

$$\begin{aligned} & \text{PhCl}^+\text{PeC-P} \gg \text{CH}_3\text{PeP} \ddot{\text{e}} \text{ P}^\circ \text{PSPiC-PsC}, \text{P}_\mu \text{PSP} \cdot \text{P} \ddot{\text{e}} \text{PS P}^\dagger \text{P}^\dagger \text{C}, \text{P}^\circ \text{PePsP} \parallel \text{Cl}^+\text{C}, \text{P} \ddot{\text{e}} \text{PjCl}^+\text{P} \gg \text{CH}_3\text{C}'' \\ & \text{PIP} \ddot{\text{e}} \text{PIC-P} \gg \text{CH}_3\text{PSP}_\mu \text{PSPSCl} \parallel \text{P}^\circ \text{P} \gg \text{CH}_3\text{PrPsCl}^+\text{C}, \text{P}_\mu \text{Cl}^+\text{PsPSCl}^+, \text{Cl}^+\text{P}^\circ \text{PjC-PiCl}^+\text{P} \ddot{\text{e}} \text{P} \gg \text{P}^\circ \text{C}, \\ & \text{Cl}^+\text{PiCl}^+\text{P} \ddot{\text{e}} \text{Cl} \parallel \text{C}'' \text{ P-PjP}_\mu \text{PSC} \epsilon \text{P}_\mu \text{PSPSCl}^+ \text{Cl}^+\text{P}_\mu \text{PeCl}^+\text{P}_\mu \text{Cl}^+\text{C-C} - \text{P}^\circ \text{P} \gg \text{CH}_3\text{PrPsCl}^+\text{C}, \text{P}_\mu \text{Cl}^+\text{PsPSCl}^+. \end{aligned}$$

P'CrP»Ps PiCḡPsPIPμPrPμPSPs PiCḡPμPIPμPSC,PēPIPSPμ PiP»P°C†PμP±Ps-
 PePsPSC,CḡPsP»CHḡPsPIP°PSPμ PrPsCḡP»C-PrP¶PμPSPSC¶ (PrPsCḡP»C-PrP¶PμPSPSC¶ HOPE)
 P·P° CrC‡P°CḡC,Cḡ PiPsPSP°Pr 9200 PiP°C†C-C''PSC,C-PI, C¶PeC- PrPsPrP°C,PePsPIPs PrPs
 CḡC,P°PSPPrP°CḡC,PSPsC— C,PμCḡP°PiC-C— PsC,CḡPēPjCrPIP°P»Pē CḡP°PjC-PiCḡPēP». Pj
 C†CHḡPsPjCr PrPsCḡP»C-PrP¶PμPSPSC- P±CḡP°P»Pē CrC‡P°CḡC,CH PiP°C†C-C''PSC,Pē P·
 PIPēCḡPsPePēPj CḡPēP·PēPePsPj PIPēPSPēPePSPμPSPSC¶ CḡPμCḡC†PμPIPs-
 CḡCḡPrPēPSPSPsPiPs P·P°C...PIPsCḡCḡPIP°PSPSC¶ PiC-CḡP»C¶ PiPμCḡPμPSPμCḡPμPSPsPiPs
 P°C,PμCḡPsC,CḡPsPjP±PsC,PēC‡PSPsPiPs CḡPμCḡC†PμPIPs-CḡCḡPrPēPSPSPsPiPs
 P·P°C...PIPsCḡCḡPIP°PSPSC¶ (PSP°C¶IPSC-CḡC,CH PI P°PSP°PjPSPμP·C-

C-C€PµPjC-C‡PSPsC— C...PIPsCŦPsP±Pë CŦPµCŦC†CŦ, C-PSCŦCŦP»CHbC,CŦ P°P±Ps P·P°C...PIPsCŦCŦPIP°PSPSCŦ PŦPµCŦPëC,,PµCŦPëC‡PSPëC... CŦCŦPrPëPS) P°P±Ps PŦP°C†C-C”PSC,Pë P· C†CŦPeCŦPsPIPëPj PrC-P°P±PµC,PsPj, CŦPeC- PjP°P»Pë PŦCŦPëPSP°PNëPjPSC- C‰Pµ PsPrPëPS PrPsPrP°C,PePsPIPëPNë C,,P°PeC,PsCŦ CŦPëP·PëPeCŦ (PrPsPeCŦPjPµPSC,P°P»CHbPSPs PŦC-PrC,PIPµCŦPrPŦPµPSP° PjC-PeCŦPsP°P»CHbP±CŦPjC-PSCŦCŦC-Ŧ, P°CŦC,PµCŦC-P°P»CHbPSP° PŦC-PŦPµCŦC,PµPSP·C-CŦ, PŦC-PrPIPëC‰PµPSPëPNë CŦC-PIPµPSCŦ P·P°PŦP°P»CHbPSPsPiPs C...PsP»PµCŦC,PµCŦPëPSCŦ, C...PsP»PµCŦC,PµCŦPëPSCŦ P»C-PŦPsPŦCŦPsC,PµC—PSC-PI PSPëP·CHbPePsC— C‰C-P»CHbPSPsCŦC,C- P°P±Ps PŦP°P»C-PSPSCŦ).

PŦPµ PrPsCŦP»C-PrPŦPµPSPSCŦ PŦCŦPsPrPµPjPsPSCŦC,CŦCŦPIP°P»Ps, C‰Ps CŦP°PjC-PŦCŦPëP» CŦC,P°C,PëCŦC,PëC‡PSPs PrPsCŦC,PsPIC-CŦPSPs P·PjPµPSC€CŦC” C‡P°CŦC,PsC,CŦ PŦPëPSPëPePSPµPSPSCŦ C-PSC,,P°CŦPeC,CŦ PjC-PsPeP°CŦPrP°, CŦPµCŦC†PµPIPs-CŦCŦPrPëPSPSPsC— CŦPjPµCŦC,C- C,P° C-PSCŦCŦP»CHbC,CŦ PŦCŦPë P·P°CŦC,PsCŦCŦPIP°PSPSC- CŦPe PsPeCŦPµPjPs, C,P°Pe C- PI PePsPjP±C-PSP°C†C-C— (PŦPµCŦPIPëPSPSP° PePsPjP±C-PSPsPIP°PSP° PeC-PSC†PµPIP° C,PsC‡PeP°).

P”PsCŦP»C-PrPŦPµPSPSCŦ HOPE: PsCŦPSPsPIPSC- CŦPµP·CŦP»CHbC,P°C,Pë

PµPsPeP°P·PSPëPe	P P°PjC-PŦCŦPëP» %	PµP»P°C†PµP±Ps %	P’C-PrPSPsCŦPSPëPNë CŦPëP·PëPe (95 % PrPsPIC-CŦC‡PëPNë C-PSC,PµCŦPIP°P»)	P—PSP°C‡PµPSPSCŦ P
PjCŦC- PŦP°C†C-C”PSC,Pë	n = 4,645	n = 4,652		
PµPµCŦPIPëPSPSP° PePsPjP±C-PSPsPIP°PSP° PeC-PSC†PµPIP° C,PsC‡PeP°	14	17,8	0,78 (0,7–0,86)	< 0,001
P†PSC,,P°CŦPeC, PjC-PsPeP°CŦPrP°	9,9	12,3	0,80 (0,7–0,9)	< 0,001
PŦPµCŦC†PµPIPs-CŦCŦPrPëPSPSP° CŦPjPµCŦC,CH	6,1	8,1	0,74 (0,64–0,87)	< 0,001
P†PSCŦCŦP»CHbC,	3,4	4,9	0,68 (0,56–0,84)	< 0,001
P’C,PsCŦPëPSPSC- PeC-PSC†PµPIC- C,PsC‡PePë				
PŦPjPµCŦC,CH C-P· P±CŦPrCH- CŦPePsC— PŦCŦPëC‡PëPSPë	10,4	12,2	0,84 (0,75–0,95)	0,005
PµPsC,CŦPµP±P° CŦ CŦPµPIP°CŦPeCŦP»CŦCŦPëP·P°C†C-C—	16,0	18,3	0,85 (0,77–0,94)	0,002
P”PsCŦPŦC-C,P°P»C-P·P°C†C-CŦ P· PŦCŦPëPIPsPrCŦ PSPµCŦC,P°P±C-P»CHbPSPsC— CŦC,PµPSPsPeP°CŦPrC—	12,1	12,3	0,98 (0,87–1,1)	PSPµ PrPsCŦC,PsPIC-CŦPSPs
P”PsCŦPŦC-C,P°P»C-P·P°C†C-CŦ P· PŦCŦPëPIPsPrCŦ CŦPµCŦC†PµPIPsC— PSPµPrPsCŦC,P°C,PSPsCŦC,C-	3,2	3,5	0,88 (0,7–1,1)	0,25
PjCŦPeP»P°PrPSPµPSPSCŦ, PŦPsPiëŦ CŦP·P°PSC- P· C†CŦPeCŦPsPIPëPj PrC-P°P±PµC,PsPj	6,4	7,6	0,84 (0,72–0,98)	0,03

Pj PŦCŦPsC†PµCŦC- PrPsCŦP»C-PrPŦPµPSPSCŦ MICRO-HOPE, PŦCŦPsPIPµPrPµPSPSCŦ CŦPePsPiPs P±CŦP»Ps PŦPsPŦPµCŦPµPrPSCŦPs P·P°PŦP»P°PSPsPIP°PSPs PI CŦP°PjPeP°C... PrPsCŦP»C-PrPŦPµPSPSCŦ HOPE, PŦPëPIC‡P°PICŦCŦ PµC,,PµPeC,, C‰Ps PŦPëPSPëPeP°PI PŦCŦPë PrPsPrP°PIP°PSPSC- CŦP°PjC-PŦCŦPëP»CŦ PI PrPsP·C-B 10 PjPi PrPs PSP°CŦPIPsPsC— CŦC...PµPjPë P»C-PeCŦPIP°PSPSCŦ PŦPsCŦC-PIPSCŦPSPs P· PŦP»P°C†PµP±Ps CŦ 3577 PŦP°C†C-C”PSC,C-PI PIC-PePsPj PIC-Pr 55 CŦPsPeC-PI (PIPµCŦC...PSCŦPsPiPs PIC-PePsPIPsPiPs PsP±PjPµPŦPµPSPSCŦ PSPµ P±CŦP»Ps) P· PSPsCŦPjP°P»CHbPSPëPj P°P±Ps PŦC-PrPIPëC‰PµPSPëPj P°CŦC,PµCŦC-P°P»CHbPSPëPj C,PëCŦPePsPj, P±C-P»CHbC€C-CŦC,CH C-P· CŦPePëC... C...PIPsCŦC-P»P° PSP° C†CŦPeCŦPsPIPëPNë PrC-P°P±PµC, 2-PiPs C,PëPŦCŦ (C-

PjP°P»P° C%PsPSP°PNPjPμPSC€Pμ PsPrPëPS C„P°PeC,PsCĤ CÍPμCĤC†PμPIPs-
CÍCrPrPëPSPSPsPiPs CĤPëP·PëPeCr).

P PμP·CrP»CHC,P°C,Pë PìPμCĤPIPëPSPSPsPiPs P°PSP°P»C·P·Cr
PìCĤPsPrPμPjPsPSCÍC,CĤCrPIP°P»Pë, C%Ps Cr 117 (6,5 %) CrC†P°CÍPSPëPeC-PI
PrPsCÍP»C-PrP¶PμPSPSCĬ, CĬPeC- PsC,CĤPëPjCrPIP°P»Pë CĤP°PjC-PìCĤPëP», C,P° Cr 149
(8,4 %) CrC†P°CÍPSPëPeC-PI, CĬPeC- PsC,CĤPëPjCrPIP°P»Pë PìP»P°C†PμP±Ps,
CĤPsP·PIPëPSCrP»P°CÍCĬ PIPëCĤP°P¶PμPSP° PSPμC„CĤPsPìP°C,C-CĬ, C%Ps
PIC-PrPìPsPIC-PrP°C” PIC-PrPSPsCÍPSPsPjCr P·PSPëP¶PμPSPSCĤ CĤPëP·PëPeCr PSP° 24 %;
95 % P”P† [3-40], p = 0,027.

PμPsPrPIC-PN°PSP° P±P»PsPeP°PrP° CĤPμPSC-PS-P°PSPiC-PsC,PμPSP·PëPS-
P°P»CHPrPsCÍC,PμCĤPsPSPsPIPsC— CÍPëCÍC,PμPjPë (P PhPĤPŸ)

PJ PrPIPsC... PjP°CÍC€C,P°P±PSPëC... CĤP°PSPrPsPjC-P·PsPIP°PSPëC...
PePsPSC,CĤPsP»CHPsPIP°PSPëC... PrPsCÍP»C-PrP¶PμPSPSCĬC... [ONTARGET
(PrPsCÍP»C-PrP¶PμPSPSCĬ PIPìP»PëPICr C,PμP»PjC-CÍP°CĤC,P°PSCr CĬPe
PjPsPSPsC,PμCĤP°PìC-C— C,P° Cr PePsPjP±C-PSP°C†C-C— P· CĤP°PjC-PìCĤPëP»PsPj PSP°
P·P°PìP°P»CHPSCr PeC-PSC†PμPICr C,PsC†PeCr) C- VA NEPHRON-D
(PrPsCÍP»C-PrP¶PμPSPSCĬ PSPμC„CĤPsPìP°C,C-C— PìCĤPë C†CrPeCĤPsPIPsPjCr
PrC-P°P±PμC,C-, CÍPìPsPSCÍPsPIP°PSPs PĤC-PSC-CÍC,PμCĤCÍC,PIPsPj P·C- CÍPìCĤP°PI
PIPμC,PμCĤP°PSC-PI)] PIPëPIC†P°P»PsCÍCĬ P·P°CÍC,PsCÍCrPIP°PSPSCĬ
PePsPjP±C-PSP°C†C-C— C-PSPiC-P±C-C,PsCĤP° PhPμPα P· P°PSC,P°PìPsPSC-CÍC,PsPj
CĤPμC†PμPìC,PsCĤC-PI P°PSPiC-PsC,PμPSP·PëPSCr II.

P”PsCÍP»C-PrP¶PμPSPSCĬ ONTARGET PìCĤPsPIPsPrPëP»PsCÍCĬ P·P° CrC†P°CÍC,CĤ
PìP°C†C-C”PSC,C-PI C-P· CÍPμCĤC†PμPIPs-CÍCrPrPëPSPSPëPjPë C†Pë
C†PμCĤPμP±CĤPsPIP°CÍPeCrP»CĬCĤPSPëPjPë P·P°C...PIPsCĤCĤPIP°PSPSCĬPjPë PI
P°PSP°PjPSPμP·C- P°P±Ps P· C†CrPeCĤPsPIPëPj PrC-P°P±PμC,PsPj 2-PìPs C,PëPìCr C-P·
CÍCrPìCrC,PSC-PjPë PsP·PSP°PeP°PjPë CrCĤP°P¶PμPSPSCĬ PsCĤPìP°PSC-PI-PjC-C€PμPSPμPN°.
PJ PrPsCÍP»C-PrP¶PμPSPSC- VA NEPHRON-D PIP·CĬP»Pë CrC†P°CÍC,CH PìP°C†C-C”PSC,Pë P·
C†CrPeCĤPsPIPëPj PrC-P°P±PμC,PsPj 2-PìPs C,PëPìCr C,P° PrC-P°P±PμC,PëC†PSPsCĤ
PSPμC„CĤPsPìP°C,C-C”CĤ.

PìC- PrPsCÍP»C-PrP¶PμPSPSCĬ PSPμ PìPsPeP°P·P°P»Pë P·PSP°C†CrC%PëC... PìPμCĤPμPIP°Pi
PePsPjP±C-PSPsPIP°PSPsC— C,PμCĤP°PìC-C— C%PsPrPs PSPëCĤPePsPIPëC... C-/P°P±Ps
CÍPμCĤC†PμPIPs-CÍCrPrPëPSPSPëC... PSP°CÍP»C-PrPeC-PI C,P° CÍPjPμCĤC,PSPsCÍC,C-,
C,PsPrC- CĬPe PìCĤPë C†CHPsPjCr CÍPìPsCÍC,PμCĤC-PìP°PICÍCĬ PìC-PrPIPëC%PμPSPëPN°
CĤPëP·PëPe PìC-PìPμCĤPeP°P»C-C”PjC-C—, PìPsCÍC,CĤPsC— PSPëCĤPePsPIPsC—
PSPμPrPsCÍC,P°C,PSPsCÍC,C- C-/P°P±Ps P°CĤC,PμCĤC-P°P»CHPSPsC— PìC-PìPsC,PμPSP·C-C—
PìPsCĤC-PIPSCĬPSPs P· PjPsPSPsC,PμCĤP°PìC-C”CĤ. P— PsPìP»CĬPrCr PSP° PìPsPrC-P±PSC-
C„P°CĤPjP°PePsPrPëPSP°PjC-C†PSC- C...P°CĤP°PeC,PμCĤPëCÍC,PëPePë P·P°P·PSP°C†PμPSPëC...
PìCĤPμPìP°CĤP°C,C-PI, C†C- CĤPμP·CrP»CHC,P°C,Pë C,P°PePsP¶ P·P°CÍC,PsCÍPsPIPSC-
PrP»CĬ C-PSC€PëC... C-PSPiC-P±C-C,PsCĤC-PI PhPμPα C,P° P°PSC,P°PìPsPSC-CÍC,C-PI
CĤPμC†PμPìC,PsCĤC-PI P°PSPiC-PsC,PμPSP·PëPSCr II.

PhC,P¶Pμ, C-PSPiC-P±C-C,PsCĤPë PhPμPα C,P° P°PSC,P°PìPsPSC-CÍC,Pë
CĤPμC†PμPìC,PsCĤC-PI P°PSPiC-PsC,PμPSP·PëPSCr II PSPμ PjPsP¶PSP° PsPrPSPsC†P°CÍPSPs
P·P°CÍC,PsCÍPsPICrPIP°C,Pë PìP°C†C-C”PSC,P°Pj C-P· PrC-P°P±PμC,PëC†PSPsCĤ
PSPμC„CĤPsPìP°C,C-C”CĤ.

PJ PrPsCÍP»C-PrP¶PμPSPSC- ALTITUDE (PrPsCÍP»C-PrP¶PμPSPSCĬ PIPìP»PëPICr

P°P»C-ClPeC-CHPμPSCr PSP° ClC,P°PS PiP°C†C-C"PS C-PI C-P· C†CrPeCHPsPIPëPj
 PrC-P°P±PμC,PsPj 2-PiPs C,PëPiCr P· PIPëPePsCHPëClC,P°PSPSClPj ClPμCHC†PμPIPs-
 ClC†PrPëPSPSPëC... C,P° PSPëCHPePsPIPëC... PeC-PSC†PμPIPëC... C,PsC†PsPe)
 PsC†C-PSC†PIP°P»Pë PiPμCHPμPIP°PiPë PrPsPrP°PIP°PSPSCl P°P»C-ClPeC-CHPμPSCr PrPs
 ClC,P°PSPrP°CHC,PSPsC— C,PμCHP°PiC— C-PSPiC-P±C-C,PsCHPsPj PhPμPα P°P±Ps
 P°PSC,P°PiPsPSC-ClC,PsPj CHPμC†PμPiC,PsCHC-PI P°PSPiC-PsC,PμPSP·PëPSCr II PrP»Cl
 PiP°C†C-C"PS C-PI C-P· C†CrPeCHPsPIPëPj PrC-P°P±PμC,PsPj 2-PiPs C,PëPiCr C,P°
 C...CHPsPSC-C†PSPëPj P·P°C...PIPsCHCHPIP°PSPSClPj PSPëCHPsPe, ClPμCHC†PμPIPs-
 ClC†PrPëPSPSPëPj P·P°C...PIPsCHCHPIP°PSPSClPj P°P±Ps PsP±PsPjP°
 PiP°C,PsP»PsPiC-ClPjPë. PiPμ PrPsClP»C-PrP¶PμPSPSCl P±CrP»Ps P·P°PIPμCHCεPμPSPμ
 PrPsClC,CHPsPePsPIPs C†PμCHPμP· PiC-PrPIPëC%PμPSPSCl CHPëP·PëPeCr
 PSPμP±P°P¶P°PSPëC... PeP»C-PSC-C†PSPëC... PSP°ClP»C-PrPeC-PI. Pj PiCHCrPiC-
 PiCHPëPNεPsPjCr P°P»C-ClPeC-CHPμPSCr, PiPsCHC-PIPSClPSPs P· PiCHCrPiPsCH
 PiCHPëPNεPsPjCr PiP»P°C†PμP±Ps, P±CrP»Ps PIC-PrPjC-C†PμPSPs P±C-P»CHCεCr
 C†P°ClC,PsC,Cr P»PμC,P°P»CHPSPëC... PIPëPiP°PrPeC-PI C†PμCHPμP· ClPμCHC†PμPIPs-
 ClC†PrPëPSPSC- P·P°C...PIPsCHCHPIP°PSPSCl C,P° C-PSC†CrP»CHC,, P° C,P°PePsP¶
 PiC-PrPIPëC%PμPSPSCl C†P°ClC,PsC,Pë ClPμCHPNεPsP·PSPëC... PSPμP±P°P¶P°PSPëC...
 ClPIPëC% (PiC-PiPμCHPeP°P»C-C"PiC-Cl, P°CHC,PμCHC-P°P»CHPSP° PiC-PiPsC,PμPSP·C-Cl
 C- PrPëClC,,CrPSPeC†C-Cl PSPëCHPsPe).

PμPμPrC-P°C,CHPëC†PSP° PiPsPiCzP»ClC†C-Cl

Pj PiCHPsC†PμClC- CHP°PSPrPsPjC-P·PsPIP°PSPsPiPs PiPsPrPIC-PNεPSPsPiPs ClP»C-PiPsPiPs
 PiP»P°C†PμP±Ps-PePsPSC,CHPsP»CHPsPIP°PSPsPiPs PeP»C-PSC-C†PSPsPiPs
 PrPsClP»C-PrP¶PμPSPSCl P·P° CrC†P°ClC,CH 244 PiPμPrC-P°C,CHPëC†PSPëC...
 PiP°C†C-C"PS C-PI P· P°CHC,PμCHC-P°P»CHPSPsCH PiC-PiPμCHC,PμPSP·C-C"CH (Cr 73 % P·
 ClPePëC... P±CrP»P° PiPμCHPIPëPSPSP° P°CHC,PμCHC-P°P»CHPSP° PiC-PiPμCHC,PμPSP·C-Cl)
 PIC-PePsPj 6-16 CHPsPeC-PI CrC†P°ClPSPëPePë PsC,CHPëPjCrPIP°P»Pë PSPëP·CHPeC-,
 ClPμCHPμPrPSC- P°P±Ps PIPëClPsPeC- PrPsP·Pë CHP°PjC-PiCHPëP»Cr P· PjPμC,PsCH
 PrPsClClPiPSPμPSPSCl Cr PSPëC... PiP»P°P·PjPsPIPëC... PePsPSC†PμPSC,CHP°C†C-PNε
 CHP°PjC-PiCHPëP»P°C,Cr, ClPeC- PIC-PrPiPsPIC-PrP°CHC,CH PrC-P°PiP°P·PsPSCr PrPsP·
 PrP»Cl PrPsCHPsClP»PëC... 1,25 PjPi; 5 PjPi C,P° 20 PjPi P· CHPsP·CHP°C...CrPSPeCr P·P°
 PjP°ClPsCH C,C-P»P°. P¶PμCHPμP· 4 C,PëP¶PSC- P±CrP»Ps PIPëClPIP»PμPSPs, C%Ps
 CHP°PjC-PiCHPëP» PSPμPμC,,PμPeC,PëPIPSPëPNε C%PsPrPs PeC-PSC†PμPIPsC— C,PsC†PePë B¶
 P·PSPëP¶PμPSPSCl ClPëClC,PsP»C-C†PSPsPiPs P°CHC,PμCHC-P°P»CHPSPsPiPs C,PëClPeCr,
 PsPrPSP°Pe PIC-PS P·PSPëP¶CrC" PrC-P°ClC,PsP»C-C†PSPëPNε C,PëClPe PiCHPë
 P·P°ClC,PsClCrPIP°PSPSC- PSP°PNεPIPëC%PsC— PrPsP·Pë PrPsClP»C-PrP¶CrPIP°PSPsPiPs
 PrC-P°PiP°P·PsPSCr. P'CrP»Ps PiPsPeP°P·P°PSPs, C%Ps ClPe ClPμCHPμPrPSC-, C,P°Pe C-
 PIPëClPsPeC- PrPsP·Pë CHP°PjC-PiCHPëP»Cr P·PSPëP¶CrCHC,CH ClPëClC,PsP»C-C†PSPëPNε
 C- PrC-P°ClC,PsP»C-C†PSPëPNε P°CHC,PμCHC-P°P»CHPSPëPNε C,PëClPe PSP°
 ClC,P°C,PëClC,PëC†PSPs P·PSP°C†CrC%Cr PIPμP»PëC†PëPSCr Cr PrC-C,PμPNε C-P·
 PiC-PrC,PIPμCHPrP¶PμPSPsCH P°CHC,PμCHC-P°P»CHPSPsCH PiC-PiPμCHC,PμPSP·C-C"CH.

PÿP°PePsPiPs PμC,,PμPeC,Cr PSPμ ClPiPsClC,PμCHC-PiP°P»PsClCl Cr PiCHPsC†PμClC- 4-
 C,PëP¶PSPμPIPsPiPs CHP°PSPrPsPjC-P·PsPIP°PSPsPiPs PiPsPrPIC-PNεPSPsPiPs ClP»C-PiPsPiPs
 PrPsClP»C-PrP¶PμPSPSCl P· PiC-PrPIPëC%PμPSPSClPj PrPsP·Pë, PrPμ
 PsC†C-PSC†PIP°PIC†Cl PμC,,PμPeC, PIC-PrPjC-PSPë P»C-PeP°CHClCHPePsPiPs P·P°ClPsP±Cr
 C- PI ClPePsPjCr PIP·ClP»Pë CrC†P°ClC,CH 218 PiPμPrC-P°C,CHPëC†PSPëC...
 PiP°C†C-C"PS C-PI PIC-PePsPj 6-16 CHPsPeC-PI (Cr 75 % P· ClPePëC... P±CrP»P°
 PiPμCHPIPëPSPSP° P°CHC,PμCHC-P°P»CHPSP° PiC-PiPμCHC,PμPSP·C-Cl). Pj PiCHPsC†PμClC-

C†CHbPsPiPs PrPsCfP»C-PrP¶PµPSPSCl¶ PīC-CfP»C¶ PIC-PrPjC-PSPē PīC¶PµPīP°C¶P°C,Cf
CfPīPsCfC,PµC¶C-PiP°P»PsCfC¶ PīPsPjC-C¶PSPµ C¶PēPePsC¶PµC,PSPµ
PīC-PrPIPēC%PµPSPSCl¶ C¶Pe PrC-P°CfC,PsP»C-C¶PSPsPiPs, C,P°Pe C-
CfPēCfC,PsP»C-C¶PSPsPiPs P°C¶C,PµC¶C-P°P»CHbPSPsPiPs C,PēCfPeCf, PīC¶PsC,Pµ PIPsPSPs
PSPµ P±CfP»Ps CfC,P°C,PēCfC,PēC¶PSPs P·PSP°C±CfC%PēPj PrP»C¶ PīPsPIPµC¶PSPµPSPSCl¶
C,PēCfPeCf PrPs PIPēC...C-PrPSPsPiPs C¶C-PIPSCl¶ PI CfCfC-C... PīC¶CfPīP°C... PrPsP·
PrPsCfP»C-PrP¶CfPIP°PSPsPiPs PrC-P°PīP°P·PsPSCf C¶P°PjC-PīC¶PēP»Cf [PSPēP·CHbPeC-
PrPsP·Pē (0,625b¶“2,5 PjPi), CfPµC¶PµPrPSC- PrPsP·Pē (2,5b¶“10 PjPi) P°P±Ps PIPēCfPsPeC-
PrPsP·Pē (5b¶“20 PjPi)] P· C¶PsP·C¶P°C...CfPSPeCf P·P° PjP°CfPsC¶ C,C-P»P°. P’
PrPsCfP»C-PrP¶CfPIP°PSC-PNē PīPµPrC-P°C,C¶PēC¶PSC-PNē PīPsPīCfP»C¶C†C-C—
C¶P°PjC-PīC¶PēP» PSPµ PIPēC¶PIP»C¶PI P»C-PSC-PNēPSPsPiPs PrPsP·PsP·P°P»PµP¶PSPsPiPs
PµC,,PµPeC,Cf.

P¶PµC...P°PSC-P·Pj PrC-C— P°PjP»PsPrPēPīC-PSCf

P¶PjP»PsPrPēPīC-PS PīC¶PēPiPSC-C±CfC” C,C¶P°PSCfPjPµPjP±C¶P°PSPSPēPNē PīPsC,C-Pe
C-PsPSC-PI PeP°P»CHbC†C-C¶ Cf PeP»C-C,PēPSP°C... CfPµC¶C†C¶ C,P° PīP»P°PrPePēC...
Pjб¶™ C¶P·P°C... CfCfPrPēPS (PīPsPIC-P»CHbPSPēPNē P±P»PsPeP°C,PsC¶
PeP°P»CHbC†C-C”PIPēC... PeP°PSP°P»CHbC†C-PI P°P±Ps P°PSC,P°PīPsPSC-CfC, C-PsPSC-PI
PeP°P»CHbC†C-C¶).

P¶PµC...P°PSC-P·Pj P°PSC,PēPiC-PīPµC¶C,PµPSP·PēPIPSPsC— PrC-C— P·CfPjPsPIP»PµPSPēPNē
PīC¶C¶PjPēPj C¶PµP»P°PeCfP°C†C-PNēPSPēPj PIPīP»PēPIPj P°PjP»PsPrPēPīC-PSCf PSP°
PīP»P°PrPeC- Pjб¶™ C¶P·Pē CfCfPrPēPS, C%Ps CfPīC¶PēC¶C” P·PSPēP¶PµPSPSC¶
CfPēCfC,PµPjPSPsPiPs PīPµC¶PēC,,PµC¶PēC¶PSPsPiPs CfCfPrPēPSPSPsPiPs PsPīPsC¶Cf.

P¶PsC¶PSPēPNē PjPµC...P°PSC-P·Pj, P·P° PrPsPīPsPjPsPiPsC¶ C¶PePsPiPs P°PjP»PsPrPēPīC-PS
CfCfCfPIP°C” CfC,PµPSPsPeP°C¶PrC-C¶, PrPs PeC-PSC†C¶ PSPµ P·б¶™ C¶CfPsPIP°PSPēPNē,
P°P»Pµ PIC-PS PjPsP¶Pµ PjP°C,Pē C,P°PeC- PrPIC- PrC-C—:

1) P°PjP»PsPrPēPīC-PS C¶PsP·C¶PēC¶C¶C” PīPµC¶PēC,,PµC¶PēC¶PSC- P°C¶C,PµC¶C-PsP»Pē,
P·PjPµPSC€CfC¶Pē C,P°PePēPj C¶PēPSPsPj P·P°PīP°P»CHbPSPēPNē
PīPµC¶PēC,,PµC¶PēC¶PSPēPNē PsPīC-C¶ (PīC-CfP»C¶ PSP°PIP°PSC,P°P¶PµPSPSCl¶).
P¶CfPeC-P»CHbPePē PIC-PS PSPµ CfPīC¶PēC¶PēPSCl¶C” C¶PµC,,P»PµPeC,PsC¶PSPsC—
C,P°C...C-PeP°C¶PrC-C—, CfPīPsP¶PēPIP°PSPSCl¶ PjC-PsPeP°C¶PrPsPj PµPSPµC¶PiC-C— C-
PīPsC,C¶PµP±P° PI PePēCfPSC- P±CfPrPµ P·PjPµPSC€CfPIP°C,PēCfC¶;

2) P·P°PIPrc¶PePē PsPīPēCfP°PSPsPjCf PjPµC...P°PSC-P·PjCf PrC-C— P°PjP»PsPrPēPīC-PS
P·P±C-P»CHbC€CfC” PSP°PrC...PsPrP¶PµPSPSCl¶ PePēCfPSC¶ PrPs PjC-PsPeP°C¶PrP°
PSP°PIC-C,CHb Cf C¶P°P·C- CfPīP°P·PjCf PePsC¶PsPSP°C¶PSPēC... P°C¶C,PµC¶C-PNē
(CfC,PµPSPsPeP°C¶PrC-C¶ PµC¶PēPSC†PjPµC,P°P»P° P°P±Ps PIP°C¶C-P°PSC,PSP°
CfC,PµPSPsPeP°C¶PrC-C¶).

