

Р†РќРЎРЎР РЈРЉРІР†РІ

**РrP»CІ PjPμPṛPëC‡PSPsPiPs P·P°CÍC,PsCÍCṛPIP°PSPSCІ P»C-PeP°CḡCÍCHPePsPiPs
P·P°CÍPsP±Cṛ**

B

РђРђР•РќРђРЉРЎ^{В®}

B (OMENAX^{В®})

CPeP»P°Pṛ:

PrC-CḡC‡P° CḡPμC‡PsPIPëPSP°: omeprazole;

1 C„P»P°PePsPS PjC-CÍC,PëC,CH PsPjPμPİCḡP°P·PsP»Cṛ PSP°C,CḡC-Cḡ
PμPePIC-PIP°P»PμPSC,PSPs PsPjPμPİCḡP°P·PsP»Cṛ 40 PjPi;

PrPsPiPsPjC-PḡPSP° CḡPμC‡PsPIPëPSP°: PSP°C,CḡC-Cḡ PiC-PrCḡPsPeCÍPëPr.

B

**P»C-PeP°CḡCÍCHPeP° C„PsCḡPjP°. PμPsCḡPsC€PsPe PrP»CІ CḡPsP·C‡PëPSCṛ PrP»CІ
C-PSBḡ™ C”PeC†C-PNḡ.**

*PḡCÍPSPsPIpsc- C„C-P·PëPePs-C...C-PjC-C‡PSC- PIP»P°CÍC,PëPIPsCÍC,C-:
P»C-PsC„C-P»C-P·PsPIP°PSPëPNḡ PİPsCḡPsC€PsPe PIC-Pr P±C-P»PsPiPs PrPs PjP°PNḡPḡPμ
P±C-P»PsPiPs PePsP»CHPsCḡCṛ.*

B

PṛP°CḡPjP°PePsC,PμCḡP°PİPμPIC,PëC‡PSP° PiCḡCṛPİP°.

*P—P°CÍPsP±Pë PrP»CІ P»C-PeCṛPIP°PSPSCІ PİPμPİC,PëC‡PSPsC— PIPëCḡP°P·PePë C,P°
PiP°CÍC,CḡPsPμP·PsC„P°PiPμP°P»CHPSPsC— CḡPμC„P»CḡPeCÍPSPsC— C...PIPsCḡPsP±Pë.
P†PSPiC-P±C-C,PsCḡPë PİCḡPsC,PsPSPSPsC— PİPsPjPİPë. PḡPjPμPİCḡP°P·PsP». PḡPsPr PḡPḡPḡ
Pḡ02P’ Pḡ01.*

B

PṛP°CḡPjP°PePsP»PsPiC-C‡PSC- PIP»P°CÍC,PëPIPsCÍC,C-.

PṛP°CḡPjP°PePsPrPëPSP°PjC-PeP°.

*PḡPjPμPİCḡP°P·PsP», CḡP°C†PμPjC-C‡PSP° CÍCṛPjC-C€ PrPIPsC... PμPSP°PSC,C-PsPjPμCḡC-PI,
P·PjPμPSC€CṛC” CÍPμPeCḡPμC†C-Cḡ CÍPsP»CІPSPsC— PePëCÍP»PsC,Pë Cṛ C€P»CṛPSPeCṛ
P·P°PIPrCІPePë PjPμC...P°PSC-P·PjCṛ PSP°PrP·PIPëC‡P°PNḡPSPs CÍPİCḡCІPjPsPIP°PSPsC—
PrC-C—. PḡPjPμPİCḡP°P·PsP» C-PSPiC-P±CṛC” CÍPμPeCḡPμC†C-Cḡ CÍPsP»CІPSPsC—
PePëCÍP»PsC,Pë Cṛ C€P»CṛPSPeCṛ C€P»CІC...PsPj CÍPİPμC†PëC„C-C‡PSPsPiPs PİPİP»PëPICṛ
PSP° PİCḡPsC,PsPSPSPëPNḡ PSP°CÍPsCÍ Cṛ PİP°CḡC-C”C,P°P»CHPSPëC... PeP»C-C,PëPSP°C....
PμCḡPμPİP°CḡP°C, PİCḡPë P·P°CÍC,PsCÍCṛPIP°PSPSC- 1 CḡP°P· PSP° PrPsP±Cṛ PrC-C”
C€PIPëPrPePs C,P° P·P°P±PμP·PİPμC‡CṛC” PePsPSC,CḡPsP»CH C€P»CІC...PsPj
PsP±PsCḡPsC,PSPsPiPs PİCḡPëPİPSC-C‡PμPSPSCІ CÍPμPeCḡPμC†C-C— CÍPsP»CІPSPsC—*

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 PíCĤPëPíPSC-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
PíCĤPëPíPSC-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 PíCĤPëPíPSC-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 PrPsCÍCÍPíP°C”C,CHCÍCÍ PíPsPIC,PsCĤPSPëPjPë PrPsP·P°PjPë PíCĤPµPíP°CĤP°C,Cí
PíPs 20 PjPí PíPµCĤPsCĤP°P»CHPSPs, CĤPµPePsPjPµPSPPrCíC”C,CHCÍCÍ CÍPe PíPµCĤCëP°
PrPsP·P° PIPSCíC,CĤC-CëPSCĤPsPIPµPSPSPµ PíPíPµPrPµPSPSCÍ 40 PjPí 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 Pí 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—.

PµCĤPëPíPSC-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-CfCf *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·PSPëPµPµPSCf CfPµPeCfPµCfC-Cf PePëCfP»PsC,Pë. PÿP°PePsPµ Cf P·PíBf™ CfP·PeCf P·C- P·PSPëPµPµPSPsCf 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 PjPsPµPµ P·P°PIP°PrPëC,Pë PsP±CfC,PµPµPµPSPSCf PSP° PSPµPµCfPsPµPSPPrPsPeCfPëPSPSC- PïcCfC...P»PëPSPë. PµPsPIC-PrPsPjP»CfP»Pë, C°Ps P»C-PeCfPIP°PSPSCf C-PSiC-P±C-C,PsCfP°PjPë PïcCfPsC,PsPSPsPiPs PSP°CfPsCfP° PïcPsC,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, PjPsPµPµPëPIPs, 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°PµP°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°PµPSPsPiPs PïcCfPëPiPSC-CfPµPSPSCf CfPµPeCfPµCfC-C— CfPsP»CfPSPsC— PePëCfP»PsC,Pë; CfPµPµ PïcCfPsCfPµCf C” PrPsP±CfPsCfPeC-CfPSPëPj C-, PIC-CfPsPiC-PrPSPs, PsP±PsCfPsC,PSPëPj.

P—PSPëPµPµPSPSCf PePëCfP»PsC,PSPsCfC,C- CëP»CfPSPePsPIPsPiPs CfPsPeCf P±CfPrCfC- CfPePëPjPë P·P°CfPsP±P°PjPë, PIPeP»CfCfP°CfCfPë C-PSiC-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·PSPëPµCfCfC,Ch PePëCfP»PsC,PSC-CfC,Ch, PjPsPµ PïcCfPëP·PIPµCfC,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 CГPсP·PïPsPrC-P»CГ CГ P·PrPsCГPсPIPëC...
PrPsP±CГPсPIPсP»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 PeCГPсPIC-.

