

Р†РќРЎРЎР РЈРЉРІР†РЇ

**PrP»CЦ PjPμPrPëC±PSPsPiPs P•P°CíC,PsCíCíPIP°PSPSCЦ P»C-PeP°CЃCíCЃPePsPiPs
P•P°CíPsP±Cí**

B

РћРњР•РќРђРљРЎ^В®

B (OMENAX^{B®})

$CP \in P \gg P^0 P \Gamma$:

$PrC-C\bar{h}C\sharp P^{\circ} C\bar{h}P_{\mu}C\sharp PsPIP\ddot{e}PSP^{\circ}$: omeprazole;

1 C,,P»P°PePsPS PjC-Cl'C,PëC,CH PsPjPµPiCTjP°P·PsP»Cr' PSP°C,CTjC-CH
PµPePIC-PIP°P»PµPSC,PSPs PsPjPµPiCTjP°P·PsP»Cr' 40 PjPi;

$$PrPsPiPsPjC-P\text{P}PSP^{\circ} C\text{H}P_{\mu}C\#PsPIP\ddot{e}PSP^{\circ}: PSP^{\circ}C, C\text{H}C-C\text{H} PiC-PrC\text{H}PsPeC\acute{I}P\ddot{e}Pr.$$

B

P>C-PeP°C₅C₁C₅HPeP° C₁₁PsC₅PjP°. P₁₁PsC₅P₅C₆PsP₆ PrP»C₁₁ C₅P₅P·C₁P₆PS₁ PrP»C₁₁
C-PSB₇TMC₁₁PeC₁C-PN₆.

PhCfPSPsPIPSC- C,,C-P·PëPePs-C...C-PjC-C#PSC- PIP»P°CfC,PëPIPsCfC,C-:
P»C-PsC,,C-P»C-P·PsPIP°PSPëPNë PïPsCfPSPsC€PsPe PIC-Pr P±C-P»PsPiPs PrPs PjP°PNëP¶Pµ
P±C-P»PsPiPs PePsP»CHbPsCfCf.

B

P_αP°C_βP_jP°P_εPsC_γ,P_μC_βP°P_iP_μPiC_γ,P_εC_β‡PSP° PiC_βC_γP_iP°.

$P-P^{\circ}C\Gamma PsP \pm P\ddot{e} \quad PrP \gg C\Gamma \quad P \gg C-PeCrPIP^{\circ}PSPSC\Gamma \quad P\ddot{i}P_{\mu}P\ddot{i}C, P\ddot{e}C \ddagger PSPsC- \quad PIP\ddot{e}C\tilde{H}P^{\circ}P \cdot PeP\ddot{e} \quad C, P^{\circ}$
 $PiP^{\circ}C\Gamma C, C\tilde{H}PsP_{\mu}P \cdot PsC, P^{\circ}PiP_{\mu}P^{\circ}P \gg CH\ddot{P}SPsC- \quad C\tilde{H}P_{\mu}C, P \gg C\tilde{H}PeC\Gamma PSPsC- \quad C...PIPsC\tilde{H}PsP \pm P\ddot{e}.$
 $P \ddagger PSp\ddot{i}C-P \pm C-C, PsC\tilde{H}P\ddot{e} \quad P\ddot{i}C\tilde{H}PsC, PsPSPSPsC- \quad P\ddot{i}PsPjP\ddot{i}P\ddot{e}. \quad PhPjP_{\mu}P\ddot{i}C\tilde{H}P^{\circ}P \cdot PsP \gg. \quad P_{\tilde{h}}PsP_{\tilde{r}} \quad P_{\tilde{h}}P_{\tilde{y}}P_{\tilde{r}}$
 $P_{\tilde{h}}02P' \quad P_{\tilde{y}}01.$

B

$$P\alpha P^{\circ}C\bar{H}PjP^{\circ}P\epsilon PsP\gg PsPiC-C\bar{P}SC-PIP\gg P^{\circ}C\bar{I}C,P\bar{e}PIPsC\bar{I}C,C-.$$
$$P \propto P^\circ C \eta P_j P^\circ P \epsilon P_s P \tau P \ddot{e} P S P^\circ P_j C - P \epsilon P^\circ.$$

PhPjPμPiCḡP°P·PsP» , CḡP°C†PμPjC-C‡PSP° CÍC†PjC-C€ PrPIPsC... PμPSP°PSC,C-PsPjPμCḡC-PI,
P·PjPμPSC€C†C” CÍPμPeCḡPμC†C-Cḡ CÍPsP»CΠPSPsC— PePëCÍP»PsC,Pë C† C€P»C†PSPeC†
P·P°PIPrCΠPePë PjPμC...P°PSC-P·PjC† PSP°PrP·PIPëC†P°PN₂PSPs CÍPiCḡCΠPjPsPIP°PSPsC—
PrC-C—. PhPjPμPiCḡP°P·PsP» C-PSPiC-P±C†C” CÍPμPeCḡPμC†C-Cḡ CÍPsP»CΠPSPsC—
PePëCÍP»PsC,Pë C† C€P»C†PSPeC† C€P»CΠC...PsPj CÍPiPμC†PëC,,C-C‡PSPsPiPs PIPiP»PëPIC†
PSP° PiCḡPsC,PsPSPSPëPN₂ PSP°CÍPsCÍ C† PiP°CḡC-C”C,P°P»CH₃PSPëC... PeP»C-C,PëPSP°C....
PμCḡPμPiP°CḡP°C, PiCḡPë P·P°CÍC,PSCÍC†PIP°PSPSC- 1 CḡP°P· PSP° PrPsP±C† PrC-C”
C€PIPëPrPePs C,P° P·P°P±PμP·PiPμC†C†C” PePsPSC,CḡPsP»CH₃ C€P»CΠC...PsPj
PsP±PsCḡPsC,PSPsPiPs PiCḡPëPiPSC-C‡PμPSPSCΠ CÍPμPeCḡPμC†C-C— CÍPsP»CΠPSPsC—

PePëCÍP»PsC,Pë CëP»CÍPSPePsPIPsPiPs CÍPsPeCí.

PñPjPµPíCĤP°P·PsP» C” CÍP»P°P±PePsCĤ PsCÍPSPsPIPsCĤ, CÍPeP°
PSP°PePsPíPëC†CíC”C,CHCÍCÍ C,P° PíPµCĤPµC,PIPsCĤCĤC”C,CHCÍCÍ PI P°PeC,PëPIPSCí
C,,PsCĤPjCí Cí PíPeCĤP°PNë PePëCÍP»PsPjCí CÍPµCĤPµPrPsPIPëC%oC-
PIPSCíC,CĤC-CëPSCĤPsPeP»C-C,PëPSPSPëC... PeP°PSP°P»CHC†C-PI
PíP°CĤC-C”C,P°P»CHPSPëC... PeP»C-C,PëPS, PrPµ PIC-PS PíCĤPëPiPSC-C†CíC”
C,,PµCĤPjPµPSC, Pk, Pñ-PñPÿPαP°P·Cí (PíCĤPsC,PsPSPSPëPNë PSP°CÍPsCÍ). PíPµPNë PµC,,PµPeC,
PSP° P·P°PeP»CĤC†PSPsPjCí PµC,P°PíC- PíCĤPsC†PµCÍCí C,,PsCĤPjCíPíP°PSPSCÍ
CÍPsP»CÍPSPsC— PePëCÍP»PsC,Pë CëP»CÍPSPePsPIPsPiPs CÍPsPeCí C”
PrPsP·PsP·P°P»PµP¶PSPëPj C,P° P·P°P±PµP·PíPµC†CíC” PíPëCÍPsPePsPµC,,PµPeC,PëPIPSPµ
PíCĤPëPiPSC-C†PµPSPSCÍ CÍPe P±P°P·P°P»CHPSPsC—, C,P°Pe C-
CÍC,PëPjCíP»CHPsPIP°PSPsC— CÍPµPeCĤPµC†C-C— CÍPsP»CÍPSPsC— PePëCÍP»PsC,Pë
PSPµP·P°P»PµP¶PSPs PIC-Pr C,PëPíCí CÍC,PëPjCíP»CÍC†C-C—.

PjCÍC- C,,P°CĤPjP°PePsPrPëPSP°PjC-C†PSC- PµC,,PµPeC,Pë PjPsP¶PSP° PíPsCÍCÍPSPëC,Pë
PíPíP»PëPIPsPj PsPjPµPíCĤP°P·PsP»Cí PSP° CÍPµPeCĤPµC†C-CĤ CÍPsP»CÍPSPsC—
PePëCÍP»PsC,Pë.

P’PíP»PëPI PSP° CÍPµPeCĤPµC†C-CĤ CÍPsP»CÍPSPsC— PePëCÍP»PsC,Pë Cé CëP»CéPSPeCé.

P’PSCíC,CĤC-CëPSCĤPsPIPµPSPSPµ PíPíPµPrPµPSPSCÍ PsPjPµPíCĤP°P·PsP»Cí
CÍPíCĤPëC†PëPSCÍC” PrPsP·PsP·P°P»PµP¶PSPµ PíCĤPëPiPSC-C†PµPSPSCÍ
CÍPµPeCĤPµC†C-C— CÍPsP»CÍPSPsC— PePëCÍP»PsC,Pë Cí CëP»CÍPSPeCí P»CĤPrPëPSPë.
P”P»CÍ C,PsPiPs C%oPsP± PsPrCĤP°P·Cí P°PSP°P»PsPiC-C†PSPs P·PjPµPSCëPëC,Pë
CĤC-PIPµPSCĤ PIPSCíC,CĤC-CëPSCĤPsCëP»CÍPSPePsPIPsC— PePëCÍP»PsC,PSPsCÍC,C-,
C%oPs PrPsCÍCÍPiP°C”C,CHCÍCÍ PíPsPIC,PsCĤPSPëPjPë PrPsP·P°PjPë PíCĤPµPíP°CĤP°C,Cí
PíPs 20 PjPi PíPµCĤPsCĤP°P»CHPSPs, CĤPµPePsPjPµPSPPrCíC”C,CHCÍCÍ CÍPe PíPµCĤCëP°
PrPsP·P° PIPSCíC,CĤC-CëPSCĤPsPIPµPSPSPµ PíPíPµPrPµPSPSCÍ 40 PjPi PíCĤPµPíP°CĤP°C,Cí.
PíPµ PíCĤPëP·PIPsPrPëC,CH PrPs PSPµPíP°PNëPSPsPiPs P·PSPëP¶PµPSPSCÍ
PIPSCíC,CĤC-CëPSCĤPsCëP»CÍPSPePsPIPsC— PePëCÍP»PsC,PSPsCÍC,C- C,P°
PíPsPrP°P»CHCëPsPiPs CíC,CĤPëPjP°PSPSCÍ C†CHPsPiPs PíPsPeP°P·PSPëPeP°
P·PSPëP¶PµPSPSCÍ PI CÍPµCĤPµPrPSCĤPsPjCí PSP° 90 % PíCĤPsC,CÍPiPsPj 24 PíPsPrPëPS
CÍPe PíC-CÍP»CÍ PIPSCíC,CĤC-CëPSCĤPsPIPµPSPSPsC— C-PSbĤ™ C”PeC†C-C—, C,P°Pe C-
PíC-CÍP»CÍ PIPSCíC,CĤC-CëPSCĤPsPIPµPSPSPsC— C-PSC,,CíP·C-C—.

PµCĤPëPiPSC-C†PµPSPSCÍ CÍPµPeCĤPµC†C-C— CÍPsP»CÍPSPsC— PePëCÍP»PsC,Pë
PíPsPíBĤ™ CÍP·CíC”C,CHCÍCÍ P· PíP»PsC%oPµCĤ PíC-Pr PeCĤPëPIPsCĤ
B«PePsPSC†PµPSC,CĤP°C†C-CÍ- C†P°CÍB» (AUC) PsPjPµPíCĤP°P·PsP»Cí C,P° PSPµ
P·P°P»PµP¶PëC,CH PIC-Pr C,,P°PeC,PëC†PSPsC— PePsPSC†PµPSC,CĤP°C†C-C—
PsPjPµPíCĤP°P·PsP»Cí Cí PíP»P°P·PjC- PeCĤPsPIC- PSP° PrP°PSPëPNë PjPsPjPµPSC, C†P°CÍCí.

PµC-Pr C†P°CÍ P»C-PeCíPíP°PSPSCÍ PsPjPµPíCĤP°P·PsP»PsPj PSPµ PIC-PrP·PSP°C†PµPSPs
PsP·PSP°Pe C,P°C...C-C,,C-P»P°PeCÍC-C—.

B

P’PíP»PëPI PSP° H. pylori.

H. pylori PíPsPíBĤ™ CÍP·P°PSP° C-P· CĤPsP·PíPëC,PePsPj PíPëCĤP°P·PePsPIPsC—
C...PIPsCĤPsP±Pë, Cí C,PsPjCí C†PëCÍP»C- PíPëCĤP°P·PePsPIPsC— C...PIPsCĤPsP±Pë
PrPíP°PSP°PrC†CÍC,PëPíP°P»PsC— PePëCëPePë C,P° CëP»CÍPSPeP°. *H. pylori* C”

PsCfPSPsPIPSPëPj C,,P°PeC,PsCfPsPj CfPsP·PIPëC,PeCf PiP°CfC,CfPëC,Cf.

H. pylori CfP°P·PsPj C-· CfPsP»CfPSPsCf PePëCfP»PsC,PsCf CëP»CfPSPePsPIPsPiPs CfPsPeCf C” PsCfPSPsPIPSPëPj C,,P°PeC,PsCfPsPj CfPsP·PIPëC,PeCf PIPëCfP°P·PePsPIPsC— C...PIPsCfPsP±Pë. *H. pylori* C” PsCfPSPsPIPSPëPj C,,P°PeC,PsCfPsPj CfPsP·PIPëC,PeCf P°C,CfPsC,,C-CfPSPsPiPs PiP°CfC,CfPëC,Cf, C°Ps P°CfPsCfC-CfC”C,ChCfCfCf P· Pïc-PrPIPëC°PµPSPëPj CfPëP·PëPePsPj CfPsP·PIPëC,PeCf CfP°PeCf CëP»CfPSPeP°.

P·CfP°PrPëPeP°CfC-Cf *H. pylori* P·P° PrPsPiPsPjPsPiPsCf PsPjPµPïcCfP°P·PsP»Cf C,P° PïcCfPsC,PëPjC-PeCfPsP±PSPëC... PïcCfPµPïcP°CfP°C,C-PI PïcPsPíBf™ CfP·P°PSP° P· PIPëCfPsPePëPjPë CfC-PIPsCfPjPë P·P°PiPsC”PSPSCf C- C,CfPëPIP°P»PsC— CfPµPjC-CfC-C— PIPëCfP°P·PePsPIPsC— C...PIPsCfPsP±Pë.

PfPSCëC- PµC,,PµPeC,Pë, PïcPsPíBf™ CfP·P°PSC- P· PïcCfPëPiPSC-CfPµPSPSCfPj CfPµPeCfPµCfC-C— CfPsP»CfPSPsC— PePëCfP»PsC,Pë Cç CëP»CçPSPeCç.

PµC-Pr CfP°Cf P»C-PeCfPIP°PSPSCf P°PSC,PëCfPµPeCfPµC,PsCfPSPëPjPë PïcCfPµPïcP°CfP°C,P°PjPë CfPëCfPsPIP°C,PePsPIPëPµ CfC-PIPsPSCf PiP°CfC,CfPëPSCf Pïc-PrPIPëC°CfC”C,ChCfCfCf Cf PIC-PrPiPsPIC-PrCf PSP° P·PSPëPµPSCf CfPµPeCfPµCfC-Cf PePëCfP»PsC,Pë. PÿP°PePsP¶ Cf P·PíBf™ CfP·PeCf P·C- P·PSPëPµPSPsCf CëP»CfPSPePsPIPsCf PePëCfP»PsC,PSC-CfC,Cf Pïc-PrPIPëC°CfC”C,ChCfCfCf CfC-PIPsPSCf C...CfPsPjPsPiCfP°PSC-PSCf Pj (CgA). PµC-PrPIPëC°PµPSPSCf CfC-PIPsCf CgA PjPsP¶Pµ P·P°PIP°PrPëC,Pë PsP±CfC,PµP¶PµPSPSCf PSP° PSPµPµCfPsPµPSPPrPsPeCfPëPSPSC- PïcCfC...P»PëPSPë. PµPsPIC-PrPsPjP»CfP»Pë, C°Ps P»C-PeCfPIP°PSPSCf C-PSPiC-P±C-C,PsCfP°PjPë PïcCfPsC,PsPSPsPiPs PSP°CfPsCfP° PïcCfC,CfC-P±PSPs PïcCfPëPíPëPSPëC,Pë P·P° 5-14 PrPSC-PI PrPs PIPëP·PSP°CfPµPSPSCf CgA. P’PëP·PSP°CfPµPSPSCf CfP»C-Pr PïcPsPIC,PsCfPëC,Pë, CfPeC°Ps CfC-PIPsC- PSPµ PSPsCfPjP°P»C-P·CfPIP°P»PëCfCf PrPs CfCfPsPiPs CfP°CfCf.

P—P±C-P»ChCëPµPSPSCf PeC-P»ChPePsCfC,C- ECL-PeP»C-C,PëPS, PïcPsPíBf™ CfP·P°PSPµ, PjPsP¶P»PëPIPs, P·C- P·P±C-P»ChCëPµPSPSCfPj CfPëCfPsPIP°C,PePsPIPsPiPs CfC-PIPsCf PiP°CfC,CfPëPSCf, CfPiPsCfC,PµCfC-PiP°C”C,ChCfCfCf CfPe Cf PrC-C,PµPµ, C,P°Pe C- Cf PrPsCfPsCfP»PëC... Pïc-Pr CfP°Cf C,CfPëPIP°P»PsPiPs P»C-PeCfPIP°PSPSCf PsPjPµPïcCfP°P·PsP»PsPj. P’PIP°P¶P°CfC,Ch, C°Ps CfC- PrP°PSC- PSPµ PjP°CfC,Ch PeP»C-PSC-CfPSPsPiPs P·PSP°CfPµPSPSCf.