P¶P°C¶PjP°PePsPrPēPSP°PjC-C±PSC- PIP»P°CfC,PēPIPscfC,C-

Pj C...PIPsc¶PēC... PSP° P°C¶C,PµC¶C-P°P»CHbPSCf PīC-PīPµC¶C,PµPSP·C-C¶ C¶P°P·PsPIP°
PrPsP·P° P°PjP»PsPrPēPīC-PSCf P·P°P±PµP·PīPµC±CfC” PeP»C-PSC-C¶PSPs P·PSP°C±CfC%Pµ
P·PSPēP¶PµPSPSCl¶ P°C¶C,PµC¶C-P°P»CHbPSPsPiPs C,PēCfPeCf PīC¶PsC,C¶PiPsPj 24
PīPsPrPēPS Cf PīPsP»PsP¶PµPSPSC- C¶Pe P»PµP¶P°C±Pē, C,P°Pe C- CfC,PsC¶C±Pē.
P—P°PIPrc¶PePē PīPsPIC-P»CHbPSPsPjCf PīPsC±P°C,PeCf PrC-C— P°PjP»PsPrPēPīC-PS PSPµ
CfPīC¶PēC¶PēPSCl¶C” PīPsCfC,C¶PsC— P°C¶C,PµC¶C-P°P»CHbPSPsC— PīC-PīPsC,PµPSP·C-C—.

PJ C...PIPsCḥPēC... PSP° CíC,PμPSPsPeP°CḥPrC-Cḥ P·P°CíC,PsCíCíPIP°PSPSCḭ
P°PjP»PsPrPēPiC-PSCr 1 CḥP°P· PSP° PrPsP±Cí PīPsPrPsPIP¶CíC” P·P°PiP°P»CHbPSPēPNē C±P°Cí
PjPsP¶P»PēPIPsPiPs C,,C-P·PēC±PSPsPiPs PSP°PIP°PSC,P°P¶PμPSPSCḭ, P·P°C,CḥPēPjCíC”
PīPsC±P°C,PsPe PSP°PīP°PrCí CíC,PμPSPsPeP°CḥPrC-C— C,P° PīPsPrPsPIP¶CíC” C±P°Cí PrPs
C-CíC,PsC,PSPsPiPs PīCḥPēPiPSC-C±PμPSPSCḭ CíPμPiPjPμPSC,P° ST, P·PSPēP¶CíC”
C±P°CíC,PsC,Cí PSP°PīP°PrC-PI CíC,PμPSPsPeP°CḥPrC-C— C,P° P·PjPμPSCēCíC”
PīPsC,CḥPμP±Cí Cí C,P°P±P»PμC,PeP°C... PiP»C-C†PμCḥPēP»C,CḥPēPSC-C,CḥP°C,Cí.

PḥPjP»PsPrPēPiC-PS PSPμ PīCḥPsCḭPIP»CḭC” PSPμCíPīCḥPēCḭC,P»PēPIPsPiPs PIPiP»PēPICí
PSP° PsP±PjC-PS CḥPμC±PsPIPēPS C,P° P»C-PiC-PrPē PīP»P°P·PjPē PeCḥPsPIC-, C,PsPjCí PIC-PS
PīCḥPēPrP°C,PSPēPNē PrP»Cḭ P»C-PeCíPIP°PSPSCḭ C...PIPsCḥPēC... PSP°
P±CḥPsPSC...C-P°P»CHbPSCí P°CíC,PjCí, C†CíPeCḥPsPIPēPNē PrC-P°P±PμC, C- PīPsPrP°PiCḥCí.

P—P°CíC,PsCíC±PIP°PSPSCḭ PīP°C†C-C”PSC,P°Pj C-P· CíPμCḥC†PμPIPsCḥ
PSPμPrPsCíC,P°C,PSC-CíC,Cḥ

PJ PrPsPIPiPsC,CḥPēPIP°P»PsPjCí PīP»P°C†PμP±Ps-PePsPSC,CḥPsP»CHbPsPIP°PSPsPjCí
PrPsCíP»C-PrP¶PμPSPSC- (PRAISE-2) Cí PīP°C†C-C”PSC,C-PI C-P· CíPμCḥC†PμPIPsCḥ
PSPμPrPsCíC,P°C,PSC-CíC,Cḥ PeP»P°CíC-PI III C,P° IV P·P° PeP»P°CíPēC,,C-PeP°C†C-C”Cḥ
NYHA P±PμP· PeP»C-PSC-C±PSPēC... CíPēPjPīC,PsPjC-PI P°P±Ps PsP±bḥ™ C”PeC,PēPIPsPēC...
CḥPμP·CíP»CHbC,P°C,C-PI, C%Ps CíPIC-PrC±P°C,CHb PīCḥPs C-CēPμPjC-C±PSCí
C...PIPsCḥPsP±Cí, CḭPeC- PsC,CḥPēPjCíCḥC,CHb CíC,P°P±C-P»CHbPSC- PrPsP·Pē
C-PSPiC-P±C-C,PsCḥC-PI PḥPμPα, PSP°PīPμCḥCíC,CḭPSPePē C,P° PrC-CíCḥPμC,PēPeC-PI,
P°PjP»PsPrPēPiC-PS PSPμ PIPiP»PēPIP°PI PSP° P·P°PiP°P»CHbPSCí CíPμCḥC†PμPIPs-
CíCíPrPēPSPSCí CíPjPμCḥC,PSC-CíC,CHb. PJ C†C-PNē P¶Pμ PīPsPīCíP»CḭC†C-C—
P°PjP»PsPrPēPiC-PS P°CíPsC†C-CḥPIP°PICíCḭ P·C- P·P±C-P»CHbCēPμPSPSCḭPj
PīPsPIC-PrPsPjP»PμPSCḥ PīCḥPs PSP°P±CḥCḭPe P»PμPiPμPSC-PI.

P»C-PeC±PIP°PSPSCḭ PrP»Cḭ PīPsPīPμCḥPμPrP¶PμPSPSCḭ CíPμCḥC†PμPIPsPiPs PSP°PīP°PrC±
(ALLHAT)

P’CíP»Ps PīCḥPsPIPμPrPμPSPs CḥP°PSPPrPsPjC-P·PsPIP°PSPμ PīPsPrPIC-PNēPSPμ CíP»C-PiPμ
PrPsCíP»C-PrP¶PμPSPSCḭ P·P°C...PIPsCḥCḥPIP°PSPsCíC,C- C,P° CíPjPμCḥC,PSPsCíC,C-
B«P”PsCíP»C-PrP¶PμPSPSCḭ P°PSC,PēPiC-PiPμCḥC,PμPSP·PēPIPsPsC— C,P°
PiC-PiPsP»C-PiC-PrPμPjC-C±PSPsC— C,PμCḥP°PiC-C— PīPsPīPμCḥPμPrP¶PμPSPSCḭ
CíPμCḥC†PμPIPsPiPs PSP°PīP°PrCíB» (ALLHAT) PrP»Cḭ PīPsCḥC-PIPSḭPSPSCḭ
PSPsPIC-CēPēC... PjPμC,PsPrC-PI P»C-PeCíPIP°PSPSCḭ: P°PjP»PsPrPēPiC-PS
2,5–10 PjPi/PrPsP±Cí (P±P»PsPeP°C,PsCḥ PeP°P»CHbC†C-C”PIPēC... PeP°PSP°P»C-PI) P°P±Ps
P»C-P·PēPSPsPīCḥPēP» 10–40 PjPi/PrPsP±Cí (C-PSPiC-P±C-C,PsCḥ PḥPμPα) CḭPe
C,PμCḥP°PiC-Cḭ PīPμCḥCēPsC— P»C-PSC-C— bḥ” P· C,C-P°P·PēPrPSPēPj
PrC-CíCḥPμC,PēPePsPj C...P»PsCḥC,P°P»C-PrPsPSPsPj 12,5–25 PjPi/PrPsP±Cí PīCḥPē
P»PμPiPeC-PNē C,P° PīPsPjC-CḥPSC-PNē PiC-PiPμCḥC,PμPSP·C-C—.

P—P°PiP°P»PsPj 33 357 PīP°C†C-C”PSC,C-PI C-P· PiC-PiPμCḥC,PsPSC-C±PSPsCḥ
C...PIPsCḥPsP±PsCḥ PIC-PePsPj PIC-Pr 55 CḥPsPeC-PI P±CíP»Pē CḥP°PSPPrPsPjC-P·PsPIP°PSC-
C,P° CíPīPsCíC,PμCḥC-PiP°P»PēCíCḥ Cí CíPμCḥPμPrPSCḥPsPjCí 4,9 CḥPsPeCí. PJ
PīP°C†C-C”PSC,C-PI P±CíPI PīCḥPēPSP°PNēPjPSC- PsPrPēPS PrPsPrP°C,PePsPIPēPNē
C,,P°PeC,PsCḥ CḥPēP·PēPeCí C-CēPμPjC-C±PSPsC— C...PIPsCḥPsP±Pē CíPμCḥC†Cḭ (P†PíPŸ),
P·PsPeCḥPμPjP° PīPsPīPμCḥPμPrPSC-PNē C-PSC,,P°CḥPeC, PjC-PsPeP°CḥPrP° P°P±Ps
C-PSCíCíP»CHbC, (> 6 PjC-CíCḭC†C-PI PrPs P·P°CḥP°C...CíPIP°PSPSCḭ) P°P±Ps
PrPsPeCíPjPμPSC,P°P»CHbPSPs PīC-PrC,PIPμCḥPrP¶PμPSC- C-PSCēC-
P°C,PμCḥPsCíPeP»PμCḥPsC,PēC±PSC- CíPμCḥC†PμPIPs-CíCíPrPēPSPSC-

P·P°C...PIPsC₇CH₂PIP°PSPSC₁₁ (P·P°PiP°P»PsPj 51,5 %), C†C†PeC₇PsPIPëPN₆ PrC-P°P±P_μC, 2-PiPs C,PëPiC† (36,1 %), P»C-PiPsPiC₇PsC,P_μC—PSPë PIPëC†PsPePsC— C%oC-P»CH₂PSPsC†C,C- < 35 PjPi/PrP» (11,6 %), PiC-PiP_μC₇C,C₇PsC,,C-C₁₁ P»C-PIPsPiPs C€P»C†PSPsC±PeP°, PrC-P°PiPSPsC†C,PsPIP°PSP° P·P° PrPsPiPsPjPsPiPsC₇ P_μP»P_μPeC,C₇PsPeP°C₇PrC-PsPiC₇P°PjPë P°P±Ps P_μC...PsPeP°C₇PrC-PsPiC₇P°C,,C-C— (20,9 %), PiPsC,PsC±PSP_μ PeC†C₇C-PSPSC₁₁ C†PëPiP°C₇P_μC, (21,9 %).

P_μP_μC₇PIPëPSPSPsC₇ PeC-PSC†P_μPIPsC₇ C,PsC±PePsC₇ P±C†P»P° P†P†P† C-P· P»P_μC,P°P»CH₂PSPëPj PSP°C†P»C-PrPePsPj P°P±Ps PSP_μP»P_μC,P°P»CH₂PSPëPN₆ C-PSC,,P°C₇PeC, PjC-PsPeP°C₇PrP°. Pk_μ P±C†P»Ps C†C†C,C,C"PIPsC— C₇C-P·PSPëC†C- PI PiP_μC₇PIPëPSPSC-PN₆ PeC-PSC†P_μPIC-PN₆ C,PsC±C†C- PjC-P¶ C,P_μC₇P°PiC-C" C₇ P°PjP»PsPrPëPiC-PSPsPj C,P° C,P_μC₇P°PiC-C" C...P»PsC₇C,P°P»C-PrPsPSPsPj: PIC-PrPSPsC€P_μPSPSC₁₁ C₇PëP·PëPeC-PI (P'P) C†C,P°PSPsPIPëP»Ps 0,98, 95 % P" P† (0,90–1,07), p = 0,65. P†P_μC₇P_μPr PIC,PsC₇PëPSPSPëC... PeC-PSC†P_μPIPëC... C,PsC±PsPe C±P°C†C,PsC,P° C†P_μC₇C†P_μPIPsC— PSP_μPrPsC†C,P°C,PSPsC†C,C- (PePsPjPiPsPSP_μPSC, C†PeP»P°PrP_μPSPsC— PePsPjP±C-PSPsPIP°PSPsC— C†P_μC₇C†P_μPIPs-C†C†PrPëPSPSPsC— PeC-PSC†P_μPIPsC— C,PsC±PePë) P±C†P»P° P·PSP°C±PSPs PIPëC%oPsC₇ PI PiC₇C†PiC- P°PjP»PsPrPëPiC-PSC† PiPsC₇C-PIPsC₁₁PSPs P· PiC₇C†PiPsC₇ C...P»PsC₇C,P°P»C-PrPsPSC† (10,2 % PiC₇PsC,Pë 7,7 %, P'P 1,38, 95 % P" P† [1,25–1,52] C₇ < 0,001). PhPrPSP°Pe C†C†C,C,C"PIPsC— C₇C-P·PSPëC†C- C† PiPsPeP°P·PSPëPeP°C... C†PjP_μC₇C,PSPsC†C,C- P· C†C†C-C... PiC₇PëC±PëPS PjC-P¶ C,P_μC₇P°PiC-C" C₇ P°PjP»PsPrPëPiC-PSPsPj C,P° C,P_μC₇P°PiC-C" C...P»PsC₇C,P°P»C-PrPsPSPsPj PSP_μ P±C†P»Ps. P'P 0,96, 95 % P" P† [0,89–1,02] p = 0,20.

P_μP_μPrC-P°C,C₇PëC±PSP° PiPsPiC±P»C₁₁C†C-C₁₁ (PIC-PePsPj PIC-Pr 6 C₇PsPeC-PI)

Pj PrPsC†P»C-PrP¶P_μPSPSC-, PI C₁₁PePsPjC† P±C₇P°P»Pë C†C†P°C†C,CH₂ 268 PrC-C,P_μPN₆ PIC-PePsPj 6–17 C₇PsPeC-PI C-P· PiP_μC₇P_μPIP°P¶PSPs PIC,PsC₇PëPSPSPsC₇ PiC-PiP_μC₇C,P_μPSP·C-C" C₇, PiPsC₇C-PIPsC₁₁PSPSC₁₁ PrPsP·Pë 2,5 PjPi C,P° 5,0 PjPi P°PjP»PsPrPëPiC-PSC† P· PiP»P°C†P_μP±Ps PiPsPeP°P·P°P»Ps, C%oPs PsP±PëPrPIC- PrPsP·Pë P·PSPëP¶C†PIP°P»Pë C†PëC†C,PsP»C-C±PSPëPN₆ P°C₇C,P_μC₇C-P°P»CH₂PSPëPN₆ C,PëC†Pe P·PSP°C±PSPs P±C-P»CH₂C€P_μ, PSC-P¶ PiP»P°C†P_μP±Ps. P C-P·PSPëC†C₁₁ PjC-P¶ PrPiPsPjP° PrPsP·P°PjPë PSP_μ P±C†P»P° C†C,P°C,PëC†C,PëC±PSPs P·PSP°C±C†C%oPsC₇.

P"PsPIPiPsC†C,C₇PsPePsPIPëPN₆ PIPiP»PëPI P°PjP»PsPrPëPiC-PSC† PSP° C₇C-C†C,, C†C,P°C,P_μPIP_μ PrPsP·C₇C-PIP°PSPSC₁₁ C,P° P·P°PiP°P»CH₂PSPëPN₆ C₇PsP·PIPëC,PsPe PSP_μ PIPëPIC±P°P»PëC†CH₂. P"PsPIPiPsC†C,C₇PsPePsPIP° P_μC,,P_μPeC,PëPIPsC-C†C,CH₂ C,P_μC₇P°PiC-C— P°PjP»PsPrPëPiC-PSPsPj PI PrPëC,C₁₁C±PsPjC† PIC-C†C- PrP»C₁₁ P·PjP_μPSC€P_μPSPSC₁₁ C†P_μC₇C†P_μPIPs-C†C†PrPëPSPSPsC— P·P°C...PIPsC₇CH₂PIP°PSPsC†C,C- C,P° C†PjP_μC₇C,PSPsC†C,C- C† PrPsC₇PsC†P»PsPjC† PIC-C†C- C,P°PePsP¶ PSP_μ PIC†C,P°PSPsPIP»PμPSP°.

PαP°C₇PjP°PePsPeC-PSP_μC,PëPeP°

P P°PjC-PiC₇PëP»

P₇P±C†PsC₇P±C†C-C₁₁

P_μC-C†P»C₁₁ PiP_μC₇PsC₇P°P»CH₂PSPsPiPs PiC₇PëPN₆PsPjC† C₇P°PjC-PiC₇PëP» C€PIPëPrPePs P°P±C†PsC₇P±C†C" C,CH₂C†C₁₁ P· C,C₇P°PIPsPiPs C,C₇P°PeC,C†: PjP°PeC†PëPjP°P»CH₂PSP° PePsPSC†P_μPSC,C₇P°C†C-C₁₁ C₇P°PjC-PiC₇PëP»C† C† PiP»P°P·PjC- PeC₇PsPIC- PrPsC†C₁₁PiP°C" C,CH₂C†C₁₁ PiC₇PsC,C₁₁PiPsPj 1 PiPsPrPëPSPë. P' C₇P°C...PsPIC†C₇C±Pë

PIPëPIPµPrPµPSPSCЦ ЧҗP°PjC-ПiЧҗPëP»Cр P. CГPµC±PµCҢ, CГC,CрPiC-PSCH
P°P±CГPsCҗP±C†C-C— CГC,P°PSPsPIPëC,CH PiЧҗPëPSP°PNëPjPSC- 56 %, C- PSP° PSCHPsPiPs
C-CГC,PsC,PSPs PSPµ PIPiP»PëPIP°C” PSP°CЦPIPSC-CГC,CH C—P¶C- Cр C,ЧҗP°PIPSPsPjCр
C,ЧҗP°PeC,C-. P’C-PrPsCГC,CрPiPSC-CГC,CH P°PeC,PëPIPSsPiPs PjPµC,P°P±PsP»C-C,Cр
ЧҗP°PjC-ПiЧҗPëP»P°C,Cр PiC-CГP»CЦ PiPµCҗPsCҗP°P»CHPSPsPiPs PiЧҗPëPNëPsPjCр
ЧҗP°PjC-ПiЧҗPëP»Cр Cр PrPsP·C- 2,5 PjPi C- 5 PjPi CГC,P°PSPsPIPëC,CH 45 %.

PJ PiP»P°P·PjC- PeCҗPsPIC- PjP°PeCГPëPjP°P»CHPSP° PePsPSC†PµPSC,ЧҗP°C†C-CЦ
ЧҗP°PjC-ПiЧҗPëP»P°C,Cр, C”PrPëPSPsPiPs P°PeC,PëPIPSsPiPs PjPµC,P°P±PsP»C-C,Cр
ЧҗP°PjC-ПiЧҗPëP»Cр, PrPsCГCЦPiP°C”C,CHCГCЦ C±PµCҗPµP· 2Бҗ”4 PiPsPrPëPSPë
PiC-CГP»CЦ PiЧҗPëPNëPsPjCр ЧҗP°PjC-ПiЧҗPëP»Cр. P C-PIPSsPIP°P¶PSP°
PePsPSC†PµPSC,ЧҗP°C†C-CЦ ЧҗP°PjC-ПiЧҗPëP»P°C,Cр Cр PiP»P°P·PjC- PeCҗPsPIC- PI
CрPjPsPIP°C... P·P°CГC,PsCГCрPIP°PSPSCЦ P·PIPëC±P°PNëPSPëC... PrPsP· (1 ЧҗP°P· PSP°
PrPsP±Cр) PrPsCГCЦPiP°C”C,CHCГCЦ PSP° 4 PrPµPSCH P»C-PeCрPIP°PSPSCЦ.

P PsP·PiPsPrC-P»

P—PiБҗ™ CЦP·CрPIP°PSPSCЦ ЧҗP°PjC-ПiЧҗPëP»Cр P· P±C-P»PeP°PjPë PeCҗPsPIC-
CГC,P°PSPsPIPëC,CH PiЧҗPëP±P»PëP·PSPs 73 %, P° ЧҗP°PjC-ПiЧҗPëP»P°C,Cр Бҗ” 56 %.

PҢPµC,P°P±PsP»C-P·Pj

P P°PjC-ПiЧҗPëP» PjP°PNëP¶Pµ PiPsPIPSC-CГC,CH PjPµC,P°P±PsP»C-P·CрC”C,CHCГCЦ PrPs
ЧҗP°PjC-ПiЧҗPëP»P°C,Cр, PrPëPePµC,PsPiC-ПiPµCҗP°P·PëPSPsPIPsPiPs PµC,,C-ЧҗCр,
PrPëPePµC,PsPiC-ПiPµCҗP°P·PëPSPsPIPsC— PePëCГP»PsC,Pë C- PiP»CHPeCрЧҗPsPSC-PrC-PI
ЧҗP°PjC-ПiЧҗPëP»Cр C- ЧҗP°PjC-ПiЧҗPëP»P°C,Cр.

P’PëPIPµPrPµPSPSCЦ

P·PeCГPeCҗPµC†C-CЦ PjPµC,P°P±PsP»C-C,C-PI P·PrC-PNëCГPSCҢC”C,CHCГCЦ
PiPµCҗPµPIP°P¶PSPs PSPëCҗPeP°PjPë.

P—PSPëP¶PµPSPSCЦ PePsPSC†PµPSC,ЧҗP°C†C-C— ЧҗP°PjC-ПiЧҗPëP»P°C,Cр Cр PiP»P°P·PjC-
PeCҗPsPIC- PIC-PrP±CрPIP°C”C,CHCГCЦ P·P° PrPµPeC-P»CHPeP° C,,P°P·. P—P°PIPrCЦPePë
PiPsC,CрP¶PSPsPjCр PSP°CГPëC±CрPIP°P»CHPSPsPjCр P·PiБҗ™ CЦP·CрPIP°PSPSCҢ P· PҗPµPα C-
PiPsPIC-P»CHPSC-PNë PrPëCГPsC†C-P°C†C-C— P· PµPSP·PëPjCр ЧҗP°PjC-ПiЧҗPëP»P°C,
C...P°ЧҗP°PeC,PµCҗPëP·CрC”C,CHCГCЦ PiЧҗPsP»PsSPsPiPsPIP°PSPsCH
C,PµCҗPjC-PSP°P»CHPSPsCH C,,P°P·PsCH PµP»C-PjC-PSP°C†C-C— PiЧҗPë PrCрP¶Pµ
PSPëP·CHPePëC... PePsPSC†PµPSC,ЧҗP°C†C-CЦC... Cр PiP»P°P·PjC- PeCҗPsPIC-.

PµC-CГP»CЦ PiЧҗPëPNëPsPjCр P±P°PiP°C,PsCҗP°P·PsPIPëC... PrPsP· ЧҗP°PjC-ПiЧҗPëP»Cр
PµC,,PµPeC,PëPIPSsPNë PiPµCҗC-PsPr PSP°PiC-PIIPëPIPµPrPµPSPSCЦ
ЧҗP°PjC-ПiЧҗPëP»P°C,Cр CГC,P°PSPsPIPëC,CH 13Бҗ”17 PiPsPrPëPS PiC-CГP»CЦ
PiЧҗPëPNëPsPjCр PrPsP·Pë 5Бҗ”10 PjPi C- PrPsPICëPëPNë PiC-CГP»CЦ PiЧҗPëPNëPsPjCр
PSPëP¶C±PëC... PrPsP· 1,25Бҗ”2,5 PjPi. P C-P·PSPëC†CЦ P·CрPjPsPIP»PµPSP°
PSP°CГPëC±CрPIP°P»CHPSPsCH P·PrP°C,PSC-CГC,CH PµPSP·PëPjCр
P·PiБҗ™ CЦP·CрPIP°C,PëCГCЦ P· ЧҗP°PjC-ПiЧҗPëP»P°C,PsPj.

PµC-CГP»CЦ PiЧҗPëPNëPsPjCр PsPrPSPsCҗP°P·PsPIPsC— PiPµCҗPsCҗP°P»CHPSPsC— PrPsP·Pë
ЧҗP°PjC-ПiЧҗPëP» C- PNëPsPiPs PjPµC,P°P±PsP»C-C, PSPµ PIPëCЦPIP»CЦP»PëCГCЦ Cр
PiЧҗCрPrPSPsPjCр PjPsP»PsC†C-. PhPrPSP°Pe PµC,,PµPeC, P±P°PiP°C,PsCҗP°P·PsPIPëC... PrPsP·
PSPµPIC-PrPsPjPëPNë.

РμР°С†С-С"РSC,Рө Р· РїРsСҘСзС€РμРSPSCҘРј С,,СзРSPeС†С-С— РSPөСҘРsРe

РќРөСҘРPePsPIP° РμРeС†РeСҘРμС†С-СҘ СҘР°РјС-РiСҘРөР»Р°С,Ср Р·РSPөР¶РμРSP° Ср РїР°С†С-С"РSC,С-РІ С-Р· РїРsСҘСрС€РμРSPsСҘ С,,СрРSPeС†С-С"СҘ РSPөСҘРsРe, Р° РSPөСҘРPePsPIPөР№ РeР»С-СҘРμРSPCҘ СҘР°РјС-РiСҘРөР»Р°С,Ср РiСҘРsРiРsСҘС†С-Р№РSPs РїРsРiБҘ™ СҘР·Р·Р°РSPөР№ Р· РeР»С-СҘРμРSPCҘРsРј РeСҘРμР°С,РөРSC-РSCҘ. РїРμ РiСҘРөР·РiРsРrРөС,СҘ РrРs РiС-РrРiРөС%РμРSPSCҘ РiР»Р°Р·РiРsРiРөС... РeРsРSCҘРμРSC,СҘР°С†С-Р№ СҘР°РјС-РiСҘРөР»Р°С,Ср, СҘРeС- Р·РSPөР¶СрСҘС,СҘСҘСҘ РiРsРiС-Р»СҘРSC-С€Рμ, РSC-Р¶ РІ РsСҘС-Р± С-Р· РSPsСҘРјР°Р»СҘСҘРsРsСҘ С,,СрРSPeС†С-С"СҘ РSPөСҘРsРe.

РμР°С†С-С"РSC,Рө Р· РїРsСҘСҘСзС€РμРSPSCҘРј С,,СзРSPeС†С-С— РiРμСҘС-РSPeРө

Рј РїР°С†С-С"РSC,С-РІ Р· РїРsСҘСрС€РμРSPSCҘРј С,,СрРSPeС†С-С— РiРμСҘС-РSPeРө РјРμС,Р°Р±РsР»С-Р·Рј СҘР°РјС-РiСҘРөР»Р°Ср РrРs СҘР°РјС-РiСҘРөР»Р°С,Ср СҘРiРsРiС-Р»СҘРSPμРSPөР№, С%Рs Р·СрРiРsРiР»РμРSPs Р·РSPөР¶РμРSPsСҘ Р°РeС,РөРiРSC-СҘС,СҘ РiРμСҘС-РSPeРsРiРөС... РμСҘС,РμСҘР°Р·, Р° СҘС-РiРSC-СҘР°РјС-РiСҘРөР»Р°Ср Ср РiР»Р°Р·РiРsРiС- РeСҘРsРiС- Ср С†РөС... РiР°С†С-С"РSC,С-РІ РiС-РrРiРөС%РμРSC-. РҗРrРSP°Рe РјР°РeСҘРөРјР°Р»СҘСҘРsР° РeРsРSCҘРμРSC,СҘР°С†С-СҘ СҘР°РјС-РiСҘРөР»Р°С,Ср Ср С†РөС... РiР°С†С-С"РSC,С-РІ РSPμ РiС-РrСҘС-Р·РSCҘР»РөСҘСҘ РiС-Рr С,Р°РeРsС— РІ РsСҘС-Р± Р· РSPsСҘРјР°Р»СҘСҘРsРsСҘ С,,СрРSPeС†С-С"СҘ РiРμСҘС-РSPeРө.

Р"РsРrСзРiР°РSPSCҘ РiСҘСзРrРrСҘ

РμС-СҘР»СҘ РiРμСҘРsСҘР°Р»СҘСҘРsРiРs Р·Р°СҘС,РsСҘСрРiР°РSPSCҘ РsРrРSPsСҘР°Р·РsРiРsС— РrРsР·Рө 10 РјРi СҘР°РјС-РiСҘРөР»Р°Ср Р№РsРiРs СҘС-РiРμРSCҘ Ср РiСҘСрРrРSPsРјСр РјsР»РsС†С- РSPμ РiРөР·РSP°СҘРiСҘСҘ. РҗРrРSP°Рe РμС,,РμРeС, РiСҘРө Р±Р°РiР°С,РsСҘР°Р·РsРiРsРјСр Р·Р°СҘС,РsСҘСрРiР°РSPSC- РSPμРiС-РrРsРјРөР№.

РμРμРrС-Р°С,СҘРөСҘРSP° РiРsРiСзР»СҘС†С-СҘ

Р°Р°СҘРјР°РeРsРeС-РSPμС,РөСҘРSPөР№ РiСҘРsС,,С-Р»СҘ СҘР°РјС-РiСҘРөР»Р°Ср РrРsСҘР»СҘС-РrР¶СрРiР°РiСҘСҘ Ср 30 РiР°С†С-С"РSC,С-РІ РiРμРrС-Р°С,СҘРөСҘРSPsС— РiРsРiСрСҘСҘС†С-С— Р· Р°СҘС,РμСҘС-Р°Р»СҘРSPsСҘ РiС-РiРμСҘС,РμРSP·С-С"СҘ, РiС-Рe СҘРeРөС... СҘС,Р°РSPsРiРөРІ 2-16 СҘРsРeС-РІ, Р° РјР°СҘР°С,С-Р»Р° > 10 РeРi. РμС-СҘР»СҘСҘ Р·Р°СҘС,РsСҘСрРiР°РSPSCҘ РrРsР· РiС-Рr 0,05 РrРs 0,2 РјРi/РeРi СҘР°РјС-РiСҘРөР»Р°С С€РiРөРrРeРs С,Р° Ср Р·РSP°СҘРSC-Р№ РјС-СҘС- РјРμС,Р°Р±РsР»С-Р·СрРiР°РiСҘСҘ РrРs СҘР°РјС-РiСҘРөР»Р°С,Ср. РҗР°РeСҘРөРјР°Р»СҘСҘРsР° РeРsРSCҘРμРSC,СҘР°С†С-СҘ СҘР°РјС-РiСҘРөР»Р°С,Ср РІ РiР»Р°Р·РiРsРiС- РeСҘРsРiС- РrРsСҘСҘРiР°Р»Р»Р°Р»Р°СҘСҘСҘ СҘРμСҘРμР· 2-3 РiРsРrРөРSPө. РҗР»Р»С-СҘРμРSPCҘ СҘР°РјС-РiСҘРөР»Р°С,Ср Ср Р·РSP°СҘРSC-Р№ РјС-СҘС- РeРsСҘРμР»СҘРiР°РiР°Р·РiРөС,,РјsРј РјР°СҘРө С,С-Р»Р° (p < 0,01), Р° С,Р°РeРsР¶ С-Р· РrРsР·РsСҘ РiСҘРμРiР°СҘР°С,Ср (p < 0,001). РҗР»РлС-СҘРμРSPCҘ С,Р° РsР±БҘ™С"Рј СҘРsР·РiРsРrС-Р»Ср Р·Р±С-Р»СҘС€СрРiР°Р»Р»РәРөСҘСҘ РөСҘСҘ РiСҘСҘРјРјsРiСҘРsРiСҘС†С-Р№РSPs РiС-РeСр РrС-С,РμР№ Ср РeРsР¶РSC-Р№ РiСҘСрРiС- РrРsР·СрРiР°РSPSCҘ. РμСҘРө Р·Р°СҘС,РsСҘСрРiР°РSPSC- РrРsР·Рө 0,05 РјРi/РeРi Ср РrС-С,РμР№ Р±СрР»Рs РrРsСҘСҘРiРsРiРsР·РөС†С-С—, СҘРeС- Р±СрР»Рө РiРsСҘС-РiРSCҘРSPSPөРјРө Р· РμРeСҘРiРsР·РөС†С-С"СҘ Ср РrРsСҘРsСҘР»РөС... РiСҘРө Р·Р°СҘС,РsСҘСрРiР°РSPSC- РrРsР·Рө 5 РјРi СҘР°РјС-РiСҘРөР»Р°Ср. Р' СҘРμР·СрСҘСҘСҘ,Р°С,С- Р·Р°СҘС,РsСҘСрРiР°РSPSCҘ РrРsР·Рө 0,2 РјРi/РeРi Ср РrС-С,РμР№ РrРsСҘСҘРiРiР°Р»Р»РәРөСҘСҘ СҘС-РiРSC- РμРeСҘРiРsР·РөС†С-С—, СҘРeС- Р±СрР»Рө РiРөС%РөРјРө, РSC-Р¶ РiСҘРө Р·Р°СҘС,РsСҘСрРiР°РSPSC- РјР°РeСҘРөРјРәР»СҘСҘРsРsСҘСҘ СҘРμРeРsРјРsРiР°РSPsС—

PrPsP·Pë 10 PjPi/PrPsP±Cr Cr PrPsCḡPsCḡP»PëC....

