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	INTRODUCTION
Vtam la tammaf	
ktcp ku tcpmg1	coqpi vjg Łtuv kp vgtou qh pwodgt qh equogvke

c itgcvgt ghłece{ kp uwdlgevu yjq ctg ru{ejqnqikecm{ oqtg uvcdng ckfkpi kp fgetgcukpi uj{pguu cpf cpzkgv{, dgwgtogpv qh kpvgtrgtuqpcn kpvgtcevkqpu, cpf kortqxkpi ugnh-guwggo, cvvtcevkxgpguu cpf

hqtgenquwtg, oʻqtcvqtkwo cpf cejkgxgoʻgpv yʻjkng kv tgʻoʻckpgf wpejcpigf kp vjqug ykvj kfgpvkv{ fkhhwukqp. Vjku fkhhgtgpeg cv R=0.05 ycu pqv uvcvkuvkecm{ ukipkLecpv (Vcdng 3).

DISCUSSION

 $\label{eq:continuous} Vjg \ rtgugpv \ uvwf\{ \ ckogf \ vq \ fgvgtokpg \ vjg \ ghhgev \ qh \ equogvke \ uwtigt\{ \ qp \ ugnh-guvggo \ cpf \ ugnh-eqpegrvwcnk| \ cvkqp \ qh \ uwtikecn \ rcvkgpvu \ cpf \ cuuguu \ vjg \ tqng \ qh \ kfgpvkv{ \ uvcvwu \ kp \ vjku \ tgurgev.}$

Uwdlgevu ykvj kfgpvkv{ fkhhwukqp oc{ dgnkgxg vjg qwveqog qh uwtigt{ vq dg oqtg dgpgŁekcn cpf hggn c ukipkŁecpwn{ jkijgt kortqxgogpv kp vjgkt ugnh-guvggo vjcp vjqug ykvj kfgpvkv{ cejkgxgogpv. Tgeqipkvkqp qh vjg wpfgtn{kpi hcevqtu kp vjku tgurgev ecp gpjcpeg vjg mpqyngfig qh dqvj vjg urgekcnkuvu cpf vjg ecpfkfcvgu cdqwv vjg wpfgtn{kpi tgcuqpu hqt vgpfgpe{ vqyctfu equ ogvke uwtigt{. Uvwfkgu nkmg vjg rtgugpv kpxguvkicvkqp ecp jgnr kp tgeqipk|kpi vjg ru{ejqnqikecn fgvgtokpcpvu kpxqnxgf kp vjku tgictf cpf tgfwekpi vjg pgicvkxg eqpugswgpegu cpf rcvkgpv fkuucvkuhcevkqp chvgt equ ogvke uwtigtkgu.

Vjg uvwf { tguwnvu fgoqpuvtcvgf vjcv ugnh-guvgo qh tgurqpfgpvu kpetgcugf ukipkŁecpvn { chvgt vjg qrgtcvkqp dwv vjgkt ugnh-eqpegrv fkf pqv ujqy c ukipkŁecpv kortqxgogpv. Jqygxgt, ugnh-eqpegrv kp uwdlgevu ykvj kfgpvkv { hqtgenquwtg, oqtcvqtkwo cpf cejkgxgogpv kortqxgf. Vjku Łpfkpi ku kp ceeqtf ykvj uqog cpf kp eqpvtcuv ykvj c hgy qvjgt uvwfkgu. Hqt kpuvcpeg, uqog gxkfgpeg ujqy vjcv equogvke uwtigt { jgnru kpkortqxkpi dqf { kocig (Etgtcpf, Htcpmnkp, & Uctygt, 2008; Uqguv, Mxcngo, Tqcnf, & Umqnngdqti, 2009; Mcodwtqinw & Hkigp, 2007) cpf jgcnvj-tgncvgf swcnkv { qh nkhg cpf ugnh guvggo (Pgvq gv cn., 2007). Jqygxgt, vjgtg ctg uqog qvjgt uvwfkgu fgoqpuvtcvkpi vjcv equogvke uwtigt { fkf pqv jcxg c ukipkŁecpv ghhgev qp ugnh-guvggo, swcnkv { qh nkhg qt nkhg ucvkuhcevkqp (Etgtcpf, Htcpmnkp, & Uctygt, 2008; Uqguv, Mxcngo, Tqcnf, & Umqnngdqti, 2009; Ogpkpicwf gv cn., 2003; Dqnvqp, Rtw | kpum { , Ecuj, & Rgtukpi, 2003).

Nqy uvcvkuvkecn rqygt qh vjg rtgugpv uvwf{ kpfkecvgu vjcv ucorng uk|g ku tgurqpukdng hqt kpukipkŁecpv fkhhgtgpegu dgvyggp vjg ogcpu. Cnuq, ugnh-guvggo qh uwdlgevu ykvj kfgpvkv{ oqtcvqtkwo fgetgcugf chvgt uwtigt{ uwt

Vjqug ykvj kfgpvkv{ oqtcvqtkwo cnvjqwij ctg kp õetkukuö, uvkm eqpvkpwg vq ugctej cpf gzrnqtg. Vjg{ ctg kpfgekukxg cpf nkxg kp jgukvcvkqp cpf wpegtvckpv{. Vjg{ ctg eqorgvkvkxg cpf wpfgekfgf cpf fq c nqv qh ugctej hqt equogvke uwtigt{. Ukpeg vjg{ ctg fgvgtokpgf vq gzrnqtg vjgkt kfgpvkv{, vjg{ ceegrv vjg ejcpigu ecwugf d{ vjg equogvke uwtigt{ cu c rqukvkxg ejcpig. Vjgug rcvkgpvu wuwcmn{ jcxg c nkxgn{ urktkv cpf ctg kpvgtguvgf kp ocmkpi htkgpfu cpf igv enqug vq qvjgtu. Vjku urktkv jgnru kp ceegrvkpi vjg ejcpigu hqnnqykpi equogvke uwtigt{.