PµC-Pr CfP°Cf C,CfPëPIP°P»PsPiPs PeCfCfCfCf P»C-PeCfPIP°PSPSCf PïcPsPIC-PrPsPjP»CfP»Pë PïcCfPs PrPµC°Ps Pïc-PrPIPëC°PµPSCf CfP°CfC,PsC,Cf PïcCfPjPë P·P°P»PsP·PsPIPëC... PeC-CfC, Cf CëP»CfPSPeCf. Pïc- P·PjC-PSPë C” C,,C-P·C-PsP»PsPiC-CfPSPëPj PSP°CfP»C-PrPePsPj PIPëCfP°P¶PµPSPsPiPs PïcCfPëPiPSC-CfPµPSPSCf CfPµPeCfPµCfC-C— CfPsP»CfPSPsC— PePëCfP»PsC,Pë; CfPµPµ PïcCfPsCfPµCf C” PrPsP±CfPsCfPeC-CfPSPëPj C-, PIC-CfPsPiC-PrPSPs, PsP±PsCfPsC,PSPëPj.

P—PSPëPµPSPSCf PePëCfP»PsC,PSPsCfC,C- CëP»CfPSPePsPIPsPiPs CfPsPeCf P±CfPrCfC- CfPePëPjPë P·P°CfPsP±P°PjPë, PIPeP»CfCfP°CfCfPë C-PSPiC-P±C-C,PsCfPë PïcCfPsC,PsPSPsC— PïcPjPíPë, P·P±C-P»ChCëCfC” PeC-P»ChPeC-CfC,Ch P±P°PeC,PµCfC-Pµ Cf CëP»CfPSPeCf, C°Ps P·P°P·PIPëCfP°Pµ PïcCfPëCfCfC,PSC- Cf CëP»CfPSPePsPIPs-PePëCfPePsPIPsPjCf C,CfP°PeC,C-. P·C-PeCfPIP°PSPSCf PïcCfPµPïcP°CfP°C,P°PjPë, C°Ps P·PSPëP¶CfCfC,Ch PePëCfP»PsC,PSC-CfC,Ch, PjPsP¶Pµ PïcCfPëP·PIPsCfC,Pë PrPs PrPµC°Ps Pïc-PrPIPëC°PµPSPsPiPs CfPëP·PëPeCf CfPsP·PIPëC,PeCf C-PSC,,PµPeCfC-Pµ CëP»CfPSPePsPIPs-PePëCfPePsPIPsPiPs C,CfP°PeC,Cf,

СГРiCГPëC±PëPSPµPSPëC... *Salmonella C,P° Campylobacter*.

PαP°CГPjP°PePsPeC-PSPµC,PëPeP°.

PµPµCГPµPrP±P°C±CГPIP°PSPëP№ PsP±BГ™ C"Пj CГPSP·PïPsPrC-P»CГ CГ P·PrPsCГPSPiPëC... PrPsP±CГPSPiPSP»CHCГC-PI CГC,P°PSPSPiPëC,CH PïCГPëP±P»PëP·PSPs 0,3 P»/PePi PjP°CГPë C,C-P»P°. PhPjPµPïCГP°P·PsP» PïCГPëP±P»PëP·PSPs PSP° 97 % P·PiBГ™ CГP·CГC"С,CHCГCГC P·P±C-P»PeP°PjPë PïP»P°P·PjPë PeCГPSPiC-.

PhPjPµPïCГP°P·PsP» PïPsPIPSC-CГC,CH PjPµC,P°P±PsP»C-P·CГC"С,CHCГCГC CГPëCГC,PµPjPsCГ CГPëC,PsC...CГPSPjCГ P 450 (CYP). PhCГPSPSPiPSP° C±P°CГC,PëPSP° P№PsPiPs PjPµC,P°P±PsP»C-P·PjCГ P·P°P»PµP¶PëC,CH PIC-Pr PïPsP»C-PjPsCГC,,PSPs PµPeCГPïCГPµCГPSPiP°PSPSPiPs CYP2C19, PIC-PrPïPsPIC-PrP°P»CHPSPSPiPs P·P° CГC,PIPsCГPµPSPSCГC PïC-PrCГPSPeCГC-PsPjPµPïCГP°P·PsP»CГ, PsCГPSPSPiPSPSPiPs PjPµC,P°P±PsP»C-C,CГ CГPµC±PsPIPëPSPë CГ PïP»P°P·PjC- PeCГPSPiC-. P PµCëC,P° P·P°P»PµP¶PëC,CH PIC-Pr C-PSCëPsC— CГPïPµCГPëC,,C-C±PSPsC— C-P·PsC,,PsCГPjPë (CYP3A4), PIC-PrPïPsPIC-PrP°P»CHPSPsC— P·P° CГC,PIPsCГPµPSPSCГC PsPjPµPïCГP°P·PsP»CГ CГCГP»CHC,,PsPSCГ. P'PSP°CГP»C-PrPsPe PIPëCГPSPePsC— CГPïPsCГC-PrPSPµPSPsCГC,C- PsPjPµPïCГP°P·PsP»CГ C-P· CYP2C19 C-CГPSCГC" PjPsP¶P»PëPIC-CГC,CH PePsPSPeCГPµPSC,PSPSPiPs PïCГPëPiPSC-C±PµPSPSCГC C,P° PjPµC,P°P±PsP»C-C±PSPsC— PjC-P¶P»C-PeP°CГCГCHPePsC— PIP·P°C"ПjPsPrC-C— P· C-PSCëPëPjPë CГCГP±CГC,CГP°C,P°PjPë CYP2C19. PhPrPSP°Pe C±PµCГPµP· PSPµP·PSP°C±PSCГ CГPïPsCГC-PrPSPµPSC-CГC,CH C-P· CYP3A4 PsPjPµPïCГP°P·PsP» PSPµ PjP°C" P·PrP°C,PSPsCГC,C- PrPs PïCГPëPiPSC-C±PµPSPSCГC PjPµC,P°P±PsP»C-P·PjCГ C-PSCëPëC... CГCГP±CГC,CГP°C,C-PI CYP3A4. PъCГC-Pj C,PsPiPs, PsPjPµPïCГP°P·PsP» PSPµ C±PëPSPëC,CH PiP°P»CHPjC-PIPSsC— PrC-C— PSP° PsCГPSPSPiPSC- C,,PµCГPjPµPSC,Pë CYP.

PµCГPëP±P»PëP·PSPs CГ 3 % PïCГPµPrCГC,P°PIPSPëPeC-PI C"PICГPSPiPµPsC—PrPSPsC— CГP°CГPë C,P° CГ 15-20 % PïCГPµPrCГC,P°PIPSPëPeC-PI PjPsPSPiPsP»PsC—PrPSPsC— CГP°CГPë C,,CГPSPeCГC-PsPSP°P»CHPSPëP№ C,,PµCГPjPµPSC, CYP2C19 PIC-PrCГCГC,PSC-P№; C—C... PIC-PrPSPsCГCГC,CH PrPs C,P°Pe P·PIP°PSPëC... PïPsPIC-P»CHPSPëC... PjPµC,P°P±PsP»C-P·P°C,PsCГC-PI. Pj CГPëC... PsCГC-P± PjPµC,P°P±PsP»C-P·Pj PsPjPµPïCГP°P·PsP»CГ, PjPsP¶P»PëPIPs, PeP°C,P°P»C-P·CГC"С,CHCГCГC PïPµCГPµPIP°P¶PSPs C,,PµCГPjPµPSC,PsPj CYP3A4. PµC-CГP»CГC PïPsPIC,PsCГPSPSPiPs PïCГPëP·PSP°C±PµPSPSCГC PsPjPµPïCГP°P·PsP»CГ CГ PrPsP·C- 20 PjPi 1 CГP°P· PSP° PrPsP±CГ CГPµCГPµPrPSC" P·PSP°C±PµPSPSCГC AUC CГ PïPsPIC-P»CHPSPëC... PjPµC,P°P±PsP»C-P·P°C,PsCГC-PI CГ 5-10 CГP°P·C-PI P±C-P»CHCëPµ, PSC-P¶ PI PsCГC-P±, CГPeC- PjP°CГC,CH C,,CГPSPeCГC-PsPSP°P»CHPSPëP№ C,,PµCГPjPµPSC, CYP2C19 (CГ CëPIPëPrPePëC... PjPµC,P°P±PsP»C-P·P°C,PsCГC-PI). PъPµCГPµPrPSC- PjP°PeCГPëPjP°P»CHPSC- PePsPSCГPµPSC,CГP°CГC-C— CГ PïP»P°P·PjC- PeCГPSPiC- P±CГP»Pë C,P°PePsP¶ P±C-P»CHCë PIPëCГPSPeC- BГ" CГ 3-5 CГP°P·C-PI. PhPrPSP°Pe CГC- CГPµP·CГP»CHC,P°C,Pë PSPµ PIPïP»PëPIP°CГC,CH PSP° PrPsP·CГPIP°PSPSCГC PsPjPµPïCГP°P·PsP»CГ.

P—P°PiP°P»CHPSPëP№ PïP»P°P·PjPsPIPëP№ PeP»C-CГPµPSCГ CГC,P°PSPSPiPëC,CH PïCГPëP±P»PëP·PSPs 30-40 P»/PiPsPr PïC-CГP»CГC CГP°P·PsPIPsC— PrPsP·Pë. PµPµCГC-PsPr PSP°PïC-PIPIPëPiPµPrPµPSPSCГC PsPjPµPïCГP°P·PsP»CГ P· PïP»P°P·PjPë PeCГPSPiC- P·P°P·PIPëC±P°P№ PjPµPSCëPµ 1 PiPsPrPëPSPë CГPe PïC-CГP»CГC CГP°P·PsPIPsPiPs, C,P°Pe C- PïC-CГP»CГC PïPsPIC,PsCГPSPSPiPs P·P°CГC,PsCГCГPIP°PSPSCГC PïCГPµPïP°CГP°C,CГ 1 CГP°P· PSP° PrPsP±CГ. PhPjPµPïCГP°P·PsP» PïPsPIPSC-CГC,CH PIPëPIPsPrPëC,CHCГCГC P· PïP»P°P·PjPë PeCГPSPiC- PjC-P¶ PïCГPëP№PsPjP°PjPë PrPsP· P±PµP· C,PµPSPPrPµPSCГC-C— PrPs PSP°PePsPiPëC±PµPSPSCГC PïCГPë P№PsPiPs P·P°CГC,PsCГCГPIP°PSPSC- 1 CГP°P· PSP° PrPsP±CГ. PhP°P№P¶Pµ 80 % PrPsP·Pë PsPjPµPïCГP°P·PsP»CГ PIPëPIPsPrPëC,CHCГCГC CГ

PIPëPiP»CЏPrC- PjPµC,P°P±PsP»C-C,C-PI C-P· CГPµC±PµCҢ, P° CҢPµC€C,P° BҢ“ C-P· C„PµPeP°P»C-CЏPjPë, PiPµCҢPµPIP°P¶PSPs C€P»CЏC...PsPj CГPµPeCҢPµC†C-C— P· P¶PsPIC±CҢ.

AUC PsPjPµPiCҢP°P·PsP»Cр P·P±C-P»CHC€CрC”C,CHCГCЏ PiCҢPë PiPsPIC,PsCҢPSPsPjCр P·P°CГC,PsCГCрPIP°PSPSC- PiCҢPµPiP°CҢP°C,Cр. PiPµ P·P±C-P»CHC€PµPSPSCЏ P·P°P»PµP¶PëC,CH PIC-Pr PrPsP·Pë PiCҢPµPiP°CҢP°C,Cр C- P·P°P±PµP·PiPµC±CрC” PSPµP»C-PSC-PNёPSCр P·P°P»PµP¶PSC-CГC,CH AUC PIC-Pr PrPsP·Pë PiC-CГP»CЏ PiPsPIC,PsCҢPSPsPiPs P·P°CГC,PsCГCрPIP°PSPSCЏ PiCҢPµPiP°CҢP°C,Cр. PŷP°PeP° P·P°P»PµP¶PSC-CГC,CH PIC-Pr C±P°CГCр C,P° PrPsP·Pë P·CрPjPsPIP»PµPSP° P·PjPµPSC€PµPSPSCЏPj PiCҢPµCГPëCГC,PµPjPSPsPiPs PjPµC,P°P±PsP»C-P·PjCр C,P° CГPëCГC,PµPjPSPsPiPs PeP»C-CҢPµPSCГCр, C%Ps, PjPsP¶P»PëPIPs, CГPiCҢPëC±PëPSPµPSPs PiCҢPëPiPSC-C±PµPSPSCЏPj C„PµCҢPjPµPSC,Cр CYP2C19 PsPjPµPiCҢP°P·PsP»PsPj C,P°/P°P±Ps PNёPsPiPs PjPµC,P°P±PsP»C-C,P°PjPë (PSP°PiCҢPëPeP»P°Pr CГCрP»CHC„PsPSPsPj). PќPµ P±CрP»Ps PIPëCЏPIP»PµPSPs, C%PsP± P±CрPrCH-CЏPePëPNё C-P· PjPµC,P°P±PsP»C-C,C-PI PIPiP»PëPIP°PI PSP° CГPµPeCҢPµC†C-CҢ CГPsP»CЏPSPsC— PePëCГP»PsC,Pë C€P»CрPSPePsPIPsPiPs CГPsPeCр.

PµP°C†C-C”PSC,Pë P· PiPsCҢCзC€PµPSPSCЏPjPë C„CзPSPeC†C-PNё PiPµC±C-PSPePë.

PҢPµC,P°P±PsP»C-P·Pj PsPjPµPiCҢP°P·PsP»Cр Cр PiP°C†C-C”PSC,C-PI C-P· PiPsCҢCрC€PµPSPSCЏPjPë C„CрPSPeC†C-PNё PiPµC±C-PSPePë CГPiPsPIC-P»CHPSPµPSPëPNё, C%Ps PiCҢPëP·PIPsPrPëC,CH PrPs P·P±C-P»CHC€PµPSPSCЏ AUC. PµCҢPë P·P°CГC,PsCГCрPIP°PSPSC- PsPjPµPiCҢP°P·PsP»Cр 1 CҢP°P· PSP° PrPsP±Cр P±CрPrCH-CЏPePsC— C,PµPSPPrPµPSC†C-C— PrPs PSP°PePsPiPëC±PµPSPSCЏ PiCҢPµPiP°CҢP°C,Cр PSPµ CГPiPsCГC,PµCҢC-PiP°P»PsCГCЏ.

PµP°C†C-C”PSC,Pë P· PiPsCҢCзC€PµPSPSCЏPjPë C„CзPSPeC†C-PNё PSPëCҢPsPe.

PαP°CҢPjP°PePsPeC-PSPµC,PëPeP° PsPjPµPiCҢP°P·PsP»Cр, Cр C,PsPjCр C±PëCГP»C- CГPëCГC,PµPjPSP° P±C-PsPrPsCГC,CрPiPSC-CГC,CH C,P° C€PIPëPrPeC-CГC,CH PIPëPIPµPrPµPSPSCЏ, Cр PiP°C†C-C”PSC,C-PI P·C- P·PSPëP¶PµPSPsCҢ PSPëCҢPePsPIPsCҢ C„CрPSPeC†C-C”CҢ PSPµ P·PjC-PSCҢC”C,CHCГCЏ.

PµP°C†C-C”PSC,Pë P»C-C,PSCHPsPiPs PIC-PeCз.

PëPIPëPrPeC-CГC,CH PjPµC,P°P±PsP»C-P·PjCр PsPjPµPiCҢP°P·PsP»Cр Cр PiP°C†C-C”PSC,C-PI P»C-C,PSCHPsPiPs PIC-PeCр (75-79 CҢPsPeC-PI) PrPµC%Ps P·PSPëP¶PµPSP°.

B

PҢP»C-PSC-C±PSC- C...P°CҢP°PeC,PµCҢPëCГC,PëPePë.

PµPsPeP°P·P°PSPSCЏ.

PҥPjPµPSP°PeCГ^{B®} PrP»CЏ PIPSCрC,CҢC-C€PSCHPsPIPµPSPSPsPiPs P·P°CГC,PsCГCрPIP°PSPSCЏ PiPsPeP°P·P°PSPëPNё CЏPe P°P»CHC,PµCҢPSP°C,PëPIP° PiPµCҢPsCҢP°P»CHPSC-PNё C,PµCҢP°PiC-C— PiCҢPë PSPëP¶C±PµP·P°P·PSP°C±PµPSPëC... PiPsPeP°P·P°PSPSCЏC....

P”PsCҢPsCГP»C-

BҢ“ P>C-PeCрPIP°PSPSCЏ PIPëCҢP°P·PePë PrPIP°PSP°PrC†CЏC,PëPiP°P»PsC— PePëC€PePë.

БҲ“ РҰСҲҮPсC,,C-P»P°PeC,PëPeP° СҲҮPµC†PëPrPëPIC-PI PIPëСҲҮP°P·PePë
PrPIP°PSP°PrC†CҮC,PëPİP°P»PsC— PePëCëPePë.

БҲ“ P>C-PeCfPIP°PSPSCҮ PIPëСҲҮP°P·PePë CëP»CfPSPeP°.

БҲ“ РҰСҲҮPсC,,C-P»P°PeC,PëPeP° СҲҮPµC†PëPrPëPIC-PI PIPëСҲҮP°P·PePë CëP»CfPSPeP°.

БҲ“ PJ PePsPjP±C-PSP°C†C-C— P· PIC-PrPİPsPIC-PrPSPëPjPë P°PSC,PëP±C-PsC,PëPeP°PjPë
PrP»CҮ PµСҲҮP°PrPëPeP°C†C-C— *Helicobacter pylori* (*H. pylori*) PİСҲҮPë PIPëСҲҮP°P·PePsPIC-PNë
C...PIPsСҲҮPsP±C-.