PḡPjP»PsPrPëPîC-PS

PḡP±CḡPsCḡP±CḡC-Cḡ

PḡC-CḡP»Cḡ PîCḡPëPNḡPsPjCr PICḡPḡCḡPḡPrPëPSCḡ P°PjP»PsPrPëPîC-PS PjP°PNḡPḡPḡ
PîPsPIPSC-CḡC,CH PICḡPjPsPeC,CḡC”C,CHCḡCḡ, PrPsCḡCḡPiP°CHCḡPë
PjP°PeCḡPëPjP°P»CHḡPSPsC— PePsPSCḡPḡPSC,CḡP°CḡC-C— Cr PîP»P°P·PjC- PeCḡPsPIC-
CḡPḡCḡPḡP· 6ḡḡ”12 PiPsPrPëPS PîC-CḡP»Cḡ PîCḡPëPNḡPsPjCr. PḡCḡPëPNḡPsPj C—PḡC- PSPḡ
PIPîP»PëPIP°C” PSP° P±C-PsPrPsCḡC,CḡPîPSC-CḡC,CH P»C-PeP°CḡCḡCHPePsPiPs
P·P°CḡPsP±Cr. PḡP±CḡPsP»CHC,PSP° P±C-PsPrPsCḡC,CḡPîPSC-CḡC,CH CḡC,P°PSPsPIPëC,CH
B B B B B B 64ḡḡ”80 %.

P PsP·PîPsPrC-P»

PḡP±ḡḡ™C”Pj CḡPsP·PîPsPrC-P»Cr CḡC,P°PSPsPIPëC,CH 21 P»/PePi PjP°CḡPë C,C-P»P°.
P C-PIPSPsPIP°PḡPSP° PePsPSCḡPḡPSC,CḡP°CḡC-Cḡ Cr PîP»P°P·PjC- PeCḡPsPIC-
B B B B B B (5ḡḡ”15 PSPi/PjP») PrPsCḡCḡPiP°C”C,CHCḡCḡ PîCḡPsC,CḡPiPsPj 7ḡḡ”8 PrPSC-PI
P·P°CḡC,PSCḡCḡPIP°PSPSCḡ P»C-PeP°CḡCḡCHPePsPiPs P·P°CḡPsP±Cr.
Pj PrPsCḡP»C-PrPḡPḡPSPSCḡC... C-n vitro P±CḡP»Ps PIPëCḡPIP»PḡPSPs, C°ḡḡPs
PîCḡPëP±P»PëP·PSPs 97,5 % CḡPëCḡPeCḡP»CHCHCḡPsPiPs PI PeCḡPsPIC-
P°PjP»PsPrPëPîC-PSCḡ P·PIḡḡ™CḡP·CḡC”C,CHCḡCḡ P· P±C-P»PeP°PjPë PîP»P°P·PjPë
PeCḡPsPIC-.

PḡPḡC,P°P±PsP»C-P·Pj C- PIPëPIPḡPrPḡPSPSCḡ

PḡPjP»PsPrPëPîC-PS P°PeC,PëPIPSPs PjPḡC,P°P±PsP»C-P·CḡC”C,CHCḡCḡ Cr PîPḡCḡC-PSCḡC-
(PjP°PNḡPḡPḡ 90 %) PrPs PSPḡP°PeC,PëPIPSPëC... PîPsC...C-PrPSPëC... PîC-CḡPëPrPëPSCḡ.

10 % PIPëC...C-PrPSPsC— CḡPîPsP»CrPePë C- 60 % PSPḡP°PeC,PëPIPSPëC...
PjPḡC,P°P±PsP»C-C,PI PIPëPIPsPrPëC,CHCḡCḡ C-P· CḡPḡCḡPḡCḡ, 20ḡḡ”25 % ḡḡ” P·
C,,PḡPeP°P»C-CḡPjPë.

P—PSPëPḡPḡPSPSCḡ PePsPSCḡPḡPSC,CḡP°CḡC-C— Cr PîP»P°P·PjC- PeCḡPsPIC- PjP°C”
PrPIPSC,,P°P·PSPëPNḡ C...P°CḡP°PeC,PḡCḡ. PḡC-PSCḡPḡPIPëPNḡ PîPḡCḡC-PsPr
PSP°PîC-PIPIPëPIPḡPrPḡPSPSCḡ C-P· PîP»P°P·PjPë PeCḡPsPIC- CḡC,P°PSPsPIPëC,CH
P±P»PëP·CHPePs 35ḡḡ”50 PiPsPrPëPS P· CḡCḡP°C...CḡPIP°PSPSCḡPj PîCḡPëPNḡPsPjCr
P»C-PeP°CḡCḡCHPePsPiPs P·P°CḡPsP±Cr 1 CḡP°P· PSP° PrPsP±Cr.

P—P°PîP°P»CHḡPSPëPNḡ PeP»C-CḡPḡPSCḡ CḡC,P°PSPsPIPëC,CH 7 PjP»/C...PI/PePi PjP°CḡPë
C,C-P»P° (PrP»Cḡ PîP°CḡC-C”PSC,C-PI C-P· PjP°CḡPsCḡ C,C-P»P° 60 PePi ḡḡ” 25 P»/PiPsPr). Pj
C...PIPsCḡPëC... P»C-C,PSCHḡPsPiPs PIC-PeCḡ ḡḡ” 19 P»/PiPsPr.

P—P°CḡC,PSCḡCḡPIP°PSPSCḡ PsCḡPsP±P°Pj P»C-C,PSCHḡPsPiPs PIC-PeCḡ

PḡP°Cḡ, PSPḡPsP±C...C-PrPSPëPNḡ PrP»Cḡ PrPsCḡCḡPiPSPḡPSPSCḡ
PjP°PeCḡPëPjP°P»CHḡPSPsC— PePsPSCḡPḡPSC,CḡP°CḡC-C— P°PjP»PsPrPëPîC-PSCḡ Cr
PîP»P°P·PjC- PeCḡPsPIC-, PsPrPSP°PePsPIPëPNḡ CḡPe Cr PîP°CḡC-C”PSC,C-PI
P»C-C,PSCHḡPsPiPs PIC-PeCḡ, C,P°Pe C- PI PjPsP»PsPrCḡPëC... PîP°CḡC-C”PSC,C-PI. Pj
P»CHPrPḡPNḡ P»C-C,PSCHḡPsPiPs PIC-PeCḡ CḡPîPsCḡC,PḡCḡC-PiP°C”C,CHCḡCḡ
C,PḡPSPḡPḡPSCḡC-Cḡ PrPs P·PSPëPḡPḡPSPSCḡ PeP»C-CḡPḡPSCḡCḡ P°PjP»PsPrPëPîC-PSCḡ,

C%₀Ps PiC₇PëP·PIPsPrPëC,CH PrPs P·P±C-P»CHC€PμPSPSC₇ PiP»PsC%₀C- PiC-Pr
PeC₇PëPIPsC₇ B«PePsPSC†PμPSC,C₇P°C†C-Cl₇B₇“C†P°C†B» (AUC) C,P° PiPμC₇C-PsPrC₇
PSP°PiC-PIPIPëPIPμPrPμPSPSC₇. P'CrP»Ps P·P°C₇PμC”C†C,C₇PsPIP°PSPs
P·P±C-P»CHC€PμPSPSC₇ AUC C,P° PiPμC₇C-PsPrC₇ PSP°PiC-PIPIPëPIPμPrPμPSPSC₇
P»C-PeP°C₇C†CHPePsPiPs P·P°C†PsP±C† Cr C...PIPsC₇PëC... C-P· P·P°C†C,C-PN₇PSPsC₇
C†PμC₇C†PμPIPsC₇ PSPμPrPsC†C,P°C,PSC-C†C,C₇.

PμP°C†C-C”PSC,Pë P· PiPsC₇C†C€PμPSPSC₇IPj C,,C†PSPeC†C-C— PSPëC₇PsPe

P₇PjP»PsPrPëPiC-PS C-PSC,PμPSC†PëPIPsPs PjPμC,P°P±PsP»C-P·C†C”C,CHC†C₇PI
PSPμP°PeC,PëPIPsC- PjPμC,P°P±PsP»C-C,Pë. 10 % PIC-Pr PiPsC†P°C,PePsPIPsC—
C†PiPsP»C†PePë PIPIPëPIPsPrPëC,CHC†C₇PI Cr PSPμP·PjC-PSPμPSPsPjC† PIPIPëPIP»C₇PIPrC- C-P·
C†PμC†PμC₇. P—PjC-PSPë PePsPSC†PμPSC,C₇P°C†C-C— P°PjP»PsPrPëPiC-PSC† Cr PiP»P°P·PjC-
PeC₇PsPIC- PSPμ PiPsPiB₇™ C₇IP·P°PSC- P·C- C†C,C†PiPμPSPμPj PiPsC₇C†C€PμPSPSC₇
C,,C†PSPeC†C-C— PSPëC₇PsPe. PiPëC... PiP°C†C-C”PSC,C-PI PjPsP¶PSP° P»C-PeC†PIP°C,Pë P·P°
PrPsPiPsPjPsPiPsC₇ P·PIPëC†P°PN₇PSPsC— PrPsP·Pë P°PjP»PsPrPëPiC-PSC†. P₇PjP»PsPrPëPiC-PS
PSPμ PiC-PrPrP°C”C,CHC†C₇PI PrC-P°P»C-P·C†.

PμP°C†C-C”PSC,Pë P· PiPsC₇C†C€PμPSPSC₇IPj C,,C†PSPeC†C-C— PiPμC†C-PSPePë

P†PSC,,PsC₇PjP°C†C-Cl₇ C%₀PsPrPs P·P°C†C,PsC†C†PIP°PSPSC₇ P°PjP»PsPrPëPiC-PSC†
PiP°C†C-C”PSC,P°Pj C-P· PiPsC₇C†C€PμPSPSC₇IPj C,,C†PSPeC†C-C— PiPμC†C-PSPePë PrC†P¶Pμ
PsP±PjPμP¶PμPSP°. PJ PiP°C†C-C”PSC,C-PI C-P· PiPμC†C-PSPePsPIPsC₇
PSPμPrPsC†C,P°C,PSC-C†C,C₇ PeP»C-C₇PμPSC† P°PjP»PsPrPëPiC-PSC† P·PSPëP¶PμPSPëPN₇,
C%₀Ps PiC₇PëP·PIPsPrPëC,CH PrPs P·P±C-P»CHC€PμPSPSC₇ C,C₇PëPIP°P»PsC†C,C-
PiPμC₇C-PsPrC₇ PSP°PiC-PIC₇PsP·PiP°PrC† C,P° PrPs P·P±C-P»CHC€PμPSPSC₇ AUC
PiC₇PëP±P»PëP·PSPs PSP° 40B₇“60 %.

PμPμPrC-P°C,C₇PëC†PSP° PiPsPiC†P»C₇IC†C-C₇

P”PsC†P»C-PrP¶PμPSPSC₇ C,,P°C₇PjP°PePsPeC-PSPμC,PëPePë PiC₇PsPIPsPrPëP»Pë P·
C†C†P°C†C,C₇ 74 PrC-C,PμPN₇ P· P°C₇C,PμC₇C-P°P»CHPSPsC₇ PiC-PiPμC₇C,PμPSP·C-C”C₇
PIC-PePsPj PIC-Pr 1 PrPs 17 C₇PsPeC-PI (C,P°PePsP¶ 34 PiP°C†C-C”PSC,Pë PIC-PePsPj PIC-Pr 6
PrPs 12 C₇PsPeC-PI C,P° 28 PiP°C†C-C”PSC,C-PI PIC-PePsPj PIC-Pr 13 PrPs 17 C₇PsPeC-PI),
C₇PeC- PsC,C₇PëPjC†PIP°P»Pë P°PjP»PsPrPëPiC-PS Cr PrPsP·P°C... 1,25B₇“20 PjPi PSP°
PrPsP±C† P·P° 1 P°P±Ps P·P° 2 PiC₇PëPN₇PsPjPë. P—P°P·PIPëC†P°PN₇ PeP»C-C₇PμPSC† PiC₇Pë
PiPμC₇PsC₇P°P»CHPSPsPjC† P·P°C†C,PsC†C†PIP°PSPSC- (CL/F) Cr PrC-C,PμPN₇ PIC-PePsPj
PIC-Pr 6 PrPs 12 C₇PsPeC-PI C,P° Cr PiC-PrP»C-C,PeC-PI PIC-PePsPj PIC-Pr 13 PrPs 17
C₇PsPeC-PI C†C,P°PSPsPIPëPI PIC-PrPiPsPIC-PrPSPs 22,5 C,P° 27,4 P»/PiPsPrPëPSC†
PIC-PrPiPsPIC-PrPSPs PrP»C₇ C...P»PsPiC†PëPeC-PI C- PIC-PrPiPsPIC-PrPSPs 16,4 C,P° 21,3
P»/PiPsPrPëPSC† PrP»C₇ PrC-PIC†P°C,PsPe. PŸPiPsC†C,PμC₇C-PiP°C”C,CHC†C₇PI P·PSP°C†PSP°
PIP°C₇C-P°P±PμP»CHPSC-C†C,CH PμPeC†PiPsP·PëC†C-C— Cr C₇C-P·PSPëC...
PiP°C†C-C”PSC,C-PI. P†PSC,,PsC₇PjP°C†C-Cl₇ C%₀PsPrPs PiP°C†C-C”PSC,C-PI PIC-PePsPj PrPs 6
C₇PsPeC-PI PsP±PjPμP¶PμPSP°.

P₇P»C-PSC-C†PSC- C...P°C₇P°PeC,PμC₇PëC†C,PëPePë

PμPsPeP°P·P°PSPSC₇

P>C-PeC†PIP°PSPSC₇ P°C₇C,PμC₇C-P°P»CHPSPsC— PiC-PiPμC₇C,PμPSP·C-C— Cr

PrPsC₇PsC₁P»PëC... P_iP°C†C-C°PSC,C-PI, P°C₇C,P_μC₇C-P°P»CH₂PSPëP_N C,PëC₁Pë C₁PëPëC...
PSP°P»P_μP₁PSPëP_j C‡PëPSPsP_j PePsPSC,C₇PsP»C₇C°C,CH₂C₁C₁ C₇P°P_jC-PiC₇PëP»PsP_j C,P°
P°P_jP»PsPrPëPiC-PSPsP_j, C%₀Ps PiC₇PëP·PSP°C‡P°C₇C,CH₂ PsPrPSPsC‡P°C₁PSPs C₁ C,C-P_N
P₁P_μ PrPsP·C-, C%₀Ps C- PI PePsP_jP±C-PSP°C†C-C—.

P_μC₇PsC,PëPiPsPeP°P·P°PSPSC₁

P_μC-PrPIPëC%₀P_μPSP° C‡C₁C,P»PëPIC-C₁C,CH₂ PrPs C₇P°P_jC-PiC₇PëP»C₁,
P°P_jP»PsPrPëPiC-PSC₁, P_iPsC...C-PrPSPëC... PrPëPiC-PrC₇PsPiC-C₇PëPrPëPSC-PI,
C-PSPiC-P±C-C,P_μC₇C-PI P_hP_μP_α
(P°PSPiC-PsC,P_μPSP·PëPSPiP_μC₇P_μC,PIP_μC₇C₇PIP°P»CH₂PSPëP_N C,,P_μC₇P_jP_μPSC,) P°P±Ps PrPs
P±C₁PrCH₂-C₁PëPsC— PrPsPiPsP_jC-P₁PSPsC— C₇P_μC‡PsPIPëPSPë:

- P°PSPiC-PsPSP_μPIC₇PsC,PëC‡PSPëP_N PSP°P±C₇C₁Pë (C₁P_iP°PrPePsPIPëP_N,
C-PrC-PsPiP°C,PëC‡PSPëP_N P°P±Ps PIPSP°C₁P»C-PrPsPe PiPsPiP_μC₇P_μPrPSC₇PsPiPs
P·P°C₁C,P_μC₁C₁PIP°PSPSC₁ C-PSPiC-P±C-C,P_μC₇C-PI P_hP_μP_α P°P±Ps
P°PSC,P°PiPsPSC-C₁C,C-PI C₇P_μC†P_μPiC,P_μC₇C-PI P°PSPiC-PsC,P_μPSP·PëPSC₁ P†P†) PI
P°PSP°P_jPSP_μP·C-;

- PsPrPSPsC‡P°C₁PSP_μ P·P°C₁C,P_μC₁C₁PIP°PSPSC₁ P· P»C-PeP°C₇C₁CH₂PePëP_jPë
P·P°C₁PsP±P°P_jPë, C%₀Ps P_jC-C₁C,C₁C,CH₂ P°P»C-C₁PëC-C₇P_μPS,
PiC₇PsC,PëPiPsPeP°P·P°PSP_μ PiP°C†C-C°PSC,P°P_j C-P· C†C₁PeC₇PsPIPëP_j PrC-P°P±P_μC,P_μP_j
P°P±Ps P· PiPsC₇C₁C€P_μPSPSC₁P_j C,,C₁PSPeC†C-C— PSPëC₇PsPe (C€PIPëPrPeC-C₁C,CH₂
PeP»C₁P±PsC‡PePsPIPsC— C,,C-P»CH₂C,C₇P°C†C-C— (PëP_μP_α) < 60 P_jP»/C...PI/1,73 P_j²) (PrPëPI.
C₇PsP·PrC-P» B«P·P·P°C°P_jPsPrC-C₁ P· C-PSC€PëP_jPë P»C-PeP°C₇C₁CH₂PePëP_jPë
P·P°C₁PsP±P°P_jPë C,P° C-PSC€C- PIPëPrPë PIP·P°C°P_jPsPrC-P_NB» C,P°
B«P_αP°C₇P_jP°PePsPrPëPSP°P_jC-PeP°B»);

- PsPrPSPsC‡P°C₁PSP_μ P·P°C₁C,P_μC₁C₁PIP°PSPSC₁ P·
C₁P°PeC₁P±C-C,C₇PëP»PsP_j/PIP°P»C₁P°C₇C,P°PSPsP_j PiC₇PsC,PëPiPsPeP°P·P°PSP_μ
C‡P_μC₇P_μP· PiC-PrPIPëC%₀P_μPSPëP_N C₇PëP·PëPe C₇PsP·PIPëC,PëC₁
P°PSPiC-PsPSP_μPIC₇PsC,PëC‡PSPsPiPs PSP°P±C₇C₁PëC₁. P_kP_μ C₁P»C-Pr
P·P°C₁C,P_μC₁PsPIC₁PIP°C,Pë C₇P°P_jC-PiC₇PëP» C₇P°PSC-C€P_μ PSC-P₁ C‡P_μC₇P_μP· 36
PiPsPrPëPS PiC-C₁P»C₁ P_μC₁C,P°PSPSCH₂PsC— PrPsP·Pë
C₁P°PeC₁P±C-C,C₇PëP»C₁/PIP°P»C₁P°C₇C,P°PSC₁ (PrPëPI. C₇PsP·PrC-P»
B«P·P·P°C°P_jPsPrC-C₁ P· C-PSC€PëP_jPë P»C-PeP°C₇C₁CH₂PePëP_jPë P·P°C₁PsP±P°P_jPë C,P°
C-PSC€C- PIPëPrPë PIP·P°C°P_jPsPrC-P_NB» C,P° C₇PsP·PrC-P» B«P_hC₁PsP±P»PëPIPsC₁C,C-
P·P°C₁C,P_μC₁C₁PIP°PSPSC₁B»);

- P_μPeC₁C,C₇P°PePsC₇PiPsC₇P°P»CH₂PSP_μ P»C-PeC₁PIP°PSPSC₁, C%₀Ps
PiC₇PëP·PIP_μPrPëC,CH₂ PrPs PePsPSC,P°PeC,C₁ PeC₇PsPIC- P· PSP_μPiP°C,PëPIPsPs
P·P°C₇C₁PrP₁P_μPSPëP_jPë PiPsPiP_μC₇C...PSC₁P_jPë (PrPëPI. C₇PsP·PrC-P»
B«P·P·P°C°P_jPsPrC-C₁ P· C-PSC€PëP_jPë P»C-PeP°C₇C₁CH₂PePëP_jPë P·P°C₁PsP±P°P_jPë C,P°
C-PSC€C- PIPëPrPë PIP·P°C°P_jPsPrC-P_NB»);

- PIPëC₇P°P₁P_μPSPëP_N PrPIP_μP±C-C‡PSPëP_N C₁C,P_μPSPsP· PSPëC₇PePsPIPëC...
P°C₇C,P_μC₇C-P_N P°P±Ps C₁C,P_μPSPsP· PSPëC₇PePsPIPsC— P°C₇C,P_μC₇C-C— PsPrPSC-C°C—
C,,C₁PSPeC†C-PsPSC₁C₇C‡PsC— PSPëC₇PePë;

- P°C₇C,P_μC₇C-P°P»CH₂PSP° PiC-PiPsC,P_μPSP·C-C₁ P°P±Ps PiP_μP_jPsPrPëPSP°P_jC-C‡PSPs

PSP_μCTC,P°P±C-P»CHBPS- CTC,P°PSPë;

- P·P°CTC,PsCTCfPIP°PSPSC Π ΠCTHPS,PePiPsPeP°P·P°PSPs PIP°PiC-C,PSPëPj C,P° PΠC-PSPeP°Pj, CΠPeC- ΠP»P°PSCfCTC,CH P·P°PIP°PiC-C,PSC-C,Pe (PrPëPl. CTHPS·PrC-P» B«P—P°CTC,PsCTCfPIP°PSPSC Π Cr ΠPμCTH-C-PsPr PIP°PiC-C,PSPsCTC,C- C,P° PiPsPrCfPIP°PSPSC Π ΠCTHCrPrPrCTHB»);
- PIPëCTHP°PΠPμPSP° P°CTH,PμCTH-C-P»CHBPS° PiC-ΠPsC,PμPSP·C-CΠ;
- CëPsPe (PIPeP»CTC±P°CTC±Pe PeP°CTHPrC-PsPiPμPSPSPëPNë CëPsPe);
- P·PICfPΠPμPSPSC Π PIPëC...C-PrPSPsPiPs PIC-PrPrC-P»Cr P»C-PIPsPiPs CëP»CrPSPsC±PeP° (PSP°ΠCTHPëPeP»P°Pr, PIPëCTHP°PΠPμPSPëPNë CTC,PμPSPsP· CrCTC,CΠ P°PsCTH,Pe);
- PiPμPjPsPrPëPSP°PjC-C±PSPs PSPμCTC,P°P±C-P»CHBPS° CTμCTHCTμPIP° PSPμPrPsCTC,P°C,PSC-CTC,CH ΠC-CTP»CΠ PiPsCTC,CTHPSPiPs C-PSC,,P°CTHPeC,Cr PjC-PsPeP°CTHPrP°.

P'P·P°C''PjPsPrC-CΠ P· C-PSCëPëPjPë P»C-PeP°CTCTCHPePëPjPë P·P°CTPsP±P°PjPë C,P° C-PSCëC- PIPëPrPë PIP·P°C''PjPsPrC-PNë.

P P°PjC-ΠCTHPëP».

PμCTHPS,PePiPsPeP°P·P°PSC- PePsPjP±C-PSP°CTC-C—.

P·PeCTC,CTHP°PePsCTHPiPsCTHP°P»CHBPS- PjPμC,PsPrPë P»C-PeCrPIP°PSPSC Π, CΠPeC- ΠCTHPëP·PIPsPrCΠC,CH PrPs PePsPSC,P°PeC,Cr PeCTHPSIC- P· PSPμPiP°C,PePiPSPs P·P°CTHCTμPrPΠPμPSPëPjPë ΠiPsPiPμCTH...PSCΠPjPë, C,P°PeC- CΠPe PrC-P°P»C-P· P°P±Ps PiPμPjPsC,,C-P»CHC,CTHP°CTC-CΠ P· ΠiPμPIPSPëPjPë PjPμPjP±CTHP°PSP°PjPë P· PIPëCTPsPePsCTH ΠiC-PrCTHP°PIP»C-C±PSPsCTH ΠCTHPSPSPëPePSC-CTC,CTH (PSP°ΠCTHPëPeP»P°Pr ΠiPsP»C-P°PeCTHPëP»PsPSC-C,CTHPëP»PsPiPëPjPë), P° C,P°PePsPΠ P°C,,PμCTHPμP· P»C-ΠiPsΠCTHPS,C,PμC—PSC-Π PSPëP·CHPePsC— C%oC-P»CHBSPsCTC,C- P· PrPμPeCTC,CTHP°PS CTCTP»CHC,,P°C,PsPj ΠCTHPS,PePiPsPeP°P·P°PSC- C±PμCTHPμP· ΠiC-PrPIPëC%oPμPSPëPNë CTHPëP·PëPe C,CΠPΠPePëC... P°PSP°C,,C-P»P°PeC,PsC—PrPSPëC... CTHPμP°PeCTC-PNë. ΠiPeC%oPs ΠiPsC,CTH-C-P±PSPμ C,P°PePμ P»C-PeCrPIP°PSPSC Π, CTP»C-Pr CTHPS·PiP»CΠPSCfC,Pe ΠiPëC,P°PSPSC Π ΠCTHPS PIPëPePsCTHPëCTC,P°PSPSC Π C-PSCëPsPiPs C,PePiCr PrC-P°P»C-P·PSPsC— PjPμPjP±CTHP°PSPë P°P±Ps C-PSCëPsPiPs PeP»P°CTCT P°PSC,PePiC-ΠPμCTH,PμPSP·PePiPSPëC... P·P°CTPsP±C-Π.

PhPrPSPsC±P°CTPSPμ P·P°CTC,PsCTCfPIP°PSPSC Π C-PSPiC-P±C-C,PsCTH-C-Π PhPμPα C-P· CT'P°PeCzP±C-C,CTHPëP»PsPj/PIP°P»CT'P°CTH,P°PSPsPj ΠCTHPS,PePiPsPeP°P·P°PSPμ C±PμCTHPμP· ΠiC-PrPIPëC%oPμPSPëPNë CTHPëP·PëPe CTHPS·PIPëC,PeCr P°PSPiC-PsPSPμPICTHPS,PeC±PSPsPiPs PSP°P±CTCΠPeCr (PrPëPl. CTHPS·PrC-P»Pë B«PμCTHPS,PePiPsPeP°P·P°PSPSC ΠB» C,P° B«PhCT'PsP±P»PePiPsCTC,C- P·P°CTC,PsCTCfPIP°PSPSC ΠB»). P·C-PeCrPIP°PSPSC Π CT'P°PeCrP±C-C,CTHPëP»PsPj/PIP°P»CT'P°CTH,P°PSPsPj PSPμ CT'P»C-Pr ΠiPsC±PePSP°C,Pe CTHP°PSC-CëPμ PSC-PΠ C±PμCTHPμP· 36 ΠiPsPrPëPS ΠiC-CTP»CΠ PsCTC,P°PSPSCHBPS— PrPsP·Pë CTHP°PjC-ΠCTHPëP»Cr (PrPëPl. CTHPS·PrC-P»Pë B«PμCTHPS,PePiPsPeP°P·P°PSPSC ΠB» C,P° B«PhCT'PsP±P»PePiPsCTC,C- P·P°CTC,PsCTCfPIP°PSPSC ΠB»).

P—P°CTC,PsCT'PsPICfPIP°C,Pe P· PsP±PμCTHPμPΠPSC-CTC,CTH

PuPsPrPIC-PN₂PSP° P±P»PsPeP°PrP° P PhPhPŸ: PrP°PSC- PeP»C-PSC-C±PSPëC...
PrPsCÍP»C-PrP¶PµPSCĤ PiCĤPsPrPµPjPsPSCÍC,CĤCÍPIP°P»Pë, C%₀Ps PiPsPrPIC-PN₂PSP°
P±P»PsPeP°PrP° P PhPhPŸ C€P»CÍC...PsPj PePsPjP±C-PSPsPIP°PSPsPiPs
P·P°CÍC,PsCÍCÍPIP°PSPSCÍ C-PSPiC-P±C-C,PsCĤC-PI PhPµPα, P°PSC,P°PiPsPSC-CÍC,C-PI
CĤPµC†PµPiC,PsCĤC-PI P°PSPiC-PsC,PµPSP·PëPSCÍ II P°P±Ps P°P»C-CÍPeC-CĤPµPSCÍ
P°CÍPsC†C-CĤC”C,CĤCÍCÍ P· PiC-PrPIPëC%₀PµPSPsCĤ C±P°CÍC,PsC,PsCĤ
PIPëPSPëPePSPµPSPSCÍ C,P°PePëC... PSPµP±P°P¶P°PSPëC... CÍPIPëC%₀, CÍPe
P°CĤC,PµCĤC-P°P»CHPSP° PiC-PiPsC,PµPSP·C-CÍ, PiC-PiPµCĤPeP°P»C-C”PjC-CÍ C,P°
PiPsPiC-CĤC€PµPSPSCÍ C,,CÍPSPeC†C-C— PSPëCĤPsPe (CÍPµCĤPµPr CÍPePëC...
CĤPsP·PIPëC,PsPe PiPsCÍC,CĤPsC— PSPëCĤPePsPiPsC— PSPµPrPsCÍC,P°C,PSPsCÍC,C-),
PiPsCĤC-PIPSCÍPSPs P· P·P°CÍC,PsCÍCÍPIP°PSPSCÍPj P»PëC€Pµ PsPrPSPsPiPs P·P°CÍPsP±CÍ,
C%₀Ps PIPiP»PëPIP°C” PSP° P PhPhPŸ (PrPëPI. CĤPsP·PrC-P»Pë
B«PµCĤPsC,PëPiPsPeP°P·P°PSPSCÍB», B«PhCÍPsP±P»PëPiPsCÍC,C-
P·P°CÍC,PsCÍCÍPIP°PSPSCÍB» C,P° B«PαP°CĤPjP°PePsPrPëPSP°PjC-PeP°B»).

P†PSPiC-P±C-C,PsCĤPë mTOR P°P±Ps PIC-P»PrP°PiP»C-PiC,PëPS:
CÍPiPsCÍC,PµCĤC-PiP°P»PsCÍCÍ PiC-PrPIPëC%₀PµPSPSCÍ C±P°CÍC,PsC,Pë CĤPsP·PIPëC,PeCÍ
P°PSPiC-PsPSPµPICĤPsC,PëC±PSPsPiPs PSP°P±CĤCÍPeCÍ CÍ PiP°C†C-C”PSC,C-PI, CÍPeC-
PsPrPSPsC±P°CÍPSPs PiCĤPëPN₂PjP°CĤC,CH C-PSPiC-P±C-C,PsCĤPë PhPµPα,
CĤP°C†PµPeP°PrPsC,CĤPëP» C,P° C-PSPiC-P±C-C,PsCĤPë mTOR (PSP°PiCĤPëPeP»P°Pr
C,PµPjC-CÍPëCĤPsP»C-PjCÍCÍ, PµPIPµCĤPsP»C-PjCÍCÍ, CÍPëCĤPsP»C-PjCÍCÍ) P°P±Ps
PIC-P»PrP°PiP»C-PiC,PëPS. PhP±PµCĤPµP¶PSPs CÍP»C-Pr P·P°CÍC,PsCÍPsPICÍPIP°C,Pë PSP°
PiPsC±P°C,PeCÍ C,PµCĤP°PiC-C—.

PµP°P»C-PN₂P·P±PµCĤC-PiP°CĤC±C- PrC-C¿CĤPµC,PëPePë, PrPsP±P°PIPePë PeP°P»C-CĤ
P°P±Ps P·P°PjC-PSPSPëPePë CÍPsP»C-, C%₀Ps PjC-CÍC,CÍC,CH PeP°P»C-PN₂: C...PsC±P°
PePsPSC†PµPSC,CĤP°C†C-CÍ PeP°P»C-CĤ CÍ CÍPëCĤPsPIP°C,C†C- PeCĤPsPIC-
P·P°P·PIPëC±P°PN₂ P·P°P»PëC€P°C”C,CĤCÍCÍ PI PjPµP¶P°C... PSPsCĤPjPë, CÍ PrPµCÍPePëC...
PiP°C†C-C”PSC,C-PI, CÍPeC- PsC,CĤPëPjCÍCĤC,CH CĤP°PjC-PiCĤPëP», PjPsP¶Pµ
CÍPiPsCÍC,PµCĤC-PiP°C,PëCÍCÍ PiC-PiPµCĤPeP°P»C-C”PjC-CÍ.
PµP°P»C-PN₂P·P±PµCĤC-PiP°CĤC±C- PrC-CÍCĤPµC,PëPePë (PSP°PiCĤPëPeP»P°Pr,
CÍPiC-CĤPsPSPsP»P°PeC,PsPS, C,CĤPëP°PjC,PµCĤPµPS P°P±Ps P°PjC-P»PsCĤPëPr),
PrPsP±P°PIPePë PeP°P»C-CĤ P°P±Ps P·P°PjC-PSPSPëPePë CÍPsP»C-, C%₀Ps PjC-CÍC,CÍC,CH
PeP°P»C-PN₂, PjPsP¶CÍC,CH PiCĤPëP·PIPµCÍC,Pë PrPs P·PSP°C±PSPsPiPs
P·P±C-P»CHC€PµPSPSCÍ CĤC-PIPSCÍ PeP°P»C-CĤ PI CÍPëCĤPsPIP°C,C†C- PeCĤPsPIC-.
PŸP»C-Pr C,P°PePsP¶ P±CÍC,Pë PsP±PµCĤPµP¶PSPëPj PiCĤPë PsPrPSPsC±P°CÍPSPsPjCÍ
P·P°CÍC,PsCÍCÍPIP°PSPSC- CĤP°PjC-PiCĤPëP»CÍ P· C-PSC€PëPjPë PiCĤPµPiP°CĤP°C,P°PjPë,
C%₀Ps PiC-PrPIPëC%₀CÍCĤC,CH PIPjC-CÍC, PeP°P»C-CĤ PI CÍPëCĤPsPIP°C,C†C- PeCĤPsPIC-,
C,P°PePëPjPë CÍPe C,CĤPëPjPµC,PsPiCĤPëPj C,P° PePs-C,CĤPëPjPsPeCÍP°P·PsP»
(C,CĤPëPjPµC,PsPiCĤPëPj/CÍCÍP»CHC,,P°PjPµC,PsPeCÍP°P·PsP»), PsCÍPeC-P»CHPePë
C,CĤPëPjPµC,PsPiCĤPëPj, CÍPe PIC-PrPsPjPs, PrC-C” CÍPe
PeP°P»C-PN₂P·P±PµCĤC-PiP°CĤC±PëPN₂ PrC-CÍCĤPµC,PëPe P°PjC-P»PsCĤPëPr. PŸPsPjCÍ
PePsPjP±C-PSP°C†C-CÍ C-PSPiC-P±C-C,PsCĤC-PI PhPµPα P·
PIPëC%₀PµP·P°P·PSP°C±PµPSPëPjPë PiCĤPµPiP°CĤP°C,P°PjPë PSPµ
CĤPµPePsPjPµPSPrCÍC”C,CĤCÍCÍ. PiPeC%₀Ps PiPsPeP°P·P°PSPs PsPrPSPsC±P°CÍPSPµ
P·P°CÍC,PsCÍCÍPIP°PSPSCÍ, C—C... CÍP»C-Pr P·P°CÍC,PsCÍPsPICÍPIP°C,Pë P·
PsP±PµCĤPµP¶PSC-CÍC,CĤ C,P° P· C±P°CÍC,PëPj PePsPSC,CĤPsP»PµPj CĤC-PIPSCÍ
PeP°P»C-CĤ PI CÍPëCĤPsPIP°C,C†C- PeCĤPsPIC-.