PhPjPµPïCГP°P·PsP» PïPsPIPSC-CГC,CH PjPµC,P°P±PsP»C-P·CГC"С,CHCГCГCГCГCГC,PµPjPsCГ
CГPëC,PsC...CГPсPjCГ 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-PrCГPсPeCГC-PsPjPµPïCГP°P·PsP»CГ, PsCГPSPsPIPSPsPiPs
PjPµC,P°P±PsP»C-C,CГ CГPµC±PsPIPëPSPë CГ PïP»P°P·PjC- PeCГPсPIC-. 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
PePsPSPeCГCГPµPSC,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"PICГPсPïPµPsC—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- PeCГPсPIC- 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 PeCГPсPIC-
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
PeCГPсPIC- PjC-P¶ PïCГPëP№PsPjP°PjPë PrPsP· P±PµP· C,PµPSPPrPµPSCГC-C— PrPs
PSP°PePsPïPëC±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,CHCГCГCГCГC

PIPëPiP»CЏPrC- PjPµC,P°P±PsP»C-C,C-PI C-P· CГPµC±PµCґ, P° CґPµC€C,P° Bґ“ C-P· C,,PµPeP°P»C-CЏPjPë, PµCґPµPIP°P¶PSPs C€P»CЏC...PsPj CГPµPeCґPµC†C-C— P· P¶PsPIC±Cґ.

AUC PsPjPµPіCґP°P·PsP»CГ P·P±C-P»CHC€CГC”C,CHCГCЏ PіCґPë PіPsPIC,PsCґPSPsPjCГ P·P°CГC,PsCГCГPIP°PSPSC- PіCґPµPіP°CґP°C,CГ. PjPµ P·P±C-P»CHC€PµPSPSCЏ P·P°P»PµP¶PëC,CH PIC-Pr PrPsP·Pë PіCґPµPіP°CґP°C,CГ C- P·P°P±PµP·PіPµC±CГ” PSPµP»C-PSC-PNёPSCГ P·P°P»PµP¶PSC-CГC,CH AUC PIC-Pr PrPsP·Pë PіC-CГP»CЏ PіPsPIC,PsCґPSPsPіPs P·P°CГC,PsCГCГPIP°PSPSCЏ PіCґPµPіP°CґP°C,CГ. PŷP°PeP° P·P°P»PµP¶PSC-CГC,CH PIC-Pr C±P°CГCГ C,P° PrPsP·Pë P·CГPjPsPIP»PµPSP° P·PjPµPSC€PµPSPSCЏPj PіCґPµCГPëCГC,PµPjPSPsPіPs PjPµC,P°P±PsP»C-P·PjCГ C,P° CГPëCГC,PµPjPSPsPіPs PeP»C-CґPµPSCГCГ, C%Ps, PjPsP¶P»PëPIPs, CГPіCґPëC±PëPSPµPSPs PіCґPëPіPSC-C±PµPSPSCЏPj C,,PµCґPjPµPSC,CГ CYP2C19 PsPjPµPіCґP°P·PsP»PsPj C,P°/P°P±Ps PNёPsPіPs PjPµC,P°P±PsP»C-C,P°PjPë (PSP°PіCґPëPeP»P°Pr CГCГP»CHC,,PsPSPsPj). PќPµ P±CГP»Ps PIPëCЏPIP»PµPSPs, C%PsP± P±CГPrCH-CЏPePëPNё C-P· PjPµC,P°P±PsP»C-C,C-PI PIPіP»PëPIP°PI PSP° CГPµPeCґPµC†C-Cґ CГPsP»CЏPSPsC— PePëCГP»PsC,Pë C€P»CГPSPePsPIPsPіPs CГPsPeCГ.

PµP°C†C-C”PSC,Pë P· PіPsCґCзC€PµPSPSCЏPjPë C,,CзPSPeC†C-PNё PіPµC±C-PSPePë.

PґPµC,P°P±PsP»C-P·Pj PsPjPµPіCґP°P·PsP»CГ CГ PіP°C†C-C”PSC,C-PI C-P· PіPsCґCГC€PµPSPSCЏPjPë C,,CГPSPeC†C-PNё PіPµC±C-PSPePë CГPіPsPIC-P»CHPSPµPSPëPNё, C%Ps PіCґPëP·PIPsPrPëC,CH PrPs P·P±C-P»CHC€PµPSPSCЏ AUC. PµCґPë P·P°CГC,PsCГCГPIP°PSPSC- PsPjPµPіCґP°P·PsP»CГ 1 CґP°P· PSP° PrPsP±CГ P±CГPrCH-CЏPePsC— C,PµPSPPrPµPSC†C-C— PrPs PSP°PePsPіPëC±PµPSPSCЏ PіCґPµPіP°CґP°C,CГ PSPµ CГPіPsCГC,PµCґC-PіP°P»PsCГCЏ.

PµP°C†C-C”PSC,Pë P· PіPsCґCзC€PµPSPSCЏPjPë C,,CзPSPeC†C-PNё PSPëCґPsPe.

PαP°CґPjP°PePsPeC-PSPµC,PëPeP° PsPjPµPіCґP°P·PsP»CГ, CГ C,PsPjCГ C±PëCГP»C- CГPëCГC,PµPjPSP° P±C-PsPrPsCГC,CГPіPSC-CГC,CH C,P° C€PIPëPrPeC-CГC,CH PIPëPIPµPrPµPSPSCЏ, CГ PіP°C†C-C”PSC,C-PI P·C- P·PSPëP¶PµPSPsCґ PSPëCґPePsPIPsCґ C,,CГPSPeC†C-C”Cґ PSPµ P·PjC-PSCґC”C,CHCГCЏ.

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

PëPIPëPrPeC-CГC,CH PjPµC,P°P±PsP»C-P·PjCГ PsPjPµPіCґP°P·PsP»CГ CГ PіP°C†C-C”PSC,C-PI P»C-C,PSCHPsPіPs PIC-PeCГ (75-79 CґPsPeC-PI) PrPµC%Ps P·PSPëP¶PµPSP°.

B

PґP»C-PSC-C±PSC- C...P°CґP°PeC,PµCґPëCГC,PëPePë.

PµPsPeP°P·P°PSPSCЏ.

PґPjPµPSP°PeCГ^{B®} PrP»CЏ PIPSCГC,CґC-C€PSCHPsPIPµPSPSPsPіPs P·P°CГC,PsCГCГPIP°PSPSCЏ PіPsPeP°P·P°PSPëPNё CЏPe P°P»CHC,PµCґPSP°C,PëPIP° PіPµCґPsCґP°P»CHPSC-PNё C,PµCґP°PіC-C— PіCґPë PSPëP¶C±PµP·P°P·PSP°C±PµPSPëC... PіPsPeP°P·P°PSPSCЏC....

P”PsCґPsCГP»C-

Bґ“ P>C-PeCГPIP°PSPSCЏ PIPëCґP°P·PePë PrPIP°PSP°PrC†CЏC,PëPіP°P»PsC— PePëC€PePë.

БҲ“ РҰСҲҮPсC,,C-P»P°PeC,PөPeP° СҲҮмC†PөPrPөPIC-PI PIPөСҲҮP°P·PePө
PrPIP°PSP°PrC†CҮC,PөPіP°P»PsC— PePөCөPePө.

БҲ“ P>C-PeCfPIP°PSPSCҮ PIPөСҲҮP°P·PePө CөP»CfPSPeP°.