БҲ“ P>C-PeCfPIP°PSPSCҮ PIPëСҲҮP°P·PePë CëP»CfPSPeP° C- PrPIP°PSP°PrC†CҮC,PëPİP°P»PsC—
PePëCëPePë, PİPsPIБҲ™ CҮP·P°PSPsC— C-P· P·P°CfC,PсCfCfPIP°PSPSCҮPj
PSPµCfC,PµСҲҮPsC—PrPSPëC... PİСҲҮPsC,PëP·P°PİP°P»СҲPSPëC... PİСҲҮPµPİP°СҲҮP°C,C-PI
(PкPµP—Pµ).

БҲ“ РҰСҲҮPсC,,C-P»P°PeC,PëPeP° PIPëСҲҮP°P·PePë CëP»CfPSPeP° C-
PrPIP°PSP°PrC†CҮC,PëPİP°P»PsC— PePëCëPePë, PİPsPIБҲ™ CҮP·P°PSPsC— C-P·
P·P°CfC,PсCfCfPIP°PSPSCҮPj PкPµP—Pµ Cf PİP°C†C-C”PSC,C-PI PeP°C,PµPiPsСҲҮC-C—
СҲҮPëP·PëPeCf.

БҲ“ P>C-PeCfPIP°PSPSCҮ СҲҮPµC,,P»СҲPeCf-PµP·PsC,,P°PiC-C,Cf.

БҲ“ PҮСҲҮPëPIP°P»Pµ P»C-PeCfPIP°PSPSCҮ PİP°C†C-C”PSC,C-PI P· PSPµP°PeC,PëPIPSPëPj
СҲҮPµC,,P»СҲPeCf-PµP·PsC,,P°PiC-C,PсPj.

БҲ“ P>C-PeCfPIP°PSPSCҮ CfPëPjPİC,PсPjP°C,PëC±PSPsC—
PİP°CfC,СҲҮPsPµP·PsC,,P°PiPµP°P»СҲPSPsC— СҲҮPµC,,P»СҲPeCfPSPsC— C...PIPsСҲҮPsP±Pë.

БҲ“ P>C-PeCfPIP°PSPSCҮ CfPëPSPrСҲҮPsPjCf P—PsP»P»C-PSPiPµСҲҮP°-P·P»P»C-CfPsPSP°.

B

PµСҲҮPsC,PëPİPsPeP°P·P°PSPSCҮ.

PµC-PrPIPëC%PµPSP° C±CfC,P»PëPIC-CfC,СҲ PrPs PsPjPµPİСҲҮP°P·PsP»Cf,
P·P°PjC-C%PµPSPëC... P±PµPSP·PëPjC-PrP°P·PsP»C-PI P°P±Ps PrPs P±CfPrСҲ-CҮPePsC— P·
PrPsPİPsPjC-P¶PSPëC... СҲҮPµC±PsPIPëPS.

PµPrPSPsC±P°CfPSPµ P·P°CfC,PсCfCfPIP°PSPSCҮ PsPjPµPİСҲҮP°P·PsP»Cf, CҮPe C-
C-PSCëPëC... C-PSPiC-P±C-C,PсСҲҮC-PI PİСҲҮPsC,PсPSPSPsC— PİPsPjPİPë (P†PµPµ), P·
PSPµP»C,,C-PSP°PIC-СҲҮPsPj C,P° P°C,P°P·P°PSP°PIC-СҲҮPsPj PİСҲҮPsC,PëPİPsPeP°P·P°PSPµ.

B

***P'P·P°C”PjPsPrC-CҮ P· C-PSCëPëPjPë P»C-PeP°СҲCfСҲPePëPjPë P·P°CfPsP±P°PjPë C,P°
C-PSCëC- PIPëPrPë PIP·P°C”PjPsPrC-PNë.***

*P'PİP»PëPI PsPjPµPİСҲҮP°P·PsP»Cз PSP° C,,P°СҲҮPjP°PePsPeC-PSPµC,PëPeCз C-PSCëPëC...
P»C-PeP°СҲCfСҲPePëC... P·P°CfPsP±C-PI.*

*P>C-PeP°СҲCfСҲPeC- P·P°CfPsP±Pë, PICfPjPsPeC,CзPIP°PSPSCҮ CҮPePëC...
P·P°P»PµP¶PëC,СҲ PIC-Pr СҲPк CëP»CзPSPeP°.*

P₄CT₃P₆PiPSC-C₄P₄PSPSC₄ C₆P»C₄PSPePsPIPSC— C₄P₄PeCT₃P₄C₄C— PiC-Pr C₄P₄C₄
 P»C-PeC₄PiP₄PSPSC₄ PsPjP₄PiCT₃P₄P·PsP»PsPj C, P₄ C-PSC₄PePjP₄PiCT₃P₄PiP₄CT₃P₄C, P₄PjP₄P₄
 B PiCT₃C₄PiP₄P₄P₄PjPsP₄P₄P·PSP₄P₄C₄PiP₄C, P₄P₄±Ps PiC-PrPiP₄P₄C₄C₄PiP₄C, P₄P₄
 P₄P₄±C₄P₄CT₃P₄±C₄C-CT₃ P»C-PeP₄CT₃C₄CT₃PeP₄P₄C... P·P₄C₄P₄±C-PI, PiC₄PjPsPeC, C₄PiP₄PSPSC₄
 C₄P₄PeP₄C... P·P₄P»P₄P₄P₄P₄C, CT₃PICT₃ C₄P»C₄PSPeP₄. PiPe C- C₄CT₃P₄P·C-
 P·P₄C₄C, PsC₄C₄PiP₄PSPSC₄ P· C-PSC₄PePjP₄PiCT₃P₄PiP₄CT₃P₄C, P₄PjP₄P₄, C₄Ps
 P·PjP₄PSC₄C₄CT₃C, CT₃PIPSCT₃C, CT₃C-C₄PSCT₃PsC₄P»C₄PSPePsPIC₄ PeP₄P₄C₄P»PsC, PSC-C₄C, CT₃,
 P₄P₄±C₄P₄CT₃P₄±C₄C-C₄ C, P₄PeP₄C... PiCT₃P₄PiP₄CT₃P₄C, C-PI C₄P₄Pe PeP₄C, PsPePsPSP₄P·PsP»,
 C-C, CT₃P₄PePsPSP₄P·PsP», P₄ C, P₄PePsP₄ P₄CT₃P»PsC, P₄PSC-P₄±, PjPsP₄P₄
 P·PjP₄PSC₄C₄PiP₄C, P₄C₄C₄, C, PsPrC- C₄P₄Pe PiC₄PjPsPeC, C₄PiP₄PSPSC₄ C, P₄PeP₄C...
 PiCT₃P₄PiP₄CT₃P₄C, C-PI C₄P₄Pe PrP₄PiPsPeC₄P₄P₄PS, PjPsP₄P₄ PiC-PrPiP₄P₄C₄C₄PiP₄C, P₄C₄C₄
 PiC-Pr C₄P₄C₄P»C-PeC₄PiP₄PSPSC₄ PsPjP₄PiCT₃P₄P·PsP»PsPj. PhPrPSPsC₄P₄C₄P₄PSP₄
 P·P₄C₄C, PsC₄C₄PiP₄PSPSC₄ PsPjP₄PiCT₃P₄P·PsP»C₄ (20 PjPi PSP₄ PrPsP₄±C₄) C, P₄
 PrP₄PiPsPeC₄P₄P₄PSC₄ C₄ P·PrPsCT₃PsPiP₄C... PrPsP₄±CT₃PsPiPsP»CT₃C-PI
 PiC-PrPiP₄P₄C₄C₄PiP₄P»Ps P₄±C-PsPrPsC₄C, C₄PiPSC-C₄C, CT₃ PrP₄PiPsPeC₄P₄P₄PSC₄ PSP₄ 10 %
 (C₄ PrPiPsC... C-P· PrP₄C₄C₄C, P₄ PrPsC₄P»C-PrP₄C₄PiP₄PSP₄C... PsC₄C-P₄± CT₃ PrPs 30 %).

P₄CT₃P»C,,C-PSP₄PiC-CT₃, P₄C, P₄P·P₄PSP₄PiC-CT₃.

P₄P»P₄P·PjPsPIC- CT₃C-PIPSCT- PSP₄P»C,,C-PSP₄PiC-CT₃C₄ C, P₄ P₄C, P₄P·P₄PSP₄PiC-CT₃C₄
 P·PSP₄P₄C₄CT₃C, CT₃C₄C₄ PiCT₃P₄PsPrPSPsC₄P₄C₄P₄PSPsPjC₄ P·P₄C₄C, PsC₄C₄PiP₄PSPSC- P·
 PsPjP₄PiCT₃P₄P·PsP»PsPj. PhPrPSPsC₄P₄C₄P₄PSP₄ P·P₄C₄C, PsC₄C₄PiP₄PSPSC₄
 PsPjP₄PiCT₃P₄P·PsP»C₄ C- PSP₄P»C,,C-PSP₄PiC-CT₃C₄ PiCT₃PsC, P₄PiPsPeP₄P·P₄PSP₄.

PhPrPSPsC₄P₄C₄P₄PSP₄ PiCT₃P₄P·PSP₄C₄P₄PSPSC₄ PsPjP₄PiCT₃P₄P·PsP»C₄ (40 PjPi 1 CT₃P₄P· PSP₄
 PrPsP₄±C₄) P·PSP₄P₄C₄PiP₄P»Ps C₄P₄CT₃P₄PrPSC₄ P₄PeC₄PiPsP·P₄C₄C-CT₃
 PSP₄P»C,,C-PSP₄PiC-CT₃C₄ PiCT₃P₄P₄±P»P₄P·PSPs PSP₄ 40 %, P₄ C₄P₄CT₃P₄PrPSC₄
 P₄PeC₄PiPsP·P₄C₄C-CT₃ C,,P₄CT₃PjP₄PePsP»PsPiC-C₄PSPs P₄PeC, P₄PiPSPsPiPs
 PjP₄C, P₄P₄±PsP»C-C, C₄ P₄8 P·PSP₄P₄C₄PiP₄P»P₄C₄C₄ PiCT₃P₄P₄±P»P₄P·PSPs PSP₄ 75-90 %.
 P₄P·P₄C₄PjPsPrC-C₄ C, P₄PePsP₄ PjPsP₄P₄ P₄±C₄C, P₄ P·C₄PjPsPiP»P₄PSP₄
 PiCT₃P₄PiPSC-C₄P₄PSPSC₄Pj P₄PeC, P₄PiPSPsC₄C, C- CYP2C19.

PhPrPSPsC₄P₄C₄P₄PSP₄ P·P₄C₄C, PsC₄C₄PiP₄PSPSC₄ PsPjP₄PiCT₃P₄P·PsP»C₄ P·
 P₄C, P₄P·P₄PSP₄PiC-CT₃PsPj PiCT₃PsC, P₄PiPsPeP₄P·P₄PSP₄.

PhPrPSPsC₄P₄C₄P₄PSP₄ P·P₄C₄C, PsC₄C₄PiP₄PSPSC₄ PsPjP₄PiCT₃P₄P·PsP»C₄ (40 PjPi 1 CT₃P₄P· PSP₄
 PrPsP₄±C₄) C, P₄ P₄C, P₄P·P₄PSP₄PiC-CT₃C₄ PI PrPsP·C- 300 PjPi/ CT₃P₄C, PsPSP₄PiC-CT₃C₄ PI
 PrPsP·C- 100 PjPi C₄ P·PrPsCT₃PsPiP₄C... PrPsP₄±CT₃PsPiPsP»CT₃C-PI PiCT₃P₄P·PiPsPrP₄P»Ps
 PrPs P·PSP₄P₄PSPSC₄ PSP₄ 75 % P₄PeC₄PiPsP·P₄C₄C- P₄C, P₄P·P₄PSP₄PiC-CT₃C₄.
 P₄C-PrPiP₄P₄PSPSC₄ PrPsP·P₄ P₄C, P₄P·P₄PSP₄PiC-CT₃C₄ PrPs 400 PjPi PSP₄
 PePsPjPiP₄PSC₄C₄PiP₄P»Ps PiP₄P»P₄Pi PsPjP₄PiCT₃P₄P·PsP»C₄ PSP₄ P₄PeC₄PiPsP·P₄C₄C-CT₃
 P₄C, P₄P·P₄PSP₄PiC-CT₃C₄. PhPrPSPsC₄P₄C₄P₄PSP₄ P·P₄C₄C, PsC₄C₄PiP₄PSPSC₄
 PsPjP₄PiCT₃P₄P·PsP»C₄ (20 PjPi 1 CT₃P₄P· PSP₄ PrPsP₄±C₄) P· P₄C, P₄P·P₄PSP₄PiC-CT₃PsPj C₄
 PrPsP·C- 400 PjPi/CT₃P₄C, PsPSP₄PiC-CT₃PsPj C₄ PrPsP·C- 100 PjPi C₄ P·PrPsCT₃PsPiP₄C...
 PrPsP₄±CT₃PsPiPsP»CT₃C-PI PiCT₃P₄P·PiPsPrP₄P»Ps PrPs P·PSP₄P₄PSPSC₄
 PiCT₃P₄P₄±P»P₄P·PSPs PSP₄ 30 % P₄PeC₄PiPsP·P₄C₄C- P₄C, P₄P·P₄PSP₄PiC-CT₃C₄
 PiPsCT₃C-PIPSCT₃PSs P· P₄C, P₄P·P₄PSP₄PiC-CT₃PsPj PI PrPsP·C- 300
 PjPi/CT₃P₄C, PsPSP₄PiC-CT₃PsPj PI PrPsP·C- 100 PjPi 1 CT₃P₄P· PSP₄ PrPsP₄±C₄.

P₄P₄PiPsPeC₄P₄P₄PS.

PhPrPSPsC₄P₄C₄P₄PSP₄ P»C-PeC₄PiP₄PSPSC₄ PsPjP₄PiCT₃P₄P·PsP»PsPj (20 PjPi PSP₄ PrPsP₄±C₄)

C,P° PrPëPiPsPeCÍPëPSPsPj CÍ P·PrPsCĤPsPIPëC... PrPsP±CĤPsPIPSP»CHC†C-PI
P·P±C-P»CHC€CÍPIP°P»Ps P±C-PsPrPsCÍC,CÍPİPSC-CÍC,CH PrPëPiPsPeCÍPëPSCÍ PSP° 10 %.
P C-PrPePs CĤPµC”CÍC,CĤCÍPIP°P»PëCÍCİ PIPëPiP°PrPePë C,PsPeCÍPëC†PSPsCÍC,C-,
CÍPİCĤPëC†PëPSPµPSPsC— P·P°CÍC,PsCÍCÍPIP°PSPSCİPj PrPëPiPsPeCÍPëPSCÍ. PµCĤPsC,Pµ
CÍP»C-Pr PrPsC,CĤPëPjCÍPIP°C,PëCÍCİ PsP±PµCĤPµP¶PSPsCÍC,C- PİCĤPë
PİCĤPëP·PSP°C†PµPSPSC- PIPëCÍPsPePëC... PrPsP· PsPjPµPİCĤP°P·PsP»CÍ PİP°C†C-C”PSC,P°Pj
P»C-C,PSCĤPsPiPs PIC-PeCÍ. PkPµPsP±C...C-PrPSPs PİPsCÍPëP»PëC,Pë
C,PµCĤP°PİPµPIC,PëC†PSPëPñ P»C-PeP°CĤCÍCHPePëPñ PjPsPSC-C,PsCĤPëPSPİ
PrPëPiPsPeCÍPëPSCÍ. Pj CĤP°P·C- PsPrPSPsC†P°CÍPSPsPiPs P·P°CÍC,PsCÍCÍPIP°PSPSCİ P·
PrPëPiPsPeCÍPëPSPsPj PİP°C†C-C”PSC,Pë PjP°CĤC,CH PİPµCĤPµP±CÍPIP°C,Pë PİC-Pr
CĤPµC,PµP»CHPSPëPj PSP°PİP»CİPrPsPj P»C-PeP°CĤCİ.

PµP»PsPİC-PrPsPİCĤPµP»CH.