PiPëPeP»PsCÍPiPsCĤPëPS: PiC-PiPµCĤPeP°P»C-C”PjC-CÍ PjPsP¶Pµ PIPëPSPëPePSCÍC,Pë PiC-Pr
C±P°CÍ PsPrPSPsC±P°CÍPSPsPiPs P·P°CÍC,PsCÍCÍPIP°PSPSCÍ C-PSPiC-P±C-C,PsCĤC-PI

PhPμPα P· C†PēPeP»PsCÍPīPsCḡPēPSPsPj. P PμPePsPjPμPSPrCfC”C,CHCÍCÍ
PjPsPSC-C,PsCḡPēPSPi CḡC-PIPSCÍ PeP°P»C-Cḡ PI CÍPēCḡPsPIP°C,C†C- PeCḡPsPIC-.

P”PμPīP°CḡPēPS: PīC-Pr C†P°CÍ PsPrPSPsC†P°CÍPSPsPiPs P·P°CÍC,PsCÍCfPIP°PSPSCÍ
C-PSPiC-P±C-C,PsCḡC-PI PhPμPα P· PiPμPīP°CḡPēPSPsPj PjPsP¶Pμ
CÍPīPsCÍC,PμCḡC-PiP°C,PēCÍCÍ PiC-PiPμCḡPeP°P»C-C”PjC-CÍ.
P PμPePsPjPμPSPrCfC”C,CHCÍCÍ PjPsPSC-C,PsCḡPēPSPi CḡC-PIPSCÍ PeP°P»C-Cḡ PI
CÍPēCḡPsPIP°C,C†C- PeCḡPsPIC-.

PŸPsP»C- PeP°P»C-Cḡ, PiPμPīP°CḡPēPS, PeP°P»C-PN₂P·P±PμCḡC-PiP°CḡC†C-
PrC-C¿CḡPμC,PēPePē C,P° C-PSC€C- P°PeC,PēPIPSC- CḡPμC†PsPIPēPSPē, C%oPs
P·P±C-P»CHC€C¿CḡC,CH CḡC-PIPμPSCḡ PeP°P»C-Cḡ C¿ PiP»P°P·PjC- PeCḡPsPIC-
(PIPeP»CḡC†P°CḡC†Pē P°PSC,P°PiPsPSC-CÍC,Pē P°PSPiC-PsC,PμPSP·PēPSC¿ P†P†,
C,CḡPēPjPμC,PsPiCḡPēPj, C,P°PeCḡPsP»C-PjC¿CÍ, C†PēPeP»PsCÍPīPsCḡPēPS): PjPsP¶Pμ
PIPēPSPēPePSCfC,Pē PiC-PiPμCḡPeP°P»C-C”PjC-CÍ, C,PsPjCf PSpμPsP±C...C-PrPSPēPN₂
CḡPμC,PμP»CHPSPēPN₂ PjPsPSC-C,PsCḡPēPSPi CḡC-PIPSCÍ PeP°P»C-Cḡ Cf PiP»P°P·PjC-
PeCḡPsPIC-.

PŸCḡPēPjPμC,PsPiCḡPēPj C,P° PePsPjP±C-PSP°C†C-C— C,,C-PeCÍPsPIP°PSPēC... PrPsP· C-P·
CÍC¿P»CHC,,P°PjPμC,PsPeCÍP°P·PsP»PsPj (PePs-C,CḡPēPjPsPeCÍP°P·PsP»PsPj):
Cf PīP°C†C-C”PSC,C-PI, CÍPeC- PīCḡPēPN₂PjP°P»Pē C-PSPiC-P±C-C,PsCḡPē PhPμPα C,P°
C,CḡPēPjPμC,PsPiCḡPēPj, C- PePsPjP±C-PSP°C†C-C— C,,C-PeCÍPsPIP°PSPēC... PrPsP· C-P·
CÍCfP»CHC,,P°PjPμC,PsPeCÍP°P·PsP»PsPj (PePs-C,CḡPēPjPsPeCÍP°P·PsP»PsPj),
CÍPīPsCÍC,PμCḡC-PiP°P»P°CÍCḡ PiC-PrPIPēC%oPμPSP° C†P°CÍC,PsC,P° CḡPsP·PIPēC,PeCf
PiC-PiPμCḡPeP°P»C-C”PjC-C—. P’C-PrPsPjPs, C%oPs Cf PrPμCÍPePēC... PīP°C†C-C”PSC,C-PI,
CÍPeC- PsC,CḡPēPjCfCḡC,CH CḡP°PjC-PiCḡPēP», PjPsP¶Pμ CÍPīPsCÍC,PμCḡC-PiP°C,PēCÍCÍ
PiC-PiPμCḡPeP°P»C-C”PjC-CÍ. PŸP»C-Pr C,P°PePsP¶ P±CfC,Pē PsP±PμCḡPμP¶PSPēPj PīCḡPē
PsPrPSPsC†P°CÍPSPsPjCf P·P°CÍC,PsCÍCfPIP°PSPSC- CḡP°PjC-PiCḡPēP»Cf P· C-PSC€PēPjPē
P»C-PeP°CḡCÍCḡPePēPj P·P°CÍPsP±P°PjPē, C%oPs PīC-PrPIPēC%oCfCḡC,CH PIPjC-CÍC,
PeP°P»C-Cḡ PI CÍPēCḡPsPIP°C,C†C- PeCḡPsPIC-, C,P°PePēPjPē CÍPe C,CḡPēPjPμC,PsPiCḡPēPj
C,P° PePs-C,CḡPēPjPsPeCÍP°P·PsP»
(C,CḡPēPjPμC,PsPiCḡPēPj/CÍCfP»CHC,,P°PjPμC,PsPeCÍP°P·PsP»), PsCÍPeC-P»CHPePē
C,CḡPēPjPμC,PsPiCḡPēPj, CÍPe PIC-PrPsPjPs, PrC-C” CÍPe
PeP°P»C-PN₂P·P±PμCḡC-PiP°CḡC†PēPN₂ PrC-CfCḡPμC,PēPe P°PjC-P»PsCḡPēPr. PŸPsPjCf
PePsPjP±C-PSP°C†C-CÍ CḡP°PjC-PiCḡPēP»Cf C-P· PIPēC%oPμP·P°P·PSP°C†PμPSPēPjPē
P»C-PeP°CḡCÍCḡPePēPjPē P·P°CÍPsP±P°PjPē PSpμ CḡPμPePsPjPμPSPrCfC”C,CHCÍCÍ.
PīPeC%oPs PīPsPeP°P·P°PSPs PsPrPSPsC†P°CÍPSPμ P·P°CÍC,PsCÍCfPIP°PSPSCÍ, C—C...
CÍP»C-Pr P·P°CÍC,PsCÍPsPICfPIP°C,Pē P· PsP±PμCḡPμP¶PSC-CÍC,Cḡ C,P° P· C†P°CÍC,PēPj
PePsPSC,CḡPsP»PμPj CḡC-PIPSCÍ PeP°P»C-Cḡ PI CÍPēCḡPsPIP°C,C†C- PeCḡPsPIC-.

PhPSC,PēPiC-PiPμCḡC,PμPSP·PēPIPSC- P»C-PeP°CḡCÍCḡPeC- P·P°CÍPsP±Pē
(PSP°PīCḡPēPeP»P°Pr PrC-C¿CḡPμC,PēPePē) C,P° C-PSC€C- P·P°CÍPsP±Pē, CÍPeC-
PjPsP¶C¿C,CH P·PSPēP¶C¿PIP°C,Pē P°CḡC,PμCḡC-P°P»CHPSPēPN₂ C,PēCÍPe
(PSP°PīCḡPēPeP»P°Pr PSC-C,CḡP°C,Pē, C,CḡPēC†PēPeP»C-C†PSC-
P°PSC,PēPrPμPiCḡPμCÍP°PSC,Pē, P°PSPμCÍC,PμC,PēPePē, PμC,P°PSPsP», P±P°PeP»PsC,,PμPS,
P°P»CHC,,C¿P·PsCÍPēPS, PrPsPeCÍP°P·PsP·PēPS, PiCḡP°P·PsP·PēPS, C,P°PjCÍC¿P»PsP·PēPS,
C,PμCḡP°P·PsP·PēPS): PjPsP¶P»PēPIPμ PiPsCÍPēP»PμPSPSCÍ CḡPēP·PēPeCf
P°CḡC,PμCḡC-P°P»CHPSPsC— PiC-PiPsC,PμPSP·C-C—.

P’P°P·PsPiCḡPμCÍPsCḡPSC- CÍPēPjPiP°C,PsPjC-PjPμC,PēPePē C,P° C-PSC€C-
CḡPμC†PsPIPēPSPē (PSP°PīCḡPēPeP»P°Pr, C-P·PsPiCḡPsC,PμCḡPμPSPsP»,

$PrPsP \pm C \acute{C}, P^{\circ}PjC-PS, PrPsPiP^{\circ}PjC-PS, P_{\mu}PiC-PS P_{\mu}C, CHP \ddot{e}PS), C\ddot{I}PeC- PjPsP \nabla C \acute{C}, CH$
 $P \cdot PjP_{\mu}PSC \in C \acute{C} PIP^{\circ}C, P \ddot{e} P^{\circ}PSC, P \ddot{e}PiC-PiP_{\mu}CHC, P_{\mu}PSP \cdot P \ddot{e}PIPSP \ddot{e}PN_{\circ} P_{\mu}C, P_{\mu}PeC,$
 $CHP^{\circ}PjC-PiCHP \ddot{e}P \gg C \acute{C}: CHP_{\mu}PePsPjP_{\mu}PSP rCrC''C, CHC \acute{I}C\ddot{I} PePsPSC, CHPsP \gg CH$
 $P^{\circ}CHC, P_{\mu}CHC-P^{\circ}P \gg CH PSPsPiPs C, P \ddot{e}C \acute{I}PeC \acute{I}.$

$P \ddot{h}P \gg PsPiC \acute{C}CHP \ddot{e}PSPsP \gg, C-PjC \acute{C}PSPsPrP_{\mu}PiCHP_{\mu}C \acute{I}P^{\circ}PSC, P \ddot{e},$
 $PePsCHC, P \ddot{e}PePsC \acute{I}C, P_{\mu}CHPsC-PrP \ddot{e}, PiCHPsPeP^{\circ}C-PS P^{\circ}PjC-Pr,$
 $C \ddot{I}P \ddot{e}C, PsC \acute{I}C, P^{\circ}C, P \ddot{e}PeP \ddot{e} C, P^{\circ} C-PSC \in C- CHP_{\mu}C \ddot{I}PsPIP \ddot{e}PSP \ddot{e}, C\ddot{I}PeC- PjPsP \nabla C \acute{C}, CH$
 $P \cdot PjC-PSC \nabla PIP^{\circ}C, P \ddot{e} PeC-P \gg CHPeC-C \acute{I}C, CH PeP \gg C-C, P \ddot{e}PS PeCHPsPIC-:$
 $PiC-PrPIP \ddot{e}C \% P_{\mu}PSP^{\circ} C-PjPsPIC-CHPSC-C \acute{I}C, CH PiP_{\mu}PjP^{\circ}C, PsP \gg PsPiC-C \ddot{I}PSP \ddot{e}C...$
 $CHP_{\mu}P^{\circ}PeC \ddot{I}C-PN_{\circ}.$

$P \ddot{Y}PsP \gg C- P \gg C-C, C-CH: C-PSPiC-P \pm C-C, PsCHP \ddot{e} P \ddot{h}P_{\mu}P \nabla PjPsP \nabla C \acute{C}, CH P \cdot PjP_{\mu}PSC \in C \acute{C} PIP^{\circ}C, P \ddot{e}$
 $P_{\mu}PeC \acute{I}PeCHP_{\mu}C \ddot{I}C-CH P \gg C-C, C-CH, C- C, PsPjC \acute{I} PjPsP \nabla P_{\mu} PiC-PrPIP \ddot{e}C \% C \acute{C} PIP^{\circ}C, P \ddot{e}C \acute{I}C\ddot{I}$
 $PN_{\circ}PsPiPs C, PsPeC \acute{I}P \ddot{e}C \ddot{I}PSC-C \acute{I}C, CH. P P_{\mu}PePsPjP_{\mu}PSP rCrC''C, CHC \acute{I}C\ddot{I} PePsPSC, CHPsP \gg CH$
 $CHC-PIPSC\ddot{I} P \gg C-C, C-CH C \acute{I} PeCHPsPIC-.$

$P \ddot{h}PSC, P \ddot{e}PrC-P^{\circ}P \pm P_{\mu}C, P \ddot{e}C \nabla PSC- P \cdot P^{\circ}C \acute{I}PsP \pm P \ddot{e}, PIP \nabla P \gg CHC \nabla P^{\circ}CHC \nabla P \ddot{e}$
 $C-PSC \acute{I}C \acute{C} P \gg C-PS: PjPsP \nabla P \gg P \ddot{e}PIC- PiC-PiPsPiP \gg C-PeP_{\mu}PjC-C \ddot{I}PSC- CHP_{\mu}P^{\circ}PeC \ddot{I}C-C-.$
 $P P_{\mu}PePsPjP_{\mu}PSP rCrC''C, CHC \acute{I}C\ddot{I} PePsPSC, CHPsP \gg CH CHC-PIPSC\ddot{I} PiP \gg CHPePsP \cdot P \ddot{e} C \acute{I}$
 $PeCHPsPIC-.$

$P \acute{K}P_{\mu}C \acute{I}C, P_{\mu}CHPsC-PrPSC- PiCHPsC, P \ddot{e}P \cdot P^{\circ}PiP^{\circ}P \gg CHPSC- P \cdot P^{\circ}C \acute{I}PsP \pm P \ddot{e} (P \acute{K}P_{\mu}P-P-)$
 $C, P^{\circ} P^{\circ}C \ddot{I}P_{\mu}C, P \ddot{e}P \gg C \acute{I}P^{\circ}P \gg C-C \ddot{I}P \ddot{e}P \gg PsPIP^{\circ} PeP \ddot{e}C \acute{I}P \gg PsC, P^{\circ}: PjPsP \nabla P \gg P \ddot{e}PIP_{\mu}$
 $P \cdot PSP \ddot{e}P \nabla P_{\mu}PSPSC\ddot{I} P^{\circ}PSC, P \ddot{e}PiC-PiP_{\mu}CHC, P_{\mu}PSP \cdot P \ddot{e}PIPSPsPiPs P_{\mu}C, P_{\mu}PeC, C \acute{I}$
 $CHP^{\circ}PjC-PiCHP \ddot{e}P \gg C \acute{I}. P \ddot{Y}PsPjC \acute{I} C \acute{I}C \acute{I}PjC-C \acute{I}PSP_{\mu} P \cdot P^{\circ}C \acute{I}C, PsC \acute{I}C \acute{I}PIP^{\circ}PSPSC\ddot{I}$
 $C-PSPiC-P \pm C-C, PsCHC-PI P \ddot{h}P_{\mu}P \nabla C- P \acute{K}P_{\mu}P-P- PjPsP \nabla P_{\mu} PiCHP \ddot{e}P \cdot PIP_{\mu}C \acute{I}C, P \ddot{e} PrPs$
 $PiC-PrPIP \ddot{e}C \% P_{\mu}PSPSC\ddot{I} CHP \ddot{e}P \cdot P \ddot{e}PeC \acute{I} PiPsPiC-CHC \nabla P_{\mu}PSPSC\ddot{I} C, C \acute{I}PSPeC \ddot{I}C-C-$
 $PSP \ddot{e}CHPsPe C, P^{\circ} P \cdot P \pm C-P \gg CHC \nabla P_{\mu}PSPSC\ddot{I} CHC-PIPSC\ddot{I} PeP^{\circ}P \gg C-CH PI PeCHPsPIC-.$

$P \ddot{I}PSPiC-P \pm C-C, PsCHP \ddot{e} PSP_{\mu}PiCHP \ddot{e}P \gg C-P \cdot P \ddot{e}PSC \acute{C} (P \acute{K}P \cdot P_{\mu}):$
 $PiPsPIC-PrPsPjP \gg C\ddot{I}P \gg PsC \acute{I}C\ddot{I} PiCHPs PiC-PrPIP \ddot{e}C \% P_{\mu}PSP \ddot{e}PN_{\circ} CHP \ddot{e}P \cdot P \ddot{e}Pe CHPsP \cdot PIP \ddot{e}C, PeC \acute{I}$
 $P^{\circ}PSPiC-PsPSP_{\mu}PIC \nabla PsC, P \ddot{e}C \ddot{I}PSPsPiPs PSP^{\circ}P \pm CHC\ddot{I}PeC \acute{I} PiCHP \ddot{e} PsPrPSPsC \nabla P^{\circ}C \acute{I}PSPsPjC \acute{I}$
 $P \cdot P^{\circ}C \acute{I}C, PsC \acute{I}C \acute{I}PIP^{\circ}PSPSC- C-PSPiC-P \pm C-C, PsCHC-PI P \ddot{h}P_{\mu}P \nabla (C, P^{\circ}PeP \ddot{e}C... C\ddot{I}Pe$
 $CHP^{\circ}PjC-PiCHP \ddot{e}P \gg) C, P^{\circ} C-PSPiC-P \pm C-C, PsCHC-PI P \acute{K}P \cdot P_{\mu} (C, P^{\circ}PeP \ddot{e}C... C\ddot{I}Pe$
 $CHP^{\circ}C \ddot{I}P_{\mu}PeP^{\circ}PrPsC, CHP \ddot{e}P \gg).$

-

$P \ddot{h}PjP \gg PsPrP \ddot{e}PiC-PS$

$P \ddot{h}PjP \gg PsPrP \ddot{e}PiC-PS P \pm P_{\mu}P \cdot PiP_{\mu}C \ddot{I}PSP \ddot{e}PN_{\circ} PiCHP \ddot{e} C \acute{I}C \acute{I}PjC-C \acute{I}PSPsPjC \acute{I}$
 $P \cdot P^{\circ}C \acute{I}C, PsC \acute{I}C \acute{I}PIP^{\circ}PSPSC- P \cdot C, C-P^{\circ}P \cdot P \ddot{e}PrPSP \ddot{e}PjP \ddot{e} PrC-C \acute{I}CHP_{\mu}C, P \ddot{e}PeP^{\circ}PjP \ddot{e},$
 $B B B B B B B B B B B B B B B \beta-P^{\circ}PrCHP_{\mu}PSPsP \pm P \gg PsPeP^{\circ}C, PsCHP^{\circ}PjP \ddot{e},$
 $PSC-C, CHP^{\circ}C, P^{\circ}PjP \ddot{e} C, CHP \ddot{e}PIP^{\circ}P \gg PsC- PrC-C-, PSC-C, CHPsPiP \gg C-C \ddot{I}P_{\mu}CHP \ddot{e}PSPsPj, C \% Ps$
 $P \cdot P^{\circ}C \acute{I}C, PsC \acute{I}PsPIC \acute{I}PIP^{\circ}PIC \acute{I}C\ddot{I} C \acute{I}C \acute{I}P \pm P \gg C-PSPiPIP^{\circ}P \gg CH PSPs, P \acute{K}P_{\mu}P-P-,$
 $P^{\circ}PSC, P \ddot{e}P \pm C-PsC, P \ddot{e}PeP^{\circ}PjP \ddot{e} C, P^{\circ} PiP_{\mu}CHPsCHP^{\circ}P \gg CH PSP \ddot{e}PjP \ddot{e}$
 $PiC-PiPsPiP \gg C-PeP_{\mu}PjC-C \ddot{I}PSP \ddot{e}PjP \ddot{e} P \cdot P^{\circ}C \acute{I}PsP \pm P^{\circ}PjP \ddot{e}.$

$P'PiP \gg P \ddot{e}PI C-PSC \in P \ddot{e}C... P \gg C-PeP^{\circ}CHC \acute{I}CHPeP \ddot{e}C... P \cdot P^{\circ}C \acute{I}PsP \pm C-PI PSP^{\circ}$
 $P^{\circ}PjP \gg PsPrP \ddot{e}PiC-PS:$

вґ” Р†PSPiC-P±C-C,PsCґPё CYP3A4: PsPrPSPsC†P°CґPSPµ P·P°CґC,PsCґCґPIP°PSPSCґ P°PjP»PsPrPёPiC-PSCґ C,P° C-PSPiC-P±C-C,PsCґC-PI CYP3A4 PiPsC,CґPґPSPsC— P°P±Ps PiPsPjC-CґPSPsC— PrC-C— (C-PSPiC-P±C-C,PsCґPё PiCґPsC,PµP°P·, P°P·PsP»CHPSC- PiCґPsC,PёPiCґPёP±PePsPIC- P·P°CґPsP±Pё, PjP°PeCґPsP»C-PrPё, C,P°PeC- CґPe PµCґPёC,CґPsPjC-C†PёPS C†Pё PeP»P°CґPёC,CґPsPjC-C†PёPS, PIPµCґP°PiP°PjC-P» P°P±Ps PrPёP»C,C-P°P·PµPj) PjPsPґPµ PiCґPёP·PIPµCґC,Pё PrPs P·PSP°C†CґC%PsPiPs PiC-PrPIPёC%PµPSPSCґ PµPeCґPiPsP·PёC†C-C— P°PjP»PsPrPёPiC-PSCґ, C%Ps C,P°PePsPґ PjPsPґPµ PiCґPёP·PIPµCґC,Pё PrPs PiC-PrPIPёC%PµPSPSCґ CґPёP·PёPeCґ PIPёPSPёPePSPµPSPSCґ PiC-PiPsC,PµPSP·C-C—. PҗP»C-PSC-C†PSPµ P·PSP°C†PµPSPSCґ C,P°PePёC... P·PjC-PS PjPsPґPµ P±CґC,Pё P±C-P»CHCё PIPёCґP°PґPµPSPёPj Cґ PiP°C†C-C”PSC,C-PI P»C-C,PSCHPsPiPs PIC-PeCґ. PҗPsPґPµ P±CґC,Pё PSPµPsP±C...C-PrPSPёPj PeP»C-PSC-C†PSPµ CґPiPsCґC,PµCґPµPґPµPSPSCґ P·P° CґC,P°PSPsPj PiP°C†C-C”PSC,P° C,P° PiC-PrP±C-Cґ PrPsP·Pё.

вґ” Р†PSPPrCґPeC,CґPё CYP3A4: PiCґPё PsPrPSPsC†P°CґPSPsPjCґ P·P°CґC,PsCґCґPIP°PSPSC- PIC-PrPsPjPёC... C-PSPPrCґPeC,PsCґC-PI CYP3A4 PePsPSC†PµPSC,CґP°C†C-Cґ P°PjP»PsPrPёPiC-PSCґ PI PiP»P°P·PjC- PeCґPsPIC- PjPsPґPµ PIC-PrCґC-P·PSCґC,PёCґCґ. PҗPsPjCґ CґP»C-Pr PePsPSC,CґPsP»CґPIP°C,Pё P°CґC,PµCґC-P°P»CHPSPёPҗ C,PёCґPe C- PICґP°C...PsPICґPIP°C,Pё CґPµPiCґP»CґPIP°PSPSCґ PrPsP·Pё PiC-Pr C†P°Cґ C,P° PiC-CґP»Cґ PsPrPSPsC†P°CґPSPsPiPs PiCґPёPҗPsPjCґ P»C-PeC-PI, PsCґPsP±P»PёPiPs Cґ CґP°P·C- P·P°CґC,PsCґCґPIP°PSPSCґ C-P· CґPёP»CHPSPёPjPё C-PSPPrCґPeC,PsCґP°PjPё CYP3A4 (C,P°PePёPjPё CґPe CґPёC,P°PjPiC-C†PёPS, PiCґPµPiP°CґP°C,Pё P·PIC-CґPsP±PsCґ).

PґPµ CґPµPePsPjPµPSPPrCґC”C,CHCґCґ P·P°CґC,PsCґPsPICґPIP°C,Pё P°PjP»PsPrPёPiC-PS CґP°P·PsPj C-P· PiCґPµPҗPiC,,CґCґC,PsPj P°P±Ps P· PiCґPµPҗPiC,,CґCґC,PsPIPёPj CґPsPePsPj, PsCґPeC-P»CHPePё Cґ PrPµCґPePёC... PiP°C†C-C”PSC,C-PI P±C-PsPrPsCґC,CґPiPSC-CґC,CH PjPsPґPµ P±CґC,Pё P·P±C-P»CHCёPµPSP°, C%Ps PiCґPёP·PIPµPrPµ PrPs PiPsCґPёP»PµPSPSCґ PiC-PiPsC,PµPSP·PёPIPSPsPiPs PµC,,PµPeC,Cґ P»C-PeP°CґCґCHPePsPiPs P·P°CґPsP±Cґ.

PҗP»C-PSC-C†PSC- PrPsCґP»C-PrPґPµPSPSCґ PIP·P°C”PjPsPrC-C— PiPsPeP°P·P°P»Pё, C%Ps C†PёPjPµC,PёPrPёPS, P°P»CґPjC-PSC-PҗP°PiPSC-Pҗ (P°PSC,P°C†PёPr) C,P° CґPёP»PrPµPSP°C,,C-P» PSPµ PIPiP»PёPIP°P»Pё PSP° C,,P°CґPjP°PePsPeC-PSPµC,PёPeCґ P°PjP»PsPrPёPiC-PSCґ.

PҗP°PeCґPsP»C-PjCзCґ. PµCґPё PsPrPSPsC†P°CґPSPsPjCґ P·P°CґC,PsCґCґPIP°PSPSC- P»C-PeP°CґCґCHPePsPiPs P·P°CґPsP±Cґ P· P°PjP»PsPrPёPiC-PSPsPj C” CґPёP·PёPe P·P±C-P»CHCёPµPSPSCґ PePsPSC†PµPSC,CґP°C†C-C— C,P°PeCґPsP»C-PjCґCґCґ PI PeCґPsPIC-.

P”P»Cґ C,PsPiPs C%PsP± CґPSPёPePSCґC,Pё C,PsPeCґPёC†PSPsCґC,C- C,P°PeCґPsP»C-PjCґCґCґ, PiCґPёP·PSP°C†PµPSPSCґ P°PjP»PsPrPёPiC-PSCґ PiP°C†C-C”PSC,Cґ, CґPePёPҗ PiCґPёPҗP°C” C,P°PeCґPsP»C-PjCґCґ, PiPsC,CґPµP±CґC” PjPsPSC-C,PsCґPёPSPiCґ CґC-PIPSC-PI C,P°PeCґPsP»C-PjCґCґCґ PI PeCґPsPIC- C,P° PePsCґPёPiCґPIP°PSPSCґ PҗPsPiPs PrPsP·CґPIP°PSPSCґ Cґ CґP°P·C- PSPµPsP±C...C-PrPSPsCґC,C-.

P†PSPiC-P±C-C,PsCґPё mTOR (PjC-CёPµPSC- CґP°PiP°PjC-C†PёPSCз Cз CґCґP°PIC†C-). P†PSPiC-P±C-C,PsCґPё mTOR, C,P°PeC- CґPe CґPёCґPsP»C-PjCґCґ, C,PµPjCґPёCґPsP»C-PjCґCґ C,P° PµPIPµCґPsP»C-PjCґCґ, C” CґCґP±CґC,CґP°C,P°PjPё CYP3A.

PhPjP»PsPrPëPîC-PS C" CÍP»P°P±PePëPj C-PSPiC-P±C-C,PsCĤPsPj CYP3A. PμCĤPë
PsPrPSPsC±P°CÍPSPsPjCÍ P·P°CÍC,PsCÍCÍPIP°PSPSC- P·C-PSPiC-P±C-C,PsCĤP°PjPë mTOR
P°PjP»PsPrPëPîC-PS PjPsP¶Pμ P·P±C-P»CHCĖCÍPIP°C,Pë C—C...PSCĤ PμPeCÍPîPsP·PëC†C-CĤ.

P°P°PSC,CĤPsP»PμPS (C-PSC,,C¿P·C-C—). PJ C,PIP°CĤPëPS
CÍPîPsCÍC,PμCĤC-PiP°P»PëCÍCĬ CĖP»CÍPSPsC±PePsPIC- C,,C-P±CĤPëP»CĬC†C-C— P·
P»PμC,P°P»CHPSPëPj PSP°CÍP»C-PrPePsPj C,P° CÍPμCĤC†PμPIPs-CÍCÍPrPëPSPSPëPñ
PePsP»P°PîCÍ, C%Ps P°CÍPsC†C-CĤPIP°P»PëCÍCĬ P·PiC-PîPμCĤPeP°P»C-C" PjC-C"Ĥ,
PîC-CÍP»CĬ P·P°CÍC,PsCÍCÍPIP°PSPSCĬ PIPμCĤP°PîP°PjC-P»CÍ C,P° PrP°PSC,CĤPsP»PμPSCÍ
PIPSCÍC,CĤC-CĖPSCĤPsPIPμPSPSPs. PšPμCĤPμP· CĤPëP·PëPe CĤPsP·PIPëC,PeCÍ
PiC-PîPμCĤPeP°P»C-C" PjC-C— CĤPμPePsPjPμPSPPrPsPIP°PSPs CÍPSPëPeP°C,Pë
P·P°CÍC,PsCÍCÍPIP°PSPSCĬ P±P»PsPeP°C,PsCĤC-PI PeP°P»CHC†C-C"PIPëC... PeP°PSP°P»C-PI,
C,P°PePëC... CĬPe P°PjP»PsPrPëPîC-PS, CÍC...PëP»CHPSPëPj PrPs P·P»PsCĬPeC-CÍPSPsC—
PiC-PîPμCĤC,PμCĤPjC-C— PîP°C†C-C" PSC,P°Pj C,P° PiCĤPë P»C-PeCÍPIP°PSPSC-
P·P»PsCĬPeC-CÍPSPsC— PiC-PîPμCĤC,PμCĤPjC-C—.

P'PiP»PëPI P°PjP»PsPrPëPîC-PSC¿ PSP° C-PSCĖC- P»C-PeP°CĤCÍCHPeC- P·P°CÍPsP±Pë

PhPjP»PsPrPëPîC-PS PjPsP¶Pμ PîPsCÍPëP»CHPIP°C,Pë PμC,,PμPeC, C-PSCĖPëC...
P°PSC,PëPiC-PîPμCĤC,PμPSP·PëPIPSPëC... P»C-PeP°CĤCÍCHPePëC... P·P°CÍPsP±C-PI.

PľP»C-PSC-C±PSC- PrPsCÍP»C-PrP¶PμPSPSCĬ PIP·P°C" PjPsPrC-C— PSPμ PîPsPeP°P·P°P»Pë
PIPîP»PëPICÍ P°PjP»PsPrPëPîC-PSCÍ PSP° C,,P°CĤPjP°PePsPeC-PSPμC,PëPeCÍ
P°C,PsCĤPIP°CÍC,P°C,PëPSCÍ, PrPëPiPsPeCÍPëPSCÍ, PμC,P°PSPsP»CÍ, PIP°CĤC,,P°CĤPëPSCÍ
C±Pë C†PëPeP»PsCÍPîPsCĤPëPSCÍ. PhPjP»PsPrPëPîC-PS PSPμ PIPîP»PëPIP°C" PSP°
P»P°P±PsCĤP°C,PsCĤPSC- PîPsPeP°P·PSPëPePë.