БҲ“ РҰСҲҮPсC,,C-P»P°PeC,PөPeP° СҲҮмC†PөPrPөPIC-PI PIPөСҲҮP°P·PePө CөP»CfPSPeP°.

БҲ“ PJ PePsPjP±C-PSP°C†C-C— P· PIC-PrPіPsPIC-PrPSPөPjPө P°PSC,PөP±C-PsC,PөPeP°PjPө
PrP»CҮ PмСҲҮP°PrPөPeP°C†C-C— *Helicobacter pylori* (*H. pylori*) PіСҲҮPө PIPөСҲҮP°P·PePsPIC-P№
C...PIPsСҲҮPsP±C-.

БҲ“ P>C-PeCfPIP°PSPSCҮ PIPөСҲҮP°P·PePө CөP»CfPSPeP° C- PrPIP°PSP°PrC†CҮC,PөPіP°P»PsC—
PePөCөPePө, PіPsPIБҲ™ CҮP·P°PSPsC— C-P· P·P°CfC,PсCfCfPIP°PSPSCҮPj
PSPмCfC,PмСҲҮPsC—PrPSPөC... PіСҲҮPsC,PөP·P°PіP°P»СҲPSPөC... PіСҲҮPмPіP°СҲҮP°C,C-PI
(PкPмP—Pм).

БҲ“ РҰСҲҮPсC,,C-P»P°PeC,PөPeP° PIPөСҲҮP°P·PePө CөP»CfPSPeP° C-
PrPIP°PSP°PrC†CҮC,PөPіP°P»PsC— PePөCөPePө, PіPsPIБҲ™ CҮP·P°PSPsC— C-P·
P·P°CfC,PсCfCfPIP°PSPSCҮPj PкPмP—Pм Cf PіP°C†C-C”PSC,C-PI PeP°C,PмPiPsСҲҮC-C—
СҲҮPөP·PөPeCf.

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

БҲ“ PҮСҲҮPөPIP°P»Pм P»C-PeCfPIP°PSPSCҮ PіP°C†C-C”PSC,C-PI P· PSPмP°PeC,PөPIPSPөPj
СҲҮмC,,P»СҲPeCf-PмP·PsC,,P°PiC-C,PсPj.

БҲ“ P>C-PeCfPIP°PSPSCҮ CfPөPjPіC,PсPjP°C,PөC±PSPsC—
PіP°CfC,CҲPsPмP·PsC,,P°PiPмP°P»СҲPSPsC— СҲҮмC,,P»СҲPeCfPSPsC— C...PIPsСҲҮPsP±Pө.

БҲ“ P>C-PeCfPIP°PSPSCҮ CfPөPSPrСҲҮPsPjCf P—PsP»P»C-PSPiPмСҲҮP°-P·P»P»C-CfPsPSP°.

B

PмСҲҮPsC,PөPіPsPeP°P·P°PSPSCҮ.

PмC-PrPIPөC%PмPSP° C±CfC,P»PөPIC-CfC,CҲ PrPs PsPjPмPіСҲҮP°P·PsP»Cf,
P·P°PjC-C%PмPSPөC... P±PмPSP·PөPjC-PrP°P·PsP»C-PI P°P±Ps PrPs P±CfPrСҲ-CҮPePsC— P·
PrPsPіPsPjC-P¶PSPөC... СҲҮмC±PsPIPөPS.

PҲPrPSPsC±P°CfPSPм P·P°CfC,PсCfCfPIP°PSPSCҮ PsPjPмPіСҲҮP°P·PsP»Cf, CҮPe C-
C-PSCөPөC... C-PSPiC-P±C-C,PсСҲҮC-PI PіСҲҮPsC,PсPSPSPsC— PіPsPjPіPө (P†PмPм), P·
PSPмP»C,,C-PSP°PIC-CҲPsPj C,P° P°C,P°P·P°PSP°PIC-CҲPsPj PіСҲҮPsC,PөPіPsPeP°P·P°PSPм.

B

***P'P·P°C”PjPsPrC-CҮ P· C-PSCөPөPjPө P»C-PeP°СҲCfСҲPePөPjPө P·P°CfPsP±P°PjPө C,P°
C-PSCөC- PIPөPrPө PIP·P°C”PjPsPrC-P№.***

*P'PіP»PөPI PsPjPмPіСҲҮP°P·PsP»Cз PSP° C,,P°СҲҮPjP°PePsPeC-PSPмC,PөPeCз C-PSCөPөC...
P»C-PeP°СҲCfСҲPePөC... P·P°CfPsP±C-PI.*

*P>C-PeP°СҲCfСҲPeC- P·P°CfPsP±Pө, PICfPjPsPeC,CзPIP°PSPSCҮ CҮPePөC...
P·P°P»PмP¶PөC,CҲ PIC-Pr СҲPк CөP»CзPSPeP°.*

P₄CH₃P₂IPSC-C₄P₄PSPSC₄ C₆P»C₄PSPePsPIPSC— C₄P₄PeCH₃P₄C₄C— P₄C-Pr C₄P₄C₄
 P»C-PeC₄PIP₄PSPSC₄ PsPjP₄PiCH₃P₄P₄PsP»PsPj C, P₄ C-PSC₄PePjP₄P₄PiCH₃P₄PiP₄CH₃P₄C, P₄PjP₄P₄
 B PiCH₃C₄PiP₄P₄P₄PjPsP₄P₄P₄PSPeP₄C₄PiP₄C, P₄P₄±Ps P₄C-PrPIP₄C₄»C₄PiP₄C, P₄P₄
 P₄P₄±C₄P₄CH₃P₄±C₄C-C₄ P»C-PeP₄CH₃C₄CH₃PeP₄C... P₄P₄C₄P₄±C-Pi, P₄C₄PjPsPeC, C₄PiP₄PSPSC₄
 C₄PeP₄C... P₄P₄P»P₄P₄P₄PeC, CH₃ P₄C-Pr CH₃ C₆P»C₄PSPeP₄. P₄P₄ C- C₄ CH₃P₄P₄C-
 P₄P₄C₄C, PsC₄C₄PiP₄PSPSC₄ P₄ C-PSC₄PePjP₄P₄PiCH₃P₄PiP₄CH₃P₄C, P₄PjP₄P₄, C₄»Ps
 P₄PjP₄PSC₄C₄CH₃, CH₃ PIPSC₄C, CH₃C-CPSC₄PsC₆P»C₄PSPePsPIC₄ PeP₄C₄P»PsC, PSC-C₄C, CH₃,
 P₄P₄±C₄P₄CH₃P₄±C₄C-C₄ C, P₄PeP₄C... P₄CH₃P₄PiP₄CH₃P₄C, C-Pi C₄Pe PeP₄C, PsPePsPSP₄P₄PsP»,
 C-C, CH₃P₄PePsPSP₄P₄PsP», P₄ C, P₄PePsP₄ P₄CH₃P»PsC, P₄PePSC-P₄±, PjPsP₄P₄
 P₄PjP₄PSC₄C₄PiP₄C, P₄C₄C₄, C, PsPrC- C₄Pe P₄C₄PjPsPeC, C₄PiP₄PSPSC₄ C, P₄PeP₄C...
 P₄CH₃P₄PiP₄CH₃P₄C, C-Pi C₄Pe PrP₄PiPsPeC₄P₄PS, PjPsP₄P₄ P₄C-PrPIP₄C₄»C₄PiP₄C, P₄C₄C₄
 P₄C-Pr C₄P₄C₄P»C-PeC₄PIP₄PSPSC₄ PsPjP₄PiCH₃P₄P₄PsP»PsPj. PhPrPSPsC₄P₄C₄PSP₄
 P₄P₄C₄C, PsC₄C₄PiP₄PSPSC₄ PsPjP₄PiCH₃P₄P₄PsP»C₄ (20 PjPi PSP₄ PrPsP₄C₄) C, P₄
 PrP₄PiPsPeC₄P₄PS₄ C₄ P₄PrPsCH₃PsPIP₄C... PrPsP₄±CH₃PsPIP₄P»CH₃C₄C-Pi
 P₄C-PrPIP₄C₄»C₄PiP₄C»Ps P₄±C-PsPrPsC₄C, C₄PiPSC-C₄C, CH₃ PrP₄PiPsPeC₄P₄PS₄ PSP₄ 10 %
 (C₄ PrPIP₄C... C-P₄ PrP₄C₄C₄C, P₄ PrPsC₄P»C-PrP₄C₄PiP₄PSP₄C... PsC₄C-P₄± B₄“ PrPs 30 %).