Pj C...PsPrC- PrPsCÍP»C-PrP¶PµPSCĤ PeP»PsPİC-PrPsPİCĤPµP»CH
(PSP°PIP°PSC,P°P¶CÍPIP°P»CHPSP° PrPsP·P° BĤ” 300 PjPi P· PSP°CÍC,CÍPİPSPsCĤ PrPsP·PsCĤ
75 PjPi PSP° PrPsP±CÍ) CÍ PIPëPiP»CİPrC- PjPsPSPsC,PµCĤP°PİC-C— C,P° P·
PsPjPµPİCĤP°P·PsP»PsPj (80 PjPi PsPrPSPsC†P°CÍPSPs P· PeP»PsPİC-PrPsPİCĤPµP»PµPj)
P·P°CÍC,PsCÍPsPICÍPIP°P»Pë PİCĤPsC,CİPİPsPj 5 PrPSC-PI. PµCĤPë PsPrPSPsC†P°CÍPSPsPjCÍ
P·P°CÍC,PsCÍCÍPIP°PSPSC- PeP»PsPİC-PrPsPİCĤPµP»CĤ C,P° PsPjPµPİCĤP°P·PsP»CÍ
PµPeCÍPİPsP·PëC†C-Cİ P°PeC,PëPİPSPsPiPs PjPµC,P°P±PsP»C-C,CÍ PeP»PsPİC-PrPsPİCĤPµP»CĤ
P·PSPëP¶CÍPIP°P»P°CÍCİ PSP° 46 % (PrPµPSCĤ 1) C- PSP° 42 % (PrPµPSCĤ 5).
PŸPµCĤPµPrPSC” PİCĤPëPiPSC-C†PµPSPSCİ P°PİCĤPµPİP°C†C-C— C,CĤPsPjP±PsC†PëC,C-PI
P·PSPëP¶CÍPIP°P»PsCÍCİ PSP° 47 % (C†PµCĤPµP· 24 PİPsPrPëPSPë) C- PSP° 30 % (PrPµPSCĤ
5), PePsP»Pë PeP»PsPİC-PrPsPİCĤPµP»CH C- PsPjPµPİCĤP°P·PsP» P·P°CÍC,PsCÍPsPICÍPIP°P»Pë
CĤP°P·PsPj. Pj C...PsPrC- PİCĤPsPIPµPrPµPSPSCİ C-PSC€PsPiPs PrPsCÍP»C-PrP¶PµPSPSCİ
P±CÍP»Ps PİPsPeP°P·P°PSPs, C%Ps PİCĤPëPñPsPj PeP»PsPİC-PrPsPİCĤPµP»CĤ C,P°
PsPjPµPİCĤP°P·PsP»CÍ Pİ CĤC-P·PSPëPñ C†P°CÍ PSPµ PİPµCĤPµC€PePsPrP¶P°PI C—C...
PIP·P°C”PjPsPrC-C—, C%Ps, PñPjPsPIC-CĤPSPs, CÍPİCĤPëC†PëPSPµPSPs
C-PSPİC-P±CÍCĤC†PëPj PµC,,PµPeC,PsPj PsPjPµPİCĤP°P·PsP»CÍ PSP° CYP2C19.
PŸCÍPİPµCĤPµC†P»PëPIC- PrP°PSC- C%PsPrPs PeP»C-PSC-C†PSPëC... PİCĤPsCİPIC-PI
C†C-C”C— C,,P°CĤPjP°PePsPeC-PSPµC,PëC†PSPsC—/C,,P°CĤPjP°PePsPrPëPSP°PjC-C†PSPsC—
(PµPñ/PµP”) PIP·P°C”PjPsPrC-C— P· C,PsC†PePë P·PsCĤCÍ PsCÍPSPsPIPSPëC... CÍPµCĤC†PµPIP-
CÍCÍPrPëPSPSPëC... P·P°C...PIPsCĤCĤPIP°PSCĤ P±CÍP»Pë P·P°CĤPµC”CÍC,CĤPsPIP°PSC- Pİ
C...PsPrC- PİCĤPsPIPµPrPµPSPSCİ PrPsCÍP»C-PrP¶PµPSCĤ. PŸP°PePëPj C†PëPSPsPj, CÍP»C-Pr
CÍC,CĤPëPjCÍPIP°C,PëCÍCİ PIC-Pr PsPrPSPsC†P°CÍPSPsPiPs P·P°CÍC,PsCÍCÍPIP°PSPSCİ
PsPjPµPİCĤP°P·PsP»CÍ C,P° PeP»PsPİC-PrPsPİCĤPµP»CĤ.

P†PSC€C- P»C-PeP°CĤCÍCHPeC- P·P°CÍPsP±Pë.

P’CÍPjPsPeC,CÍPIP°PSPSCİ PİPsCÍP°PePsPSP°P·PsP»CÍ, PµCĤP»PsC,PëPSC-P±CÍ,
PePµC,PsPePsPSP°P·PsP»CÍ C,P° C-C,CĤP°PePsPSP°P·PsP»CÍ P·PSP°C†PSPs
P·PjPµPSC€CÍC”C,CHCÍCİ C-, PsC,P¶Pµ, PeP»C-PSC-C†PSP° PµC,,PµPeC,PëPİPSC-CÍC,CH
PjPsP¶Pµ PİPsCÍP»P°P±P»CĤPIP°C,PëCÍCİ. PŸP»C-Pr CÍPSPëPeP°C,Pë
PsPrPSPsC†P°CÍPSPsPiPs P·P°CÍC,PsCÍCÍPIP°PSPSCİ P· PİPsCÍP°PePsPSP°P·PsP»PsPj C-
PµCĤP»PsC,PëPSC-P±PsPj.

*P»C-PeP°CĤCÍCHPeC- P·P°CÍPsP±Pë, C%Ps PjPµC,P°P±PsP»C-P·C¿CĤC,CHCÍCİ P·
C¿C†P°CÍC,CĤ CYP2C19.*

PħPjPµPİCĤP°P·PsP» C” PİPsPjC-CĤPSPëPj C-PSPİC-P±C-C,PsCĤPsPj CYP2C19,
PsCÍPSPsPIPSPsPiPs C,,PµCĤPjPµPSC,CÍ, C%Ps PjPµC,P°P±PsP»C-P·CÍC” PsPjPµPİCĤP°P·PsP».

C-PSPrCfPePsPIP°PSPsC—) P°PiCḡPμPiP°C†C-C— C,ḡPsPjP±PsC†PëC,C-PI Cr C†PëC...
PsCfC-P± P±CrP»P° PsPrPSP°PePsPIPsCḡ Cr PiCḡCrPiP°C..., PrPμ PiCḡPëPNëPjP°P»Pë
PeP»PsPïC-PrPsPiCḡPμP»Cḡ PsPeCḡPμPjPs C,P° PeP»PsPïC-PrPsPiCḡPμP»Cḡ Cr
PePsPjP±C-PSP°C†C-C— P· P°C†PμC,PëP»CfP°P»C-C†PëP»PsPIPsCḡ PePëCfP»PsC,PsCḡ C,P°
PμP·PsPjPμPiCḡP°P·PsP»PsPj, C%Ps, PSP°PiPμPIPSPμ, PiPsCḡCfPSCḡC”C,CḡCfCḡ
PsPrPSPsC†P°CfPSPëPj PIPiPμPrPμPSPSCḡPj PSPëP·CḡPePsC— PrPsP·Pë
P°C†PμC,PëP»CfP°P»C-C†PëP»PsPIPsC— PePëCfP»PsC,Pë.

PiPëP»PsCfC,P°P·PsP».

PJ C...PsPrC- PiPμCḡPμC...CḡPμCfPSPsPiPs PrPsCfP»C-PrPμPμPSPSCḡ PIPiPμPrPμPSPSCḡ
PsPjPμPiCḡP°P·PsP»Cr PI PrPsP·C- 40 PjPi P·PrPsCḡPsPIPëPj PrPsP±CḡPsPIPsP»CḡC†CḡPj
PiC-PrPIPëC%CrPIP°P»Ps PjP°PeCfPëPjP°P»CḡPSCr PePsPSC†PμPSC,CḡP°C†C-Cḡ C,P° AUC
C†PëP»PsCfC,P°P·PsP»Cr PSP° 18 % C,P° 26 % PIC-PrPiPsPIC-PrPSPs, P° PsPrPSPsPiPs P·
PNëPsPiPs P°PeC,PëPIPSPëC... PjPμC,P°P±PsP»C-C,C-PI Bḡ” PSP° 29 % C,P° 69 %
PIC-PrPiPsPIC-PrPSPs.

PαPμPSC-C,PsC—PS.

PḡPsPSC-C,PsCḡPëPSPi PePsPSC†PμPSC,CḡP°C†C-C— C,,PμPSC-C,PsC—PSCr Cr PiP»P°P·PjC-
PeCḡPsPIC- CḡPμPePsPjPμPSPrCfC”C,CḡCfCḡ PiCḡPsPIPsPrPëC,Pë PiCḡPsC,CḡPiPsPj
PiPμCḡCëPëC... 2 C,PëPμPSC-PI PiC-CfP»Cḡ PiPsC†P°C,PeCr P»C-PeCrPIP°PSPSCḡ
PsPjPμPiCḡP°P·PsP»PsPj; C- Cr CḡP°P·C-, CḡPeC%Ps P±CrP»Ps PiCḡPsPIPμPrPμPSPs
PePsCḡPμPeC†C-Cḡ PrPsP·Pë C,,PμPSC-C,PsC—PSCr, PjPsPSC-C,PsCḡPëPSPi C,P°
PiPsPrP°P»CḡCëCr PePsCḡPμPeC†C-Cḡ PrPsP·Pë PiCḡPμPiP°CḡP°C,Cr PSPμPsP±C...C-PrPSPs
P·PrC-PNëCfPSCḡPIP°C,Pë PiC-CfP»Cḡ P·P°PeC-PSC†PμPSPSCḡ P»C-PeCrPIP°PSPSCḡ
PsPjPμPiCḡP°P·PsP»PsPj.

PkPμPIC-PrPsPjPëPNë PjPμC...P°PSC-P·Pj.

PŸP°PePIC-PSP°PIC-Cḡ.

PḡPrPSPsC†P°CfPSPμ P·P°CfC,PsCfCfPIP°PSPSCḡ PsPjPμPiCḡP°P·PsP»Cr P·
CfP°PePIC-PSP°PIC-CḡPsPj/CḡPëC,PsPSP°PIC-CḡPsPj PiCḡPëP·PIPsPrPëP»Ps PrPs
P·P±C-P»CḡCëPμPSPSCḡ CḡC-PIPSḡCḡ CfP°PePIC-PSP°PIC-CḡCr Cr PiP»P°P·PjC- PeCḡPsPIC-
PiCḡPëP±P»PëP·PSPs PrPs 70 %, C%Ps P°CfPsC†C-CḡPIP°P»PsCfCḡ P· PSP°P»PμPμPSPsCḡ
PiPμCḡPμPSPsCfPëPjC-CfC,Cḡ Cr P°P†P>-C-PSC,,C-PePsPIP°PSPëC... PiP°C†C-C”PSC,C-PI.

PŷP°PeCḡPsP»C-PjCzCf.

PμCḡPë PsPrPSPsC†P°CfPSPsPjCr P·P°CfC,PsCfCfPIP°PSPSC- PsPjPμPiCḡP°P·PsP»Cr
PiPsPIC-PrPsPjP»CḡP»Pë PiCḡPs P·P±C-P»CḡCëPμPSPSCḡ CḡC-PIPSḡCḡ
C,P°PeCḡPsP»C-PjCrCfCf PI CfPëCḡPsPIP°C,C†C- PeCḡPsPIC-. PμPsC,CḡC-P±PSPs
PiCḡPsPIPsPrPëC,Pë PiPsCfPëP»PμPSPëPNë PjPsPSC-C,PsCḡPëPSPi PePsPSC†PμPSC,CḡP°C†C-C—
C,P°PeCḡPsP»C-PjCrCfCf, P° C,P°PePsPμ C,,CrPSPeC†C-C— PSPëCḡPsPe (PeP»C-CḡPμPSCf
PeCḡPμP°C,PëPSC-PSCr) C- PiCḡPë PSPμPsP±C...C-PrPSPsCfC,C- PIC-PrPePsCḡPëPiCrPIP°C,Pë
PrPsP·CrPIP°PSPSCḡ C,P°PeCḡPsP»C-PjCrCfCf.

PḡPμC,PsC,CḡPμPeCfP°C,.

PμPsPIC-PrPsPjP»CḡP»Pë PiCḡPs PiC-PrPIPëC%PμPSPSCḡ CḡC-PIPSḡCḡ
PjPμC,PsC,CḡPμPeCfP°C,Cr Cr PrPμCḡPePëC... PiP°C†C-C”PSC,C-PI PiCḡPë
PsPrPSPsC†P°CfPSPsPjCr PiCḡPëPNëPsPjC- P· C-PSPiC-P±C-C,PsCḡP°PjPë

$\text{P}_{\mu}\text{C}\tilde{\text{H}}\text{P}\ddot{\text{e}}\text{PSP}^{\circ}\text{C}\Pi\text{IPSPsC}\tilde{\text{I}}\text{C},\text{C}-\text{P}\pm\text{C}\tilde{\text{r}}\text{PrCHb}-\text{C}\Pi\text{PePsPiPs}\text{C},\text{C}\tilde{\text{H}}\text{P}\ddot{\text{e}}\text{PIP}s\text{P}\Pi\text{PSPsPiPs}\text{C}\tilde{\text{I}}\text{P}\ddot{\text{e}}\text{PjPiC},\text{PsPjC}\tilde{\text{r}}$
 $(\text{PSP}^{\circ}\text{PiC}\tilde{\text{H}}\text{P}\ddot{\text{e}}\text{PeP}\gg\text{P}^{\circ}\text{Pr}\text{P}\cdot\text{PSP}^{\circ}\text{C}\ddagger\text{PSPsC}-\text{PjP}\ddot{\text{e}}\text{PjPsPIC}-\text{P}\gg\text{CHPSPsC}-\text{PIC},\text{C}\tilde{\text{H}}\text{P}^{\circ}\text{C},\text{P}\ddot{\text{e}}\text{PjP}^{\circ}\text{C}\tilde{\text{I}}\text{P}\ddot{\text{e}}$
 $\text{C},\text{C}-\text{P}\gg\text{P}^{\circ},\text{PiP}_{\mu}\text{C}\tilde{\text{H}}\text{C}-\text{PsPrP}\ddot{\text{e}}\text{C}\ddagger\text{PSPsPiPsPIC},\text{PsC}\tilde{\text{H}}\text{C}\tilde{\text{H}}\text{PIP}^{\circ}\text{PSPsPiPs}\text{P}\pm\text{P}\gg\text{C}\tilde{\text{H}}\text{PIP}^{\circ}\text{PSPSC}\Pi,$
 $\text{PrP}\ddot{\text{e}}\text{C}\tilde{\text{I}}\text{C},,\text{P}^{\circ}\text{PiC}-\text{C}-, \text{PeC}\tilde{\text{H}}\text{P}\ddot{\text{e}}\text{PIP}^{\circ}\text{PIPsPiPs}\text{P}\pm\text{P}\gg\text{C}\tilde{\text{H}}\text{PIP}^{\circ}\text{PSPSC}\Pi\text{P}^{\circ}\text{P}\pm\text{PsPjP}_{\mu}\text{P}\gg\text{P}_{\mu}\text{PSP}\ddot{\text{e}})\text{C},\text{P}^{\circ}$
 $\text{PiC}\tilde{\text{H}}\text{P}\ddot{\text{e}}\text{PiC}-\text{PrPsP}\cdot\text{C}\tilde{\text{H}}\text{C}-\text{P}^{\circ}\text{P}\pm\text{PsPiC}\tilde{\text{H}}\text{P}\ddot{\text{e}}\text{PSP}^{\circ}\text{C}\Pi\text{IPSPsC}\tilde{\text{I}}\text{C},\text{C}-\text{PIP}\ddot{\text{e}}\text{C}\tilde{\text{H}}\text{P}^{\circ}\text{P}\cdot\text{PeP}\ddot{\text{e}}\text{C}\epsilon\text{P}\gg\text{C}\tilde{\text{r}}\text{PSPeP}^{\circ}$

PSPμPsP±C...C-PrPSPs PIPëPeP»CñC±PëC,Pë P·P»PsCñPeC-CñPSC- PñCñC...P»PëPSPë,
PsCñPeC-P»CHPePë P»C-PeCñPIP°PSPSCñ PjPsPñPμ P·PjPμPSCëPëC,Pë
PIPëCñP°PñPμPSC-CñC,CH CñPëPjPñC,PsPjC-PI C- P·P°C,CñPëPjP°C,Pë PñPsCñC,P°PSPsPIPëCñ
PrC-P°PñPSPsP·Cñ.

Pj P·PrPsCñPsPIPëC... PrPsP±CñPsPIPpsP»CHCñC-PI PIC-PrP·PSP°CñP°P»P°CñCñ
C,,P°CñPjP°PePsPeC-PSPμC,PëCñPSP°/C,,P°CñPjP°PePsPrPëPSP°PjC-CñPSP° PIP·P°C”PjPsPrC-Cñ
PjC-Pñ PeP»PsPñC-PrPsPñCñPμP»PμPj (PSP°PIP°PSC,P°PñCñPIP°P»CHPSP° PrPsP·P° бñ” 300
PjPi/PrPsP±PsPIP° PñC-PrC,CñPëPjCñPIP°P»CHPSP° PrPsP·P° бñ” 75 PjPi) C,P°
PsPjPμPñCñP°P·PsP»PsPj (80 PjPi PSP° PrPsP±Cñ PñPμCñPsCñP°P»CHPSPs, C,PsP±C,Ps PrPsP·P°,
CñPeP° PI 4 CñP°P·Pë PñPμCñPμPIPëC%°CñC” CñC,P°PSPPrP°CñC,PSCr PrPμPSPSCñ PrPsP·Cñ),
C%°Ps PñCñPëP·PIPPrPëP»P° PrPs P·PjPμPSCëPμPSPSCñ PμPeCñPñPsP·PëCñC-C—
P°PeC,PëPIPSPsPiPs PjPμC,P°P±PsP»C-C,Cñ PeP»PsPñC-PrPsPñCñPμP»Cñ PI
CñPμCñPμPrPSCñPsPjCñ PSP° 46 % C,P° P·PjPμPSCëPμPSPSCñ PjP°PeCñPëPjP°P»CHPSPsC—
C-PSPñC-P±CñCñCñPsC— PrC-C— (PñP”Pα-C-PSPrCñPePsPIP°PSPsC—) P°PñCñPμPiP°CñC-C—
C,CñPsPjP±PsCñPëC,C-PI Cñ CñPμCñPμPrPSCñPsPjCñ PSP° 16 %.

PñPrPSPsCñP°CñPSPμ P·P°CñC,PsCñCñPIP°PSPSCñ P°C,P°P·P°PSP°PIC-CñCñ P·
C-PSPIC-P±C-C,PsCñP°PjPë PñCñPsC,PsPSPSPsPiPs PSP°CñPsCñP° PñCñPsC,PëPñPsPeP°P·P°PSPμ.
PñPeC%°Ps PePsPjP±C-PSP°CñC-C— P°C,P°P·P°PSP°PIC-CñCñ P· C-PSPIC-P±C-C,PsCñPsPj
PñCñPsC,PsPSPSPsPiPs PSP°CñPsCñP° PSPμ PjPsPñPSP° CñPSPëPePSCñC,Pë,
CñPμPePsPjPμPSPPrCñC”C,CHCñCñ CñPμC,PμP»CHPSPëPñ PeP»C-PSC-CñPSPëPñ
PjPsPSC-C,PsCñPëPSPñ (PSP°PñCñPëPeP»P°Pr PIC-CñCñCñPSPμ PSP°PIP°PSC,P°PñPμPSPSCñ) Cñ
PñPsC”PrPSP°PSPSC- P·C- P·P±C-P»CHCëPμPSPSCñPj PrPsP·PëB P°C,P°P·P°PSP°PIC-CñCñ PrPs
400 PjPi PSP° 100 PjPi CñPëC,PsPSP°PIC-CñCñ; PrPsP·P° PsPjPμPñCñP°P·PsP»Cñ PSPμ
PñPsPIPëPSPSP° PñPμCñPμPIPëC%°CñPIP°C,Pë 20 PjPi.