PîPëPeP»PsCÍPîPsCĤPëPS. P-PsPrPSPëC... PrPsCÍP»C-PrP¶PμPSCĤ PIP·P°C" PjPsPrC-C—
C†PëPeP»PsCÍPîPsCĤPëPSCÍ P·P°PjP»PsPrPëPîC-PSPsPj PSPμ PiCĤPsPIPsPrPëP»PsCÍCH CÍ
P·PrPsCĤPsPIPëC... PrPsP±CĤPsPIPsP»CHC†C-PI P°P±Ps C-PSCĖPëC...
PîPsPîCÍP»CĬC†C-CĬC..., P·P° PIPëPSCĬC,PePsPj PîP°C†C-C" PSC,C-PI PîC-CÍP»CĬ
C,CĤP°PSCÍPîP»P°PSC,P°C†C-C— PSPëCĤPePë, PrPμ CÍPîPsCÍC,PμCĤC-PiP°P»PsCÍCĬ
P·P±C-P»CHCĖPμPSPSCĬ P·PjC-PSPSPsC— P·P°P»PëCĖPePsPIPsC—
PePsPSC†PμPSC,CĤP°C†C-C— C†PëPeP»PsCÍPîPsCĤPëPSCÍ (CÍ CÍPμCĤPμPrPSCĤPsPjCÍ
0вĤ"40 %). PŸP»C-Pr PICĤP°C...PsPICÍPIP°C,Pë PSPμPsP±C...C-PrPSC-CÍC,CH
PjPsPSC-C,PsCĤPëPSPiCÍ CĤC-PIPSĬC C†PëPeP»PsCÍPîPsCĤPëPSCÍ CÍ PîP°C†C-C" PSC,C-PI
C-P· C,CĤP°PSCÍPîP»P°PSC,P°C,PsPj PSPëCĤPePë, CĬPeC- PsC,CĤPëPjCÍĤC,CH
P°PjP»PsPrPëPîC-PS; P·P° PSPμPsP±C...C-PrPSPsCÍC,C- CÍP»C-Pr CĤPsP·PiP»CĬPSCÍC,Pë
PjPsP¶P»PëPIC-CÍC,CH P·PjPμPSCĖPμPSPSCĬ PrPsP·Pë C†PëPeP»PsCÍPîPsCĤPëPSCÍ.

PľP»P°CĤPëC,CĤPsPjC-C†PëPS C" C-PSPiC-P±C-C,PsCĤPsPj CYP3A4. PJ PîP°C†C-C" PSC,C-PI,
CĬPeC- PsC,CĤPëPjCÍĤC,CH PeP»P°CĤPëC,CĤPsPjC-C†PëPS P·P°PjP»PsPrPëPîC-PSPsPj,
PjPsP¶P»PëPIPëPñ PiC-PrPIPëC%PμPSPëPñ CĤPëP·PëPe PiC-PîPsC,PsPSC-C—.
P PμPePsPjPμPSPPrCÍC"C,CHCÍCĬ CĤPμC,PμP»CHPSPμ CÍPîPsCÍC,PμCĤPμP¶PμPSPSCĬ P·P°
CÍC,P°PSPsPj PîP°C†C-C" PSC,C-PI PîCĤPë PsPrPSPsC±P°CÍPSPsPjCÍ P·P°CÍC,PsCÍCÍPIP°PSPSC-
P°PjP»PsPrPëPîC-PSCÍ P·PeP»P°CĤPëC,CĤPsPjC-C†PëPSPsPj.

PŸPëPjPIP°CÍC,P°C,PëPS. PhPrPSPsC±P°CÍPSPμ P±P°PiP°C,PsPeCĤP°C,PSPμ
P·P°CÍC,PsCÍCÍPIP°PSPSCĬ P°PjP»PsPrPëPîC-PSCÍ PI PrPsP·C- 10 PjPi C,P°
CÍPëPjPIP°CÍC,P°C,PëPSCÍ PI PrPsP·C- 80 PjPi CÍPîCĤPëC±PëPSCĬP»Ps P·CĤPsCÍC,P°PSPSCĬ
PμPeCÍPîPsP·PëC†C-C— CÍPëPjPIP°CÍC,P°C,PëPSCÍ PSP° 77 % CÍ PîPsCĤC-PIPSĬC PSPSC- C-P·
P·P°CÍC,PsCÍCÍPIP°PSPSCĬPj CÍPëPjPIP°CÍC,P°C,PëPSCÍ PsPeCĤPμPjPs. P°P»CĬ

РіР°С†С-С"РSC,С-РІ, СІРЕс- РіСґРёРНёРјР°СґС,Сґ Р°РјР»РsРrРёРіС-РS, РrРsР·Р°
СІРёРјРІР°СІС,Р°С,РёРSСр РіРsРІРёРSРSР° Р±СрС,Рё РsР±РјРµР¶РµРSР° РrРs 20 РјРі РSР°
РrРsР±Ср.

РґСІРsР±Р»РёРІsСІС,С- Р·Р°СІС,РsСІСёРІР°РSРSСІ

Р РµРeРsРјРµРSРrСрС"С,СґСІСІ С·Р°СІС,РsСІРsРІСрРІР°С,Рё Р»С-РeР°СґСІСґСґРeРёРНё
Р·Р°СІС-Р± Р· РsР±РµРґРµР¶РµР¶РSС-СІС,Сґ РіР°С†С-С"РSC,Р°Рј, СІРЕс-
РsРrРSРsС±Р°СІРSРs РіСґРёРНёРјР°СґС,Сґ РrС-СрСґРµС,РёРeРё С,Р°
СґРµРµРіР»»СІСґРSРs РeРsРSС,СґРsР»СґРІР°С,Рё СІРёСґРsРІР°С,РeРsРІС-
СґС-РІSС- РSР°С,СґС-Сґ Ср РіР°С†С-С"РSC,С-РІ СІРЕс- РјР°СґС,Сґ СґРёР·РёРe
СґРsР·РІРёС,РeСр РіС-РіРsРSР°С,СґС-С"РјС-С—.

Р Р°РјС-РіСґРёР»»

РµРsРrРІС-РНёРSР° Р±Р»РsРeР°РrР° Р РґРґРґ. Р., РrРsРeР°Р·РsРІС- РrР°РSС- РSР°
РeРsСґРёС,Сґ С,РsРіРs, С°Рs РsРrРSРsС±Р°СІРSРµ Р·Р°СІС,РsСІСрРІР°РSРSСІ
С-РSРіС-Р±С-С,РsСґС-РІ РґРµР, Р°РSС,Р°РіРsРSС-СІС,С-РІ СґРµС†РµРіС,РsСґС-РІ
Р°РSРіС-РsС,РµРSР·РёРSСр ІІ Р°Р±Рs Р°Р»С-СІРeС-СґРµСр РіС-РrРІРёС°СрС" СґРёР·РёРe
РІРёРSРёРSРµРSРµРSРSСІ Р°СґС,РµСґС-Р°Р»СґРSРsС— РіС-РіРsС,РµРSР·С-С—,
РіС-РіРµСґРeР°Р»С-С"РјС-С— С,Р° РіРsРіС-СґСРµРµРSРSСІ С,СрРSРeС†С-С— РSРёСґРsРe
(Р·РsРeСґРµРјРјР° СґРsР·РІРёС,РeСр РіРsСІС,СґРsС— РSРёСґРeРsРІРsС—
РSРµРrРsСІС,Р°С,РSРsСІС,С-). Рј Р·РІґІ СІР·РeСр Р· С†РёРј РіРsРrРІС-РНёРSР°
Р±Р»РsРeР°РrР° Р РґРґРґ СёР»СІС...РsРј РeРsРјР±С-РSРsРІР°РSРsРіРs
Р·Р°СІС,РsСІСрРІР°РSРSСІ С-РSРіС-Р±С-С,РsСґС-РІ РґРµР, Р°РSС,Р°РіРsРSС-СІС,С-РІ
СґРµС†РµРіС,РsСґС-РІ Р°РSРіС-РsС,РµРSР·РёРSСр ІІ Р°Р±Рs Р°Р»С-СІРeС-СґРµСр РSРµ
СґРµРeРsРјРµРSРrСрС"С,СґСІСІ (РrРёРІ. СґРsР·РrС-Р»ё В«Р·Р·Р°С"РјРsРrС-СІ Р·
С-РSСёРёРј Р»С-РeР°СґСІСґСґРeРёРј Р·Р°СІРsР±Р°РјРё С,Р° С-РSСёС- РІРёРrРё
РІР·Р°С"РјРsРrС-РНёВ» С,Р° В«Р»Р°СґРјР°РeРsРrРёРSР°РјС-РeР°В»).

РіРeС°Рs С,РµСґР°РіС-СІ Ср РІРёРі»СІРrС- С,Р°РeРsС— РіРsРrРІС-РНёРSРsС—
Р±Р»РsРeР°РrРё СґРsР·С†С-РSСґС"С,СґСІСІ СІРe Р°Р±СІРsР»СґС,РSРs
РSРµРsС...С-РrРSР°, С—С— СІР»С-Рr Р·Р°СІС,РsСІРsРІСрРІР°С,Рё Р»РёСРµ РіС-Рr
РSР°РіС»СІРrРsРј СІРіРіРµС†С-Р°Р»С-СІС,Р° С,Р° Р·РґРіРsРІРё С±Р°СІС,РsРіРs
РeРsРSС,СґРsР»Сґ С,СрРSРeС†С-С— РSРёСґРsРe, РІРјС-СІС,Ср РµР»РµС,СґРsР»С-С,С-РІ
С,Р° СґС-РІSСІ Р°СґС,РµСґС-Р°Р»СґРSРsРіРs С,РёСІРeСр.

Р†РSРіС-Р±С-С,РsСґРё РґРµР C- Р°РSС,Р°РіРsРSС-СІС,Рё СґРµС†РµРіС,РsСґС-РІ
Р°РSРіС-РsС,РµРSР·РёРSСр ІІ РSРµ РјРsР¶РSР° РsРrРSРsС±Р°СІРSРs
Р·Р°СІС,РsСІРsРІСрРІР°С,Рё РіР°С†С-С"РSC,Р°Рј С-Р· РrС-Р°Р±РµС,РёС±РSРsСґ
РSРµС,СґРsРіР°С,С-СґС.

РґСІРsР±Р»РёРІС- РeР°С,РµРіРsСґС-С— РіР°С†С-С"РSC,С-РІ

Р°РіС-С,РSС-СІС,Сґ. Р†РSРіС-Р±С-С,РsСґРё РґРµР РґРµР РSРµ СІР»С-Рr
Р·Р°СІС,РsСІРsРІСрРІР°С,Рё РіС-Рr С±Р°СІ РІР°РіС-С,РSРsСІС,С-. РіРeС°Рs
РіСґРsРrРsРІРµРµРSРSСІ С,РµСґР°РіС-С— С-РSРіС-Р±С-С,РsСґР°РјРё РґРёРµ РґРµР РSРµ
РІРІР°Р¶Р°С"С,СґСІСІ РSРµРsР±С...С-РrРSРёРј, РіР°С†С-С"РSC,РeР°Рј, СІРЕс-
РіР»Р°РSСрСґС,Сґ РІР°РіС-С,РSС-СІС,Сґ, СІР»С-Рr РіРµСґРµРµС,Рё РSР°
Р°Р»СґС,РµСґРSР°С,РёРІSРµ Р°РSС,РёРіС-РіРµСґС,РµРSР·РёРІSРµ Р»С-РeСрРІР°РSРSСІ,

СІІРерм РјР°С” РІСІС,Р°РSPSPIP»РмPSPëPNë РіСґPсC,,С-Р»Сґ Р±РмР·РіРмРерРө РrP»СІІ Р·Р°СІС,PsСІСрРІР°PSPSCІІ РіС-Рr С±Р°СІ РІР°РіС-С,РSPsСІС,С-. РмСґРө РrС-Р°РіPSPsСІС,СрРІР°PSPSC- РІР°РіС-С,РSPsСІС,С- СІР»С-Рr РSPмРіР°PNëPSPs РіСґРөРіРөPSPëC,Рө РіСґРөPNëPsРј С-РSPіС-Р±С-С,PsСґС-РІ РґРмР± С- Сr СґР°Р·С- РSPмPsР±С...С-РrРSPsСІС,С- СґPsР·РіPsС±Р°С,Рө Р»С-РерСрРІР°PSPSCІІ Р°Р»СґС,РмСґPSP°С,РөРІPSPëРјРө Р»С-Рер°СґСІСґСґРөРөРјРө Р·Р°СІРsР±Р°РјРө (РrРөРІ. СґPsР·РrС-Р»Рө В«РмСґPсC,РөРіPsРерР·Р°PSPSCІІВ» С,Р° В«Р-Р°СІС,PsСІСрРІР°PSPSCІІ Сr РіРмСґС-РsРr РІР°РіС-С,РSPsСІС,С- Р°Р±Ps РіPsРrСrРІР°PSPSCІІ РіСґСrРrСґВ»).

*РмР°СrС-С”PSC,Рө Р· РІРөСІРsРерРөРј СґРөР·РөРөPsРј СґPsР·РІРөC,РерС
Р°СґС,РмСґС-Р°Р»СґPSPsC— РіС-РіPsC,РмPSP·С-С—*

*РмР°СrС-С”PSC,Рө Р·С- Р·PSP°С±PSPëРј РіС-РrРІРөC%оРмPSPSCІІРј
Р°РерC,РөРІPSPsСІС,С- Р РґРґРґ. Рј РіР°СrС-С”PSC,С-РІ Р·С- Р·PSP°С±PSPëРј
РіС-РrРІРөC%оРмPSPSCІІРј Р°РерC,РөРІPSPsСІС,С- Р РґРґРґ С-СІPSCrС” СґРөР·РөРө
СґР°РіC,PsРіPsРіPs Р·PSP°С±PSPsРіPs Р·PSPëРмРмPSPSCІІ Р°СґС,РмСґС-Р°Р»СґPSPsРіPs
С,РөСІРерСr С,Р° РіPsРіС-СґСерРмPSPSCІІ С,,СrPSPeСrС-С— РSPëСґPsРө РІPSP°СІР»С-РrPsРө
РіСґРөРіPSC-С±РмPSPSCІІ РґРмР±, PsСІРsР±Р»РөРІPs СІІРер%оPs С-РSPіС-Р±С-С,PsСґ
РґРмР± С±Рө СІСrРіСrС,С-С-РrС-СrСґРмC,РөРө РіСґРөР·PSP°С±Р°СґС,Сґ РІРіРмСґСерРм
Р°Р±Ps РІРіРмСґСерРм РіС-РrРІРөC%оСrСґС,Сґ РrPsР·Сr. РґСrС,С,С”РІPsРіPs
РіС-РrРІРөC%оРмPSPSCІІ Р°РерC,РөРІPSPsСІС,С- Р РґРґРґ, СІІРер РіPsC,СґРмР±СrС”
РјРмРrРөC±PSPsРіPs РSP°РіР»СІРrСr, Р·PsРөСґРмРјР° РіPsСІС,С-С-РrPsРіPs
РерPsPSC,СґPsР»Сґ Р°СґС,РмСґС-Р°Р»СґPSPsРіPs С,РөСІРерСr, РјPsРмPSP°
PsС±С-РерСрРІР°C,Рө, РSP°РіСґРөРөР»Р°Рr, Сr РіР°СrС-С”PSC,С-РІ:*

вґ” С-Р· С,СІІРмРерPsСґ Р°СґС,РмСґС-Р°Р»СґPSPsСґ РіС-РіРмСґС,РмPSP·С-С”Сґ;

вґ” С-Р· РrРмРерPsРјРіРмPSCІРsРІР°PSPsСґ Р·Р°СІС,С-С-РrPsСґ СІРмСґСrРмРІPsСґ
PSPмРrPsСІС,Р°C,С-СІС,Сґ;

вґ” С-Р· РіРмРјPsРrРөPSP°РјС-С±PSPs Р·PSP°С±СrС%оPsСґ РіРмСґРмCерРерPsРrPsСґ РrP»СІІ
РіСґРөC,PsРер Р°Р±Ps РІС-РrC,PsРер РөСґPsРІС- Р· Р»С-РІPsРіPs Cер»СrPSPsС±Рер°
(PSP°РіСґРөРөР»Р°Рr Р·С- СІС,РмPSPsР·PsРј Р°PsСґС,Р°Р»СґPSPsРіPs Р°Р±Ps
РјС-С,СґР°Р»СґPSPsРіPs Рер»Р°РіР°PSP°);

вґ” Р· PsРrPSPsР±С-С±PSPëРј СІС,РмPSPsР·PsРј РSPëСґРерPsРІPsC— Р°СґС,РмСґС-С— РіСґРө
PSP°СІІPSPsСІС,С- РrСґСrРіPsC— С,,СrPSPeСrС-РsPSCrСґС±PsC— РSPëСґРөРө;

вґ” Сr СІІРерөC... РSP°СІІPSP° Р°Р±Ps РјPsРмРм СґPsР·РІРөPSCrС,РөСІСІІ РSPмСІС,Р°С±Р°
СґС-РrРөPSPë Р°Р±Ps РмР»РмРерC,СґPsР»С-С,С-РІ (РІРөР»СґС±Р°СґС±Рө С,РөC..., С...С,Ps
PsC,СґРөРјСrС” РrС-СrСґРмC,РөРөРө);

вґ” С-Р· СrРөСґPsР·PsРј РіРмС±С-РSPерө С,Р°/Р°Р±Ps Р°СІСrРөC,PsРј;

вґ” СІІРерөРј РІРөРерPsPSCrСґС,Сґ PsР±CерРөСґPSC- С...С-СґСrСґРіС-С±PSC-
РІС,СґСrС±Р°PSPSCІІ Р°Р±Ps РіС-Рr С±Р°СІ Р°PSPмСІС,РмР·С-С— С-Р·
Р·Р°СІС,PsСІСрРІР°PSPSCІІРј Р»С-Рер°СґСІСґСґРөРөC... Р·Р°СІРsР±С-РІ, С%оPs
СІРіСґРөC±РөPSCІІСґС,Сґ Р°СґС,РмСґС-Р°Р»СґPSCr РіС-РіPsC,РмPSP·С-Сґ.

РіРө РіСґР°РІРөР»Рә, СґРмРерPsРјРмPSPrСrС”С,СґСІСІІ РіСґPsРІРмСІС,Рө
РерСґРмРерСrС-Сґ РrРмРіС-РrСґР°C,Р°СrС-С—, РіС-РіPsРІPsР»РмРјС-С— Р°Р±Ps
PSPмСІС,Р°С±С- РмР»РмРерC,СґPsР»С-С,С-РІ РrPs РіPsС±Р°C,РерС Р»С-РерСрРІР°PSPSCІІ

(PsPrPSP°Pe Cr PïP°C†C-C" PSC,C-PI C-P. CÍPµCĤC†PµPIPsCĤ PSPµPrPsCÍC,P°C,PSC-CÍC,CĤ C,P°PeC- PePsCĤPëPiCrPIP°P»CHBPSC- P·P°C...PsPrPë CÍP»C-Pr CĤPµC,PµP»CHBPSPs P·PIP°P¶PëC,Pë C%PsPrPs CĤPëP·PëPeCr PIPëPSPëPePSPµPSPSCĬ PïPµCĤPµPIP°PSC,P°P¶PµPSPSCĬ PsP±BĤ™ C" PjPsPj).

PÿCĤP°PSP·PëC,PsCĤPSP° P°P±Ps PïPµCĤCÍPëCÍC,CrPIP°P»CHBPSP° CÍPµCĤC†PµPIP° PSPµPrPsCÍC,P°C,PSC-CÍC,CĤ PïC-CÍP»CĬ C-PSC,,P°CĤPeC,Cr PjC-PsPeP°CĤPrP°

PµP°C†C-C" PSC,Pë P· CĤPëP·PëPePsPj PIPëPSPëPePSPµPSPSCĬ CÍPµCĤC†PµPIPsC— P°P±Ps C†PµCĤPµP±CĤP°P»CHBPSPsC— C-C€PµPjC-C— Cž PIPëPïP°PrPeCž PiPsCÍC,CĤPsC— P°CĤC,PµCĤC-P°P»CHBPSPsC— PiC-PiPsC,PµPSP·C-C—. PJ PïPsC†P°C,PePsPIC-PNë C,,P°P·C- P»C-PeCrPIP°PSPSCĬ PïPsC,CĤC-P±PµPS CĤPµC,PµP»CHBPSPëPNë PjPµPrPëC†PSPëPNë PSP°PiP»CĬPr.

PµP°C†C-C" PSC,Pë P»C-C,PSCHBPsiPs PIC-PeCž. P" PëPI. CĤPsP·PrC-P» B«PÿPïPsCÍC-P± P·P°CÍC,PsCÍCrPIP°PSPSCĬ C,P° PrPsP·PëB».

PÍC-CĤCrCĤPiC-C†PSPµ PIC,CĤCrC†P°PSPSCĬ

PïPeC%Ps C†Pµ PjPsP¶P»PëPIPs, C,Ps P»C-PeCrPIP°PSPSCĬ C-PSPiC-P±C-C,PsCĤP°PjPë P°PSPiC-PsC,PµPSP·PëPSPiPµCĤPµC,PIPsCĤCĤPIP°P»CHBPSPsPiPs C,,PµCĤPjPµPSC,Cr, C,P°PePëPjPë CĬPe CĤP°PjC-PiCĤPëP», CÍP»C-Pr PiCĤPëPiPëPSPëC,Pë P·P° 1 PrPµPSCĤ PrPs PiCĤPsPIPµPrPµPSPSCĬ C...C-CĤCrCĤPiC-C†PSPsPiPs PIC,CĤCrC†P°PSPSCĬ.

PµPsPSC,CĤPsP»CH C,,CrPSPeC†C-C— PSPëCĤPsPe

PαCrPSPeC†C-CĤ PSPëCĤPsPe PïPsC,CĤC-P±PSPs PsC†C-PSCHPIP°C,Pë PrPs C- PiC-Pr C†P°CÍ PïCĤPsPIPµPrPµPSPSCĬ P»C-PeCrPIP°PSPSCĬ C,P° PePsCĤPµPiCrPIP°C,Pë PrPsP·Cr, PsCÍPsP±P»PëPIPs Cr PïPµCĤC€C- C,PëP¶PSC- P»C-PeCrPIP°PSPSCĬ. PĤCÍPsP±P»PëPIPs CĤPµC,PµP»CHBPSPëPNë PePsPSC,CĤPsP»CH PïPsC,CĤC-P±PµPS P·P° PïP°C†C-C" PSC,P°PjPë P· PïPsCĤCrC€PµPSPSCĬPj C,,CrPSPeC†C-C— PSPëCĤPsPe (PrPëPI. CĤPsP·PrC-P» B«PÿPïPsCÍC-P± P·P°CÍC,PsCÍCrPIP°PSPSCĬ C,P° PrPsP·PëB»). P,, CĤPëP·PëPe PïPsPiC-CĤC€PµPSPSCĬ PSPëCĤPePsPIPsC— C,,CrPSPeC†C-C—, PsCÍPsP±P»PëPIPs Cr PïP°C†C-C" PSC,C-PI C-P. P·P°CÍC,C-PNëPSPsCĤ CÍPµCĤC†PµPIPsCĤ PSPµPrPsCÍC,P°C,PSC-CÍC,CĤ P°P±Ps PïC-CÍP»CĬ PïPµCĤPµCÍP°PrPePë PSPëCĤPePë.

PĤPSPiC-PsPSPµPICĤPsC,PëC†PSPëPNë PSP°P±CĤCĬPe

PJ PïP°C†C-C" PSC,C-PI, CĬPeC- PsC,CĤPëPjCrPIP°P»Pë C-PSPiC-P±C-C,PsCĤPë PĤPµPα, PIPeP»CĤC†P°CĤC†Pë CĤP°PjC-PiCĤPëP», CÍPiPsCÍC,PµCĤC-PiP°PICÍCĬ P°PSPiC-PsPSPµPICĤPsC,PëC†PSPëPNë PSP°P±CĤCĬPe (PrPëPI. CĤPsP·PrC-P» B«PµPsP±C-C†PSC- CĤPµP°PeC†C-C—B»).

PJ CĤP°P·C- CĤPsP·PIPëC,PeCr P°PSPiC-PsPSPµPICĤPsC,PëC†PSPsPiPs PSP°P±CĤCĬPeCr PïCĤPëPNëPsPj P»C-PeP°CĤCÍCHPePsPiPs P·P°CÍPsP±Cr CÍP»C-Pr PïCĤPëPiPëPSPëC,Pë. PµPsC,CĤC-P±PSPs PSPµPiP°PNëPSPs CĤPsP·PiPsC†P°C,Pë PSPµPIC-PrPeP»P°PrPSCr C,PµCĤP°PiC-CĤ. PµP°C†C-C" PSC, PïPsPIPëPSPµPS P·PSP°C...PsPrPëC,PëCÍCH PïC-Pr PjPµPrPëC†PSPëPj PSP°PiP»CĬPrPsPj PiCĤPsC,CĬPiPsPj C%PsPSP°PNëPjPµPSC€Pµ 12BĤ"24 PiPsPrPëPS C- PjPsP¶Pµ P±CrC,Pë PIPëPiPëCÍP°PSPëPNë PiC-CÍP»CĬ PïPsPIPsPiPs P·PSPëPePSPµPSPSCĬ CÍPëPjPiC,PsPjC-PI.

PJ PïP°C†C-C" PSC,C-PI, CĬPeC- PsC,CĤPëPjCrPIP°P»Pë C-PSPiC-P±C-C,PsCĤPë PĤPµPα,

PIPeP»CĤC±P°CĤC±Pë CĤP°PjC-PiCĤPëP», CÍPíPScÍC,PµCĤC-PiP°PICÍCĬ
P°PSPiC-PsPSPµPICĤPsC,PëC±PSPëPNë PSP°P±CĤCĬPe PePëCëPµC±PSPëPeCr (PrPëPI.
CĤPsP·PrC-P» B«PµPsP±C-C±PSC- CĤPµP°PeC†C-C—B»). PíC- PíP°C†C-C”PSC,Pë
CÍPeP°CĤP¶PëP»PëCÍCĬ PSP° P±C-P»CH Cr P¶PëPIPsC,C- (C-P·
PSCíPrPsC,PScĤ/P±P»CĤPIP°PSPSCĬPj P°P±Ps P±PµP· PSPëC...).

PĥPrPSPsC±P°CÍPSPµ P·P°CÍC,PScÍCrPIP°PSPSCĬ C-PSPiC-P±C-C,PScĤC-PI PĥPµPα C-P·
CÍP°PeC¿P±C-C,CĤPëP»PsPj/PIP°P»CÍP°CĤC,P°PSPsPj PíCĤPsC,PëPíPsPeP°P·P°PSPµ
C±PµCĤPµP· PíC-PrPIPëC%oPµPSPëPNë CĤPëP·PëPe CĤPsP·PIPëC,PeCr
P°PSPiC-PsPSPµPICĤPsC,PëC±PSPsPiPs PSP°P±CĤCĬPeCr. P>C-PeCrPIP°PSPSCĬ
CÍP°PeC¿P±C-C,CĤPëP»PsPj/PIP°P»CÍP°CĤC,P°PSPsPj PSPµ CÍP»C-Pr PíPsC±PëPSP°C,Pë
CĤP°PSC-CëPµ PSC-P¶ C±PµCĤPµP· 36 PiPsPrPëPS PíC-CÍP»CĬ PíCĤPëPNëPsPjCr
PsCÍC,P°PSPSCHPsC— PrPsP·Pë C-PSPiC-P±C-C,PScĤP° PĥPµPα. P>C-PeCrPIP°PSPSCĬ
CĤP°PjC-PiCĤPëP»PsPj PSPµ CÍP»C-Pr PíPsC±PëPSP°C,Pë CĤP°PSC-CëPµ PSC-P¶ C±PµCĤPµP·
36 PiPsPrPëPS PíC-CÍP»CĬ PsCÍC,P°PSPSCHPsC— PrPsP·Pë
CÍP°PeC¿P±C-C,CĤPëP»C¿/PIP°P»CÍP°CĤC,P°PSC¿ (PrPëPI. CĤPsP·PrC-P»Pë
B«PµCĤPsC,PëPíPsPeP°P·P°PSPSCĬB» C,P° B«P’P·P°C”PjPsPrC-CĬ P· C-PSCëPëPjPë
P»C-PeP°CĤCÍCHPePëPjPë P·P°CÍPsP±P°PjPë C,P° C-PSCëC- PIPëPrPë PIP·P°C”PjPsPrC-PNëB»).

PĥPrPSPsC±P°CÍPSPµ P·P°CÍC,PScÍCrPIP°PSPSCĬ C-PSPiC-P±C-C,PScĤC-PI PĥPµPα C-P·
CĤP°C†PµPeP°PrPsC,CĤPëP»PsPj, C-PSPiC-P±C-C,PScĤP°PjPë mTOR (PSP°PíCĤPëPeP»P°Pr
CÍPëCĤPsP»C-PjCrCÍPsPj, PµPIPµCĤPsP»C-PjCrCÍPsPj, C,PµPjCÍPëCĤPsP»C-PjCrCÍPsPj) C,P°
PIC-P»PrP°PiP»C-PíC,PëPSPsPj PjPsP¶Pµ PíCĤPëP·PIPµCÍC,Pë PrPs PíC-PrPIPëC%oPµPSPsPiPs
CĤPëP·PëPeCr PSP°P±CĤCĬPeCr PµPIC-PSPePµ (PSP°PíCĤPëPeP»P°Pr PSP°P±CĤCĬPeCr
PrPëC...P°P»CHPSPëC... CëP»CĬC...C-PI P°P±Ps CĬP·PëPeP° P· PíPsCĤCrCëPµPSPSCĬPj
PrPëC...P°PSPSCĬ P°P±Ps P±PµP· PSCĤPsPiPs) (PrPëPI. CĤPsP·PrC-P» B«P’P·P°C”PjPsPrC-CĬ P·
C-PSCëPëPjPë P»C-PeP°CĤCÍCHPePëPjPë P·P°CÍPsP±P°PjPë C,P° C-PSCëC- PIPëPrPë
PIP·P°C”PjPsPrC-PNëB»). PŸP»C-Pr P±CrC,Pë PsP±PµCĤPµP¶PSPëPjPë PíCĤPë
P·P°CÍC,PScÍCrPIP°PSPSC- CĤP°C†PµPeP°PrPsC,CĤPëP»Cr, C-PSPiC-P±C-C,PScĤC-PI mTOR
(PSP°PíCĤPëPeP»P°Pr CÍPëCĤPsP»C-PjCrCÍCr, PµPIPµCĤPsP»C-PjCrCÍCr,
C,PµPjCÍPëCĤPsP»C-PjCrCÍCr) C,P° PIC-P»PrP°PiP»C-PíC,PëPSCí PíP°C†C-C”PSC,P°Pj, CĬPeC-
PIP¶Pµ PíCĤPëPNëPjP°CĤC,CH C-PSPiC-P±C-C,PScĤ PĥPµPα.

Pj PíP°C†C-C”PSC,C-PI, CĬPeC- PsPrPSPsC±P°CÍPSPs PíCĤPëPNëPjP°CĤC,CH
C-PSPiC-P±C-C,PScĤPë mTOR (PSP°PíCĤPëPeP»P°Pr CÍPëCĤPsP»C-PjCrCÍ,
PµPIPµCĤPsP»C-PjCrCÍ, C,PµPjCÍPëCĤPsP»C-PjCrCÍ), PjPsP¶Pµ P±CrC,Pë
PíC-PrPIPëC%oPµPSPëPNë CĤPëP·PëPe CĤPsP·PIPëC,PeCr P°PSPiC-PsPSPµPICĤPsC,PëC±PSPsPiPs
PSP°P±CĤCĬPeCr, PSP°PíCĤPëPeP»P°Pr, PSP°P±CĤCĬPe PrPëC...P°P»CHPSPëC...
CëP»CĬC...C-PI P°P±Ps CĬP·PëPeP° P· PíPsCĤCrCëPµPSPSCĬPj PrPëC...P°PSPSCĬ P°P±Ps
P±PµP· PSCĤPsPiPs (PrPëPI. CĤPsP·PrC-P» B«P’P·P°C”PjPsPrC-CĬ P· C-PSCëPëPjPë
P»C-PeP°CĤCÍCHPePëPjPë P·P°CÍPsP±P°PjPë C,P° C-PSCëC- PIPëPrPë PIP·P°C”PjPsPrC-PNëB»).

PĥPSP°C,,C-P»P°PeC,PëC±PSC- CĤPµP°PeC†C-C— PíC-Pr C±P°CÍ
PrPµCÍPµPSCÍPëP±C-P»C-P·P°C†C-C—

PµCĤPë P·P°CÍC,PScÍCrPIP°PSPSC- C-PSPiC-P±C-C,PScĤC-PI PĥPµPα
C-PjPsPIC-CĤPSC-CÍC,CH PIPëPSPëPePSPµPSPSCĬ C- C,CĬP¶PeC-CÍC,CH
P°PSP°C,,C-P»P°PeC,PëC±PSPëC... C- P°PSP°C,,C-P»P°PeC,PsC—PrPSPëC... CĤPµP°PeC†C-PNë
PSP° PsC,CĤCrC,Cr PePsPjP°C... C,P° C-PSCëC- P°P»PµCĤPiPµPSPë
P·P±C-P»CHCëCíC”C,CHCÍCĬ. PµPµCĤPµPr PíCĤPsPIPµPrPµPSPSCĬPj
PrPµCÍPµPSCÍPëP±C-P»C-P·P°C†C-C— CÍP»C-Pr C,PëPjC±P°CÍPsPIPs PíCĤPëPíPëPSPëC,Pë
PíCĤPëPNëPsPj CĤP°PjC-PiCĤPëP»Cr.