P₄CH₃P»C₄„C-PSP₄PIC-CH₃, P₄C, P₄P₄P₄PSP₄PIC-CH₃.

P₄P»P₄P₄PjPsPIC- CH₃C-PIPSC- PSP₄P»C₄„C-PSP₄PIC-CH₃C₄ C, P₄ P₄C, P₄P₄P₄PSP₄PIC-CH₃C₄
 P₄PSPeP₄C₄CH₃C₄C₄ P₄CH₃P₄ PsPrPSPsC₄P₄C₄PSPsPjC₄ P₄P₄C₄C, PsC₄C₄PiP₄PSPSC- P₄
 PsPjP₄PiCH₃P₄P₄PsP»PsPj. PhPrPSPsC₄P₄C₄PSP₄ P₄P₄C₄C, PsC₄C₄PiP₄PSPSC₄
 PsPjP₄PiCH₃P₄P₄PsP»C₄ C- PSP₄P»C₄„C-PSP₄PIC-CH₃C₄ P₄CH₃PsC, P₄PiPsPeP₄P₄P₄PSP₄.

PhPrPSPsC₄P₄C₄PSP₄ P₄CH₃P₄P₄PSP₄C₄P₄PSPSC₄ PsPjP₄PiCH₃P₄P₄PsP»C₄ (40 PjPi 1 CH₃P₄P₄ PSP₄
 PrPsP₄C₄) P₄PSPeP₄C₄PiP₄P»Ps C₄P₄CH₃P₄PrPSC₄ P₄PeC₄PiPsP₄P₄C₄C-C₄
 PSP₄P»C₄„C-PSP₄PIC-CH₃C₄ P₄CH₃P₄P₄P»P₄PeP₄PSPs PSP₄ 40 %, P₄ C₄P₄CH₃P₄PrPSC₄
 P₄PeC₄PiPsP₄P₄P₄C₄C-C₄ C₄„P₄CH₃PjP₄PePsP»PsPiC-C₄PSPs P₄PeC, P₄PiPSPsPiPs
 PjP₄C, P₄P₄±PsP»C-C, C₄ P₄8 P₄PSPeP₄C₄PiP₄P»P₄C₄C₄ P₄CH₃P₄P₄P»P₄PeP₄PSPs PSP₄ 75-90 %.
 P₄P₄C₄“PjPsPrC-C₄ C, P₄PePsP₄P₄ PjPsP₄P₄ P₄±C₄C, P₄ P₄C₄PjPsPIP₄P₄PSP₄
 P₄CH₃P₄PiPSC-C₄P₄PSPSC₄Pj P₄PeC, P₄PiPSPsC₄C, C- CYP2C19.

PhPrPSPsC₄P₄C₄PSP₄ P₄P₄C₄C, PsC₄C₄PiP₄PSPSC₄ PsPjP₄PiCH₃P₄P₄PsP»C₄ P₄
 P₄C, P₄P₄P₄PSP₄PIC-CH₃PsPj P₄CH₃PsC, P₄PiPsPeP₄P₄P₄PSP₄.

PhPrPSPsC₄P₄C₄PSP₄ P₄P₄C₄C, PsC₄C₄PiP₄PSPSC₄ PsPjP₄PiCH₃P₄P₄PsP»C₄ (40 PjPi 1 CH₃P₄P₄ PSP₄
 PrPsP₄C₄) C, P₄ P₄C, P₄P₄P₄PSP₄PIC-CH₃C₄ Pi PrPsP₄C- 300 PjPi/ CH₃P₄C, PsPSP₄PIC-CH₃C₄ Pi
 PrPsP₄C- 100 PjPi C₄ P₄PrPsCH₃PsPIP₄C... PrPsP₄±CH₃PsPIP₄P»CH₃C₄C-Pi P₄CH₃P₄PiPsPrP₄P»Ps
 PrPs P₄PSPeP₄P₄PSPSC₄ PSP₄ 75 % P₄PeC₄PiPsP₄P₄P₄C₄C— P₄C, P₄P₄P₄PSP₄PIC-CH₃C₄.
 P₄C-PrPIP₄C₄»P₄PSPSC₄ PrPsP₄P₄ P₄C, P₄P₄P₄PSP₄PIC-CH₃C₄ PrPs 400 PjPi PSP₄
 PePsPjP₄P₄PSC₄C₄PiP₄P»Ps P₄PiP»P₄Pi PsPjP₄PiCH₃P₄P₄PsP»C₄ PSP₄ P₄PeC₄PiPsP₄P₄P₄C₄C-C₄
 P₄C, P₄P₄P₄PSP₄PIC-CH₃C₄. PhPrPSPsC₄P₄C₄PSP₄ P₄P₄C₄C, PsC₄C₄PiP₄PSPSC₄
 PsPjP₄PiCH₃P₄P₄PsP»C₄ (20 PjPi 1 CH₃P₄P₄ PSP₄ PrPsP₄C₄) P₄ P₄C, P₄P₄P₄PSP₄PIC-CH₃PsPj C₄
 PrPsP₄C- 400 PjPi/CH₃P₄C, PsPSP₄PIC-CH₃PsPj C₄ PrPsP₄C- 100 PjPi C₄ P₄PrPsCH₃PsPIP₄C...
 PrPsP₄±CH₃PsPIP₄P»CH₃C₄C-Pi P₄CH₃P₄PiPsPrP₄P»Ps PrPs P₄PSPeP₄P₄PSPSC₄
 P₄CH₃P₄P₄P»P₄PeP₄PSPs PSP₄ 30 % P₄PeC₄PiPsP₄P₄P₄C₄C— P₄C, P₄P₄P₄PSP₄PIC-CH₃C₄
 P₄PsCH₃C-PIPSC₄IPSPs P₄ P₄C, P₄P₄P₄PSP₄PIC-CH₃PsPj Pi PrPsP₄C- 300
 PjPi/CH₃P₄C, PsPSP₄PIC-CH₃PsPj Pi PrPsP₄C- 100 PjPi 1 CH₃P₄P₄ PSP₄ PrPsP₄C₄.

P₄“P₄PiPsPeC₄P₄PS.