PñPjPμPñCñP°P·PsP», CñPe C- PICñC- P»C-PeP°CñCñCHPeC- P·P°CñPsP±Pë, C%°Ps
PñCñPëPiPSC-CñCñCñC,CH CñPμPeCñPμCñC-Cñ CñPsP»CñPSPsC— PePëCñP»PsC,Pë
CëP»CñPSPePsPiPs CñPsPeCñ, PjPsPñPμ P·PjPμPSCëPëC,Pë PICñPjPsPeC,CñPIP°PSPSCñ
PIC-C,P°PjC-PSCr P’₁₂ (CñC-P°PSPsPePsP±P°P»P°PjC-PSCr) CñPμCñPμP· PiC-PñPs- P°P±Ps
P°C...P»PsCñPiC-PrCñC-Cñ. PñPμ CñP»C-Pr PICñP°C...PsPICñPIP°C,Pë PñP°CñC-C”PSC,P°Pj P·
PeP°C...PμPeCñC-C”Cñ P°P±Ps C,,P°PeC,PsCñP°PjPë CñPëP·PëPeCñ C%°PsPrPs
P·PSPëPñPμPSPSCñ PICñPjPsPeC,CñPIP°PSPSCñ PIC-C,P°PjC-PSCr P’₁₂ PñCñPë
PrPsPiPiPsC,CñPëPIP°P»C-Pñ C,PμCñP°PiC-C—.

PñPjPμPñCñP°P·PsP» C” C-PSPIC-P±C-C,PsCñPj CYP2C19. PñP° PñPsCñP°C,PeCñ P°P±Ps PñCñPë
P·P°PeC-PSCñPμPSPSC- P»C-PeCñPIP°PSPSCñ PsPjPμPñCñP°P·PsP»PsPj PSPμPsP±C...C-PrPSPs
CñPsP·PiP»CñPSCñC,Pë PjPsPñP»PëPIC-CñC,CH PIP·P°C”PjPsPrC-C— P·
P»C-PeP°CñCñCHPePëPjPë P·P°CñPsP±P°PjPë, C%°Ps PjPμC,P°P±PsP»C-P·CñCñC,CHCñCñ P·
CñCñP°CñC,Cñ CYP2C19. P’P·P°C”PjPsPrC-Cñ CñPñPsCñC,PμCñC-PiP°C”C,CHCñCñ PjC-Pñ
PeP»PsPñC-PrPsPñCñPμP»PμPj C,P° PsPjPμPñCñP°P·PsP»PsPj. PñP»C-PSC-CñPSP°
P·PSP°CñCñC%°C-CñC,CH CñC-C”C— PIP·P°C”PjPsPrC-C— P·P°P»PëCëP°C”C,CHCñCñ
PSPμCñCñPSPsCñ. PñPe P·P°PñPsP±C-PñPSPëPñ P·P°C...C-Pr PSPμPsP±C...C-PrPSPs
CñPSPëPeP°C,Pë PsPrPSPsCñP°CñPSPsPiPs P·P°CñC,PsCñCñPIP°PSPSCñ PsPjPμPñCñP°P·PsP»Cñ
C- PeP»PsPñC-PrPsPñCñPμP»Cñ.

P»C-PeCñPIP°PSPSCñ C-PSPIC-P±C-C,PsCñP°PjPë PñCñPsC,PsPSPSPsPiPs PSP°CñPsCñP°
PjPsPñPμ PñCñPëP·PiPμCñC,Pë PrPs PrPμC%°Ps PñC-PrPIPëC%°PμPSPsPiPs CñPëP·PëPeCñ
CñPsP·PiPëC,PeCñ C-PSC,,PμPeCñC-Pñ C,CñP°PiPSPsPiPs C,CñP°PeC,Cñ, C,P°PePëC... CñPe
Salmonella C,P° Campylobacter.

P—P°CfC,PsCfCfPIP°PSPSCЦ P†PμPμ, PsCfCfPsP±P»PëPIPs Cр PIPëCfCfPsPePëC... PrPsP·P°C... C,P°
CfPïCЦPsPrPsPIP¶ C,ЦPëPPIP°P»PsPiPs C†P°CfCfB (> 1 ЦPSPeCf), PrPμC%Ps
PiC-PrPIPëC%CfC” ЦPëP·PëPe PiPμЦPμP»PsPjC-PI CfC,PμPiPSP°, P·P°Piбґ™ CЦCfC,CЦ C,P°
C...ЦPμP±C,P°, PI PsCfCfPSPsPIPSPsPjCf Cр PïP°C†C-C”PSC,C-PI P»C-C,PSCнPsPiPs PIC-PeCf
P°P±Ps Cр ЦP»P·C- PSP°CЦPIPSpSCfC,C- C-PSC€PëC... C,,P°PeC,PsCЦC-PI ЦPëP·PëPeCf.
P—P° PrP°PSPëPjPë PrPsCfP»C-PrP¶PμPSCн, P†PμPμ PiC-PrPIPëC%CfCнC,н ЦPëP·PëPe
PiPμЦPμP»PsPjC-PI P·P°PiP°P»PsPj PSP° 10бґ”40 %. Pj PrPμCЦPePëC... PIPëPiP°PrPeP°C... C†Pμ
PiPsPiбґ™ CЦP·P°PSPs P· PSP°CЦPIPSpSC-CfC,н Cр PïP°C†C-C”PSC,P° C-PSC€PëC...
C,,P°PeC,PsCЦC-PI ЦPëP·PëPeCf. PμP°C†C-C”PSC,P°Pj C-P· ЦPëP·PëPePsPj
PsCfC,PμPsPiPsЦPSP·Cр CfP»C-Pr P·P°P±PμP·PiPμC†PëC,Pë PSP°P»PμP¶PSPμ
P»C-PeCfPIP°PSPSCЦ C,P° P°PrPμPePIP°C,PSPμ P·P°CfC,PsCfCfPIP°PSPSCЦ PIC-C,P°PjC-PSCf
D C- PeP°P»нC†C-н.

PïPe C- PiCЦPë P±CfPrнC-ЦIPePsPjCf PrPsPiPiPsCfC,ЦPSPePsPIPsPjCf P»C-PeCfPIP°PSPSC-,
PsCfCfPsP±P»PëPIPs PePsP»Pë PiPμЦC-PsPr P»C-PeCfPIP°PSPSCЦ PsPjPμPiCЦP°P·PsP»PsPj
PiPμЦPμPIPëC%CfC” 1 ЦC-Pe, PiP°C†C-C”PSC,P°Pj PiPsC,ЦC-P±PμPS PjPμPrPëC†PSPëPн
PSP°PiP»CЦPr C,P° ЦPμPiCfP»CЦЦPSPμ P»P°P±PsCЦP°C,PsCЦPSPμ PIPëP·PSP°C†PμPSPSCЦ
PIPjC-CfC,Cр PjP°PiPSC-н C- PeP°P»нC†C-н Cр CfPëCЦPsPIP°C,C†C- PeCЦPsPIC-.

Pj C...PIPsCЦPëC..., CЦPeC- PiCЦPëPнPjP°нC,н P†PμPμ, PIPeP»нC†P°нC†Pë
PsPjPμPiCЦP°P·PsP», CрPiCЦPsPrPsPIP¶ C%PsPSP°PнPjPμPSC€Pμ 3 PjC-CfCЦ†C-PI, PjPsP¶Pμ
PIPëPSPëPePSCfC,Pë CfCfC,C,C”PIP° PiC-PiPsPjP°PiPSC-C”PjC-CЦ (Cр P±C-P»нC€PsCfC,C-
PIPëPiP°PrPeC-PI PiC-PiPsPjP°PiPSC-C”PjC-C— PiP°C†C-C”PSC,Pë P·P°CfC,PsCfCfPICfPIP°P»Pë
PiCЦPμPiP°CЦP°C, PiCЦPëP±P»PëP·PSPs 1 ЦC-Pe).

PμC-CfP»CЦ PIC-PrPjC-PSPë PiCЦPμPiP°CЦP°C,Cр ЦC-PIPμPSCн
CfPëCЦPsPIP°C,PePsPIPsPiPs PjP°PiPSC-н PiPsPiPμЦC,P°PICfCЦ PrPs PSPsCЦPjPë. P”P»CЦ
PeP»C-PSC-C†PSPsC— PeP°CЦC,PëPSPë PiC-PiPsPjP°PiPSC-C”PjC-C— C...P°CЦP°PeC,PμCЦPSPμ:
P·P±C-P»нC€PμPSPSCЦ PSPμCЦPIPsPIPs-Pjбґ™ CЦP·PsPIPsC— P·P±CfPrP»PëPIPsCfC,C-,
CЦPeP° PiCЦPsCЦPIP»CЦC”C,нCfCfCЦ CfPïP°P·PjPsPj Pjбґ™ CЦP·C-PI PePëCfC,PμPн C-
CfC,PsPi, ЦCfC...PsPIPëPj P·P±CfPrP¶PμPSPSCЦPj; C,P°C...C-PeP°CЦPrC-C”н,
P°CЦPëC,PjC-C”н CfPμCЦ†CЦ, PiC-PrPIPëC%PμPSPSCЦPj P°CЦC,PμCЦC-P°P»нCнPSPsPiPs
C,PëCfPeCf; PrPëCfC,ЦPSPsC,,C-C†PSPëPjPë ЦPSP·P»P°PrP°PjPë Cр PIPëPiP»CЦPrC-
C,ЦPSPsC,,C-C†PSPëC... PμCЦPsP·C-Pн C- PIPëCЦP°P·PsPe C€PeC-ЦPë. PнCЦPëC,PμCЦC-Pн
PICfC,P°PSPsPIP»PμPSPSCЦ PrC-P°PiPSPsP·Cр PiC-PiPsPjP°PiPSC-C”PjC-C— бґ”
P·PSPëP¶PμPSPSCЦ PePsPSC†PμPSC,ЦP°C†C-C— PjP°PiPSC-н Cр CfPëCЦPsPIP°C,C†C-
PeCЦPsPIC- PjPμPSC€Pμ 1 PjP·PePI/P». PнCЦC-Pj C,PsPiPs, P±CfP»Pë PIPëCЦPIP»PμPSC-
PIPëPiP°PrPePë, PePsP»Pë PiC-PiPsPjP°PiPSC-C”PjC-CЦ PiCЦPëP·PIPsPrPëP»P° PrPs
CЦPsP·PIPëC,PeCf PiC-PiPsPeP°P»нC†C-C”PjC-C—, P·CfPjPsPIP»PμPSPsC—
PiCЦPëPiPSC-C†PμPSPSCЦPj CfPμPeCЦPμC†C-C— PiP°CЦP°C,PiPsCЦPjPsPSCf PI CфPjPsPIP°C...
PSPëP·нCнPePsPiPs PIPjC-CfC,Cр PjP°PiPSC-н PI PsCЦPiP°PSC-P·PjC-. Pj PrPμCЦPePëC...
PiP°C†C-C”PSC,C-PI CfPiPsCfC,PμCЦC-PiP°PICfCЦ C,CЦP¶PePëPн PiPμЦPμP±C-Pi
PiC-PiPsPeP°P»нC†C-C”PjC-C— C- PiC-PiPsPjP°PiPSC-C”PjC-C—, P· CЦPsP·PIPëC,PePsPj
CfCfPrPsPjPSPsPiPs CfPëPSPrCЦPsPjCf, PiPsCЦCfC€PμPSPSCЦPj ЦPëC,PjCf CfPμCЦ†CЦ,
C,PμC,P°PSC-C”н, PiCfPëC...C-C†PSPëPjPë PiPsCЦCfC€PμPSPSCЦPjPë C- C,CЦP¶PePëPj
P±P»нCнPIP°PSPSCЦPj, C%Ps PiCЦPëP·PIPsPrPëP»Ps PrPs PiPsCЦCfC€PμPSPSCЦ
PμP»PμPeC,ЦPSP»C-C,PSPsPiPs P±P°P»P°PSCfCf.

PμC-Pr C†P°Cf P»C-PeCfPIP°PSPSCЦ P°PSC,PëCfPμPeCЦPμC,PsCЦPSPëPjPë
PiCЦPμPiP°CЦP°C,P°PjPë PePsPSC†PμPSC,ЦP°C†C-CЦ PiP°CfC,ЦPëPSCf Cр PiP»P°P·PjC-
PeCЦPsPIC- P·P±C-P»нC€CfC”C,нCfCfCЦ Cр ЦPμP·CfP»нC,P°C,C- P·PSPëP¶PμPSPSCЦ
CfPμPeCЦPμC†C-C— CfPsP»CЦPSPsC— PePëCfP»PsC,Pë. P’PSP°CfP»C-PrPsPe

P·PSPëP¶PµPSPSC¼ CÍPµPeCĤPµC†C-C— CÍPsP»C¼PSPsC— PePëCÍP»PsC,Pë
P·P±C-P»CHC€CÍC”C,CHCÍC¼ CĤC-PIPµPSCĤ CgPĥ. P—P±C-P»CHC€PµPSPSC¼
PePsPSC†PµPSC,CĤP°C†C-C— CgPĥ PjPsP¶Pµ PIPİP»PëPIP°C,Pë PSP° CĤPµP·CÍP»CHC,P°C,Pë
PrPsCÍP»C-PrP¶PµPSCĤ PrP»C¼ PIPëC¼PIP»PµPSPSC¼
PSPµPNëCĤPsPµPSPPrPsPeCĤPëPSPSPëC... PİCÍC...P»PëPS. P”P»C¼ P·P°PİPsP±C-PİP°PSPSC¼
C,P°PePsPİPs PIPİP»PëPICÍ PSPµPsP±C...C-PrPSPs PİCĤPëPİPëPSPëC,Pë PİCĤPëPNëPsPj P†PµPµ
P·P° 5 PrPSC-PI PrPs PİCĤPsPIPµPrPµPSPSC¼ PIPëP·PSP°C†PµPSPSC¼ CĤC-PIPSC¼ CgPĥ.
PİPeC%Ps CĤC-PIPSC- CgPĥ C,P° PİP°CÍC,CĤPëPSCÍ PSPµ PİPsPIPµCĤPSCÍP»PëCÍC¼ PrPs
CĤPµC„PµCĤPµPSC,PSPëC... P·PSP°C†PµPSCĤ PİC-CÍP»C¼ PİPsC†P°C,PePsPIPëC...
PIPëPjC-CĤC-PI, PIPëPjC-CĤCĤPIP°PSPSC¼ CÍP»C-Pr PİPsPIC,PsCĤPëC,Pë C†PµCĤPµP· 14
PrPSC-PI PİC-CÍP»C¼ PIC-PrPjC-PSPë P»C-PeCÍPIP°PSPSC¼ P†PµPµ.

PµC-PrPİPsCÍC,CĤPëPNë C€PeC-CĤPSPëPNë C†PµCĤPIPSPSPëPNë PİPsPIC†P°Pe (PµPëPŞP’)

P—P°CÍC,PsCÍCÍPIP°PSPSC¼ P†PµPµ PjPsP¶Pµ P±CÍC,Pë PİPsPİbĤ™ C¼P·P°PSPµ P· PrCÍP¶Pµ
CĤC-PrPeC-CÍPSPëPjPë PIPëPİP°PrPeP°PjPë PµPëPŞP’. PİPeC%Ps PIPëPSPëPeP°CĤC,CH
PİPsC€PePsPrP¶PµPSPSC¼, PsCÍPsP±P»PëPİPs PSP° PrC-P»C¼PSPeP°C... C€PeC-CĤPë, C%Ps
PİC-PrPrP°CĤC,CHCÍC¼ PIPİP»PëPICÍ CÍPsPSC†C¼, C- C¼PeC%Ps PİPsPSPë
CÍCÍPİCĤPsPİPsPrP¶CÍCĤC,CHCÍC¼ P°CĤC,CĤP°P»PİC-C”CĤ, PİP°C†C-C”PSC, PİPsPIPëPSPµPS
PSPµPİP°PNëPSPs P·PIPµCĤPSCÍC,PëCÍC¼ P·P° PjPµPrPëC†PSPsCĤ PrPsPİPsPjPsPİPsCĤ, P°
PjPµPrPëC†PSPëPNë PİCĤP°C†C-PIPSPëPe PİPsPIPëPSPµPS CĤPsP·PİP»C¼PSCÍC,Pë
PİPëC,P°PSPSC¼ PİCĤPs PİCĤPëPİPëPSPµPSPSC¼ P·P°CÍC,PsCÍCÍPIP°PSPSC¼
PsPjPµPİCĤP°P·PsP»CÍ. PĥP°C¼PIPSC-CÍC,CH Pİ P°PSP°PjPSPµP·C- PİP°C†C-C”PSC,P° PµPëPŞP’
PİC-CÍP»C¼ PİPsPİPµCĤPµPrPSCĤPsPİPs P»C-PeCÍPIP°PSPSC¼ P†PµPµ P·P±C-P»CHC€CÍC”
CĤPëP·PëPe PIPëPSPëPePSPµPSPSC¼ PµPëPŞP’ CÍ CĤP°P·C- P·P°CÍC,PsCÍCÍPIP°PSPSC¼
C-PSC€PëC... P†PµPµ.