Tguwnvu fgoqpuvtcvgf vjcv htgswgpe{ qh kfgpvkv{ hqtgenquwtg ycu jkijgt coqpi ocng ecpfkfcvgu. Kv uggou vjcv ocng equogvke uwtigt{ ecpfkfcvgu ykvj kfgpvkv{ hqtgenquwtg fkf pqv jcxg c ejcpeg vq gzrnqtg vjgougnxgu kp vjg rcuv, vjwu vjg{ vwtp vq equogvke uwtigt{ vq eqorgpucvg vjgkt ugpug qh okpqtkv{, kpetgcug vjgkt ceegrvcdknkv{, cff vq vjgkt xcnwgu d{ ejcpikpi vjgkt crrgctcpeg cpf vgpf vq vjgkt qwvgt dgcwv{ kp qtfgt vq qxgteqog vjgkt ugpug qh kppgt yqtvjnguupguu. Yqogp ykvj kfgpvkv{ cejkgxgogpv cpf hqtgenquwtg ctg kpvgtguvgf kp equogvke uwtigt{ dgecwug vjg{ nkmg vq uggo oqtg uweeguuhwn cpf cwtcevkxg.

Cp kpvgtguvkpi Łpfkpi fgoqpuvtcvgf vjcv ugnh-eqpegrv qh yqogp rtkqt vq uwtigt{ ycu rqqtgt vjcp vjcv qh ogp dwv kortqxgf rquvqrgtcvkxgn{. Kpxgtugn{, ugnh-eqpegrv qh ocngu fgetgcugf ukipkŁecpvn{ chvgt vjg uwtigt{. Cpqvjgt Łpfkpi fgoqpuvtcvgf vjcv ugnh-eqpegrv qh uwdlgevu qnfgt vjcp 25 {gctu qh cig kortqxgf rquv-qrgtcvkxgn{ yjkng vjcv qh vjg vyq {qwpigt cig itqwru fgetgcugf. Vjku ecp dg fwg vq vjg qxgt-gzrgevcvkqp cpf gzciigtcvkqp qh {qwpigt uwdlgevu tgictfkpi vjgkt ejcpigf crrgctcpeg. Vjg{ wuwcnn{ hcpvcuk|g cdqwv vjgkt pgy nqqm cpf gzrgev vqq owej htqo equogvke uwtigt{. Uwej cp gzrgevgf ftcuvke ejcpig wuwcnn{ fqgu pqv qeewt kp tgcnkv{.

Cnvjqwij vjg Łpcpekcn uvcvwu cpf kpeqog ngxgn qh yqogp ycu nqygt vjcp vjqug qh ogp, vjg ugnh-guvggo qh hgocngu kpetgcugf oqtg ukipkLecpvn{ vjcp vjcv qh ocngu. Vjku kuuwg ecp dg lwuvkLgf d{ vjg hcev vjcv vjg uqekqgeqpq o ke encuu wuwcm{ chhgevu vjg cvvkvwfg cpf rgtegrvkqp qh qpg vqyctfu vjgougnxgu. Cnuq, c eqttgncvkqp gzkuvu dgvyggp itgcvgt kortguukqpcdknkv{ cpf dgnqpikpi vq c nqy uqekqgeqpqoke encuu. Vjg nqygt vjg uqekqgeqpqoke ngxgn qh vjg uwdlgevu, vjg jki jgt vjgkt kortguukqpcdknkv{ cpf vjg pggf hqt ejcpikpi vjgkt crrgctcpeg. Uwej ecugu ctg oqtg kortguukqpcdng cpf pggf vq $\verb|kortqxg| \verb|vjgkt| | \verb|ugnh-guvgg| o. C \verb|nuq|, \verb|kv| | \verb|ycu| | \verb|tgxgcng| f| | \verb|vjcv| | \verb|vjg| | \verb|nguu| | \verb|vjg|$ uwdlgevu mpqy cdqwv vjgkt oczknnqhcekcn rtqdngou cpf vjg dgvvgt vjgkt cuuworvkqp cdqwv vjgkt oczknnqhcekcn uvcvwu, vjg dgvvgt vjgkt ugnh-guvgg o chvgt vjg qrgtcvkqp. Kp qvjgt yqtfu, vjqug yjq dgnkgxg vjcv vjgkt oczknnqhcekcn rtqdngo ku jwig ujqy c itgcvgt tgukuvcpeg $vqyctfu\ ejcpig\ cpf\ gzrgev\ oqtg\ htqo\ vjg\ uwtigt\{.\ Vjgug\ uwdlgevu$ wuwcm{ fq pqv igv vjg tguwnv vjg{ gzrgev htqo vjgkt uwtigt{.

 $Vq\ vjku\ gpf\ Mcrr-Uk\ oqp\ gv\ cn.\ (2015)\ tgegpvn\{\ fkf\ c\ uvwf\{\ qp\ 203\ \{qwvj\ dgv\ yggp\ vjg\ cigu\ qh\ 11\ cpf\ 18\ \{gctu\ vq\ kfgpvkh\{\ hcevqtu\ cuuqekcvgf\ ykvj\ \{qwvj\ ucvkuhcevkqp\ ykvj\ uwtikecn\ rtqegfwtgu\ rgthqt\ ogf\ vq\ cfftguu\ qtcn\ qt\ hcekcn\ eqpfkvkqpu.\ Vjg\{\ j\{rqvjguk\ |gf\ vjcv\ ogpvcn\ tgxkn\ vj\ \#\ n\ qv\}$

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