PhPrPSPsC₄P₄C₄PSP₄ P»C-PeC₄PIP₄PSPSC₄ PsPjP₄PiCH₃P₄P₄PsP»PsPj (20 PjPi PSP₄ PrPsP₄C₄)

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...PİPsCĤCĤPIP°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.*

PñPjPµPİCĤP°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

PiC7P5C,PsPSPSPsPiPs PSP°C7P5C7P°. Pj C7P°P·C- PSPµPsP±C...C-PrPSPsC7C,C-
P·P°C7C,PsC7C7P°PSPSC7 PjPµC,PsC,C7PµPeC7P°C,C7 C7 PIPëC7P5PePëC... PrPsP·P°C...
C7P»C-Pr C7P5P·PiP»C7PSC7C,Pë PiPëC,P°PSPSC7 PiC7P5 C,PëPjC7P°C7P5PIC7 PIC-PrPjC-PSC7
PsPjPµPiC7P°P·PsP»C7.

P7PiP»PëPI C-PSCëPëC... P»C-PeP°C7C7CHPePëC... P·P°C7PsP±C-PI PSP°
C,,P°C7PjP°PePsPeC-PSPµC,PëPeCé PsPjPµPiC7P°P·PsP»Cé.

P7PSPiC-P±C-C,PsC7Pë CYP2C19 C,P°/P°P±Ps CYP3A4.

PhC7PeC-P»CHPePë PsPjPµPiC7P°P·PsP» PjPµC,P°P±PsP»C-P·C7C”C,CHC7C7 P·P°
PrPsPiPsPjPsPiPsC7 C,,PµC7PjPµPSC,C-PI CYP2C19 C,P° CYP3A4, PiC7PµPiP°C7P°C,Pë, C%Ps,
C7Pe PIC-PrPsPjPs, PiC7PëPiPSC-C7C7C,CH P°PeC,PëPIPSC-C7C,CH CYP2C19 P°P±Ps
CYP3A4, P°P±Ps PsP±PsC... C,,PµC7PjPµPSC,C-PI (C,P°PeC- C7Pe
PeP»P°C7PëC,C7PsPjC-C7PëPS C,P° PIPsC7PëPePsPSP°P·PsP»), PjPsP7C7C,CH
PiC7PëP·PIPsPrPëC,Pë PrPs P·C7PsC7C,P°PSPSC7 C7C-PIPSC-PI PsPjPµPiC7P°P·PsP»C7 PI
C7PëC7PsPIP°C,C7C- PeC7PsPIC- C7 C7PµP·C7P»CHC,P°C,C- C7PiPsPIC-P»CHPSPµPSPSC7
CëPIPëPrPePsC7C,C- PNePsPiPs PjPµC,P°P±PsP»C-P·PjC7. PhPrPSPsC7P°C7PSPµ
P·P°C7C,PsC7C7P°PSPSC7 PIPsC7PëPePsPSP°P·PsP»C7 PiC7PëP·PIPsPrPëP»Ps PrPs
P±C-P»CHCë PSC-P7 PrPIPsC7P°P·PsPIPsPiPs P·C7PsC7C,P°PSPSC7 PµPeC7PiPsP·PëC7C-C—
PsPjPµPiC7P°P·PsP»C7. PhC7PeC-P»CHPePë PIPëC7P5PeC- PrPsP·Pë PsPjPµPiC7P°P·PsP»C7
PiPµC7PµPSPsC7PëP»PëC7C7 PrPsP±C7Pµ, PePsC7PµPeC7C-C7 PrPsP·Pë
PsPjPµPiC7P°P·PsP»C7, C7Pe PiC7P°PIPëP»Ps, PSPµ PiPsC,C7C-P±PSP°. PhPrPSP°Pe C7P»C-Pr
C7PsP·PiP»C7PSC7C,Pë PiPëC,P°PSPSC7 PiC7Ps PePsC7PµPeC7C-C7 PrPsP·Pë PrP»C7
PiP°C7C-C”PSC,C-PI C-P· C,C7P7PePsC7 PiPµC7C-PSPePsPIPsC7 PSPµPrPsC7C,P°C,PSC-C7C,C7
C- C7 C7P°P·C-, C7PeC%Ps PiPsPeP°P·P°PSPs C,C7PëPIP°P»Pµ P»C-PeC7PIP°PSPSC7.

PhPjPµPiC7P°P·PsP» C7P°C7C,PePsPIPs PjPµC,P°P±PsP»C-P·C7C”C,CHC7C7 C,P°PePsP7 CYP3A4,
P°P»Pµ PSPµ PiC7PëPiPSC-C7C7C C7PµPNe C,,PµC7PjPµPSC,. P7P°PePëPj C7PëPSPsPj,
PsPjPµPiC7P°P·PsP» PSPµ PIPiP»PëPIP°C” PSP° PjPµC,P°P±PsP»C-P·Pj PiC7PµPiP°C7P°C,C-PI,
C%Ps PjPµC,P°P±PsP»C-P·C7C,CHC7C7 CYP3A4, C,P°PePëC... C7Pe
C7PëPeP»PsC7PiPsC7PëPS, P»C-PrPsPeP°C—PS, C...C-PSC-PrPëPS, PµC7C,C7P°PrC-PsP»,
PµC7PëC,C7PsPjC-C7PëPS C,P° P±C7PrPµC7PsPSC-Pr.

P7PSP7C7PeC,PsC7Pë CYP2C19 C,P°/P°P±Ps CYP3A4.

PµC7PµPiP°C7P°C,Pë, C%Ps, C7Pe PIC-PrPsPjPs, C-PSP7C7PeC7C,CH
P°PeC,PëPIPSC-C7C,CH CYP2C19 P°P±Ps CYP3A4, P°P±Ps PsP±PsC... C,,PµC7PjPµPSC,C-PI
(C,P°PeC- C7Pe C7PëC,,P°PjPiC-C7PëPS C,P° P·PIC-C7PsP±C-PNe), PjPsP7C7C,CH
PiC7PëP·PIPsPrPëC,Pë PrPs P·PSPëP7PµPSPSC7 C7C-PIPSC-PI PsPjPµPiC7P°P·PsP»C7 PI
C7PëC7PsPIP°C,C7C- PeC7PsPIC- C7 C7PµP·C7P»CHC,P°C,C- PiC7PëC7PePsC7PµPSPSC7
CëPIPëPrPePsC7C,C- PNePsPiPs PjPµC,P°P±PsP»C-P·PjC7.

B

PhC7PsP±P»PëPIPsC7C,C- P·P°C7C,PsC7C7PIP°PSPSC7.