PµPsCĤCÍC€PµPSPSC¼ C„CÍPSPeC†C-C— PSPëCĤPsPe

P”PsCÍC,CĤPëPNë C,CÍP±CÍP»PsC-PSC,PµCĤCÍC,PëC†C-P°P»CHPSPëPNë PSPµC„CĤPëC,
(P”PÿP†Pĥ) CÍPİPsCÍC,PµCĤC-PİP°PICÍC¼ CÍ PİP°C†C-C”PSC,C-PI, C¼PeC- PİCĤPëPNëPjP°P»Pë
PsPjPµPİCĤP°P·PsP», C- PjPsP¶Pµ PIPëPSPëPePSCÍC,Pë Pİ P±CÍPrCH-C¼PePëPNë PjPsPjPµPSC,
PİC-Pr C†P°CÍ C,PµCĤP°PİC-C— PsPjPµPİCĤP°P·PsP»PsPj (PrPëPI. CĤPsP·PrC-P»
B«PµPsP±C-C†PSC- CĤPµP°PeC†C-C—B»). P”PsCÍC,CĤPëPNë
C,CÍP±CÍP»PsC-PSC,PµCĤCÍC,PëC†C-P°P»CHPSPëPNë PSPµC„CĤPëC, PjPsP¶Pµ
PİCĤPsPİCĤPµCÍCÍPIP°C,Pë PrPs PSPëCĤPePsPİPsC— PSPµPrPsCÍC,P°C,PSPsCÍC,C-.

PµCĤPë PİC-PrPsP·CĤC- PSP° P”PÿP†Pĥ CÍP»C-Pr PİCĤPëPİPëPSPëC,Pë PİCĤPëPNëPsPj
PsPjPµPİCĤP°P·PsP»CÍ C,P° PSPµPİP°PNëPSPs CĤPsP·PİPsC†P°C,Pë PIC-PrPİPsPIC-PrPSPµ
P»C-PeCÍPIP°PSPSC¼.

PİPµPNë P»C-PeP°CĤCÍCHPePëPNë P·P°CÍC-P± PjC-CÍC,PëC,CH PjPµPSC€Pµ 1 PjPjPsP»CH (23
PjPİ)/PrPsP·CÍ PSP°C,CĤC-CĤ, C,PsP±C,Ps PİCĤP°PeC,PëC†PSPs PIC-P»CHPSPëPNë PIC-Pr
PSP°C,CĤC-CĤ.

B

*P—P°CÍC,PsCÍCÍPIP°PSPSC¼ C¿ PİPµCĤC-PsPr PIP°PİC-C,PSPsCÍC,C- P°P±Ps
PİPsPrC¿PIP°PSPSC¼ PİCĤC¿PrPrCĤ.*

P·C„PµPeC,PëPIPSC-CÍC,CH C,P° P±PµP·PİPµPeP° P·P°CÍC,PsCÍCÍPIP°PSPSC¼

PsPjPμPīCḡP°P·PsP»Cř PIP°PiC-C,PSPëPjPë PSPμ PICřC,P°PSPsPIP»PμPSC-, C,PsPjCř
PīCḡPμPīP°CḡP°C, PSPμ CḡPμPePsPjPμPSPřCřC”C,CHCřCı PīCḡPëP·PSP°C‡P°C,Pë Cř
PīPμCḡC-PsPr PIP°PiC-C,PSPsCřC,C-.

PhPjPμPīCḡP°P·PsP» PīCḡPsPSPëPeP°C” Cř PiCḡCřPrPSPμ PjPsP»PsPePs, P°P»Pμ PNëPsPiPs
PIPīP»PëPI PSP° PrPëC,PëPSCř PSPμPIC-PrPsPjPëPNë, C,PsPjCř PSPμ
CḡPμPePsPjPμPSPřCřC”C,CHCřCı P·P°CřC,PsCřPsPICřPIP°C,Pë PīCḡPμPīP°CḡP°C, Cř
PīPμCḡC-PsPr PiPsPrCřPIP°PSPSCı PīCḡCřPrPrCḡ.

B

*P—PrP°C,PSC—CřC,CH PIPīP»PëPIP°C,Pë PSP° CëPIPëPrPeC—CřC,CH CḡPμP°PeC‡C-C— PīCḡPë
PePμCḡC¿PIP°PSPSC- P°PIC,PsC,CḡP°PSCřPīPsCḡC,PsPj P°P±Ps C-PSCëPëPjPë
PjPμC...P°PSC-P·PjP°PjPë.*

PḡP°P»PsPNëPjPsPIC-CḡPSPs, C%Ps PsPjPμPīCḡP°P·PsP» PIPīP»PëPIP°C” PSP°
P·PrP°C,PSC—CřC,CH PePμCḡCřPIP°C,Pë P°PIC,PsC,CḡP°PSCřPīPsCḡC,PsPj P°P±Ps
C-PSCëPëPjPëB PjPμC...P°PSC-P·PjP°PjPë. PhPsP¶CřC,CH CřPīPsCřC,PμCḡC-PiP°C,PëCřCı
C,P°PeC- PSPμP±P°P¶P°PSC- CḡPμP°PeC‡C-C— PSP° P·P°CřC,PsCřCřPIP°PSPSCı
PīCḡPμPīP°CḡP°C,Cř CıPe P·P°PīP°PjPsCḡPsC‡PμPSPSCı C- PīPsCḡCřCëPμPSPSCı P·PsCḡCř.
PīPeC%Ps C,P°PeC- CḡPsP·P»P°PrPë CřPīPsCřC,PμCḡC-PiP°CḡC,CHCřCı, PīP°C‡C-C”PSC,Pë
PSPμ PīPsPIPëPSPSC- PePμCḡCřPIP°C,Pë P°PIC,PsC,CḡP°PSCřPīPsCḡC,PsPj P°P±Ps
C-PSCëPëPjPë PjPμC...P°PSC-P·PjP°PjPë.

B

PŸPīPsCřC-P± P·P°CřC,PsCřC¿PIP°PSPSCı C,P° PrPsP·Pë.

P”PsP·CřPIP°PSPSCı.

PhP»CHC,PμCḡPSP°C,PëPIP° PīPμCḡPsCḡP°P»CHPSC-PNë C,PμCḡP°PīC-C—.

PμP°C‡C-C”PSC,P°Pj, PrP»Cı CıPePëC... PīPμCḡPsCḡP°P»CHPSP° C„PsCḡPjP°
PīCḡPμPīP°CḡP°C,Cř C” PSPμPīCḡPëPNëPSCıC,PSPsCḡ, CḡPμPePsPjPμPSPřCřCḡC,CH
P·P°CřC,PsCřPsPICřPIP°C,Pë PhPjPμPSP°PeCř^{B®} 40 PjPi 1 CḡP°P· PSP° PrPsP±Cř
PIPSCřC,CḡC-CëPSCḡPsPIPμPSPSPs. PμP°C‡C-C”PSC,P°Pj C-P· CřPëPSPřCḡPsPjPsPj
P—PsP»P»C-PSPiPμCḡP°P·P»P»C-CřPsPSP° CḡPμPePsPjPμPSPřPsPIP°PSP° PīPsC‡P°C,PePsPIP°
PrPsP·P° PīCḡPμPīP°CḡP°C,Cř PhPjPμPSP°PeCř^{B®}, CıPeCř CřP»C-Pr PIPiPsPrPëC,Pë
PIPSCřC,CḡC-CëPSCḡPsPIPμPSPSPs, CřC,P°PSPsPIPëC,CH 60 PjPi PSP° PrPsP±Cř. PhPsP¶Pμ
PIPëPSPëPePSCřC,Pë PīPsC,CḡPμP±P° Cř P±C-P»CHCë PIPëCřPsPePëC... PrPsP±PsPIPëC...
PrPsP·P°C..., C,PsPjCř PrPsP·Cř CřP»C-Pr PīC-PrP±PëCḡP°C,Pë C-PSPřPëPIC-PrCřP°P»CHPSPs.
PīPeC%Ps PrPsP·P° PīPμCḡPμPIPëC%CřC” 60 PjPi PSP° PrPsP±Cř, C—C— CřP»C-Pr
CḡPsP·PrC-P»PëC,Pë PīPsCḡC-PIPSCř PSP° PrPIC- C‡P°CřC,PëPSPë C,P° PīCḡPëPNëPjP°C,Pë 2
CḡP°P·Pë PSP° PrPsP±Cř.

PhPjPμPSP°PeCř^{B®} CřP»C-Pr PIPiPsPrPëC,Pë PIPSCřC,CḡC-CëPSCḡPsPIPμPSPSPs Cř
PIPëPiP»CıPrC- C-PSC,,CřP·C-C— PīCḡPsC,CıPiPsPj 20-30 C...PIPëP»PëPs.

PμCḡPë PIPSCřC,CḡC-CëPSCḡPsPIPμPSPSPëC... C-PSḡ[™]C”PeC‡C-CıC... PIPjC-CřC,
PePsP¶PSPsPiPs C„P»P°PePsPSP° PhPjPμPSP°PeCř^{B®} 40 PjPi CḡPsP·C‡PëPSCıCḡC,CH Cř 10 PjP»
CřC,PμCḡPëP»CHPSPsC— PIPsPrPë (P°P±Ps 0,9 % CḡPsP·C‡PëPSC- PSP°C,CḡC-Cḡ
C...P»PsCḡPëPrCř) PrP»Cı C-PSḡ[™]C”PeC‡C-PNë. P—P°CřC-P± Cř PIPëPiP»CıPrC-
PIPSCřC,CḡC-CëPSCḡPsPIPμPSPSPsC— C-PSḡ[™]C”PeC‡C-C— CřP»C-Pr PIPiPsPrPëC,Pë

PIPsPIC-P»CHPSPs (PiCTHPsC,CIPiPsPj 5 C...PIP»P»P»PS).

PtPSCfC,CtCrPeCtC-CI C%PsPrPs PIC-PrPSPsPIP»PμPSPSCII PiCTHPμPiP°CTHP°C,Cr
PiPμCTHPμPr PIPμPrPμPSPSCIIPIj

PJPIPμCfCH PIPjC-CfC, PePsP¶PSPsPiPs C„P»P°PePsPSP° CfP»C-Pr CTHPsP·CtP»PSP»C,P»
PiCTHP»P»P»P»PSPs PI PsP±bT™C”PjC- 5 PjP», P° PiPsC,C-Pj PsPrCTHP°P·Cr P¶
CTHPsP·PIPμCfC,P» PI PsP±bT™C”PjC- PrPs 100 PjP». PkPμPsP±C...C-PrPSPs
PIP»PePsCTHP»CfC,PsPICfPIP°C,P» 0,9 % CTHPsP·CtP»PS C...P»PsCTHP»PrCr PSP°C,CTHC-CH
P°P±Ps

5 % CTHPsP·CtP»PS PiP»CHPePsP·P». PŸC,P°P±C-P»CHPSC-CfC,CH PsPjPμPiCTHP°P·PsP»Cr
P·P°P»PμP¶P»C,CH PIC-Pr CTHPk CTHPsP·CtP»PSCr PrP»CI C-PSC„CrP·C-C—, C,PsPjCr PrP»CI
CTHPsP·PIPμPrPμPSPSCII PSPμ CfP»C-Pr P·P°CfC,PsCfPsPICfPIP°C,P» C-PSC»P»P»
CTHPsP·CtP»PSPSP»P°P±Ps C-PSC»Cr P»PsPiPs PeC-P»CHPeC-CfC,CH.

PμC-PrPiPsC,PsPIPeP°.

1.P—P° PrPsPiPsPjPsPiPsCH C»PiCTHP»CtP° PIC-PrC-P±CTHP°C,P» 5 PjP» CTHPsP·CtP»PSCr
PrP»CI C-PSC„CrP·C-C— P·C- CfC,P°PjC-P»C-P»C-C,CTHPsPiPsC— PiP»CI C»P»P» P°P±Ps
PjC-C»P»P° PrP»CI C-PSC„CrP·C-C—.

2.P”PsPrP°C,P» CtPμPN» PsP±bT™C”Pj PrPs C„P»P°PePsPSP° P· P»C-PsC„C-P»C-P·PsPIP°PSP»Pj
PsPjPμPiCTHP°P·PsP»PsPj, CTHPμC,PμP»CHPSPs PiPμCTHPμPjC-C»P°C,P»,
PiPμCTHPμPePsPSP°PIC»P»CfCH, C%Ps PIPμCfCH PiCTHPμPiP°CTHP°C, CTHPsP·CtP»PSP»PICfCI.

3.P’C-PrC-P±CTHP°C,P» CTHPsP·CtP»PS PsPjPμPiCTHP°P·PsP»Cr PSP°P·P°Pr Cr C»PiCTHP»Ct.

4.PμPμCTHPμPSPμCfC,P» CTHPsP·CtP»PS Cr PjC-C»PsPe P°P±Ps PiP»CI C»P»Cr PrP»CI
C-PSC„CrP·C-C—.

5.PμPsPIC,PsCTHP»C,P» PμC,P°PiP» 1bT”4, C%PsP± PiPμCTHPμPePsPSP°C,P»CfCI, C%Ps
CrPIPμCfCH PsP±bT™C”Pj PsPjPμPiCTHP°P·PsP»Cr PiPμCTHPμPSPμCfPμPSPs P· C„P»P°PePsPSP°
Cr PjC-C»PsPe P°P±Ps PiP»CI C»P»Cr PrP»CI C-PSC„CrP·C-C—.

*P»P»CHC,PμCTHPSP°C,P»PIPS»PN» PjPμC,PsPr PiC-PrPiPsC,PsPIPeP» CTHPsP·CtP»PSCz PrP»CI
C-PSC„CzP·C-PN» PI PμP»P°CfC,P»CtPSPsPjCz PePsPSC,PμPN»PSPμCTHC—.*

1. P”PIPsCfC,PsCTHPsPSPSCH PiPsP»PeCr-PiPμCTHPμC...C-PrPSP»Pe PiCTHP»C”PrPSP°C,P» PrPs
C-PSbT™C”PeCtC-PN»PSPsC— PjPμPjP±CTHP°PSP»PjC-C»P»P° PrP»CI C-PSC„CrP·C-C—.
PμC-PrPeP»CHCtP»C,P» C-PSC»P»PN» PeC-PSPμCtCH PiPsP»PeP» PrPs C„P»P°PePsPSP° P·
P»C-PsC„C-P»C-P·PsPIP°PSP»Pj PsPjPμPiCTHP°P·PsP»PsPj.
2. P PsP·CtP»PSP»C,P» CfCfP±CfC,P°PSCtC-CH PsPjPμPiCTHP°P·PsP»Cr C»P»CI C...PsPj
PiCTHPsPeP°CtP»PIP°PSPSCII C-PSC„CrP·C-PN»PSPsPiPs CTHPsP·CtP»PSCr PIPiPμCTHPμPr-
PSP°P·P°Pr PjC-P¶ PjC-C»PsPj PrP»CI C-PSC„CrP·C-C— C- C„P»P°PePsPSPsPj.
3. PμPμCTHPμPePsPSP°C,P»CfCI Cr C,PsPjCr, C%Ps PIPμCfCH PiCTHPμPiP°CTHP°C,
CTHPsP·CtP»PSP»PICfCI.

PkC,CTHP»PjP°PSP»PN» CTHPsP·CtP»PS PSPμPsP±C...C-PrPSPs PIP»PePsCTHP»CfC,P°C,P» PrP»CI
PiCTHPsPiPμPrPμPSPSCII PIPSCfC,CTHC-C»PSCHsPiPμPSPSPsC— C-PSC„CrP·C-C—
PiCTHPsC,CIPiPsPj 20-30 C...PIP»P»P»PS.

P’CrPrCH-CIP»P»PN» PSPμPIP»PePsCTHP»CfC,P°PSP»PN» P»C-PeP°CTHCfCHPeP»PN» P·P°CfC-P±

P°P±Ps PIC-PrC...PsPrPë PïPsC,CḡC-P±PSPs CḡC,PëP»C-P·CḡPIP°C,Pë PIC-PrPïPsPIC-PrPSPs
PrPs PjC-CḡC†PµPIPëC... PIPëPjPsPi.

PµPsCḡCḡC€PµPSPSCḡ C,,CḡPSPeC†C-PNë PSPëCḡPsPe.

PḡPsCḡPµPeC†C-Cḡ PrPsP·Pë PSPµ PïPsC,CḡC-P±PSP° PrP»Cḡ PïP°C†C-C”PSC,C-PI P·
PïPsCḡCḡC€PµPSPSCḡPjPë C,,CḡPSPeC†C-PNë PSPëCḡPsPe.

PµPsCḡCḡC€PµPSPSCḡ C,,CḡPSPeC†C-PNë PïPµC†C-PSPePë.

P”P»Cḡ PïP°C†C-C”PSC,C-PI C-P· PïPsCḡCḡC€PµPSPSCḡPjPë C,,CḡPSPeC†C-PNë PïPµC†C-PSPePë
PjPsPḡPµ PIPëCḡPIPëC,PëCḡCḡ PrPsCḡC,P°C,PSCHḡPsCḡ PrPsP±PsPIP° PrPsP·P°
PïCḡPµPïP°CḡP°C,Cḡ 10-20 PjPi.

PµP°C†C-C”PSC,Pë P»C-C,PSCHḡPsPiPs PIC-PeCḡ (> 65 CḡPsPeC-PI).

PḡPsCḡPµPeC†C-Cḡ PrPsP·Pë PSPµ PïPsC,CḡC-P±PSP° PrP»Cḡ PïP°C†C-C”PSC,C-PI
P»C-C,PSCHḡPsPiPs PIC-PeCḡ.

B

P”C-C,Pë.

P”PsCḡPIC-Pr P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PsPjPµPïCḡP°P·PsP»Cḡ PrP»Cḡ
PIPSCḡC,CḡC-C€PSCHḡPsPiPµPSPSPsPiPs PIPiPµPrPµPSPSCḡ Cḡ PïPµPrC-P°C,CḡPëC†PSC-PNë
PïCḡP°PeC,PëC†C- PsP±PjPµPḡPµPSPëPNë, C,PsPjCḡ PïCḡPµPïP°CḡP°C, PSPµ CḡP»C-Pr
PïCḡPëP·PSP°C†P°C,Pë C†C-PNë PIC-PePsPIC- PeP°C,PµPiPsCḡC-C— PïP°C†C-C”PSC,C-PI.