P“C-ΠPμCΠPeP°P»C-C”PjC-CΠ

PJ PrPμCΠPePëC... ΠP°C†C-C”PSC,C-ΠI, CΠPeC- PsC,CΠPëPjC†PIP°P»Pë C-PSPiC-P±C-C,PsCΠPë PηPμPα, PIPeP»CΠC†P°CΠC†Pë CΠP°PjC-ΠCΠPëP», C†ΠPsC†C,PμCΠC-ΠP°P»PsC†CΠ PIPëPSPëPePSPμPSPSCΠ ΠC-ΠPμCΠPeP°P»C-C”PjC-C—. P”Ps ΠCΠC†ΠPë CΠPëP·PëPeC† PIPëPSPëPePSPμPSPSCΠ ΠC-ΠPμCΠPeP°P»C-C”PjC-C— PSP°P»PμP¶P°C,CH ΠP°C†C-C”PSC,Pë C-P· PSPëCΠPePsPIPsCΠ PSPμPrPsC†C,P°C,PSC-C†C,CΠ, ΠP°C†C-C”PSC,Pë ΠC-ΠePsPj ΠC-Pr 70 CΠPsPeC-ΠI, ΠP°C†C-C”PSC,Pë P· PSPμPePsPSC,CΠPsP»CHPsPIP°PSPëPj C†C†PeCΠPsPIPëPj PrC-P°P±PμC,PsPj, ΠP°C†C-C”PSC,Pë, CΠPeC- ΠCΠPëPμPjP°CΠC,CH C†PsP»C- PeP°P»C-CΠ, PeP°P»C-ΠNëP·P±PμCΠC-ΠP°CΠC†C- PrC-C†CΠPμC,PëPePë, P° C,P°PePsP¶ C-PSC€C- P°PeC,PëPIPSC- CΠPμC†PsPIPëPSPë, C°°Ps ΠC-PrPIPëC°°C†CΠC,CH PIPjC-C†C, PeP°P»C-CΠ C† ΠP»P°P·PjC- PeCΠPsPIC- (PSP°ΠCΠPëPeP»P°Pr ΠPμΠP°CΠPëPS, PePs- C,CΠPëPjPsPeC†P°P·PsP», C,P°PePsP¶ ΠC-PrPsPjPëPμ CΠPe C,CΠPëPjPμC,PsΠCΠPëPj/C†C†P»CHC,,P°PjPμC,PsPeC†P°P·PsP»), P°P±Ps ΠP°C†C-C”PSC,Pë C-P· C,P°PePëPjPë C†C,P°PSP°PjPë, CΠPe PrPμΠC-PrCΠP°C,P°C†C-CΠ, ΠPsC†C,CΠP° C†PμCΠC†PμPIP° PrPμPePsPjΠPμPSC†P°C†C-CΠ, PjPμC,P°P±PsP»C-C†PSPëPμ P°C†PëPrPsP·. ΠPëC°°Ps C†C†PjC-C†PSPμ P·P°C†C,PsC†C†PIP°PSPSCΠ PIPëC°°PμP·P°P·PSP°C†PμPSPëC... P»C-PeP°CΠC†CHPePëC... P·P°C†PsP±C-ΠI PIPIP°P¶P°C,C,CHC†CΠ PrPsC†C-P»CHPSPëPj, C,Ps CΠPμPePsPjPμPSPPrC†C”C,CHC†CΠ CΠPμΠC†P»CΠCΠPSPs PePsPSC,CΠPsP»CHPIP°C,Pë CΠC-ΠPμPSCΠ PeP°P»C-CΠ C† ΠP»P°P·PjC- PeCΠPsPIC- (PrPëΠI. CΠPsP·PrC-P» B«P’P·P°C”PjPsPrC-CΠ P· C-PSC€PëPjPë P»C-PeP°CΠC†CHPePëPjPë P·P°C†PsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-ΠNëB»).

PμP°P»C-ΠNë C† C†PëCΠPsPIP°C,C†C- PeCΠPsPIC-

P†PSPiC-P±C-C,PsCΠPë PηPμPα PjPsP¶C†C,CH PIPëPeP»PëPeP°C,Pë ΠC-ΠPμCΠPeP°P»C-C”PjC-CΠ, PsC†PeC-P»CHPePë PIPsPSPë C-PSPiC-P±C†CΠC,CH PIPëΠC-P»CHPSPμPSPSCΠ P°P»CHPrPsC†C,PμCΠPsPSC†. P·C,,PμPeC, P·P°P·PIPëC†P°Pμ PSPμ C” P·PSP°C†PSPëPj C† ΠP°C†C-C”PSC,C-ΠI C-P· PSPsCΠPjP°P»CHPSPsCΠ C,,C†PSPeC†C-C”CΠ PSPëCΠPsPe. PηPrPSP°Pe C† ΠP°C†C-C”PSC,C-ΠI C-P· ΠPsCΠC†C€PμPSPSCΠPjPë C,,C†PSPeC†C-C— PSPëCΠPsPe C,P°/P°P±Ps C† ΠP°C†C-C”PSC,C-ΠI, CΠPeC- ΠCΠPëPμPjP°CΠC,CH PrPsP±P°PIPëPë PeP°P»C-CΠ (PIPeP»CΠC†P°CΠC†Pë P·P°PjC-PSPSPëPePë C†PsP»C-), PeP°P»C-ΠNëP·P±PμCΠC-ΠP°CΠC†C- PrC-C†CΠPμC,PëPePë, C,CΠPëPjPμC,PsΠCΠPëPj P°P±Ps PePs-C,CΠPëPjPsPeC†P°P·PsP», C,P°PePsP¶ ΠC-PrPsPjPëPμ CΠPe C,CΠPëPjPμC,PsΠCΠPëPj/C†C†P»CHC,,P°PjPμC,PsPeC†P°P·PsP», PsC†PsP±P»PëPIPs P°PSC,P°ΠPsPSC-C†C,Pë P°P»CHPrPsC†C,PμCΠPsPSC† P°P±Ps P±P»PsPeP°C,PsCΠPë P°PSPiC-PsC,PμPSP·PëPSPsPIPëC... CΠPμC†PμΠC,PsCΠC-ΠI, PjPsP¶Pμ PIPëPSPëPePSC†C,Pë ΠC-ΠPμCΠPeP°P»C-C”PjC-CΠ. PμP°C†C-C”PSC,P°Pj, CΠPeC- PsC,CΠPëPjC†CΠC,CH C-PSPiC-P±C-C,PsCΠPë PηPμPα, C†P»C-Pr P· PsP±PμCΠPμP¶PSC-C†C,CΠ P·P°C†C,PsC†PsPIC†PIP°C,Pë PeP°P»C-ΠNëP·P±PμCΠC-ΠP°CΠC†C- PrC-C†CΠPμC,PëPePë C,P° P±P»PsPeP°C,PsCΠPë CΠPμC†PμΠC,PsCΠC-ΠI P°PSPiC-PsC,PμPSP·PëPSC†, P° C,P°PePsP¶ PePsPSC,CΠPsP»CHPIP°C,Pë CΠC-ΠPμPSCΠ PeP°P»C-CΠ C† C†PëCΠPsPIP°C,C†C- PeCΠPsPIC- C,P° C,,C†PSPeC†C-CΠ PSPëCΠPsPe (PrPëΠI. CΠPsP·PrC-P» B«P’P·P°C”PjPsPrC-CΠ P· C-PSC€PëPjPë P»C-PeP°CΠC†CHPePëPjPë P·P°C†PsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-ΠNëB»).

P“C-ΠPsPSP°C,CΠC-C”PjC-CΠ

PJ PrPμCΠPePëC... ΠP°C†C-C”PSC,C-ΠI, CΠPeC- ΠCΠPëPμPjP°P»Pë CΠP°PjC-ΠCΠPëP», C†ΠPsC†C,PμCΠC-ΠP°PIC†CΠ C†PëPSPPrCΠPsPj ΠPsCΠC†C€PμPSPSCΠ C†PμPeCΠPμC†C-C— P°PSC,PëPrC-C†CΠPμC,PëC†PSPsΠPs ΠPsCΠPjPsPSC† P· ΠPsPrP°P»CHC€PëPj CΠPsP·PIPëC,PePsPj ΠC-ΠPsPSP°C,CΠC-C”PjC-C—. P PμPePsPjPμPSPPrC†C”C,CHC†CΠ

P°PµP·PīPµPeP° C,P° PµC,,PµPeC,PēPIPSC-ĆĆC,CH P·P°ĆĆC,PsĆĆĆrPIP°PSPSCŲ
P°PjP»PsPrPēPīC-PSCĆ PrP»Ų PeĆrPīC-CĤĆrPIP°PSPSCŲ PiC-PīPµCĤC,PsPSC-C±PSPsPiPs

PeCḡPēP·Cf PSPμ P±CfP»Pē PICfC,P°PSPsPIP»PμPSC-.

PμP°C†C-C''PSC,Pē P· CfPμCḡC†PμPIPsCḡ PSPμPrPsCfC,P°C,PSC-CfC,Cḡ

PμP°C†C-C''PSC,Pē P· CfPμCḡC†PμPIPsCḡ PSPμPrPsCfC,P°C,PSC-CfC,Cḡ
PīPsC,CḡPμP±CfCḡC,Cḡ PsCfPsP±P»PēPIPsPiPs PīC-PrC...PsPrCf. Pj
PrPsPIPiPsC,CḡPēPIP°P»PsPjCf PīP»P°C†PμP±Ps-PePsPSC,CḡPsP»CḡPsPIP°PSPsPjCf
PrPsCfP»C-PrP¶PμPSPSC- P·P° CfC†P°CfC,Cḡ PīP°C†C-C''PSC,C-PI C-P· C,CfP¶PePsCḡ
CfPμCḡC†PμPIPsCḡ PSPμPrPsCfC,P°C,PSC-CfC,Cḡ (PeP»P°Cf III C- IV P·P°
PeP»P°CfPēC,,C-PeP°C†C-C''Cḡ NYHA) C†P°CfC,PsC,P° PIPēPīP°PrPeC-PI PSP°P±CḡCfPeCf
P»PμPiPμPSC-PI P±CfP»P° PIPēC%PsCḡ PI PiCḡCfPiC-, C%Ps P»C-PeCfPIP°P»P°CfCf
P°PjP»PsPrPēPiC-PSPsPj, PSC-P¶ Cf PiCḡCfPiC- PīP»P°C†PμP±Ps (PrPēPI. CḡPsP·PrC-P»
B«PαP°CḡPjP°PePsPrPēPSP°PjC-PeP°B»). P'P»PsPeP°C,PsCḡPē PeP°P»CḡC†C-C''PIPēC...
PeP°PSP°P»C-PI, PIPeP»CḡC†P°CḡC†Pē P°PjP»PsPrPēPiC-PS, CfP»C-Pr
P·P°CfC,PsCfPsPICfPIP°C,Pē P· PsP±PμCḡPμP¶PSC-CfC,Cḡ PīP°C†C-C''PSC,P°Pj C-P·
P·P°CfC,C-PN°PSPsCḡ CfPμCḡC†PμPIPsCḡ PSPμPrPsCfC,P°C,PSC-CfC,Cḡ, PsCfPeC-P»CḡPePē
PIPsPSPē PjPsP¶CfC,Cḡ P·P±C-P»CḡC€PēC,Pē CḡPēP·PēPe PjP°PN°P±CfC,PSC-C...
CfPμCḡC†PμPIPs-CfCfPrPēPSPSPēC... PīPsPrC-PN° C,P° CfPjPμCḡC,C-.

*P—P°CfC,PsCfCžPIP°PSPSCf PīP°C†C-C''PSC,P°Pj C-P· PīPsCḡCžC€PμPSPSCfPj
C,,CžPSPeC†C-C— PīPμC†C-PSPePē*

Pj C...PIPsCḡPēC... C-P· PīPsCḡCfC€PμPSPSCfPj C,,CfPSPeC†C-C— PīPμC†C-PSPePē
PīPμCḡC-PsPr PSP°PiC-PIIPēPIPμPrPμPSPSCf P°PjP»PsPrPēPiC-PSCf
P·P±C-P»CḡC€CfC''C,CḡCfCf, PsPrPSP°Pe CḡPμPePsPjPμPSPPrP°C†C-PN° C%PsPrPs
PrPsP·CfPIP°PSPSCf P»C-PeP°CḡCfCḡPePsPiPs P·P°CfPsP±Cf PīPsPePē C%Ps PSPμPjP°C".
PŷPsPjCf P·P°CfC,PsCfCfPIP°PSPSCf P°PjP»PsPrPēPiC-PSCf CfP»C-Pr PīPsC†PēPSP°C,Pē P·
PSPēP¶PSCḡPsPiPs CḡC-PIPSCF PrC-P°PīP°P·PsPSCf PrPsP·CfPIP°PSPSCf C- CfP»C-Pr
PrPsC,CḡPēPjCfPIP°C,PēCfCf PsP±PμCḡPμP¶PSPsCfC,C- CfPe PīCḡPē PīPsC†P°C,PePsPIPsPjCf
P»C-PeCfPIP°PSPSC-, C,P°Pe C- PīCḡPē P·P±C-P»CḡC€PμPSPSC- PrPsP·Pē.
PμP°C†C-C''PSC,P°Pj C-P· C,CfP¶PePsCḡ PīPμC†C-PSPePsPIPsCḡ
PSPμPrPsCfC,P°C,PSC-CfC,Cḡ PjPsP¶Pμ P±CfC,Pē PīPsC,CḡC-P±PSPμ PīPsPIC-P»CḡPSPμ
C,PēC,CḡCfPIP°PSPSCf PrPsP·Pē C,P° CḡPμC,PμP»CḡPSPēPN° PePsPSC,CḡPsP»Cḡ.

P—P°CfC,PsCfCžPIP°PSPSCf PīP°C†C-C''PSC,P°Pj P»C-C,PSCHPsPiPs PIC-PeCž

P''P»Cf PīP°C†C-C''PSC,C-PI P»C-C,PSCHPsPiPs PIC-PeCf P·P±C-P»CḡC€PμPSPSCf PrPsP·Pē
CfP»C-Pr PīCḡPsPIPsPrPēC,Pē P· PsP±PμCḡPμP¶PSC-CfC,Cḡ.

PμP°C†C-C''PSC,Pē P· PSPēCḡPePsPIPsCḡ PSPμPrPsCfC,P°C,PSC-CfC,Cḡ

PiC-PN° PeP°C,PμPiPsCḡC-C— PīP°C†C-C''PSC,C-PI CfP»C-Pr P·P°CfC,PsCfPsPICfPIP°C,Pē
P·PIPēC†P°PN°PSC- PrPsP·Pē P»C-PeP°CḡCfCḡPePsPiPs P·P°CfPsP±Cf. P—PjC-PSPē
PePsPSC†PμPSC,CḡP°C†C-C— P°PjP»PsPrPēPiC-PSCf Cf PīP»P°P·PjC- PeCḡPsPIC- PSPμ
PePsCḡPμP»CḡCḡC,Cḡ P·C- CfC,CfPiPμPSPμPj PīPsCḡCfC€PμPSCḡ C,,CfPSPeC†C-C—
PSPēCḡPsPe. PḡPjP»PsPrPēPiC-PS PSPμ PIPēPrP°P»CfC''C,CḡCfCf C€P»CfC...PsPj
PrC-P°P»C-P·Cf.

PḡPjP»PsPrPēPiC-PS PSPμ PIPiP»PēPIP°C'' PSP° CḡPμP·CfP»CḡC,P°C,Pē
P»P°P±PsCḡP°C,PsCḡPSPēC... PrPsCfP»C-PrP¶PμPSCḡ.

$P'P^{\circ}P\parallel P \gg P\ddot{e}PIP^{\circ}C-PSC, PsC\tilde{H}PjP^{\circ}C \dagger C-C\downarrow \Pi C\tilde{H}Ps PrPsPiPsPjC-P\parallel PSC-C\tilde{H}P_{\mu}C \# PsPIP\ddot{e}PSP\ddot{e}$

$P\downarrow P_{\mu}PN_{\mathbb{N}} P \gg C-PeP^{\circ}C\tilde{H}C\dot{I}C\tilde{H}PeP\ddot{e}PN_{\mathbb{N}} P \cdot P^{\circ}C\dot{I}C-P \pm PjC-C\dot{I}C, P\ddot{e}C, CH PSP^{\circ}C, C\tilde{H}C-PN_{\mathbb{N}}, C, PsPjC\dot{r}$
 $P\ddot{I}P^{\circ}C \dagger C-C''PSC, P^{\circ}Pj, C\downarrow PeC- PrPsC, C\tilde{H}P\ddot{e}PjC\dot{r}C\tilde{H}C, CHC\dot{I}C\downarrow PrC-C''C, P\ddot{e} P \cdot$
 $PePsPSC, C\tilde{H}PsP \gg CHPsPIP^{\circ}PSP\ddot{e}Pj PIPjC-C\dot{I}C, PsPj PSP^{\circ}C, C\tilde{H}C-C\tilde{H}, C\dot{I}P \gg C-Pr P \pm C\dot{r}C, P\ddot{e}$
 $PsP \pm P_{\mu}C\tilde{H}P_{\mu}P\parallel PSP\ddot{e}PjP\ddot{e} PiC-Pr C \dagger P^{\circ}C\dot{I} PN_{\mathbb{N}}PsPiPs P \cdot P^{\circ}C\dot{I}C, PsC\dot{I}C\dot{r}PIP^{\circ}PSPSC\downarrow.$

$P-P^{\circ}C\dot{I}C, PsC\dot{I}C \acute{z}PIP^{\circ}PSPSC\downarrow C \acute{z} PiP_{\mu}C\tilde{H}C-PsPr PIP^{\circ}PiC-C, PSPsC\dot{I}C, C- P^{\circ}P \pm Ps$
 $PiPsPrC \acute{z}PIP^{\circ}PSPSC\downarrow PiC\tilde{H}C \acute{z}PrPrC\tilde{H}.$

$P'P^{\circ}PiC-C, PSC-C\dot{I}C, CH$

$P P^{\circ}PjC-PiC\tilde{H}P\ddot{e}P \gg$

$P_{\mu}C\tilde{H}PsC, P\ddot{e}PiPsPeP^{\circ}P \cdot P^{\circ}PSPs P \cdot P^{\circ}C\dot{I}C, PsC\dot{I}PsPIC\dot{r}PIP^{\circ}C, P\ddot{e} C\tilde{H}P^{\circ}PjC-PiC\tilde{H}P\ddot{e}P \gg$
 $PIP^{\circ}PiC-C, PSP\ddot{e}Pj P^{\circ}P \pm Ps P\parallel C-PSPeP^{\circ}Pj, C\downarrow PeC- PiP \gg P^{\circ}PSC\dot{r}C\tilde{H}C, CH P \cdot P^{\circ}PIP^{\circ}PiC-C, PSC-C, P\ddot{e}.$
 $P\ddot{I}PeC\%Ps PIP^{\circ}PiC-C, PSC-C\dot{I}C, CH PIC\dot{I}C, P^{\circ}PSPsPIP \gg P_{\mu}PSP^{\circ} PiC-Pr C \dagger P^{\circ}C\dot{I} C, P_{\mu}C\tilde{H}P^{\circ}PiC-C-,$
 $PiC\tilde{H}P\ddot{e}PN_{\mathbb{N}}PsPj C\tilde{H}P^{\circ}PjC-PiC\tilde{H}P\ddot{e}P \gg C\dot{r} C\dot{I}P \gg C-Pr PSP_{\mu}PiP^{\circ}PN_{\mathbb{N}}PSPs PiC\tilde{H}P\ddot{e}PiP\ddot{e}PSP\ddot{e}C, P\ddot{e} C-,$
 $C\downarrow PeC\%Ps PSP_{\mu}PsP \pm C...C-PrPSPs, B\tilde{H}'' P \cdot P^{\circ}PjC-PSP\ddot{e}C, P\ddot{e} C-PSC\epsilon P\ddot{e}Pj P \gg C-PeP^{\circ}C\tilde{H}C\dot{I}C\tilde{H}PeP\ddot{e}Pj$
 $P \cdot P^{\circ}C\dot{I}PsP \pm PsPj, PrPsP \cdot PIPsP \gg P_{\mu}PSP\ddot{e}Pj PrPs P \cdot P^{\circ}C\dot{I}C, PsC\dot{I}C\dot{r}PIP^{\circ}PSPSC\downarrow C\dot{r} PIP^{\circ}PiC-C, PSP\ddot{e}C...$
 $(PrP\ddot{e}PI. C\tilde{H}PsP \cdot PrC-P \gg B \ll P_{\mu}C\tilde{H}PsC, P\ddot{e}PiPsPeP^{\circ}P \cdot P^{\circ}PSPSC\downarrow B \gg C, P^{\circ}$
 $B \ll P\hbar C\dot{I}PsP \pm P \gg P\ddot{e}PIPsC\dot{I}C, C- P \cdot P^{\circ}C\dot{I}C, PsC\dot{I}C\dot{r}PIP^{\circ}PSPSC\downarrow B \gg).$

$P \cdot PiC-PrP_{\mu}PjC-PsP \gg PsPiC-C \dagger PSC- PrP^{\circ}PSC- C\%PsPrPs C\tilde{H}P\ddot{e}P \cdot P\ddot{e}PeC\dot{r}$
 $C, P_{\mu}C\tilde{H}P^{\circ}C, PsPiP_{\mu}PSPSPsC\dot{I}C, C- PiC-C\dot{I}P \gg C\downarrow P \cdot P^{\circ}C\dot{I}C, PsC\dot{I}C\dot{r}PIP^{\circ}PSPSC\downarrow$
 $C-PSPiC-P \pm C-C, PsC\tilde{H}C-PI P\hbar P_{\mu}P\alpha C\dot{r} I C, C\tilde{H}P\ddot{e}PjP_{\mu}C\dot{I}C, C\tilde{H}C- PIP^{\circ}PiC-C, PSPsC\dot{I}C, C- PSP_{\mu}$
 $P \pm C\dot{r}P \gg P\ddot{e} PiP_{\mu}C\tilde{H}P_{\mu}PePsPSP \gg P\ddot{e}PIP\ddot{e}PjP\ddot{e}; PsPrPSP^{\circ}Pe PSP_{\mu} PjPsP\parallel PSP^{\circ} PIP\ddot{e}PeP \gg C\tilde{H}C \dagger P\ddot{e}C, P\ddot{e}$
 $PSP_{\mu}P \cdot PSP^{\circ}C \dagger PSP_{\mu} PiC-PrPIP\ddot{e}C\%P_{\mu}PSPSC\downarrow C\tilde{H}P\ddot{e}P \cdot P\ddot{e}PeC\dot{r}. P\ddot{I}PeC\%Ps$
 $PiC\tilde{H}PsPrPsPIP\parallel P_{\mu}PSPSC\downarrow C, P_{\mu}C\tilde{H}P^{\circ}PiC-C- C-PSPiC-P \pm C-C, PsC\tilde{H}PsPj P\hbar P_{\mu}P\alpha$
 $PIPIP^{\circ}P\parallel P^{\circ}C, CHC\dot{I}C\downarrow PSP_{\mu}PsP \pm C...C-PrPSP\ddot{e}Pj, PiP^{\circ}C \dagger C-C''PSC, PeP^{\circ}Pj, C\downarrow PeC-$
 $PiP \gg P^{\circ}PSC\dot{r}C\tilde{H}C, CH PIP^{\circ}PiC-C, PSC-C\dot{I}C, CH, PSP_{\mu}PsP \pm C...C-PrPSPs PiP_{\mu}C\tilde{H}P_{\mu}PN_{\mathbb{N}}C, P\ddot{e} PSP^{\circ}$
 $P^{\circ}P \gg CHC, P_{\mu}C\tilde{H}PSP^{\circ}C, P\ddot{e}PIPSP\ddot{e}PN_{\mathbb{N}} P^{\circ}PSC, P\ddot{e}PiC-PiP_{\mu}C\tilde{H}C, P_{\mu}PSP \cdot P\ddot{e}PIPSP\ddot{e}PN_{\mathbb{N}}$
 $P \gg C-PeP^{\circ}C\tilde{H}C\dot{I}C\tilde{H}PeP\ddot{e}PN_{\mathbb{N}} P \cdot P^{\circ}C\dot{I}C-P \pm, C\downarrow PeP\ddot{e}PN_{\mathbb{N}} PjP^{\circ}C'' PIC\dot{I}C, P^{\circ}PSPsPIP \gg P_{\mu}PSP\ddot{e}PN_{\mathbb{N}}$
 $PiC\tilde{H}PsC, C-P \gg CH P \pm P_{\mu}P \cdot PiP_{\mu}PeP\ddot{e} PrP \gg C\downarrow P \cdot P^{\circ}C\dot{I}C, PsC\dot{I}C\dot{r}PIP^{\circ}PSPSC\downarrow C\dot{r} PiP_{\mu}C\tilde{H}C-PsPr$
 $PIP^{\circ}PiC-C, PSPsC\dot{I}C, C-.$

$P'C-PrPsPjPs, C\%Ps P \cdot P^{\circ}C\dot{I}C, PsC\dot{I}C\dot{r}PIP^{\circ}PSPSC\downarrow C-PSPiC-P \pm C-C, PsC\tilde{H}C-PI P\hbar P_{\mu}P\alpha C\dot{r} II C- III$
 $C, C\tilde{H}P\ddot{e}PjP_{\mu}C\dot{I}C, C\tilde{H}P^{\circ}C... PIP^{\circ}PiC-C, PSPsC\dot{I}C, C- C\dot{I}PiC\tilde{H}P\ddot{e}C \dagger P\ddot{e}PSC\downarrow C'' C\dot{r} P \gg C\tilde{H}PrP\ddot{e}PSP\ddot{e}$
 $C, P_{\mu}C, PsC, PsPeC\dot{I}P\ddot{e}C \dagger PSC-C\dot{I}C, CH (P \cdot PSP\ddot{e}P\parallel P_{\mu}PSPSC\downarrow C, C\dot{r}PSPeC \dagger C-C- PSP\ddot{e}C\tilde{H}PsPe,$
 $PsP \gg C-PiPsPiC-PrC\tilde{H}P^{\circ}PjPSC-PsPS, P \cdot P^{\circ}C, C\tilde{H}P\ddot{e}PjPeP^{\circ} PsC\dot{I}P\ddot{e}C, C-PeP^{\circ}C \dagger C-C- C \dagger P_{\mu}C\tilde{H}P_{\mu}PiP^{\circ})$
 $C- PSP_{\mu}PsPSP^{\circ}C, P^{\circ}P \gg CHPSC\dot{r} C, PsPeC\dot{I}P\ddot{e}C \dagger PSC-C\dot{I}C, CH (PSP\ddot{e}C\tilde{H}PePsPIP^{\circ}$
 $PSP_{\mu}PrPsC\dot{I}C, P^{\circ}C, PSC-C\dot{I}C, CH, P^{\circ}C\tilde{H}C, P_{\mu}C\tilde{H}C-P^{\circ}P \gg CHPSP^{\circ} PiC-PiPsC, P_{\mu}PSP \cdot C-C\downarrow,$
 $PiC-PiP_{\mu}C\tilde{H}PeP^{\circ}P \gg C-C''PjC-C\downarrow). P\ddot{I}PeC\%Ps C-PSPiC-P \pm C-C, PsC\tilde{H} P\hbar P_{\mu}P\alpha$
 $P \cdot P^{\circ}C\dot{I}C, PsC\dot{I}PsPIC\dot{r}C\tilde{H}C, CH C\dot{r} P \dagger P \dagger C, C\tilde{H}P\ddot{e}PjP_{\mu}C\dot{I}C, C\tilde{H}C- PIP^{\circ}PiC-C, PSPsC\dot{I}C, C-,$
 $C\tilde{H}P_{\mu}PePsPjP_{\mu}PSP\dot{r}C\dot{r}C''C, CHC\dot{I}C\downarrow C\dot{r}P \gg CHC, C\tilde{H}P^{\circ}P \cdot PIC\dot{r}PePsPIP_{\mu} PrPsC\dot{I}P \gg C-PrP\parallel P_{\mu}PSPSC\downarrow$
 $C, C\dot{r}PSPeC \dagger C-C- PSP\ddot{e}C\tilde{H}PsPe C- C \dagger P_{\mu}C\tilde{H}P_{\mu}PiP^{\circ} PiP \gg PsPrP^{\circ}. P\hbar PsPIPsPSP^{\circ}C\tilde{H}PsPrP\parallel P_{\mu}PSP\ddot{e}C...,$
 $PjP^{\circ}C, P_{\mu}C\tilde{H}C- C\downarrow PeP\ddot{e}C... PiC\tilde{H}P\ddot{e}PN_{\mathbb{N}}PjP^{\circ}P \gg P\ddot{e} C-PSPiC-P \pm C-C, PsC\tilde{H}P\ddot{e} P\hbar P_{\mu}P\alpha, C\dot{I}P \gg C-Pr$
 $C\tilde{H}P_{\mu}C, P_{\mu}P \gg CHPSPs PsP \pm C\dot{I}C, P_{\mu}P\parallel C\dot{r}PIP^{\circ}C, P\ddot{e} PSP^{\circ} PSP^{\circ}C\downarrow IPSC-C\dot{I}C, CH$
 $P^{\circ}C\tilde{H}C, P_{\mu}C\tilde{H}C-P^{\circ}P \gg CHPSPsC- PiC-PiPsC, P_{\mu}PSP \cdot C-C-, PsP \gg C-PiC\dot{r}C\tilde{H}C-C- C, P^{\circ}$
 $PiC-PiP_{\mu}C\tilde{H}PeP^{\circ}P \gg C-C''PjC-C-.$

PhPjP»PsPrPëPiC-PS

P'PµP·PiPµPeP° P·P°CÍ'C,PsCÍ'CrPIP°PSPSCÍ P°PjP»PsPrPëPiC-PSCr PiC-Pr C±P°CÍ' PIP°PiC-C,PSPsCÍ'C,C- PrP»CÍ P»CñPrPëPSPë PSPµ PICÍ'C,P°PSPsPIP»PµPSP°.

PJ PrPsCÍ'P»C-PrP¶PµPSPSCÍC... PSP° C,PIP°CñPëPSP°C... CñPµPiCñPsPrCrPeC,PëPIPSP° C,PsPeCÍ'PëC±PSC-CÍ'C,CH CÍ'PiPsCÍ'C,PµCñC-PiP°P»P°CÍ'CH PiCñPë P·P°CÍ'C,PsCÍ'CrPIP°PSPSC- Cr PIPëCÍ'PsPePëC... PrPsP·P°C....

P—PIP°P¶P°CñC±Pë PSP° PIPëC%PµPSP°PIPµPrPµPSCr C-PSC,,PsCñPjP°C†C-Cñ, PiCñPsC,PëPiPsPeP°P·P°PSPs P·P°CÍ'C,PsCÍ'PsPICrPIP°C,Pë C†PµPNë P»C-PeP°CñCÍ'CHPePëPNë P·P°CÍ'C-P± PiC-Pr C±P°CÍ' PIP°PiC-C,PSPsCÍ'C,C- (PrPëPI. CñPsP·PrC-P» B«PµCñPsC,PëPiPsPeP°P·P°PSPSCÍB»).

P“PsPrCáPIP°PSPSCÍ PiCñCáPrPrCñ

P P°PjC-PiCñPëP»

PhCÍ'PeC-P»CHPePë PSPµPjP°C” PrPsCÍ'C,P°C,PSCHPsC— C-PSC,,PsCñPjP°C†C-C— C%PsPrPs P·P°CÍ'C,PsCÍ'CrPIP°PSPSCÍ CñP°PjC-PiCñPëP»Cr Cr PiPµCñC-PsPr PiPsPrCrPIP°PSPSCÍ PiCñCrPrPrCñ, PNëPsPiPs PSPµ CñPµPePsPjPµPSPPrCrCñC,CH P·P°CÍ'C,PsCÍ'PsPICrPIP°C,Pë C- PSP°PrP°CñC,CH PiPµCñPµPIP°PiCr P°P»CHC,PµCñPSP°C,PëPIPSPëPj P·P°CÍ'PsP±P°Pj P»C-PeCÍ'PIP°PSPSCÍ, PsCÍ'PsP±P»PëPIPs Cr CñP°P·C-, PePsP»Pë PiPsPrCrCñC,CH PiCñCrPrPrCñ PSPsPIPsPSP°CñPsPrP¶PµPSPsPiPs P°P±Ps PiPµCñPµPrC±P°CÍ'PSPs PSP°CñPsPrP¶PµPSPsPiPs PjP°P»CñPeP°.

PhPjP»PsPrPëPiC-PS

PhPjP»PsPrPëPiC-PS PiCñPsPSPëPeP°C” Cr PiCñCrPrPSPµ PjPsP»PsPePs. P§P°CÍ'C,PeP° PjP°C,PµCñPëPSCÍ'CHPePsC— PrPsP·Pë, CÍPeCr PsC,CñPëPjCrC” PSPµPjPsPIP»CÍ, PsC†C-PSCñPIP°P»Pë Cr PrC-P°PiP°P·PsPSC- 3Бñ”7 %, PjP°PeCÍ'PëPjP°P»CHPSPs 15 %. P·C,,PµPeC, P°PjP»PsPrPëPiC-PSCr PSP° PSPµPjPsPIP»CÍ PSPµPIC-PrPsPjPëPNë.