PµC7Pë PSP°C7PIPSPsC7C,C- P±C7PrCH-C7PePsPiPs C,C7PëPIPsP7PSPsPiPs C7PëPjPiC,PsPjC7
(PSP°PiC7PëPeP»P°Pr P·PSP°C7PSPsC— PjPëPjPsPIC-P»CHPSPsC— PIC,C7P°C,Pë PjP°C7Pë
C,C-P»P°, PiPµC7C-PsPrPëC7PSPs PiPsPIC,PsC7C7PIP°PSPsPiPs P±P»C7PIP°PSPSC7,
PrPëC7C,,P°PiC-C—, PeC7PëPIP°PIPsPiPs P±P»C7PIP°PSPSC7 P°P±Ps PjPµP»PµPSPë) C,P°
PiC7Pë PiC-PrPsP·C7C- P°P±Ps PiC7Pë PSP°C7PIPSPsC7C,C- PIPëC7P°P·PePë CëP»C7PSPeP°

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°PSPrP°CñC,PSCñ PrPμPSPSCñ PrPsP·Cñ),
C%°Ps PñCñPëP·PIPpsPrPëP»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°PñCñPμPñP°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-PSPñC-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-PSPñC-P±C-C,PsCñPsPj
PñCñPsC,PsPSPSPsPiPs PSP°CñPsCñP° PSPμ PjPsPñPSP° CñPSPëPePSCñC,Pë,
CñPμPePsPjPμPSPrCñC”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
PñCñPëPñPSC-CñCñCñC,CH CñPμPeCñPμCñC-Cñ CñPsP»CñPSPsC— PePëCñP»PsC,Pë
CëP»CñPSPePsPIPpsPiPs CñPsPeCñ, PjPsPñPμ P·PjPμPSCëPëC,Pë PICñPjPsPeC,CñPIP°PSPSCñ
PIC-C,P°PjC-PSCñ P’₁₂ (CñC-P°PSPsPePsP±P°P»P°PjC-PSCñ) CñPμCñPμP· PñC-PñPs- P°P±Ps
P°C...P»PsCñPñC-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-PSCñ P’₁₂ PñCñPë
PrPsPIPñPsC,CñPëPIP°P»C-Pñ C,PμCñP°PñC-C—.

PñPjPμPñCñP°P·PsP» C” C-PSPñC-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·PñP»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-PñP°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-PSPñC-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, PsCfPsP±P»PëPIPs Cр PIPëCfPsPePëC... PrPsP·P°C... C,P°
CрPіCђPsPrPsPIP¶ C,ЧђPëPIP°P»PsPiPs C†P°CfCрB (> 1 ЧђPsPeCр), PrPμC%Ps
PіC-PrPIPëC%CрC” ЧђPëP·PëPe PіPμЧђPμP»PsPjC-PI CfC,PμPiPSP°, P·P°Pіbђ™ CЦCfC,CЦ C,P°
C...ЧђPμP±C,P°, PI PsCfPSPsPIPSpPjCр Cр PіP°C†C-C”PSC,C-PI P»C-C,PSCђPsPiPs PIC-PeCр
P°P±Ps Cр ЧђP°P·C- PSP°CЦPIPSpSCfC,C- C-PSCëPëC... C,,P°PeC,PsЧђC-PI ЧђPëP·PëPeCр.
P—P° PrP°PSPëPjPë PrPsCfP»C-PrP¶PμPSCђ, P†PμPμ PіC-PrPIPëC%CрЧђC,Чђ ЧђPëP·PëPe
PіPμЧђPμP»PsPjC-PI P·P°PiP°P»PsPj PSP° 10bђ”40 %. PJ PrPμCЦPePëC... PIPëPіP°PrPeP°C... C†Pμ
PіPsPіbђ™ CЦP·P°PSPs P· PSP°CЦPIPSpSC-CfC,Чђ Cр PіP°C†C-C”PSC,P° C-PSCëPëC...
C,,P°PeC,PsЧђC-PI ЧђPëP·PëPeCр. PμP°C†C-C”PSC,P°Pj C-P· ЧђPëP·PëPePsPj
PsCfC,PμPsPіPsЧђPsP·Cр CfP»C-Pr P·P°P±PμP·PіPμC†PëC,Pë PSP°P»PμP¶PSPμ
P»C-PeCрPIP°PSPSCЦ C,P° P°PrPμPePIP°C,PSPμ P·P°CfC,PsCfCрPIP°PSPSCЦ PIC-C,P°PjC-PSCр
D C- PeP°P»ЧђC†C-Чђ.

PіPe C- PіЧђPë P±CрPrЧђ-ЦЦPePsPjCр PrPsPіPiPsCfC,ЧђPsPePsPIPsPjCр P»C-PeCрPIP°PSPSC-,
PsCfPsP±P»PëPIPs PePsP»Pë PіPμЧђC-PsPr P»C-PeCрPIP°PSPSCЦ PsPjPμPіЧђP°P·PsP»PsPj
PіPμЧђPμPIPëC%CрC” 1 ЧђC-Pe, PіP°C†C-C”PSC,P°Pj PіPsC,ЧђC-P±PμPS PjPμPrPëC†PSPëP№
PSP°PiP»CЦPr C,P° ЧђPμPiCрP»CЦЧђPSPμ P»P°P±PsЧђP°C,PsЧђPSPμ PIPëP·PSP°C†PμPSPSCЦ
PIPjC-CfC,Cр PjP°PiPSC-Чђ C- PeP°P»ЧђC†C-Чђ Cр CfPëЧђPsPIP°C,C†C- PeЧђPsPIC-.

PJ C...PIPsЧђPëC..., CЦPeC- PіЧђPëP№PjP°ЧђC,Чђ P†PμPμ, PIPëP»ЧђC†P°ЧђC†Pë
PsPjPμPіЧђP°P·PsP», CрPіЧђPsPrPsPIP¶ C%PsPSP°P№PjPμPSCëPμ 3 PjC-CfCЦC†C-PI, PjPsP¶Pμ
PIPëPSPëPePSCрC,Pë CfCрC,C,C”PIP° PіC-PіPsPjP°PiPSC-C”PjC-CЦ (Cр P±C-P»ЧђCëPsCfC,C-
PIPëPіP°PrPeC-PI PіC-PіPsPjP°PiPSC-C”PjC-C— PіP°C†C-C”PSC,Pë P·P°CfC,PsCfPsPICрPIP°P»Pë
PіЧђPμPіP°ЧђP°C, PіЧђPëP±P»PëP·PSPs 1 ЧђC-Pe).