B

PµPµCḡPµPrPsP·CḡPIP°PSPSCḡ.

P†PSC,,PsCḡPjP°C†C-Cḡ PïCḡPs PSP°CḡP»C-PrPePë PïPµCḡPµPrPsP·CḡPIP°PSPSCḡ
PsPjPµPïCḡP°P·PsP»Cḡ PI P»CḡPrPëPSPë PsP±PjPµPḡPµPSP°. PhPïPëCḡP°PSC- PIPëPïP°PrPePë
P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PïCḡPµPïP°CḡP°C,Cḡ PI PrPsP·P°C... PrPs 560 PjPi; C,P°PePsPḡ
P±CḡP»Pë PsC,CḡPëPjP°PSC- PsPeCḡPµPjC- PïPsPIC-PrPsPjP»PµPSPSCḡ PïCḡPs
PïPµCḡPsCḡP°P»CHḡPSPµ P·P°CḡC,PsCḡCḡPIP°PSPSCḡ PsPrPSPsCḡP°P·PsPIPëC... PrPsP·
PsPjPµPïCḡP°P·PsP»Cḡ, C%Ps PrPsCḡCḡPïP°P»Pë 2400 PjPi (Cḡ 120 CḡP°P·C-PI PIPëC%Pµ
P·PIPëC†P°PNëPSPsC— CḡPµPePsPjPµPSPPrPsPIP°PSPsC— PrPsP·Pë).
P—P°CḡPµC”CḡC,CḡPsPIP°PSC- PIPëPïP°PrPePë PSCḡPrPsC,Pë, P±P»CḡPIP°PSPSCḡ,
P·P°PïP°PjPsCḡPsC†PµPSPSCḡ, P±PsP»Cḡ Cḡ PḡPëPIPsC,C-, PrC-P°CḡPµC— C,P°
PïPsP»PsPIPSPsPiPs P±PsP»Cḡ. PḡP°PePsPḡ Cḡ PïPsPsPrPëPSPsPePëC... PIPëPïP°PrPeP°C...
PïPsPIC-PrPsPjP»CḡP»Pë PïCḡPs P°PïP°C,C-Cḡ, PrPµPïCḡPµCḡC-Cḡ C-
CḡPïP»CḡC,P°PSC-CḡC,CH CḡPIC-PrPsPjPsCḡC,C-.

PhPïPëCḡP°PSC- CḡPëPjPïC,PsPjPë P±CḡP»Pë C,PëPjC†P°CḡPsPIPëPjPë C-
PïPsPIC-PrPsPjP»PµPSCHḡ PïCḡPs CḡPµCḡPNëPsP·PSC- PSP°CḡP»C-PrPePë PSPµ
PSP°PrC...PsPrPëP»Ps. PëPIPëPrPeC-CḡC,CH PIPëPIPµPrPµPSPSCḡ PïCḡPµPïP°CḡP°C,Cḡ PSPµ
P·PjC-PSCHḡPIP°P»P°CḡCḡ (PeC-PSPµC,PëPeP° PïPµCḡC€PsPiPs PïPsCḡCḡPrPeCḡ) P·C-
P·P±C-P»CHḡC€PµPSPSCḡPj PrPsP· PïCḡPµPïP°CḡP°C,Cḡ. Pj CḡP°P·C-
PSPµPsP±C...C-PrPSPsCḡC,C- CḡP»C-Pr PïCḡPsPiPsPrPëC,Pë CḡPëPjPïC,PsPjP°C,PëC†PSPµ
P»C-PeCḡPIP°PSPSCḡ.

$P_{\mu}C_{\eta}P_{\bar{e}} \bar{P}iC_{\eta}PsPIP_{\mu}PrP_{\mu}PSPSC - PeP \gg C - PSC - C \ddagger PSP\bar{e}C \dots PrPsC\acute{I}P \gg C - PrP \P P_{\mu}PSC\bar{H}$
 $P \cdot P^{\circ}C\acute{I}C, PsC\acute{I}PsPICrPIP^{\circ}P \gg \bar{P}e PIPSCrC, C_{\eta}C - C\bar{e}PSC\bar{H}PsPIP_{\mu}PSPSP_{\mu} PIPIP_{\mu}PrP_{\mu}PSPSC\bar{I}$
 $\bar{P}iC_{\eta}P_{\mu}P\bar{i}P^{\circ}C_{\eta}P^{\circ}C, C\acute{r} PI PrPsP \cdot P^{\circ}C \dots PrPs 270 PjPi PIPiC_{\eta}PsPrPsPIP \P PsPrPSPsPiPs PrPSC\bar{I} C, P^{\circ}$
 $PrPs 650 PjPi \bar{P}iC_{\eta}PsC, C\bar{I}PiPsPj 3 PrPSC - PI, C\%Ps PSP_{\mu} \bar{P}iC_{\eta}P_{\bar{e}}P \cdot PIP_{\mu}P \gg Ps PrPs \bar{P}iPsC\bar{I}PIP_{\bar{e}}$
 $P \P PsPrPSP\bar{e}C \dots PrPsP \cdot PsP \cdot P^{\circ}P \gg P_{\mu}P \P PSP\bar{e}C \dots PSP_{\mu}P \pm P^{\circ}P \P P^{\circ}PSP\bar{e}C \dots C_{\eta}P_{\mu}P^{\circ}PeC\ddagger C - P\bar{N}_{\bar{e}}.$

B

$P_{\mu}PsP \pm C - C \ddagger PSC - C_{\eta}P_{\mu}P^{\circ}PeC\ddagger C - C -.$

$P\acute{K}P^{\circ}P\bar{N}_{\bar{e}}C \ddagger P^{\circ}C\acute{I}C, C - C\bar{e}P_{\bar{e}}PjP_{\bar{e}} \bar{P}iPsP \pm C - C \ddagger PSP\bar{e}PjP_{\bar{e}} C_{\eta}P_{\mu}P^{\circ}PeC\ddagger C - C\bar{I}PjP_{\bar{e}} C'' \bar{P}iPsP \gg PsPIPSP\bar{e}P\bar{N}_{\bar{e}}$
 $P \pm C - P \gg CH\bar{H}, P \pm C - P \gg CH\bar{H} C\acute{r} P \P P_{\bar{e}}PIP_sC, C -, P \cdot P^{\circ}P\bar{i}PsC_{\eta}, PrC - P^{\circ}C_{\eta}P_{\mu}C\bar{I}, PjP_{\mu}C, P_{\mu}PsC_{\eta}P_{\bar{e}}P \cdot Pj C, P^{\circ}$
 $PSCrPrPsC, P^{\circ}/P \pm P \gg C\bar{H}PIP^{\circ}PSPSC\bar{I}.$

$P_{\mu}C - Pr C \ddagger P^{\circ}C\acute{I} \bar{P}iC_{\eta}PsPIP_{\mu}PrP_{\mu}PSPSC\bar{I} PrPsC\acute{I}P \gg C - PrP \P P_{\mu}PSC\bar{H} P \pm C\acute{r}P \gg \bar{P}e PIP\bar{e}C\bar{I}PIP \gg P_{\mu}PSC -$
 $PSP\bar{e}P \P C \ddagger P_{\mu}P \cdot P^{\circ}P \cdot PSP^{\circ}C \ddagger P_{\mu}PSC - PSP_{\mu}P \pm P^{\circ}P \P P^{\circ}PSC - C_{\eta}P_{\mu}P^{\circ}PeC\ddagger C - C - PSP^{\circ}$
 $P \gg C - PeP^{\circ}C_{\eta}C\acute{I}CH\bar{H}PeP_{\bar{e}}P\bar{N}_{\bar{e}} P \cdot P^{\circ}C\acute{I}C - P \pm. P - PsPrPSP_{\mu} P \cdot C\bar{I}PIP\bar{e}C\% PSP_{\mu} P \pm C\acute{r}P \gg Ps$
 $PIP\bar{e}P \cdot PSP^{\circ}PSPs PrPsP \cdot PsP \cdot P^{\circ}P \gg P_{\mu}P \P PSP\bar{e}Pj.$

B

$P_{\bar{L}}P \gg P^{\circ}C\acute{I}P_{\bar{e}} C\acute{I}P_{\bar{e}}C\acute{I}C, P_{\mu}Pj$
 $PsC_{\eta}PiP^{\circ}PSC - PI$
 $P - P \pm PsPeC\acute{z} PeC_{\eta}PsPIC - C, P^{\circ}$
 $P \gg C - PjC, P^{\circ}C, P_{\bar{e}}C \ddagger PSP_sC -$
 $C\acute{I}P_{\bar{e}}C\acute{I}C, P_{\mu}PjP_{\bar{e}}$

$P - P \pm PsPeC\acute{z} C - PjC\acute{z}PSPSP_sC -$
 $C\acute{I}P_{\bar{e}}C\acute{I}C, P_{\mu}PjP_{\bar{e}}$

$P - P \pm PsPeC\acute{z} PsP \pm PjC - PSC\acute{z}$
 $C_{\eta}P_{\mu}C \ddagger PsPIP\bar{e}PS C, P^{\circ}$
 $C \dots P^{\circ}C_{\eta}C \ddagger C \acute{z}PIP^{\circ}PSPSC\bar{I}$

$P - P \pm PsPeC\acute{z} \bar{P}iC\acute{I}P_{\bar{e}}C \dots C - PeP_{\bar{e}}$

$P - P \pm PsPeC\acute{z} PSP_{\mu}C_{\eta}PIPsPIPsC -$
 $C\acute{I}P_{\bar{e}}C\acute{I}C, P_{\mu}PjP_{\bar{e}}$

$P - P \pm PsPeC\acute{z} PsC_{\eta}PiP^{\circ}PSC - PI P \cdot PsC_{\eta}C\acute{z} PSP_{\mu}C \ddagger C - C, PeC - C\acute{I}C, CH\bar{H} P \cdot PsC_{\eta}C\acute{r},$
 $\bar{P}iPsC_{\eta}C\acute{r}C\bar{e}P_{\mu}PSPSC\bar{I} P \cdot PsC_{\eta}C\acute{r}$
 $P - P \pm PsPeC\acute{z} PsC_{\eta}PiP^{\circ}PSC - PI$
 $C\acute{I}P \gg C\acute{z}C \dots C\acute{z} C, P^{\circ} C_{\eta}C - PIPSPsPIP^{\circ}PiP_{\bar{e}}$

$P\acute{K}P_{\mu}P \pm P^{\circ}P \P P^{\circ}PSC - C_{\eta}P_{\mu}P^{\circ}PeC\ddagger C - C -$

$P \gg P_{\mu}P\bar{N}_{\bar{e}}PePs\bar{P}iP_{\mu}PSC - C\bar{I},$
 $C, C_{\eta}PsPjP \pm PsC \ddagger P_{\bar{e}}C, Ps\bar{P}iP_{\mu}PSC - C\bar{I},$
 $P^{\circ}PiC_{\eta}P^{\circ}PSCrP \gg PsC \ddagger P_{\bar{e}}C, PsP \cdot,$
 $\bar{P}iP^{\circ}PSC \ddagger P_{\bar{e}}C, Ps\bar{P}iP_{\mu}PSC - C\bar{I}$
 $C_{\eta}P_{\mu}P^{\circ}PeC\ddagger C - C - \bar{P}iC - \bar{P}iP_{\mu}C_{\eta}C \ddagger C\acute{r}C, P \gg P_{\bar{e}}PIP_sC\acute{I}C, C -,$
 $C\acute{r} C, PsPjC\acute{r} C \ddagger P_{\bar{e}}C\acute{I}P \gg C - \bar{P}iP^{\circ}C_{\eta}C\bar{I}C \ddagger PeP^{\circ},$
 $P^{\circ}PS\bar{P}iC - PsPSP_{\mu}PIC_{\eta}PsC, P_{\bar{e}}C \ddagger PSP\bar{e}P\bar{N}_{\bar{e}} PSP^{\circ}P \pm C_{\eta}C\bar{I}Pe$
 $C, P^{\circ} P^{\circ}PSP^{\circ}C, C - P \gg P^{\circ}PeC, P_{\bar{e}}C \ddagger PSC -$
 $C_{\eta}P_{\mu}P^{\circ}PeC\ddagger C - C - /C\bar{e}PsPe$
 $\bar{P}iC - \bar{P}iPsPSP^{\circ}C, C_{\eta}C - C''PjC - C\bar{I},$
 $\bar{P}iC - \bar{P}iPsPjP^{\circ}PiPSC - C''PjC - C\bar{I}, C, C\bar{I}P \P PeP^{\circ}$
 $\bar{P}iC - \bar{P}iPsPjP^{\circ}PiPSC - C''PjC - C\bar{I} PjPsP \P P_{\mu}$
 $\bar{P}iC_{\eta}P_{\bar{e}}P \cdot PIP_{\mu}C\acute{I}C, P_{\bar{e}} PrPs$
 $\bar{P}iC - \bar{P}iPsPeP^{\circ}P \gg CH\bar{H}C \ddagger C - C''PjC - C -;$
 $\bar{P}iC - \bar{P}iPsPjP^{\circ}PiPSC - C''PjC - C\bar{I} PjPsP \P P_{\mu} C, P^{\circ}PePsP \P$
 $C\acute{I}P\bar{i}C_{\eta}P_{\bar{e}}C \ddagger P_{\bar{e}}PSP\bar{e}C, P_{\bar{e}} \bar{P}iC - \bar{P}iPsPeP^{\circ}P \gg C - C''PjC - C\bar{H}$
 $P \pm P_{\mu}P \cdot C\acute{I}PsPSPSC\bar{I}, C, C_{\eta}P_{\bar{e}}PIP_sP \P PSC - C\acute{I}C, CH\bar{H},$
 $PSP_{\mu}P \cdot PSP^{\circ}C \ddagger PSP^{\circ} PrP_{\mu}P \cdot PsC_{\eta}C - C''PSC, P^{\circ}C \ddagger C - C\bar{I},$
 $P \cdot P \pm C\acute{r}PrP \P P_{\mu}PSPSC\bar{I}, C\acute{I}P\bar{i}P \gg C\acute{r}C, P^{\circ}PSC - C\acute{I}C, CH\bar{H}$
 $C\acute{I}PIC - PrPsPjPsC\acute{I}C, C -, PrP_{\mu}P\bar{i}C_{\eta}P_{\mu}C\acute{I}C - C\bar{I},$
 $P^{\circ}PiC_{\eta}P_{\mu}C\acute{I}C - C\bar{I}, \bar{P}iP^{\circ}P \gg C\bar{H}C \ddagger P_{\bar{e}}PSP^{\circ}C \ddagger C - C -$
 $\bar{P}iPsP \gg PsPIPSP\bar{e}P\bar{N}_{\bar{e}} P \pm C - P \gg CH\bar{H},$
 $P \cdot P^{\circ}P\bar{i}P^{\circ}PjPsC_{\eta}PsC \ddagger P_{\mu}PSPSC\bar{I},$
 $\bar{P}iP^{\circ}C_{\eta}P_{\mu}C\acute{I}C, P_{\mu}P \cdot C - C -, \bar{P}iPsC_{\eta}C\acute{r}C\bar{e}P_{\mu}PSPSC\bar{I}$
 $C\acute{I}PSC\acute{r}, PIC - PrC \ddagger C\acute{r}C, C, C\bar{I} C\acute{I}P \gg P^{\circ}P \pm PePsC\acute{I}C, C -,$
 $C\acute{I}PsPSP \gg P_{\bar{e}}PIC - C\acute{I}C, CH\bar{H}, \bar{P}iPsC_{\eta}C\acute{r}C\bar{e}P_{\mu}PSPSC\bar{I}$
 $C\acute{I}PjP^{\circ}PeC\acute{r}$
 $PSP_{\mu}C \ddagger C - C, PeC - C\acute{I}C, CH\bar{H} P \cdot PsC_{\eta}C\acute{r},$
 $\bar{P}iPsC_{\eta}C\acute{r}C\bar{e}P_{\mu}PSPSC\bar{I} P \cdot PsC_{\eta}C\acute{r}$
 $PIP_{\mu}C_{\eta}C, P_{\bar{e}}PiPs$

$P - P \pm PsPeC \acute{z} PrP\ddot{e}C \dots P^{\circ}P \gg CH\dot{P}SPsC -$
 $Cl\dot{P}\ddot{e}Cl\dot{C}, P_{\mu}PjP\ddot{e}, PsC\dot{H}PiP^{\circ}PSC - PI$
 $PiC\dot{H}C \acute{z} PrPSPsC - PeP \gg C - C, PeP\ddot{e} C, P^{\circ}$
 $Cl\dot{P}_{\mu}C\dot{H}P_{\mu}PrPsCl\dot{C}, C - PSPSC\dot{I}$
 $P - P \pm PsPeC \acute{z} C\epsilon P \gg C \acute{z} PSPePsPIPs -$
 $PeP\ddot{e}C\epsilon PePsPIPsPiPs C, C\dot{H}P^{\circ}PeC, C \acute{z}$

$P - P \pm PsPeC \acute{z}$
 $PiP_{\mu}PiP^{\circ}C, PsP \pm C - P \gg C - P^{\circ}C\dot{H}PSPsC -$
 $Cl\dot{P}\ddot{e}Cl\dot{C}, P_{\mu}PjP\ddot{e}$

$P - P \pm PsPeC \acute{z} C\epsilon PeC - C\dot{H}P\ddot{e} C, P^{\circ}$
 $PiC - PrC\epsilon PeC - C\dot{H}PSPsC -$
 $PeP \gg C - C, PePsPIP\ddot{e}PSP\ddot{e}$