P C-C€PµPSPSCÍ PiCñPs PiCñPsPrPsPIP¶PµPSPSCÍ/PiCñPëPiPëPSPµPSPSCÍ PiPsPrCrPIP°PSPSCÍ PiCñCrPrPrCñ P°P±Ps PiCñPsPrPsPIP¶PµPSPSCÍ/PiCñPëPiPëPSPµPSPSCÍ C,PµCñP°PiC-C— P°PjP»PsPrPëPiC-PSPsPj PiPsPIPëPSPSPs P±CÍ'C,Pë PiCñPëPNëPSCÍ'C,Ps P· CrCñP°C...CÍ'PIP°PSPSCÍPj PePsCñPëCÍ'C,C- PIC-Pr PiCñCrPrPSPsPiPs PIPëPiPsPrPsPICrPIP°PSPSCÍ PrP»CÍ PrPëC,PëPSPë C,P° PePsCñPëCÍ'C,C- P·P°CÍ'C,PsCÍ'CrPIP°PSPSCÍ P°PjP»PsPrPëPiC-PSCr PrP»CÍ PjP°C,PµCñC-.

P—PIP°P¶P°CñC±Pë PSP° PIPëC%PµPSP°PIPµPrPµPSCá C-PSC,,PsCñPjP°C†C-Cñ, C†PµPNë P»C-PeP°CñCÍ'CHPePëPNë P·P°CÍ'C-P± PSPµ CñPµPePsPjPµPSPPrCáC”C,CHCÍ'CÍ P·P°CÍ'C,PsCÍ'PsPICáPIP°C,Pë PiC-Pr C±P°CÍ' PiPsPrCáPIP°PSPSCÍ PiCñCáPrPrCñ. P C-C€PµPSPSCÍ C%PsPrPs PiCñPsPrPsPIP¶PµPSPSCÍ/PiCñPëPiPëPSPµPSPSCÍ PiCñCáPrPSPsPiPs PIPëPiPsPrPsPICáPIP°PSPSCÍ P°P±Ps PiCñPsPrPsPIP¶PµPSPSCÍ/PiCñPëPiPëPSPµPSPSCÍ C,PµCñP°PiC-C— PiPsC,CñC-P±PSPs PiCñPëPNëPjP°C,Pë P· CáCñP°C...CáPIP°PSPSCÍPj PiPµCñPµPIP°Pi PiCñCáPrPSPsPiPs PIPëPiPsPrPsPICáPIP°PSPSCÍ PrP»CÍ PrPëC,PëPSPë C,P° PiPµCñPµPIP°Pi C,PµCñP°PiC-C— P°PjP»PsPrPëPiC-PSPsPj PrP»CÍ PjP°C,PµCñC-.

PαPµCñC,PëP»CHPSC-CÍ'C,CH. P'CrP»Pë PiPsPIC-PrPsPjP»PµPSPSCÍ PiCñPs PsP±PsCñPsC,PSC- P±C-PsC...C-PjC-C±PSC- P·PjC-PSPë PI PiPsP»C-PIPeP°C... CÍ'PiPµCñPjP°C,PsP·PsC—PrC-PI Cr PrPµCÍPePëC... PiP°C†C-C”PSC,C-PI, CÍPeC-

$$\text{P}\alpha\text{C}-\text{PeCl}'\text{PsPIP}^{\circ}\text{PSP}^{\circ}\text{PePsPiP}\pm\text{C}-\text{PSP}^{\circ}\text{C}^{\dagger}\text{C}-\text{Cl}\text{PSP}_{\mu}\text{PiC}-\text{PrC}\dots\text{PsPrP}\ddot{\text{e}}\text{C},\text{CH}\text{PrP}\gg\text{Cl}$$

ВГ "СІПЕС%Ps PEП»C-CHPμPSCГ PECHPμP°C,PEPSC-PSCГ ГГC,P°PSPsPIPëC,CH 30BГ"60

PjP»/C...PI, PSPµPsP±C...C-PrPSPsCfC,C- Cr PePsCḡPµPeC†C-C— PīPsC†P°C,PePsPIPsC—
PrPsP·Pë (2,5 PjPi PSP° PrPsP±Cf) PSPµPjP°C”, P° PjP°PeCfPëPjP°P»CHbPSP° PrPsP±PsPIP°
PrPsP·P° CfC,P°PSPsPIpëC,CH 5 PjPi;

БҖ“ CЦPeC%Ps PeP»C-CḡPµPSCf PeCḡPµP°C,PëPSC-PSCf CfC,P°PSPsPIpëC,CH 10БҖ“30
PjP»/C...PI, PīPsC†P°C,PePsPIP° PrPsP±PsPIP° PrPsP·P° CfC,P°PSPsPIpëC,CH 1,25 PjPi PSP°
PrPsP±Cf, P° PjP°PeCfPëPjP°P»CHbPSP° PrPsP±PsPIP° PrPsP·P° БҖ“ 5 PjPi;

БҖ“ PrP»CЦ PīP°C†C-C”PSC,C-PI P· P°CḡC,PµCḡC-P°P»CHbPSPsCḡ PiC-PīPµCḡC,PµPSP·C-C”Cḡ,
CЦPeC- PīPµCḡPµP±CfPIP°CḡC,CH PSP° PīPµPjPsPrC-P°P»C-P·C-;

В· PīCḡPë PīPµPjPsPrC-P°P»C-P·C- CḡP°PjC-PīCḡPëP» PIPëPIPsPrPëC,CHCfCЦ
PSPµP·PSP°C†PSPsCḡ PjC-CḡPsCḡ;

В· PīPsC†P°C,PePsPIP° PrPsP·P° CfC,P°PSPsPIpëC,CH 1,25 PjPi, P° PjP°PeCfPëPjP°P»CHbPSP°
PrPsP±PsPIP° PrPsP·P° БҖ“ 5 PjPi;

В· P»C-PeP°CḡCfCḡPePëPµ P·P°CfC-P± CfP»C-Pr PīCḡPëPµPjP°C,Pë C†PµCḡPµP·
PrPµPeC-P»CHbPeP° PīPsPrPëPS PīC-CfP»CЦ PīCḡPsPIPµPrPµPSPSCЦ CfPµP°PSCfCf
PīPµPjPsPrC-P°P»C-P·Cf.

PµP°C†C-C”PSC,P°Pj C-P· PSPëCḡPePsPIPsCḡ PSPµPrPsCfC,P°C,PSC-CfC,Cḡ
PePsCḡPµPeC†C-CЦ PrPsP·Pë P°PjP»PsPrPëPīC-PSCf PSPµ PīPsC,CḡC-P±PSP°.

PḡPjP»PsPrPëPīC-PS PSPµ PīC-PrPrP°C”C,CHCfCЦ PrC-P°P»C-P·Cf. PḡPjP»PsPrPëPīC-PS
CfP»C-Pr P· PsCfPsP±P»PëPIPsCḡ PsP±PµCḡPµP¶PSC-CfC,Cḡ PīCḡPëP·PSP°C†P°C,Pë
PīP°C†C-C”PSC,P°Pj, CЦPeC- PīPµCḡPµP±CfPIP°CḡC,CH PSP° PrC-P°P»C-P·C-.

PµC-Pr C†P°Cf P»C-PeCfPIP°PSPSCЦ P»C-PeP°CḡCfCḡPePëPj P·P°CfPsP±PsPj CfP»C-Pr
PePsPSC,CḡPsP»CḡPIP°C,Pë C,,CfPSPeC†C-Cḡ PSPëCḡPsPe C,P° CḡC-PIPµPSCḡ PeP°P»C-Cḡ PI
CfPëCḡPsPIP°C,C†C- PeCḡPsPIC-. PJ CḡP°P·C- PīPsPIC-CḡC€PµPSPSCЦ C,,CfPSPeC†C-C—
PSPëCḡPsPe P·P°CfC,PsCfCfPIP°PSPSCЦ P»C-PeP°CḡCfCḡPePsPiPs P·P°CfPsP±Cf CfP»C-Pr
PīCḡPëPīPëPSPëC,Pë, P° PrPsP·Pë PµPsPiPs PePsPjPīPsPSPµPSC,C-PI PSPµPsP±C...C-PrPSPs
P°PrPµPePIP°C,PSPs PIC-PrPePsCḡPëPīCfPIP°C,Pë.

PµP°C†C-C”PSC,Pë P»C-C,PSCHbPsPiPs PIC-PeCž

PµPsC†P°C,PePsPIC- PrPsP·Pë CḡP°PjC-PīCḡPëP»Cf PīPsPIpëPSPSC- P±CfC,Pë CЦPePsPjPsPiP°
PSPëP¶C†PëPjPë; PīPsPrP°P»CHbC€Pµ C,PëC,CḡCfPIP°PSPSCЦ PrPsP·Pë PīPsPIpëPSPSPs
P·PrC-PµCfPSCḡPIP°C,PëCfCЦ P±C-P»CHbC€ PīPsCfC,CfPīPsPIPs C†PµCḡPµP·
C-PjPsPIC-CḡPSC-CfC,CH CḡPsP·PIPëC,PeCf PīPsP±C-C†PSPëC... CḡPµP°PeC†C-Pµ.
P—P°CfC,PsCfCfPIP°PSPSCЦ P»C-PeP°CḡCfCḡPePsPiPs P·P°CfPsP±Cf PSPµ
CḡPµPePsPjPµPSPrCfC”C,CHCfCЦ PīP°C†C-C”PSC,P°Pj PIC-PePsPj PIC-Pr 75 CḡPsPeC-PI
P°P±Ps PrCfP¶Pµ PsCfP»P°P±P»PµPSPëPj PīP°C†C-C”PSC,P°Pj.

PµP°C†C-C”PSC,P°Pj P»C-C,PSCHbPsPiPs PIC-PeCf PjPsP¶PSP° PīCḡPëP·PSP°C†P°C,Pë
P·PIPëC†P°PµPSC- PrPsP·Pë P°PjP»PsPrPëPīC-PSCf, PsPrPSP°Pe PīCḡPë
PīC-PrPIPëC%PµPSPSC- PrPsP·Pë CfP»C-Pr PrPsC,CḡPëPjCfPIP°C,PëCfCḡ
PsP±PµCḡPµP¶PSPsCfC,C-.

P”C-C,Pë

P>C-PeP°CḡCḡCHPePēPNḡ P·P°CḡC-P± PSPμ CḡPμPePsPjPμPSPPrCḡCḡC,CHCḡCḡC
P·P°CḡC,PsCḡPsPICḡPIP°C,Pē PrC-C,CḡPj C±PμCḡPμP· PIC-PrCḡCḡC,PSC-CḡC,CH PrP°PSPēC...
PīCḡPs P±PμP·PīPμPeCḡ C,P° PμC,,PμPeC,PēPIPSC-CḡC,CH PNḡPsPiPs
P·P°CḡC,PsCḡCḡPIP°PSPSCḡ CḡC-PNḡ PIC-PePsPIC-PNḡ PeP°C,PμPiPsCḡC-C—
PīP°CḡC-CḡPSC,C-PI.

PμPμCḡPμPrPsP·CḡPIP°PSPSCḡ

P P°PjC-PīCḡPēP»

PŸPēPjPiC,PsPjPē, CḡPīCḡPēC±PēPSPμPSC- PīPμCḡPμPrPsP·CḡPIP°PSPSCḡPj
C-PSPiC-P±C-C,PsCḡC-PI PḡPμPḡ, PjPsPḡCḡC,CH PIPeP»CḡC±P°C,Pē PSP°PrPjC-CḡPSCḡ
PīPμCḡPēC,,PμCḡPēC±PSCḡ PIP°P·PsPrPēP»P°C,P°CḡC-Cḡ (P· PIPēCḡP°PḡPμPSPsCḡ
P°CḡC,PμCḡC-P°P»CHPSPsCḡ PiC-PīPsC,PμPSP·C-CḡCḡ, CēPsPePsPj),
P±CḡP°PrPēPeP°CḡPrC-Cḡ, PμP»PμPeC,CḡPsP»C-C,PSPēPNḡ PrPēCḡP±P°P»P°PSCḡ,
PSPēCḡPePsPICḡ PSPμPrPsCḡC,P°C,PSC-CḡC,CH. PŸC,P°PS PīP°CḡC-CḡPSC,P° CḡP»C-Pr
CḡPμC,PμP»CHPSPs PePsPSC,CḡPsP»CḡPIP°C,Pē. PḡCḡPēP·PSP°C±P°CḡC,CHCḡCḡC
CḡPēPjPiC,PsPjP°C,PēC±PSPμ C,P° PīC-PrC,CḡPēPjCḡPIP°P»CHPSPμ P»C-PeCḡPIP°PSPSCḡ.
P—P°PīCḡPsPīPsPSPsPIP°PSC- P·P°C...PsPrPē PIPeP»CḡC±P°CḡC,CH PīPμCḡPIPēPSPSCḡ
PrPμC,PsPeCḡPēPeP°CḡC-Cḡ (PīCḡPsPjPēPIP°PSPSCḡ CēP»CḡPSPeP°, PīCḡPēP·PSP°C±PμPSPSCḡ
CḡPsCḡP±PμPSC,C-PI) C,P° P·P°CḡPsP±Pē PrP»Cḡ PIC-PrPSPsPIP»PμPSPSCḡ
PiPμPjPsPrPēPSP°PjC-C±PSPsC— CḡC,P°P±C-P»CHPSPsCḡC,C-, PIPeP»CḡC±P°CḡC±Pē
PīCḡPēP·PSP°C±PμPSPSCḡ P°PiPsPSC-CḡC,C-PI α-1-P°PrCḡPμPSPμCḡPiC-C±PSPēC...
CḡPμCḡPμPiC,PsCḡC-PI P°P±Ps P°PSPiC-PsC,PμPSP·PēPSCḡ PḡPḡ
(P°PSPiC-PsC,PμPSP·PēPSP°PjC-PrCḡ).

P P°PjC-PīCḡPēP»P°C,, P°PeC,PēPIPSPēPNḡ PjPμC,P°P±PsP»C-C, CḡP°PjC-PīCḡPēP»Cḡ,
PīPsPiP°PSPs PIPēPIPsPrPēC,CHCḡCḡC C-P· P·P°PiP°P»CHPSPsPiPs PeCḡPsPIPsPsP±C-PiCḡ
CēP»CḡC...PsPj PiPμPjPsPrC-P°P»C-P·Cḡ.

PḡPjP»PsPrPēPiC-PS

PḡP°PSC- PīCḡPs PIPēPīP°PrPePē PSP°PIPjPēCḡPSPsPiPs PīPμCḡPμPrPsP·CḡPIP°PSPSCḡ
P»CḡPrPēPSPē PsP±PjPμPḡPμPSC-.

PŸPēPjPiC,PsPjPē. PḡP° PsCḡPSPsPIC- PSP°CḡPIPSPēC... PrP°PSPēC...
PīCḡPēPīCḡCḡPeP°CḡC,CH, C%Ps CḡPēP»CHPSPμ PīPμCḡPμPrPsP·CḡPIP°PSPSCḡ PjPsPḡPμ
PīCḡPēP·PIPμCḡC,Pē PrPs PSP°PrPjC-CḡPSPsC— PīPμCḡPēC,,PμCḡPēC±PSPsC—
PIP°P·PsPrPēP»P°C,P°CḡC-C— C-, PjPsPḡP»PēPIPs, PrPs CḡPμC,,P»PμPeC,PsCḡPSPsC—
C,P°C...C-PeP°CḡPrC-C—, PIPēCḡP°PḡPμPSPsC— C- C,CḡPēPIP°P»PsC— CḡPēCḡC,PμPjPSPsC—
P°CḡC,PμCḡC-P°P»CHPSPsC— PiC-PīPsC,PμPSP·C-C—, PIPeP»CḡC±P°CḡC±Pē
PeP°CḡPrC-PsPiPμPSPSPēPNḡ CēPsPe P· P»PμC,P°P»CHPSPēPj PSP°CḡP»C-PrPePsPj.

P C-PrPePs PīPsPIC-PrPsPjP»CḡP»PsCḡCḡ PīCḡPs CḡPsP·PIPēC,PsPe
PSPμPeP°CḡPrC-PsPiPμPSPSPsPiPs PSP°P±CḡCḡPeCḡ P»PμPiPμPSC-PI CḡPe PSP°CḡP»C-PrPsPe
PīPμCḡPμPrPsP·CḡPIP°PSPSCḡ P°PjP»PsPrPēPīC-PSCḡ, CḡPePēPNḡ PjPsPḡPμ
PīCḡPsCḡPIP»CḡC,PēCḡCḡ P· PIC-PrCḡC,CḡPsC±PμPSPēPj PīPsC±P°C,PePsPj (C±PμCḡPμP· 24-48
PiPsPrPēPS PīC-CḡP»Cḡ PīCḡPēPNḡPsPjCḡ) C- PīPsC,CḡPμP±CḡPIP°C,Pē CēC,CḡC±PSPsC—
PIPμPSC,PēP»CḡCḡC-C— P»PμPiPμPSCḡ. PḡP°PeC,PsCḡP°PjPē, C%Ps CḡPīCḡPēCḡCḡC,CH
CḡPsP·PIPēC,PeCḡ PSPμPeP°CḡPrC-PsPiPμPSPSPsPiPs PSP°P±CḡCḡPeCḡ P»PμPiPμPSCḡ,

PjPsP¶CfC,CH P±CfC,Pë C¶P°PSPSC- C¶PµP°PSC-PjP°C†C-PNëPSC- P·P°C...PsPrPë
(PIPeP»CHC‡P°CHC‡Pë PiPµC¶PµPIP°PSC,P°P¶PµPSPSC¶ C¶C-PrPëPSPsCH) PrP»C¶
PiC-PrC,C¶PëPjPePë PiPµC¶C,,CfP·C-C— C,P° C¶PµC¶C†PµPIPsPiPs PIPëPePëPrCf.

P>C-PeC¿PIP°PSPSC¶. PµP»C-PSC-C‡PSPs P·PSP°C‡CfC%P° P°C¶C,PµC¶C-P°P»CHPSP°
PiC-PiPsC,PµPSP·C-C¶ PIPSP°C¶P»C-PrPsPe PiPµC¶PµPrPsP·CfPIP°PSPSC¶
P°PjP»PsPrPëPiC-PSCf PiPsC,C¶PµP±CfC” P°PeC,PëPIPSPëC... P·P°C...PsPrC-PI
P»C-PeCfPIP°PSPSC¶, PIPeP»CHC‡P°CHC‡Pë C‡P°C¶C,PëPNë PePsPSC,C¶PsP»CH
PiPsPeP°P·PSPëPeC-PI C¶PµC¶C†PµPIPsC— C,P° PrPëC...P°P»CHPSPsC— C,,CfPSPeC†C-C—,
PiPsC¶PëP·PsPSC,P°P»CHPSPµ PiPsP»PsP¶PµPSPSC¶ PiP°C†C-C”PSC,P° P·
PiC¶PëPiC-PrPSC¶C,PëPjPë PSPëP¶PSC-PjPë PeC-PSC†C-PIPeP°PjPë, PePsPSC,C¶PsP»CH P·P°
PsP±b¶™C”PjPsPj PeC¶PsPIC-, C%Ps C†PëC¶PeCfP»CHC”, C,P° PrC-CfC¶PµP·PsPj. P”P»C¶
PIC-PrPSPsPIP»PµPSPSC¶ C,PsPSCfCfCf CfCfPrPëPS C,P° C¶C-PIPSC¶
P°C¶C,PµC¶C-P°P»CHPSPsPiPs C,PëC¶PeCf PjPsP¶Pµ PIPëC¶PIPëC,PëC¶C¶ PePsC¶PëC¶PSPëPj
P·P°C¶C,PsCfCfPIP°PSPSC¶ CfCfPrPëPSPsP·PICfP¶CfPIP°P»CHPSPsPiPs
P»C-PeP°C¶CfCHPePsPiPs P·P°C¶PsP±Cf, C¶PeC%Ps PSPµPjP°C”
PiC¶PsC,PëPiPsPeP°P·P°PSCH PrP»C¶ PNëPsPiPs PiC¶PëP·PSP°C‡PµPSPSC¶. P— PjPµC,PsCH
CfCfCfPSPµPSPSC¶ PSP°C¶P»C-PrPeC-PI P±P»PsPeP°PrPë PeP°P»CHC†C-C”PIPëC...
PeP°PSP°P»C-PI PjPsP¶Pµ PIPëC¶PIPëC,PëC¶C¶ PµC,,PµPeC,PëPIPSPëPj
PIPSCfC,C¶C-CëPSCHsPIPµPSPSPµ PIPiPµPrPµPSPSC¶ PiP»CHPePsPSP°C,Cf
PeP°P»CHC†C-CH.

Pj PrPµC¶PePëC... PIPëPiP°PrPeP°C... PjPsP¶Pµ PIPëC¶PIPëC,PëC¶C¶ PµC,,PµPeC,PëPIPSPëPj
PiC¶PsPjPëPIP°PSPSC¶ CëP»CfPSPeP°. Pj P·PrPsC¶PsPIPëC... PrPsP±C¶PsPIPsP»CHC†C-PI
P·P°C¶C,PsCfCfPIP°PSPSC¶ P°PeC,PëPIPsPIP°PSPsPiPs PICfPiC-P»P»C¶ C‡PµC¶PµP· 2
PiPsPrPëPSPë PiC-C¶P»C¶ PiC¶PëPNëPsPjCf 10 PjPi P°PjP»PsPrPëPiC-PSCf P·PSPëP¶CfPIP°P»Ps
CëPIPëPrPeC-CfC,CH P°P±CfPsC¶P±C†C-C— P°PjP»PsPrPëPiC-PSCf.

P¶C¶PeC-P»CHPePë P°PjP»PsPrPëPiC-PS P·PSP°C‡PSPsCH PjC-C¶PsCH
P·PiB¶™C¶P·CfC”C,CHC¶C¶ P· P±C-P»PeP°PjPë PeC¶PsPIC-,
PµC,,PµPeC,PëPIPSC-CfC,CH PrC-P°P»C-P·Cf PjP°P»PsPNëPjPsPIC-C¶PSP°.

PµPsP±C-C‡PSC- C¶PµP°PeC†C-C—

PµPsP±C-C‡PSC- C¶PµP°PeC†C-C—, C¶PeC- C¶PiPsCfC,PµC¶C-PiP°P»PëC¶C¶ PiC-Pr C‡P°C¶
P·P°C¶C,PsCfCfPIP°PSPSC¶ P°PeC,PëPIPSPëC... PePsPjPiPsPSPµPSC,C-PI PsPeC¶PµPjPs,
P·P°P·PSP°C‡PµPSC- PIC-PrPiPsPIC-PrPSPs PrPs C‡P°C¶C,PsC,Pë PIPëPSPëPePSPµPSPSC¶:
PrCfP¶Pµ C‡P°C¶C,Ps (≥ 1/10), C‡P°C¶C,Ps (≥ 1/100 b¶™ < 1/10), PSPµC‡P°C¶C,Ps (≥ 1/1 000
b¶™ < 1/100), C¶C-PrPePs (≥ 1/10000 b¶™ < 1/1000), PrCfP¶Pµ C¶C-PrPePs (< 1/10 000),
C‡P°C¶C,PsC,P° PSPµPIC-PrPsPjP° (PSPµ PjPsP¶CfC,CH P±CfC,Pë PsC†C-PSPµPSC- P·P°
PSP°C¶PIPSPëPjPë PrP°PSPëPjPë).

P P°PjC-PiC¶PëP»

PµC¶PsC,,C-P»CH P±PµP·PiPµPePë C¶P°PjC-PiC¶PëP»Cf PIPeP»CHC‡P°C” C,P°PeC-
PiPsP±C-C‡PSC- C¶PµP°PeC†C-C—, C¶Pe C¶C,C-PNëPePëPNë C¶CfC...PëPNë PeP°CëPµP»CH C,P°
C¶PµP°PeC†C-C—, C¶PiC¶PëC‡PëPSPµPSC- PiC-PiPsC,PsPSC-C”CH. P”Ps
C¶PµC¶PNëPsP·PSPëC... PiPsP±C-C‡PSPëC... C¶PµP°PeC†C-PNë PSP°P»PµP¶P°C,CH
C-PSCfCfP»CHC,, C-PSC,,P°C¶PeC, PjC-PsPeP°C¶PrP°, PSP°P±C¶C¶Pe PµPIC-PSPePµ,
PiC-PiPµC¶PeP°P»C-C”PjC-C¶, PSPëC¶PePsPIP° P°P±Ps PiPµC‡C-PSPePsPIP°

PSPμPrPsCfC,P°C,PSC-CfC,CH, PīP°PSPeCḡPμP°C,PëC,, C,CłP¶¶PeC- CēPeC-CḡPSC-CḡPμP°PeC†C-C— C,P° PSPμPNëC,CḡPsPīPμPSC-Cł/P°PīCḡP°PSCfP»PsC†PëC,PsP°.

P— P±PsPeCž PsCḡPīP°PSC-PI P·PsCḡCž: PSPμC†P°CfC,Ps Bḡ“ PīPsCḡCfCēPμPSPSCł P·PsCḡCfC, PīPeP»CḡC†P°CḡC†Pë PSPμC†C-C,PeC-CfC,CH P·PsCḡCfC; CḡC-PrPePs Bḡ“ PePsPSBḡ™ CḡPSPeC,PëPIC-C,.

P— P±PsPeCž PsCḡPīP°PSC-PI CḡP»CžC...Cž C,P° PIPμCfC,PëP±CžP»CłCḡPSPsPīPs P°PīP°CḡP°C,Cž: CḡC-PrPePs Bḡ“ PīPsCḡCfCēPμPSPSCł CḡP»CfC...CfC, PrP·PIC-PS Cḡ PICfC...P°C....

P— P±PsPeCž CḡPμCfPīC-CḡP°C,PsCḡPSPsC— CḡPëCfC,PμPjPë, PsCḡPīP°PSC-PI PīCḡCžPrPSPsC— PeP»C-C,PePë C,P° CḡPμCḡPμPrPsCfC,C-PSPSCł: C†P°CfC,Ps Bḡ“ PSPμPīCḡPsPrCfPeC,PëPIPSPëPNë PīPsPrCḡP°P·PSCḡPīP°P»CHPSPëPNë PeP°CēPμP»CH, P±CḡPsPSC...C-C,, CḡPëPSCfCfPëC,, P·P°PrPëCēPeP°; PSPμC†P°CfC,Ps Bḡ“ P±CḡPsPSC...PsCfPīP°P·Pj, Cḡ C,PsPjCḡ C†PëCfP»C- P·P°PīPsCfC,CḡPμPSPSCł P°CfC,PjPë, P·P°PeP»P°PrPμPSC-CfC,CH PSPsCfP°; C†P°CfC,PsC,P° PSPμPIC-PrPsPjP° Bḡ“ CḡP°Pe P»PμPīPμPSCḡ.

P— P±PsPeCž CēP»CžPSPePsPIPs-PePëCēPePsPIPsPīPs C,CḡP°PeC,Cž: C†P°CfC,Ps Bḡ“ P·P°PīP°P»PμPSPSCł Cḡ C,CḡP°PIPSPsPjCḡ C,CḡP°PeC,C-, CḡPsP·P»P°PrPë C,CḡP°PIP»PμPSPSCł, CēP»CḡPSPePsPIPs-PePëCēPePsPIPëPNë PrPëCfPePsPjC,,PsCḡC,, PrPëCfPīPμPīCfC-Cł, PrC-P°CḡPμCł, PSCfPrPsC,P°, P±P»CḡPīP°PSPSCł; PSPμC†P°CfC,PsBḡ“ PīP°PSPeCḡPμP°C,PëC, (PīPsPsPrPëPSPsPeC- PIPëPīP°PrPePë P· P»PμC,P°P»CHPSPëPj PSP°CfP»C-PrPePsPj PīCḡPë P·P°CfC,PsCfCfPīP°PSPSC- C-PSpīC-P±C-C,PsCḡC-PI PḡPμPα), PīC-PrPIPëC%PμPSPSCł CḡC-PIPSCł C,,PμCḡPjPμPSC,C-PI PīC-PrCēP»CḡPSPePsPIPsC— P·P°P»PsP·Pë, P°PSPiC-PsPSPμPICḡPsC,PëC†PSPëPNë PSP°P±CḡCłPe C,PsPSPePsPīPs PePëCēPμC†PSPëPeP°, P±C-P»CH Cḡ PIPμCḡC...PSC-PNë PrC-P»CłPSC†C- P¶PëPIPsC,P°, PīPeP»CḡC†P°CḡC†Pë PīP°CfC,CḡPëC,, P·P°PīPsCḡ, CḡCfC...C-CfC,CH Cḡ CḡPsC,C-; CḡC-PrPePs Bḡ“ PīP»PsCfPëC,; C†P°CfC,PsC,P° PSPμPIC-PrPsPjP° Bḡ“ P°C,,C,PsP·PSPëPNë CfC,PsPjP°C,PëC,.

P— P±PsPeCž PīPμC†C-PSPePë C- P¶PsPIC†PsPIPëPIC-PrPSPëC... CēP»CłC...C-PI: PSPμC†P°CfC,Ps Bḡ“ PīC-PrPIPëC%PμPSPSCł CḡC-PIPSCł PīPμC†C-PSPePsPIPëC... C,,PμCḡPjPμPSC,C-PI C-/P°P±Ps PePsPSBḡ™ CḡPīPsPIP°PSPsPīPs P±C-P»C-CḡCfP±C-PSCf; CḡC-PrPePs Bḡ“ C...PsP»PμCfC,P°C,PëC†PSP° P¶PsPIC,CłPSPëC†Cł, PīPμPīP°C,PsC†PμP»CḡP»CłCḡPSC- CḡCēPePsPrP¶PμPSPSCł; C†P°CfC,PsC,P° PSPμPIC-PrPsPjP° Bḡ“ PīPsCfC,CḡP° PīPμC†C-PSPePsPIP° PSPμPrPsCfC,P°C,PSC-CfC,CH, C...PsP»PμCfC,P°C,PëC†PSPëPNë P°P±Ps C†PëC,PsP»C-C,PëC†PSPëPNë PīPμPīP°C,PëC, (Cḡ PīPsPsPrPëPSPsPePëC... PIPëPīP°PrPeP°C... Bḡ“ P· P»PμC,P°P»CHPSPëPj PSP°CfP»C-PrPePsPj).

P— P±PsPeCž PSPëCḡPsPe C,P° CḡPμC†PsPIPëPrC-P»CHPSPsC— CḡPëCfC,PμPjPë: PSPμC†P°CfC,Ps Bḡ“ PīPsCḡCfCēPμPSPSCł C,,CḡPSPeC†C-C— PSPëCḡPsPe, PīPeP»CḡC†P°CḡC†Pë PīPsCfC,CḡCḡ PSPëCḡPePsPICḡ PSPμPrPsCfC,P°C,PSC-CfC,CH, PīPsCfPëP»PμPSPSCł PrC-CḡCḡPμP·Cḡ, P·P°PīPsCfC,CḡPμPSPSCł CḡP¶Pμ PSP°CłPIPsPSC— PīCḡPsC,PμC—PSCfCḡC-C—, PīC-PrPIPëC%PμPSPSCł CḡC-PIPSCł CḡPμC†PsPIPëPSPë C,P° PeCḡPμP°C,PëPSC-PSCf PI PeCḡPsPIC-.

P— P±PsPeCž PμPSPPrPsPeCḡPëPSPSPsC— CḡPëCfC,PμPjPë: C†P°CfC,PsC,P° PSPμPIC-PrPsPjP° Bḡ“ CḡPëPSPPrCḡPsPj PīPsCḡCfCēPμPSPSCł CḡPμPeCḡPμC†C-C— P°PSC,PëPrC-CḡCḡPμC,PëC†PSPsPīPs PīPsCḡPjPsPSCf.

P— P±PsPeCž PsP±PjC-PSCž CḡPμC†PsPIPëPS, PjPμC,P°P±PsP»C-P·PjCž: C†P°CḡC,Ps бḡ“
PiC-PrPIPëC%PμPSPSCḡ CḡC-PIPSCḡ PeP°P»C-Cḡ PI PeCḡPsPIC-; PSPμC†P°CḡC,Ps бḡ“
P°PSPsCḡPμPeCḡC-Cḡ, P·PSPëPḡPμPSPSCḡ P°PiPμC,PëC,Cḡ; C†P°CḡC,PsC,P° PSPμPIC-PrPsPjP°
бḡ“ P·PSPëPḡPμPSPSCḡ CḡC-PIPSCḡ PSP°C,CḡC-Cḡ PI PeCḡPsPIC-.