PμC-CfP»CЦ PIC-PrPjC-PSPë PіЧђPμPіP°ЧђP°C,Cр ЧђC-PIPμPSCђ
CfPëЧђPsPIP°C,PePsPIPsPiPs PjP°PiPSC-Чђ PіPsPIPμЧђC,P°PICfCЦ PrPs PSPsЧђPjPë. P”P»CЦ
PeP»C-PSC-C†PSPsC— PeP°ЧђC,PëPSPë PіC-PіPsPjP°PiPSC-C”PjC-C— C...P°ЧђP°PeC,PμЧђPSPμ:
P·P±C-P»ЧђCëPμPSPSCЦ PSPμЧђPIPsPIPs-Pjbђ™ CЦP·PsPIPsC— P·P±CрPrP»PëPIPsCfC,C-,
CЦPeP° PіЧђPsCЦPIP»CЦC”C,ЧђCfCЦ CfPіP°P·PjPsPj Pjbђ™ CЦP·C-PI PePëCfC,PμP№ C-
CfC,PsPі, ЧђCрC...PsPIPëPj P·P±CрPrP¶PμPSPSCЦPj; C,P°C...C-PeP°ЧђPrC-C”Чђ,
P°ЧђPëC,PjC-C”Чђ CfPμЧђC†CЦ, PіC-PrPIPëC%PμPSPSCЦPj P°ЧђC,PμЧђC-P°P»ЧђPSPsPiPs
C,PëCfPeCр; PrPëCfC,ЧђPsC,,C-C†PSPëPjPë ЧђPsP·P»P°PrP°PjPë Cр PIPëPiP»CЦPrC-
C,ЧђPsC,,C-C†PSPëC... PμЧђPsP·C-P№ C- PIPëЧђP°P·PsPe CëPeC-ЧђPë. PљЧђPëC,PμЧђC-P№
PICfC,P°PSPsPIP»PμPSPSCЦ PrC-P°PiPSPsP·Cр PіC-PіPsPjP°PiPSC-C”PjC-C— bђ”
P·PSPëP¶PμPSPSCЦ PePsPSC†PμPSC,ЧђP°C†C-C— PjP°PiPSC-Чђ Cр CfPëЧђPsPIP°C,C†C-
PeЧђPsPIC- PjPμPSCëPμ 1 PjP·PePI/P». PљЧђC-Pj C,PsPiPs, P±CрP»Pë PIPëCЦPIP»PμPSC-
PIPëPіP°PrPePë, PePsP»Pë PіC-PіPsPjP°PiPSC-C”PjC-CЦ PіЧђPëP·PIPsPrPëP»P° PrPs
ЧђPsP·PIPëC,PeCр PіC-PіPsPeP°P»ЧђC†C-C”PjC-C—, P·CрPjPsPIP»PμPSPsC—
PіЧђPëPiPSC-C†PμPSPSCЦPj CfPμPeЧђPμC†C-C— PіP°ЧђP°C,PіPsЧђPjPsPSCр PI CрPjPsPIP°C...
PSPëP·ЧђPePsPiPs PIPjC-CfC,Cр PjP°PiPSC-Чђ PI PsЧђPiP°PSC-P·PjC-. PJ PrPμCЦPePëC...
PіP°C†C-C”PSC,C-PI CfPіPsCfC,PμЧђC-PіP°PICfCЦ C,CЦP¶PePëP№ PіPμЧђPμP±C-Pi
PіC-PіPsPeP°P»ЧђC†C-C”PjC-C— C- PіC-PіPsPjP°PiPSC-C”PjC-C—, P· ЧђPsP·PIPëC,PePsPj
CfCрPrPsPjPSPsPiPs CfPëPSPrЧђPsPjCр, PіPsЧђCрCëPμPSPSCЦPj ЧђPëC,PjCр CfPμЧђC†CЦ,
C,PμC,P°PSC-C”Чђ, PіCfPëC...C-C†PSPëPjPë PіPsЧђCрCëPμPSPSCЦPjPë C- C,CЦP¶PePëPj
P±P»ЧђPIP°PSPSCЦPj, C%Ps PіЧђPëP·PIPsPrPëP»Ps PrPs PіPsЧђCрCëPμPSPSCЦ
PμP»PμPeC,ЧђPsP»C-C,PSPsPiPs P±P°P»P°PSCfCр.

PμC-Pr C†P°Cf P»C-PeCрPIP°PSPSCЦ P°PSC,PëCfPμPeЧђPμC,PsЧђPSPëPjPë
PіЧђPμPіP°ЧђP°C,P°PjPë PePsPSC†PμPSC,ЧђP°C†C-CЦ PіP°CfC,ЧђPëPSCр Cр PіP»P°P·PjC-
PeЧђPsPIC- P·P±C-P»ЧђCëCрC”C,ЧђCfCЦ Cр ЧђPμP·CрP»ЧђC,P°C,C- P·PSPëP¶PμPSPSCЦ
CfPμPeЧђPμC†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%oPs 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-PrPiPsCÍC,CĤPëPNë C€PeC-CĤPSPëPNë C†PµCĤPIPSPSPëPNë PIPsPIC†P°Pe (PµPëPŞP’)

P—P°CÍC,PsCÍCÍPIP°PSPSC¼ P†PµPµ PjPsP¶Pµ P±CÍC,Pë PİPsPIbĤ™ C¼P·P°PSPµ P· PrCÍP¶Pµ
CĤC-PrPeC-CÍPSPëPjPë PIPëPİP°PrPeP°PjPë PµPëPŞP’. PİPeC%oPs PIPëPSPëPeP°CĤC,CH
PİPsC€PePsPrP¶PµPSPSC¼, PsCÍPsP±P»PëIPs PSP° PrC-P»C¼PSPeP°C... C€PeC-CĤPë, C%oPs
PİC-PrPrP°CĤC,CHCÍC¼ PIPİP»PëPICÍ CÍPsPSC†C¼, C- C¼PeC%oPs PIPsPSPë
CÍCÍPİCĤPsPIPsPrP¶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 PSPëCĤPePsPIPsC— 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
PjPi)/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»CHbPSPs (PiCThPsC,CiPiPsPj 5 C...PIPeP»PePS).

PtPSCfC,CtCrPeCtC-Ci C%oPsPrPs PIC-PrPSPsPIP»PμPSPSCi PiCThPμPiP°CThP°C,Cr
PiPμCThPμPr PIPIPμPrPμPSPSCiPj

PJPIPμCfCH PIPjC-CfC, PePsP¶PSPsPiPs C„P»P°PePsPSP° CfP»C-Pr CtHsP·CtPePSPeC,Pe
PiCThPeP±P»PeP·PSPs PI PsP±bTTMC”PjC- 5 PjP», P° PiPsC,C-Pj PsPrCtH°P·Cr P¶
CtHsP·PIPμCfC,Pe PI PsP±bTTMC”PjC- PrPs 100 PjP». PkPμPsP±C...C-PrPSPs
PIPePePsCtHPeCfC,PsPICrPIP°C,Pe 0,9 % CtHsP·CtPePS C...P»PsCtHPePrCr PSP°C,CtH-CtH
P°P±Ps

5 % CtHsP·CtPePS PiP»CtHPePsP·Pe. PŸC,P°P±C-P»CHbPSC-CfC,CH PsPjPμPiCTH°P·PsP»Cr
P·P°P»PμP¶PeC,CH PIC-Pr CtHk CtHsP·CtPePSCr PrP»Ci C-PSC„CrP·C-C—, C,PsPjCr PrP»Ci
CtHsP·PIPμPrPμPSPSCi PSPμ CfP»C-Pr P·P°CfC,PsCfPsPICrPIP°C,Pe C-PSCePePN₂
CtHsP·CtPePSPSPeP°P±Ps C-PSCeCr PN₂PsPiPs PeC-P»CHbPeC-CfC,CH.

PμC-PrPiPsC,PsPIPeP°.

1.P—P° PrPsPiPsPjPsPiPsCt C¶PiCTHPeCtP° PIC-PrC-P±CtH°P°C,Pe 5 PjP» CtHsP·CtPePSCr
PrP»Ci C-PSC„CrP·C-C— P·C- CfC,P°PjC-P»C-P»C-C,CtHsPIPsC— PiP»CiC¶PePe P°P±Ps
PjC-C¶PeP° PrP»Ci C-PSC„CrP·C-C—.

2.P”PsPrP°C,Pe CtPμPN₂ PsP±bTTMC”Pj PrPs C„P»P°PePsPSP° P· P»C-PsC„C-P»C-P·PsPIP°PSPePj
PsPjPμPiCTH°P·PsP»PsPj, CtHμC,PμP»CHbPSPs PiPμCtHμPjC-C¶P°C,Pe,
PiPμCtHμPePsPSP°PICePeCfCH, C%oPs PIPμCfCH PiCTHμPiP°CThP°C, CtHsP·CtPePSPePICfCi.

3.P’C-PrC-P±CtH°P°C,Pe CtHsP·CtPePS PsPjPμPiCTH°P·PsP»Cr PSP°P·P°Pr Cr C¶PiCTHPeCt.