$P - P \pm PsPeC \acute{z} Cl\dot{P}eP_{\mu}P \gg P_{\mu}C, PSPs -$
 $Pj\epsilon\dot{H}^{\text{TM}} C\dot{I}P \cdot PsPIPsC - Cl\dot{P}\ddot{e}Cl\dot{C}, P_{\mu}PjP\ddot{e},$
 $Cl\dot{P}iPsP \gg C \acute{z} C \ddagger PSPsC - C, PeP^{\circ}PSP\ddot{e}PSP\ddot{e}$
 $C, P^{\circ} PeC - Cl\dot{C}, PsPe$
 $P - P \pm PsPeC \acute{z} PSP\ddot{e}C\dot{H}PsPe C, P^{\circ}$
 $Cl\dot{P}_{\mu}C \ddagger PsPIP\ddot{e}PrC - P \gg CH\dot{P}SPsC -$
 $Cl\dot{P}\ddot{e}Cl\dot{C}, P_{\mu}PjP\ddot{e}$

$P - P \pm PsPeC \acute{z}$
 $C\dot{H}P_{\mu}PiC\dot{H}PsPrC \acute{z} PeC, P\ddot{e}PIPSPsC -$
 $Cl\dot{P}\ddot{e}Cl\dot{C}, P_{\mu}PjP\ddot{e} C, P^{\circ}$
 $PjPsP \gg PsC \ddagger PSP\ddot{e}C \dots P \cdot P^{\circ}P \gg PsP \cdot$
 $P - P^{\circ}PiP^{\circ}P \gg CH\dot{P}SC - C\dot{H}PsP \cdot P \gg P^{\circ}PrP\ddot{e}$
 $C, P^{\circ} C\dot{H}P_{\mu}P^{\circ}PeC \ddagger C - C - C \acute{z} PjC - Cl\dot{C} \ddagger C -$
 $PIPIP_{\mu}PrP_{\mu}PSPSC\dot{I}$
 $PiC\dot{H}P_{\mu}PiP^{\circ}C\dot{H}P^{\circ}C, C \acute{z}$

$C\dot{H}P^{\circ}PiC, PsPIP_{\mu} PIC - PrC \ddagger CrC, C, C\dot{I} C \dots C\dot{H}P\ddot{e}PiC - PI$
 $P^{\circ}P \pm Ps P \cdot P^{\circ}PrP\ddot{e}C\epsilon PeP\ddot{e} (P \pm C\dot{H}PsPSC \dots PsCl\dot{P}iP^{\circ}P \cdot Pj)$

$P \pm C - P \gg CH C \acute{r} P\dot{I}P\ddot{e}PIPsC, C -, P \cdot P^{\circ}PiPsC\dot{H},$
 $PrC - P^{\circ}C\dot{H}P_{\mu}C\dot{I}, PjP_{\mu}C, P_{\mu}PsC\dot{H}P\ddot{e}P \cdot Pj,$
 $PSC \acute{r} PrPsC, P^{\circ}/P \pm P \gg CH\dot{P}IP^{\circ}PSPSC\dot{I},$
 $Cl\dot{C}CrC \dots C - Cl\dot{C}, CH C \acute{r} C\dot{H}PsC, C -, Cl\dot{C}, PsPjP^{\circ}C, P\ddot{e}C,,$
 $PeP^{\circ}PSPPrP\ddot{e}PrPsP \cdot C\epsilon P \gg CrPSPePsPIPs -$
 $PeP\ddot{e}C\epsilon PePsPIPsPiPs C, C\dot{H}P^{\circ}PeC, Cr,$
 $PjC - PeC\dot{H}PsCl\dot{P}ePsPiC - C \ddagger PSP\ddot{e}PN_{\circ} PePsP \gg C - C,,$
 $PiPsP \gg C - PiP\ddot{e} C,, C \acute{r} PSPPrP^{\circ}P \gg CH\dot{P}SP\ddot{e}C \dots P \cdot P^{\circ}P \gg PsP \cdot$
 $(PrPsP \pm C\dot{H}PsC\dot{I}PeC - Cl\dot{P}SC -)$
 $PiC - PrPIP\ddot{e}C \% P_{\mu}PSP\ddot{e}PN_{\circ} C\dot{H}C - PIP_{\mu}PSC\dot{H}$
 $PiP_{\mu}C \ddagger C - PSPePsPIP\ddot{e}C \dots C,, P_{\mu}C\dot{H}PjP_{\mu}PSC, C - PI,$
 $PiP_{\mu}PiP^{\circ}C, P\ddot{e}C, C - P \cdot P\dot{I}PsPIC, C\dot{I}PSP\ddot{e}C \ddagger P_{\mu}C\dot{H} P^{\circ}P \pm Ps$
 $P \pm P_{\mu}P \cdot PSP_{\mu}C -, PiP_{\mu}C \ddagger C - PSPePsPIP^{\circ}$
 $PSP_{\mu}PrPsCl\dot{C}, P^{\circ}C, PSC - Cl\dot{C}, CH,$
 $P_{\mu}PSC \ddagger P_{\mu}C,, P^{\circ}P \gg PsPiP^{\circ}C, C - C\dot{I} C \acute{r} PiP^{\circ}C \ddagger C - C^{\circ}PSC, C - PI$
 $P \cdot C - Cl\dot{P}SC \acute{r} C\dot{H}C \ddagger P\ddot{e}PjP\ddot{e}$
 $P \cdot P^{\circ}C \dots PIPsC\dot{H}CH\dot{P}IP^{\circ}PSPSC\dot{I}PjP\ddot{e} PiP_{\mu}C \ddagger C - PSPeP\ddot{e}$
 $PrP_{\mu}C\dot{H}PjP^{\circ}C, P\ddot{e}C,, PiC - PiP_{\mu}C\dot{H}P_{\mu}PjC - C\dot{I},$
 $Cl\dot{P}IP_{\mu}C\dot{H}P \pm C - P\dot{I}, PIP\ddot{e}Cl\dot{P}\ddot{e}PiP^{\circ}PSPSC\dot{I},$
 $PeC\dot{H}PsPiP\ddot{e}Pi\dot{b}\dot{H}^{\text{TM}} C\dot{I}PSPeP^{\circ}, P^{\circ}P \gg PsPiP_{\mu}C \ddagger C - C\dot{I},$
 $C,, PsC, PsC \ddagger CrC, P \gg P\ddot{e}PIC - Cl\dot{C}, CH,$
 $PjCrP \gg CHC, P\ddot{e}C,, PsC\dot{H}PjPSP^{\circ} P_{\mu}C\dot{H}P\ddot{e}C, P_{\mu}PjP^{\circ},$
 $Cl\dot{P}\ddot{e}PSPPrC\dot{H}PsPj$
 $P\acute{Y}C, C - PIP_{\mu}PSC\dot{I}P^{\circ}\dot{b}\dot{H}^{\text{TM}} "P" P\dot{I}PsPSC\dot{I}PsPSP^{\circ},$
 $C, PsPeCl\dot{P}\ddot{e}C \ddagger PSP\ddot{e}PN_{\circ}$
 $P_{\mu}PiC - PrP_{\mu}C\dot{H}PjP^{\circ}P \gg CH\dot{P}SP\ddot{e}PN_{\circ} PSP_{\mu}PeC\dot{H}PsP \gg C - P \cdot$
 $(P\acute{Y}P \cdot P\acute{K}), PiC - PrPiPsCl\dot{C}, C\dot{H}P\ddot{e}PN_{\circ} C\epsilon PeC - C\dot{H}PSP\ddot{e}PN_{\circ}$
 $C \ddagger P_{\mu}C\dot{H}PIPsPSP\ddot{e}PN_{\circ} PIPsPIC \ddagger P^{\circ}Pe (PrP\ddot{e}PI,$
 $C\dot{H}PsP \cdot PrC - P \gg B \ll PhCl\dot{P}PsP \pm P \gg P\ddot{e}PIPsCl\dot{C}, C -$
 $P \cdot P^{\circ}Cl\dot{C}, PsCl\dot{C}CrPIP^{\circ}PSPSC\dot{I}B \gg)$
 $P^{\circ}C\dot{H}C, C\dot{H}P^{\circ}P \gg PiC - C\dot{I}, PjC - P^{\circ}P \gg PiC - C\dot{I},$
 $PiP_{\mu}C\dot{H}P_{\mu}P \gg PsPj Cl\dot{C}, P_{\mu}PiPSP^{\circ}, P \cdot P^{\circ}Pi\dot{b}\dot{H}^{\text{TM}} C\dot{I}C\dot{I}C, C\dot{I}$
 $P^{\circ}P \pm Ps C \dots C\dot{H}P_{\mu}P \pm C, P^{\circ}, Pj\dot{b}\dot{H}^{\text{TM}} C\dot{I}P \cdot PsPIP^{\circ}$
 $Cl\dot{P} \gg P^{\circ}P \pm PeC - Cl\dot{C}, CH$
 $C, CrP \pm CrP \gg PsC - PSC, P_{\mu}C\dot{H}Cl\dot{C}, P\ddot{e}C \ddagger C - P^{\circ}P \gg CH\dot{P}SP\ddot{e}PN_{\circ}$
 $PSP_{\mu}C,, C\dot{H}P\ddot{e}C, (P \cdot PjPsP\dot{I}P \gg P\ddot{e}PIP\ddot{e}Pj$
 $PiC\dot{H}PsPiC\dot{H}P_{\mu}Cl\dot{C}CrPIP^{\circ}PSPSC\dot{I}Pj PrPs$
 $PSP\ddot{e}C\dot{H}PePsPIPsC - PSP_{\mu}PrPsCl\dot{C}, P^{\circ}C, PSPsCl\dot{C}, C -),$
 $PiPsC, P_{\mu}PjPSC - PSPSC\dot{I} Cl\dot{P}_{\mu}C \ddagger C -$
 $C - PjPiPsC, P_{\mu}PSC \ddagger C - C\dot{I}, PiC - PSP_{\mu}PePsPjP^{\circ}Cl\dot{C}, C - C\dot{I}$

$PSP_{\mu}P \cdot PrCrP\dot{I}P^{\circ}PSPSC\dot{I},$
 $PiP_{\mu}C\dot{H}P\ddot{e}C,, P_{\mu}C\dot{H}P\ddot{e}C \ddagger PSP\ddot{e}PN_{\circ} PSP^{\circ}P \pm C\dot{H}C\dot{I}Pe,$
 $PiPsCl\dot{P}\ddot{e}P \gg P_{\mu}PSP_{\mu} PiPsC, PsPIP\ddot{e}PrC - P \gg P_{\mu}PSPSC\dot{I}$

B

$Pj PiPsPsPrP\ddot{e}PSPsPeP\ddot{e}C \dots PIP\ddot{e}PiP^{\circ}PrPeP^{\circ}C \dots PiPsPIC - PrPsPjP \gg C\dot{I}P \gg P\ddot{e} PiC\dot{H}Ps$
 $PSP_{\mu}PsP \pm PsC\dot{H}PsC, PSP_{\mu} PiPsC\dot{H}CrC\epsilon P_{\mu}PSPSC\dot{I} P \cdot PsC\dot{H}Cr C \acute{r} C, C\dot{I}P\dot{I}PePsC \dots PIPsC\dot{H}P\ddot{e}C \dots$

PIP°C†C-C" PSC,C-PI, CΠPeC- PsC,CḡPēPjC†PIP°P»Pē PsPjPμPīCḡP°P·PsP» C† PIPēPiP»CΠPrC-
PIPSC†C,CḡC-CēPSCḡPsPIPμPSPSPsC— C-PSḡḡ™ C"PeC†C-C—, PsC†PsP±P»PēPIPs C†
PIPμP»PēPePēC... PrPsP·P°C..., P°P»Pμ PīCḡPēC†PēPSPSPs-PSP°C†P»C-PrPePsPIPēPNē
P·PIḡḡ™ CΠP·PsPe PSPμ PIC†C,P°PSPsPIP»PμPSPēPNē.

PμPsPIC-PrPsPjP»PμPSPSCΠ PīCḡPs PīC-PrPsP·CḡCḡPIP°PSC- PīPsP±C-C†PSC-
CḡPμP°PeC†C-C—

PμPsPIC-PrPsPjP»PμPSPSCΠ PīCḡPs PīC-PrPsP·CḡCḡPIP°PSC- PīPsP±C-C†PSC-
CḡPμP°PeC†C-C— PīC-C†P»CΠ CḡPμC" C†C,CḡP°C†C-C— P»C-PeP°CḡC†CḡPePsPiPs
P·P°C†PsP±C† C" PrC†P¶Pμ PIP°P¶P»PēPIPēPj. P|Pμ PrP°C" P·PjPsPiC† PīPsC†C,C-PNēPSPs
C†PīPsC†C,PμCḡC-PiP°C,Pē P·P° C†PīC-PIPIC-PrPSPsCēPμPSPSCΠPj
PePsCḡPēC†C,Cḡ/CḡPēP·PēPe PīCḡPμPīP°CḡP°C,C†. PḡPμPrPēC†PSPēC...
PīCḡP°C†C-PIPSPēPeC-PI PīCḡPsC†CΠC,Cḡ PīPsPIC-PrPsPjP»CΠC,Pē PīCḡPs
PīC-PrPsP·CḡCḡPIP°PSC- PīPsP±C-C†PSC- CḡPμP°PeC†C-C— C†PμCḡPμP·
PSP°C†C-PsPSP°P»CḡPSC† C†PēC†C,PμPjC† P·PIC-C,PSPsC†C,C-.

B

PḡPμCḡPjC-PS PīCḡPēPrP°C,PSPsC†C,C-.B 2 CḡPsPePē.

B

PjPjPsPIPē P·P±PμCḡC-PiP°PSPSCΠ.

P—P±PμCḡC-PiP°C,Pē PīCḡPē C,PμPjPīPμCḡP°C,C†CḡC- PSPμ PIPēC‰Pμ 25 °Pḡ PI
PsCḡPēPiC-PSP°P»CḡPSC-PNē C†PīP°PePsPIC†C-. P—P±PμCḡC-PiP°C,Pē PI
PSPμPrPsC†C,C†PīPSPsPjC† PrP»CΠ PrC-C,PμPNē PjC-C†C†C-.

B

PḡPμCḡPjC-PS P·P±PμCḡC-PiP°PSPSCΠ PīPsCḡPsCēPeC† PīC-C†P»CΠ PIC-PrPeCḡPēC,C,CΠ:
PrPs 24 PīPsPrPēPS PīCḡPē C,PμPjPīPμCḡP°C,C†CḡC- PSPμ PIPēC‰Pμ 25 °Pḡ.

PḡPμCḡPjC-PS PīCḡPēPrP°C,PSPsC†C,C- PIC-PrPSPsPIP»CḡPIP°P»CḡPSPsPiPs
CḡPsP·C†PēPSC†: PrPs 4 PīPsPrPēPS PīCḡPē C,PμPjPīPμCḡP°C,C†CḡC- PSPμ PIPēC‰Pμ 25 °Pḡ.

B

PḡPμC†CḡPjC-C†PSC-C†C,Cḡ.

PμCḡPμPīP°CḡP°C, PSPμ C†P»C-Pr P·PjC-CēC†PIP°C,Pē P· C-PSCēPēPjPē
P»C-PeP°CḡC†CḡPePēPjPē P·P°C†PsP±P°PjPē, PeCḡC-Pj P·PiP°PrP°PSPēC... C† CḡPsP·PrC-P»C-
B«PḡPīPsC†C-P± P·P°C†C,PsC†C†PIP°PSPSCΠ C,P° PrPsP·PēB».

B

PjPīP°PePsPIPēP°.

PμPs 1 C,,P»P°PePsPSC† P· PīPsCḡPsCēPePsPj C† PeP°CḡC,PsPSPSC-PNē PePsCḡPsP±C†C-.

B

PḡP°C,PμPiPsCḡC-CΠ PIC-PrPīC†C†PeC†. P—P° CḡPμC†PμPīC,PsPj.

B

P'PëCḐPsP±PSPëPε.

$$\text{P}''\text{P}\cdot\text{P}_{\text{H}}\text{Ph P}\check{\text{Y}}.\text{Ph}, \text{P}\Re^{\circ}\text{C}\bar{\text{T}}\text{PjP}^{\circ}\text{C}\bar{\Gamma}\text{CHCTHC,C-PeP}^{\circ}\text{P}\gg \text{P}\dagger\text{PSPrP}^{\circ}\text{C}\bar{\Gamma}\text{C,C}\bar{\text{T}}\text{C}-.$$
B

РѢС-СГГ†РѢР·РSP°С...РsРrР¶РѢРSPSC¶ РІРёСЪРsР±РSPёРё° С,Р° Р°РrСЪРѢСГР° РјС-СГГ†С¶ РіСЪРsРІР°РrР¶РѢРSPSC¶ РNёРsРіРs РrС-С¶Р»СЪРSPSГГ,С-.

21- PN_{e} $\text{PeC-P} \gg \text{PsPjP}_{\mu}\text{C}, \text{C}\overline{\text{H}} \text{PSP}^{\circ}\text{C}\dagger\text{C-PsPSP}^{\circ}\text{P} \gg \text{CHbPSPsPiPs C}\overline{\text{e}}\text{PsC}\overline{\text{I}}\text{P}_{\mu}\text{B}$ $\text{P}_{\text{h}}\text{C}_{,,}\text{C-PSP}\overline{\text{e}}$ - $\text{P} \gg \text{P}^{\circ}\text{PjC-C}\overline{\text{I}}\text{I}$, $\text{P}_{\text{L}}\text{C}\overline{\text{H}}\text{C-PsPSP}_{\mu}\text{C}\overline{\text{H}}\text{C-}$ $\text{P}_{\text{h}}\text{C}_{,,}\text{C,P}\overline{\text{e}}\text{PeP}^{\circ}$, 14568, $\text{P}^{\circ}\text{C}\overline{\text{H}}\text{P}_{\mu}\text{C}\dagger\text{C-C}\overline{\text{I}}\text{I}$.