P— P±PsPeCž PSPμCḡPIPsIPsC— CḡPëCḡC,PμPjPë: C†P°CḡC,Ps бḡ“ PiPsP»PsPIPSPëPNḡ
P±C-P»CHḡ, P·P°PiP°PjPsCḡPsC†PμPSPSCḡ; PSPμC†P°CḡC,Ps бḡ“ PIPμCḡC,PëPiPs,
PiP°CḡPμCḡC,PμP·C-C—, P°PiPμPIP·C-Cḡ, PrPëCḡPiPμPIP·C-Cḡ; CḡC-PrPePs бḡ“ C,CḡPμPjPsCḡ,
PiPsCḡC†CḡPμPSPSCḡ CḡC-PIPSPsPIP°PiPë; C†P°CḡC,PsC,P° PSPμPIC-PrPsPjP° бḡ“
C†PμCḡPμP±CḡP°P»CHḡPSP° C-CḡPμPjC-Cḡ, Cḡ C,PsPjCḡ C†PëCḡP»C- C-CḡPμPjC-C†PSPëPNḡ
C-PSCḡCḡP»CHḡC, C- PjPëPSCḡC%Pμ PiPsCḡC†CḡPμPSPSCḡ PjPsP·PePsIPsPiPs
PeCḡPsIPsPsP±C-PiCḡ, PiPsCḡC†CḡPμPSPSCḡ PiCḡPëC...PsPjPsC,PsCḡPSPëC...
C,,CḡPSPeC†C-PNḡ, PIC-PrC†CḡC,C,Cḡ PiPμC†C-PSPSCḡ, PiP°CḡPsCḡPjC-Cḡ.

P— P±PsPeCž PiCḡPëC...C-PePë: PSPμC†P°CḡC,Ps бḡ“ PrPμPiCḡPμCḡPëPIPSPëPNḡ
PSP°CḡC,CḡC-PNḡ, C,CḡPëPIPpsPḡPSC-CḡC,CHḡ, PSPμCḡPIPsP·PSC-CḡC,CHḡ, PSPμCḡPiPsPeC-PNḡ,
PiPsCḡC†CḡPμPSPSCḡ CḡPSCḡ, PIPeP»CḡC†P°CḡC†Pë CḡPsPSP»PëPIC-CḡC,CHḡ; CḡC-PrPePs
бḡ“ CḡPiP»CḡC,P°PSC-CḡC,CHḡ CḡPIC-PrPsPjPsCḡC,C-; C†P°CḡC,PsC,P° PSPμPIC-PrPsPjP° бḡ“
PiPsCḡC†CḡPμPSPSCḡ CḡPIP°PiPë.

P— P±PsPeCž CḡPμCḡC†Cḡ: PSPμC†P°CḡC,Ps бḡ“ C-CḡPμPjC-Cḡ PjC-PsPeP°CḡPrP°,
PIPeP»CḡC†P°CḡC†Pë CḡC,PμPSPsPeP°CḡPrC-Cḡ P°P±Ps C-PSC,,P°CḡPeC, PjC-PsPeP°CḡPrP°,
C,P°C...C-PeP°CḡPrC-Cḡ, P°CḡPëC,PjC-Cḡ, PIC-PrC†CḡC,C,Cḡ CḡPμCḡC†PμP±PëC,C,Cḡ,
PiPμCḡPëC,,PμCḡPëC†PSC- PSP°P±CḡCḡPePë.

P— P±PsPeCž CḡCžPrPëPS: C†P°CḡC,Ps бḡ“ P°CḡC,PμCḡC-P°P»CHḡPSP° PiC-PiPsC,PμPSP·C-Cḡ,
PsCḡC,PsCḡC,P°C,PëC†PSPμ P·PSPëPḡPμPSPSCḡ P°CḡC,PμCḡC-P°P»CHḡPSPsPiPs C,PëCḡPeCḡ,
CḡPëPSPePsPiPμ; PSPμC†P°CḡC,Ps бḡ“ PiCḡPëPiP»PëPIPë, PiC-PiPμCḡPμPjC-Cḡ; CḡC-PrPePs
бḡ“ CḡC,PμPSPsP· CḡCḡPrPëPS, PiC-PiPsPiPμCḡC,,CḡP·C-Cḡ, PIP°CḡPeCḡP»C-C,, C†P°CḡC,PsC,P°
PSPμPIC-PrPsPjP° бḡ“ CḡPëPSPrCḡPsPj P PμPNḡPSPs.

P— P±PsPeCž PeCḡPsPIC- C,P° P»C-PjC,,P°C,PëC†PSPsC— CḡPëCḡC,PμPjPë: PSPμC†P°CḡC,Ps бḡ“
PμPsP·PëPSPsC,,C-P»C-Cḡ; CḡC-PrPePs бḡ“ P·PjPμPSCḡPμPSPSCḡ PeC-P»CHḡPePsCḡC,C-
P»PμPNḡPePsC†PëC,C-PI (PIPeP»CḡC†P°CḡC†Pë PSPμPNḡC,CḡPsPiPμPSC-Cḡ C,P°
P°PiCḡP°PSCḡP»PsC†PëC,PsP·), P·PjPμPSCḡPμPSPSCḡ PeC-P»CHḡPePsCḡC,C-
PμCḡPëC,CḡPsC†PëC,C-PI, P·PSPëPḡPμPSPSCḡ CḡC-PIPSCḡ PiPμPjPsPiP»PsP±C-PSCḡ,
P·PjPμPSCḡPμPSPSCḡ PeC-P»CHḡPePsCḡC,C- C,CḡPsPjP±PsC†PëC,C-PI; C†P°CḡC,PsC,P°
PSPμPIC-PrPsPjP° бḡ“ PSPμPrPsCḡC,P°C,PSC-CḡC,CHḡ PeC-CḡC,PePsIPsPiPs PjPsP·PeCḡ,
PiP°PSC†PëC,PsPiPμPSC-Cḡ, PiPμPjPsP»C-C,PëC†PSP° P°PSPμPjC-Cḡ.

P— P±PsPeCž C-PjCžPSPSPsC— CḡPëCḡC,PμPjPë: C†P°CḡC,PsC,P° PSPμPIC-PrPsPjP° бḡ“
P°PSP°C,,C-P»P°PeC,PëC†PSC- C,P° P°PSP°C,,C-P»P°PeC,PsC—PrPSC- CḡPμP°PeC†C-C—,
PiC-PrPIPëC%PμPSPSCḡ CḡC-PIPSCḡ P°PSC,PëPSCḡPeP»PμP°CḡPSPëC... P°PSC,PëC,C-P».

P— P±PsPeCž CḡPeC-CḡPë C,P° PiC-PrCḡPeC-CḡPSPsC— PeP»C-C,PePsPIPëPSPë: C†P°CḡC,Ps
бḡ“ PIPëCḡPëPiP°PSPSCḡ, P·PsPeCḡPμPjP° PjP°PeCḡP»PsPiPsPiCḡP»CHḡPsP·PSC-;
PSPμC†P°CḡC,Ps бḡ“ P°PSPiC-PsPSPμPICḡPsC,PëC†PSPëPNḡ PSP°P±CḡCḡPe (Cḡ
PIPëPSCḡC,PePsPIPëC... PIPëPiP°PrPeP°C... PsP±CḡC,CḡCḡPeC†C-Cḡ PrPëC...P°P»CHḡPSPëC...
CḡP»CḡC...C-PI PIPSP°CḡP»C-PrPsPe P°PSPiC-PsPSPμPICḡPsC,PëC†PSPsPiPs PSP°P±CḡCḡPeCḡ
PjPsPḡPμ PjP°C,Pë P»PμC,P°P»CHḡPSPëPNḡ PSP°CḡP»C-PrPsPe), CḡPIPμCḡP±C-Pḡ,
PiC-PrPIPëC%PμPSP° PiC-C,P»PëPIC-CḡC,CHḡ; CḡC-PrPePs бḡ“
PμPeCḡC,,PsP»C-P°C,PëPIPSPëPNḡ PrPμCḡPjP°C,PëC,, PeCḡPsPiPëPiḡḡ™ CḡPSPeP°,

PsPSC-C...PsP»C-P.; PrCfP¶Pµ CḡC-PrPePs бґ“ CḡPµP°PeC†C-C¶
C,,PsC,PSc†CfC,P»PëPIPsCfC,C-; C†P°CfC,PSc,P° PSPµPIC-PrPsPjP° бґ“ C,PсPeCfPëC†PSPëPNë
PµPïC-PrPµCḡPjP°P»CHbPSPëPNë PSPµPeCḡPsP»C-P., CfPëPSPrCḡPsPj
PŸC,C-PIPµPSCfP°бґ“P”P¶PsPSCfPsPSP°, PjCfP»CHbC,PëC,,PsCḡPjPSP° PµCḡPëC,PµPjP°,
PiPµPjC,,C-PiCfCf, P°P°PiPsCfC,CḡPµPSPSC¶ PiPµCḡPµP±C-PiCf PiCfPsCḡC-P°P·Cf,
PiCfPsCḡC-P°C,PëC†PSPëPNë PrPµCḡPjP°C,PëC,, PiPµPjC,,C-PiPsC—PrPSP° P°P±Ps
P»C-C...PµPSPSc—PrPSP° PµPeP·P°PSC,PµPjP° P°P±Ps PµPSP°PSC,PµPjP°, P°P»PsPiPµC†C-C¶.

*P— P±PsPeCé PsPiPsCḡPSPs-CḡCéC...PsPIPsC— CfPëCfC,PµPjPë C,P° CfPiPsP»CéC†PSPsC—
C,PeP°PSPëPSPë: C†P°CfC,Pс бґ“ Pjбґ™ C¶P·PsPIC- CfPiP°P·PjPë, PjC-P°P»PiC-C¶;
PSPµC†P°CfC,Pс бґ“ P°CḡC,CḡP°P»PiC-C¶.*

*P— P±PsPeCé CḡPµPiCḡPsPrCéPeC,PëPIPsPsC— CfPëCfC,PµPjPë C,P° PjPsP»PsC†PSPëC...
P·P°P»PsP·: PSPµC†P°CfC,Pс бґ“ C,CḡP°PSP·PëC,PсCḡPSP° PµCḡPµPeC,PëP»CHbPSP°
C-PjPiPsC,PµPSC†C-C¶, P·PSPëP¶PµPSPSC¶ P»C-P±C-PrPs; C†P°CfC,PсC,P° PSPµPIC-PrPsPjP°
бґ“ PiC-PSPµPePsPjP°CfC,C-C¶.*

*P—P°PiP°P»CHbPSC- CḡPsP·P»P°PrPë C,P° CḡPµP°PeC†C-C— Cé PjC-CfC†C- PIPIPµPrPµPSPSC¶:
C†P°CfC,Pс бґ“ P±C-P»CHb Cf PiCḡCfPrPSC-PNë PeP»C-C,C†C-, CfP»P°P±PeC-CfC,CHb;
PSPµC†P°CfC,Pс бґ“ PiC-CḡPµPeCfC-C¶; CḡC-PrPePs бґ“ P°CfC,PµPSC-C¶.*

PhPjP»PsPrPëPiC-PS

PµCḡPë P·P°CfC,PсCfCfPIP°PSPSC- P°PjP»PsPrPëPiC-PSCf PSP°PNëC†P°CfC,C-C¶Pµ
PiPsPIC-PrPsPjP»C¶P»Pë PiCḡPs C,P°PeC- PiPsP±C-C†PSC- CḡPµP°PeC†C-C—:
CfPsPSP»PëPIC-CfC,CHb, P·P°PiP°PjPsCḡPsC†PµPSPSC¶, PiPsP»PsPIPsPëPNë P±C-P»CHb,
PiP°P»CHbPiC-C,P°C†C-C¶, PiCḡPëPiP»PëPIPë, P±C-P»CHb Cf C†PµCḡPµPIPsC-PNë
PiPsCḡPsP¶PSPëPSC-, PSCfPrPsC,P°, PSP°P±CḡC¶PePë PiPsPjC-P»PsPe, PSP°P±CḡC¶PePë C,P°
PIC,PсPjP»CHbIP°PSC-CfC,CHb.

*P— P±PsPeCé PsCḡPiP°PSC-PI P·PsCḡCé: PSPµC†P°CfC,Pс бґ“ PiPsCḡCfC¶PµPSPSC¶ P·PsCḡCf
(PIPeP»CHbC†P°CHbC†Pë PrPëPiP»PsPiC-CHb).*

*P— P±PsPeCé PsCḡPiP°PSC-PI CfP»CéC...Cé C,P° PIPµCfC,PëP±CéP»C¶CḡPSPsPiPs
P°PiP°CḡP°C,Cé: PSPµC†P°CfC,Pс бґ“ PrP·PIC-PS Cf PICfC...P°C....*

*P— P±PsPeCé CḡPµCfPiC-CḡP°C,PсCḡPSPsC— CfPëCfC,PµPjPë, PsCḡPiP°PSC-PI
PiCḡCéPrPSPsC— PeP»C-C,PePë C,P° CfPµCḡPµPrPsCfC,C-PSPSC¶: PSPµC†P°CfC,Pс бґ“
P·P°PrPëC¶PeP°, CḡPëPSC-C,; PrCfP¶Pµ CḡC-PrPePs бґ“ PeP°C¶PµP»CHb.*

*P— P±PsPeCé C¶P»CéPSPePsPIPs-PePëC¶PePsPIPsPiPs C,CḡP°PeC,Cé: C†P°CfC,Pс бґ“ P±C-P»CHb
Cf P¶PëPIPsC,C-, PrPëCfPiPµPiCfC-C¶, PiPsCḡCfC¶PµPSPSC¶ PiPµCḡPëCfC,P°P»CHbC,PëPePë
PePëC¶PµC†PSPëPeCf (PIPeP»CHbC†P°CHbC†Pë P·P°PiPsCḡ C- PrC-P°CḡPµCHb), PSCfPrPsC,P°;
PSPµC†P°CfC,Pс бґ“ P±P»CHbIP°PSPSC¶, CfCfC...C-CfC,CHb Cf CḡPsC,C-; PrCfP¶Pµ
CḡC-PrPePs бґ“ PiP°PSPeCḡPµP°C,PëC,, PiP°CfC,CḡPëC,, PiC-PiPµCḡPiP»P°P·C-C¶ C¶CfPµPS,
PiC-PiPµCḡC,CḡPsC,,C-C†PSPëPNë PiC-PSPiC-PIC-C,.*

*P— P±PsPeCé PiPµC†C-PSPePë C- P¶PsPIC†PsPIPëPIC-PrPSPëC... C¶P»C¶C...C-PI: PrCfP¶Pµ
CḡC-PrPePs бґ“ P¶PsPIC,C¶PSPëC†C¶*, PiPµPiP°C,PëC,* (Cf P±C-P»CHbC¶PsCfC,C-
PIPëPiP°PrPeC-PI C-P· C...PsP»PµCfC,P°P·PsPj).*

P— P±PsPeCž PSPëCḡPsPe C,P° CÍPμC‡PsPIPëPrC-P»CHPSPsC— CÍPëCÍC,PμPjPë:
PSPμC‡P°CÍC,Ps бҥ“ PìPsCḡCfC€PμPSPSCЦ CÍPμC‡PsPIPëPìCfCÍPëP°PSPSCЦ,
PSC-PeC,CfCḡC-CЦ, P·P±C-P»CHC€PμPSPSCЦ C‡P°CÍC,PsC,Pë
CÍPμC‡PsPIPëPìCfCÍPëP°PSPSCЦ.

P— P±PsPeCž PsP±PjC-PSCž CḡPμC‡PsPIPëPS, PjPμC,P°P±PsP»C-P·PjCž: PSPμC‡P°CÍC,Ps бҥ“
PiC-PìPμCḡPiP»C-PePμPjC-CЦ.

P— P±PsPeCž PSPμCḡPIPsPIPsC— CÍPëCÍC,PμPjPë: C‡P°CÍC,Ps бҥ“ PìPsP»PsPIPSPëPNë
P±C-P»CH, P·P°PìP°PjPsCḡPsC‡PμPSPSCЦ, CÍPsPSP»PëPIC-CÍC,CH (PsCÍPsP±P»PëPIPs PSP°
PìPsC‡P°C,PeCf P»C-PeCfPIP°PSPSCЦ); PSPμC‡P°CÍC,Ps бҥ“ C,CḡPμPjPsCḡ, CḡPsP·P»P°PrPë
CÍPjP°PeCf, CÍPëPSPePsPìPμ, PiC-PìPμCÍC,PμP·C-CЦ, PìP°CḡPμCÍC,PμP·C-C—; PrCfP¶Pμ
CḡC-PrPePs бҥ“ P°CḡC,PμCḡC-P°P»CHPSP° PiC-PìPμCḡC,PμPSP·C-CЦ,
PìPμCḡPëC,,PμCḡPëC‡PSP° PSPμPNëCḡPsPìP°C,C-CЦ; C‡P°CÍC,PsC,P° PSPμPIC-PrPsPjP° бҥ“
PμPeCÍC,CḡP°PìC-CḡP°PjC-PrP°P»CHPSPëPNë CḡPsP·P»P°Pr.

P— P±PsPeCž PìCÍPëC...C-PePë: PSPμC‡P°CÍC,Ps бҥ“ P·PjC-PSP° PSP°CÍC,CḡPsCḡ
(PIPeP»CḡC‡P°CḡC‡Pë C,CḡPëPIPsP¶PSC-CÍC,CH), P±PμP·CÍPsPSPSCЦ, PrPμPìCḡPμCÍC-CЦ;
CḡC-PrPePs бҥ“ CÍPìP»CfC,P°PSC-CÍC,CH CÍPIC-PrPsPjPsCÍC,C-.

P— P±PsPeCž CÍPμCḡC†CЦ: C‡P°CÍC,Ps бҥ“ PìCḡPëCÍPëPsCḡPμPSPμ CÍPμCḡC‡PμP±PëC,C,CЦ;
PrCfP¶Pμ CḡC-PrPePs бҥ“ C-PSC,,P°CḡPeC, PjC-PsPeP°CḡPrP°, P°CḡPëC,PjC-CЦ
(PIPeP»CḡC‡P°CḡC‡Pë P±CḡP°PrPëPeP°CḡPrC-Cḡ, PIPμPSC,CḡPëPeCfP»CЦCḡPSCf
C,P°C...C-PeP°CḡPrC-Cḡ C- C,,C-P±CḡPëP»CЦC†C-Cḡ PìPμCḡPμPrCÍPμCḡPrCH);

P— P±PsPeCž CÍCžPrPëPS: C‡P°CÍC,Ps бҥ“ PiC-PìPμCḡPμPjC-CЦ, PìCḡPëPìP»PëPIPë;
PSPμC‡P°CÍC,Ps бҥ“ P°CḡC,PμCḡC-P°P»CHPSP° PiC-PìPsC,PμPSP·C-CЦ; PrCfP¶Pμ CḡC-PrPePs
бҥ“ PIP°CÍPeCfP»C-C,.

P— P±PsPeCž PeCḡPsPIC- C,P° P»C-PjC,,P°C,PëC‡PSPsC— CÍPëCÍC,PμPjPë: PrCfP¶Pμ
CḡC-PrPePs бҥ“ P»PμPNëPePsPìPμPSC-CЦ, C,CḡPsPjP±PsC‡PëC,PsPìPμPSC-CЦ.

P— P±PsPeCž C-PjCžPSPSPsC— CÍPëCÍC,PμPjPë: PrCfP¶Pμ CḡC-PrPePs бҥ“
P°P»PμCḡPiC-C‡PSC- CḡPμP°PeC†C-C—.

P— P±PsPeCž C€PeC-CḡPë C,P° PìC-PrC€PeC-CḡPSPsC— PeP»C-C,PePsPIPëPSPë:
PSPμC‡P°CÍC,Ps бҥ“ P°P»PsPìPμC†C-CЦ, PìCfCḡPìCfCḡP°, P·PjC-PSP° PePsP»CHPsCḡCf
C€PeC-CḡPë, PìPsCÍPëP»PμPSPμ PìPsC,PsPIPëPrC-P»PμPSPSCЦ, CÍPIPμCḡP±C-P¶,
PIPëCÍPëPìPë, PμPeP·P°PSC,PμPjP°; PrCfP¶Pμ CḡC-PrPePs бҥ“
P°PSPiC-PsPSPμPICḡPsC,PëC‡PSPëPNë PSP°P±CḡCЦPe, PSP°P±CḡCЦPe PḡPIC-PSPePμ,
PjCfP»CHC,PëC,,PsCḡPjPSP° PμCḡPëC,PμPjP°, PeCḡPsPìPëPìBḡ™ CЦPSPeP°,
PμPeCÍC,,PsP»C-P°C,PëPIPsPëPNë PrPμCḡPjP°C,PëC,, CÍPëPSPrCḡPsPj
PŸC,C-PIPμPSCÍP°бҥ“P”P¶PsPSCÍPsPSP°, CÍPIC-C,P»PsC‡CfC,P»PëPIC-CÍC,CH;
C‡P°CÍC,PsC,P° PSPμPIC-PrPsPjP° бҥ“ C,PsPeCÍPëC‡PSPëPNë PμPìC-PrPμCḡPjP°P»CHPSPëPNë
PSPμPeCḡPsP»C-P°.

P— P±PsPeCž PsPìPsCḡPSPs-CḡCžC...PsPIPsC— CÍPëCÍC,PμPjPë C,P° CÍPìPsP»CžC‡PSPsC—
C,PeP°PSPëPSPë: C‡P°CÍC,Ps бҥ“ PSP°P±CḡCЦPe PìPsPjC-P»PePsPIPsCÍC,PsPìPSPsPìPs
CÍCfPìP»PsP±P°; PSPμC‡P°CÍC,Ps бҥ“ P°CḡC,CḡP°P»PìC-CЦ, PjC-P°P»PìC-CЦ,
PjBḡ™ CЦP·PsPIC- CÍPìP°P·PjPë, P±C-P»CH CÍPìPëPSC-.

P— P±PsPeCž CḡPμPìCḡPsPrCžPeC,PëPIPsPSPsC— CÍPëCÍC,PμPjPë C,P° PjPsP»PsC‡PSPëC...
P·P°P»PsP°: PSPμC‡P°CÍC,Ps бҥ“ C-PjPìPsC,PμPSC†C-CЦ, PiC-PSPμPePsPjP°CÍC,C-CЦ.

$P-P^{\circ}PiP^{\circ}P \gg CH \overline{P}SC - C \overline{H}PsP \cdot P \gg P^{\circ}PrP \ddot{e} C, P^{\circ} C \overline{H}P \mu P^{\circ}PeC \uparrow C - C - C \acute{z} PjC - C \acute{I}C \uparrow C - PIPIP \mu PrP \mu PSPSC \downarrow$:
 $C \uparrow P^{\circ}C \acute{I}C, Ps \text{ в } \overline{H}'' PSP^{\circ}P \pm C \overline{H}C \downarrow Pe, C \acute{I}C, PsPjP \gg C \overline{H}PIP^{\circ}PSC - C \acute{I}C, CH; PSP \mu C \uparrow P^{\circ}C \acute{I}C, Ps \text{ в } \overline{H}''$
 $P \pm C - P \gg CH P \cdot P^{\circ} PiC \overline{H}C \acute{r} PrP \ddot{e} PSPsC \overline{H}, P^{\circ}C \acute{I}C, P \mu PSC - C \downarrow, P \pm C - P \gg CH, PSP \mu P \cdot PrC \acute{r} P \overline{H} P^{\circ} PSPSC \downarrow$.

$P \gg P^{\circ}P \pm PsC \overline{H}P^{\circ}C, PsC \overline{H}PSC - P \ddot{i}PsPeP^{\circ}P \cdot PSP \ddot{e}PeP \ddot{e}$: $PSP \mu C \uparrow P^{\circ}C \acute{I}C, Ps \text{ в } \overline{H}'' P \cdot P \pm C - P \gg CH C \epsilon P \mu PSPSC \downarrow$
 $P^{\circ}P \pm Ps P \cdot PjP \mu PSC \epsilon P \mu PSPSC \downarrow PjP^{\circ}C \acute{I}P \ddot{e} C, C - P \gg P^{\circ}; PrC \acute{r} P \overline{H} P \mu C \overline{H}C - PrPePs \text{ в } \overline{H}''$
 $P \ddot{i}C - PrPIP \ddot{e}C \% P \mu PSPSC \downarrow C \overline{H}C - PIPSC \downarrow P \ddot{i}P \mu C \uparrow C - PSPePsPIP \ddot{e}C \dots C, P \mu C \overline{H}PjP \mu PSC, C - PI^*$.

* $Pj P \pm C - P \gg CH C \epsilon PsC \acute{I}C, C - PIP \ddot{e}PiP^{\circ}PrPeC - PI P \cdot C \dots PsP \gg P \mu C \acute{I}C, P^{\circ}P \cdot PsPj$.

$P \mu PsPIC - PrPsPjP \gg P \mu PSPSC \downarrow P \ddot{i}C \overline{H}Ps P \ddot{i}C - PrPsP \cdot C \overline{H}C \overline{H}PIP^{\circ}PSC - P \ddot{i}PsP \pm C - C \uparrow PSC -$
 $C \overline{H}P \mu P^{\circ}PeC \uparrow C - C -$.

$P \mu PsPIC - PrPsPjP \gg P \mu PSPSC \downarrow P \ddot{i}C \overline{H}Ps P \ddot{i}C - PrPsP \cdot C \overline{H}C \overline{H}PIP^{\circ}PSC - P \ddot{i}PsP \pm C - C \uparrow PSC -$
 $C \overline{H}P \mu P^{\circ}PeC \uparrow C - C - P \ddot{i}C - C \acute{I}P \gg C \downarrow C \overline{H}P \mu C''C \acute{I}C, C \overline{H}P^{\circ}C \uparrow C - C - P \gg C - PeP^{\circ}C \overline{H}C \acute{I}CHPePsPiPs$
 $P \cdot P^{\circ}C \acute{I}PsP \pm C \acute{r} PjP^{\circ}C \overline{H}C, CH PIP^{\circ}P \overline{H}P \gg P \ddot{e}PIP \mu P \cdot PSP^{\circ}C \uparrow P \mu PSPSC \downarrow. P \downarrow P \mu PrP^{\circ}C'' P \cdot PjPsPiC \acute{r}$
 $P \ddot{i}C \overline{H}PsPIP sPrP \ddot{e}C, P \ddot{e} PjPsPSC - C, PsC \overline{H}P \ddot{e}PSPi C \acute{I}P \ddot{i}C - PIPIC - PrPSP sC \epsilon P \mu PSPSC \downarrow$
 $PePsC \overline{H}P \ddot{e}C \acute{I}C, CH / C \overline{H}P \ddot{e}P \cdot P \ddot{e}Pe P \ddot{i}C \overline{H}P \ddot{e} P \cdot P^{\circ}C \acute{I}C, PsC \acute{I}C \acute{r} PIP^{\circ}PSPSC - C \uparrow CHPsPiPs$
 $P \gg C - PeP^{\circ}C \overline{H}C \acute{I}CHPePsPiPs P \cdot P^{\circ}C \acute{I}PsP \pm C \acute{r}. P \overline{H}P \mu PrP \ddot{e}C \uparrow PSP \ddot{e}Pj C, P^{\circ}$
 $C, P^{\circ}C \overline{H}PjP^{\circ}C \uparrow P \mu PIC, P \ddot{e}C \uparrow PSP \ddot{e}Pj P \ddot{i}C \overline{H}P^{\circ}C \uparrow C - PIPSP \ddot{e}PeP^{\circ}Pj, P^{\circ} C, P^{\circ}PePsP \overline{H} P \ddot{i}P^{\circ}C \uparrow C - C''PSC, P^{\circ}Pj$
 $P^{\circ}P \pm Ps C - C \dots PSC - Pj P \cdot P^{\circ}PePsPSPSP \ddot{e}Pj P \ddot{i}C \overline{H}P \mu PrC \acute{I}C, P^{\circ}PIPSP \ddot{e}PeP^{\circ}Pj C \acute{I}P \gg C - Pr$
 $P \ddot{i}PsPIC - PrPsPjP \gg C \downarrow C, P \ddot{e} P \ddot{i}C \overline{H}Ps C \acute{r}C \acute{I}C - PIP \ddot{e}PiP^{\circ}PrPeP \ddot{e} P \ddot{i}C - PrPsP \cdot C \overline{H}C \overline{H}PIP^{\circ}PSP \ddot{e}C \dots$
 $P \ddot{i}PsP \pm C - C \uparrow PSP \ddot{e}C \dots C \overline{H}P \mu P^{\circ}PeC \uparrow C - P \overline{H} C, P^{\circ} / P^{\circ}P \pm Ps PIC - PrC \acute{I}C \acute{r}C, PSPsC \acute{I}C, C -$
 $P \mu C, P \mu PeC, P \ddot{e}PIPSP sC \acute{I}C, C - P \gg C - PeP^{\circ}C \overline{H}C \acute{I}CHPePsPiPs P \cdot P^{\circ}C \acute{I}PsP \pm C \acute{r} C \uparrow P \mu C \overline{H}P \mu P \cdot$
 $P \overline{H}PIC, PsPjP^{\circ}C, P \ddot{e}P \cdot PsPIP^{\circ}PSC \acute{r} C - PSC, PsC \overline{H}PjP^{\circ}C \uparrow C - P \overline{H}PSC \acute{r} C \acute{I}P \ddot{e}C \acute{I}C, P \mu PjC \acute{r} P \cdot$
 $C, P^{\circ}C \overline{H}PjP^{\circ}PePsPSP^{\circ}PiP \gg C \downarrow PrC \acute{r} P \cdot P^{\circ} P \ddot{i}PsC \acute{I}P \ddot{e}P \gg P^{\circ}PSPSC \downarrow Pj: <https://aisf.dec.gov.ua>.$

$P \overline{H}P \mu C \overline{H}PjC - PS P \ddot{i}C \overline{H}P \ddot{e}PrP^{\circ}C, PSPsC \acute{I}C, C -$. 3 $C \overline{H}PsPeP \ddot{e}$.

$PjPjPsPIP \ddot{e} P \cdot P \pm P \mu C \overline{H}C - PiP^{\circ}PSPSC \downarrow$.

$P - P \pm P \mu C \overline{H}C - PiP^{\circ}C, P \ddot{e} PI PsC \overline{H}P \ddot{e}PiC - PSP^{\circ}P \gg CH \overline{P}SC - P \overline{H} C \acute{r} P \ddot{i}P^{\circ}PePsPIC \uparrow C - P \ddot{i}C \overline{H}P \ddot{e}$
 $C, P \mu PjPiP \mu C \overline{H}P^{\circ}C, C \acute{r}C \overline{H}C - PSP \mu PIP \ddot{e}C \% P \mu 25 B^{\circ}P \ddot{Y}. P - P \pm P \mu C \overline{H}C - PiP^{\circ}C, P \ddot{e} C \acute{r}$
 $PSP \mu PrPsC \acute{I}C, C \acute{r}PiPSP sPjC \acute{r} PrP \gg C \downarrow PrC - C, P \mu P \overline{H} PjC - C \acute{I}C \uparrow C -$.

$PjP \ddot{i}P^{\circ}PePsPIP \epsilon P^{\circ}$.

$P \mu Ps 6 PeP^{\circ}PiC \acute{I}C \acute{r}P \gg C \acute{r} P \pm P \gg C - C \acute{I}C, P \mu C \overline{H}C -, P \ddot{i}Ps 5 P \pm P \gg C - C \acute{I}C, P \mu C \overline{H}C - PI PI P \ddot{i}P^{\circ}C \uparrow C -$.

$P \overline{H}P^{\circ}C, P \mu PiPsC \overline{H}C - C \downarrow PIC - PrPiC \acute{r}C \acute{I}P \epsilon C \acute{r}$. $P - P^{\circ} C \overline{H}P \mu C \uparrow P \mu PiC, PsPj$.

$P - P^{\circ}C \downarrow PIPSP \ddot{e}Pe$. $P \mu C \overline{H}P \overline{H}P \ddot{Y} B \ll P \overline{H}P^{\circ}C \overline{H}PjP^{\circ}C \uparrow P \mu PIC, P \ddot{e}C \uparrow PSP^{\circ} C, C - C \overline{H}PjP^{\circ}$

В«Р”Р°СЃPSPëC†CЦВ».

**РЊС-СЃС†РµР·PSP°С...PsРгР¶РµPSPSCЦ Р·Р°СЦРIPSPëРєР° С,Р° Р°РгСЃРµСЃР°Р°
РјС-СЃС†СЦ РїСЃРѕРIP°РгР¶РµPSPSCЦ Р№PsРiPs РгС-СЦР»СЊPSPsСЃС,С-.**

РЈРєСЃР°С—PSP°, 02093, Рј. РЊРёС—РІ, РІСЃР». Р’PsСЃРёСЃР»Р»СЊСЃСЃРєР°, 13.

Р’РёСЃРѕР±PSPëРє. РђРгР°РјРµР°Р°Р°СЃР°Р°Р° Р°Р°СЃРјР° Рў.Рђ.

**РЊС-СЃС†РµР·РµР·PSP°С...PsРгР¶РµPSPSCЦ РIPëСЃРѕР±PSPëРєР° С,Р° Р°РгСЃРµСЃР°Р°
РјС-СЃС†СЦ РїСЃРѕРIP°РгР¶РµPSPSCЦ Р№PsРiPs РгС-СЦР»СЊPSPsСЃС,С-.**

Р’СЃР». РёРєРѕР»»СЊPSP° 33, РЊСЃР°Р°РIPµСЃРІ, 95ВЃ“054, РµРѕР»»СЊС°Р°.

Р’СЃР». РЊР°СЃСЃР°Р°Р°Р°Р° Р°Р°РµРµР°, РµС-Р»СЃСЃР»СЃР»СЃР»СЃР»СЃР» 5, РµР°Р°Р±ВЃ™СЦРSC-С†Рµ,
95ВЃ“200, РµРѕР»»СЊС°Р°.