4.PμPμCtHμPSPμCfC,Pe CtHsP·CtPePS Cr PjC-C¶PsPe P°P±Ps PiP»CiC¶PeCr PrP»Ci
C-PSC„CrP·C-C—.

5.PμPsPIC,PsCtHPeC,Pe PμC,P°PiPe 1bT”4, C%oPsP± PiPμCtHμPePsPSP°P,PeCfCi, C%oPs
CrPIPμCfCH PsP±bTTMC”Pj PsPjPμPiCTH°P·PsP»Cr PiPμCtHμPSPμCfPμPSPs P· C„P»P°PePsPSP°
Cr PjC-C¶PsPe P°P±Ps PiP»CiC¶PeCr PrP»Ci C-PSC„CrP·C-C—.

*PtP»CHbC,PμCtH°PSP°C,PePIPSPePN₂ PjPμC,PsPr PiC-PrPiPsC,PsPIPePe CtHsP·CtPePSCz PrP»Ci
C-PSC„CzP·C-PN₂ PI PμP»P°CfC,PeCtPSPsPjCz PePsPSC,PμPN₂PSPμCtH-C.*

1. P”PIPsCfC,PsCtHsPSPSCt PiPsP»PeCr-PiPμCtHμC...C-PrPSPePe PiCTHPeC”PrPSP°C,Pe PrPs
C-PSbTTMC”PeCtC-PN₂PSPsC— PjPμPjP±CtH°PSPe PjC-C¶PeP° PrP»Ci C-PSC„CrP·C-C—.
PμC-PrPeP»CHCtPeC,Pe C-PSCePePN₂ PeC-PSPμCfCH PiPsP»PePe PrPs C„P»P°PePsPSP° P·
P»C-PsC„C-P»C-P·PsPIP°PSPePj PsPjPμPiCTH°P·PsP»PsPj.
2. P PsP·CtPePSPeC,Pe CfCrP±CfC,P°PSCtC-CH PsPjPμPiCTH°P·PsP»Cr C¶P»CiC...PsPj
PiCTHsPeP°CtCrPIP°PSPSCi C-PSC„CrP·C-PN₂PSPsPiPs CtHsP·CtPePSCr PIPIPμCtHμPr-
PSP°P·P°Pr PjC-P¶ PjC-C¶PePsPj PrP»Ci C-PSC„CrP·C-C— C- C„P»P°PePsPSPsPj.
3. PμPμCtHμPePsPSP°C,PeCfCi Cr C,PsPjCr, C%oPs PIPμCfCH PiCTHμPiP°CThP°C,
CtHsP·CtPePSPePICfCi.

PkC,CtHPePjP°PSPePN₂ CtHsP·CtPePS PSPμPsP±C...C-PrPSPs PIPePePsCtHPeCfC,P°C,Pe PrP»Ci
PiCTHsPIPμPrPμPSPSCi PIPSCrC,CtH-C¶PSCbPsPIPμPSPSPsC— C-PSC„CrP·C-C—
PiCTHsPsC,CiPiPsPj 20-30 C...PIPeP»PePS.

P’CrPrCH-CiPePePN₂ PSPμPIPePePsCtHPeCfC,P°PSPePN₂ P»C-PeP°CtCfCHPePePN₂ 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-PMḡ 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-PMḡ PSPëCḡPsPe.

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

P”P»Cḡ PïP°C†C-C”PSC,C-PI C-P· PïPsCḡCḡC€PµPSPSCḡPjPë C,,CḡPSPeC†C-PMḡ 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 PIPµPrPµPSPSCḡ Cḡ PïPµPrC-P°C,CḡPëC†PSC-PMḡ PïCḡP°PeC,PëC†C- PsP±PjPµPḡPµPSPëPMḡ, C,PsPjCḡ PïCḡPµPïP°CḡP°C, PSPµ CḡP»C-Pr PïCḡPëP·PSP°C†P°C,Pë C†C-PMḡ 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°PMḡPSPsC— 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 PḡPëPIP°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,CHḡ CḡPIC-PrPsPjPsCḡC,C-.

PhPïPëCḡP°PSC- CḡPëPjPïC,PsPjPë P±CḡP»Pë C,PëPjC†P°CḡPsPIPëPjPë C- PïPsPIC-PrPsPjP»PµPSCHḡ PïCḡPs CḡPµCḡPMḡPsP·PSC- PSP°CḡP»C-PrPePë PSPµ PSP°PrC...PsPrPëP»Ps. PëPIPëPrPeC-CḡC,CHḡ 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.

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

B

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

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

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

B

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

B

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

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—, PsCḡPsP±P»PēPIPs C†
PIPμP»PēPePēC... PrPsP·P°C..., P°P»Pμ PīCḡPēC†PēPSPSPs-PSP°CḡP»C-PrPePsPIPēPNē
P·PIḡḡ™ CΠP·PsPe PSPμ PICḡC,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-CḡP»CΠ CḡPμC"ḡC,CḡP°C†C-C— P»C-PeP°CḡCḡḡPePsPiPs
P·P°CḡPsP±C† C" PrC†P¶Pμ PIP°P¶P»PēPIPēPj. P|Pμ PrP°C" P·PjPsPiC† PīPsCḡC,C-PNēPSPs
CḡPīPsCḡC,PμCḡC-PiP°C,Pē P·P° CḡPīC-PIPIC-PrPSPsCēPμPSPSCΠPj
PePsCḡPēCḡC,Cḡ/CḡPēP·PēPe PīCḡPμPīP°CḡP°C,C†. PḡPμPrPēC†PSPēC...
PīCḡP°C†C-PIPSPēPeC-PI PīCḡPsCḡCḡC,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† CḡPēCḡC,PμPjC† P·PIC-C,PSPsCḡC,C-.

B

PḡPμCḡPjC-PS PīCḡPēPrP°C,PSPsCḡC,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
PSPμPrPsCḡC,C†PīPSPsPjC† PrP»CΠ PrC-C,PμPNē PjC-CḡC†C-.

B

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

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

B

PḡPμCḡCḡPjC-CḡPSC-CḡC,Cḡ.

PμCḡPμPīP°CḡP°C, PSPμ CḡP»C-Pr P·PjC-CēC†PIP°C,Pē P· C-PSCēPēPjPē
P»C-PeP°CḡCḡḡPePēPjPē P·P°CḡPsP±P°PjPē, PeCḡC-Pj P·PiP°PrP°PSPēC... C† CḡPsP·PrC-P»C-
B«PḡPīPsCḡC-P± P·P°CḡC,PsCḡC†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†CḡPeC†. P—P° CḡPμC†PμPīC,PsPj.

В

Р'РёСђРѕР±РѕРёРё.

Р"Р•РёРё РŸ.Рё. РѠР°СђРјР°СђСёСёС,С-РёР°Р» Р†РѕРјР°СђС,СёС-.

В

РёС-СђС†РµР•РѕС...РѕРјР¶РµРµРѕРѕС РІРёСђРѕР±РёРёРё Р,Р° Р°РјСђРµСђР° РјС-СђС†С РёСђРѕРјР°РјРµРѕРѕ Р№РѕРѕРѕ РјС-СёР»СёРѕСђС,С-.

21-Р№ РёС-Р»РѕРјРµС,Сё РѕС†С-РѕРѕР»Р»СёРѕРѕРё РёРѕСђРµ РёС,С-РѕРё - Р»Р°РјСёС-РѕРѕРµСёС- РёС,С,РёРёР°, 14568, Р"СёРµС†С-С.