

Р†РќРЎРЎР РЈРЉРІРІРІ

**РГР»СІ РјРµРГРёС±РSPsPiPs Р·Р°СІС,PsСІСІРІР°РSPSCІ Р»С-РёР°СІСІСНРёPsPiPs
Р·Р°СІPsP±СІ**

РЉРћР Р”РћР РћРќ°

(CORDARONE°)

РЎРёР»Р°Р°Р:

РГС-СНС±Р° СІРµС±PsPIPёPSP°: Р°РјС-РsРГР°СІPsPs;

1 С,Р°Р±Р»РµС,РёР° РјС-СІС,РёС,СН Р°РјС-РsРГР°СІPsPSCІ PiС-РГСІPsС...Р»PsСІРёРГРІ 200 РјРі;

РГPsPiPsРјС-Р¶PSC- СІРµС±PsPIPёPSPё: РёСІPsС...РјР°Р»СН РёСІРёСІСІРГР·СІPSPёNё, Р»Р°РёС,PsР·Рё РјPsPSPsPiС-РГСІР°С,, РјР°РіPSC-СН СІС,РµР°СІР°С,, РіPsPIC-РГPsPs, РёСІРµРµРјPSC-СН РГС-РsРёСІРёРГ РёPsР»PsС—РГPSPёNё Р±РµРµРІP·РІPsРГPSPёNё.

Р»С-РёР°СІСІСНРёР° С,,PsСІРјР°. РЎР°Р±Р»РµС,РёРё.

РћСІPSPsPIPSC- С,,С-Р·РёРёPs-С...С-РјС-С±PSC- РІР»Р°СІС,РёРІPsСІС,С-: РёСІСІРіРіР»С- С,Р°Р±Р»РµС,РёРё РІС-РГ Р±С-Р»PsPiPs РГPs Р·Р»РµРµР° РёСІРµРµРµРµРµРµРµ РёСІРµРµРµРµРµРµРµ РёPsР»СНPsСІСІ, Р· СІPsР·РіPsРГ-Р»СНС±PsСН СІРёСІРёPsСН С,Р° РіСІР°РІС-СНРІР°Р°РSPSCІPj СІРёРёРјРІPsР»СІ СІ РІРёРіР»СІP»СІPРС- СІРµРµСІСІ С,Р° В«200В» Р· РsРГPSPsPiPs Р±PsРёСІ.

Р»Р°СІРјР°РёРµPsС,РµСІР°РіРµРµPIC,РёС±PSP° РіСІСІРіРіР°. РћPSC,РёР°СІРёС,РјС-С±PSC- РіСІРµРµР°СІР°С,Рё Р†Р†Р† РёР»Р»Р°СІСІ. РЉPsРГ РћРёРІГ В РЎ01В D01.

Р»Р°СІРјР°РёРµPsР»PsPiС-С±PSC- РІР»Р°СІС,РёРІPsСІС,С-.

Р»Р°СІРјР°РёРµPsРГРёPSP°РјС-РёР°.

РµСІPsС,РёР°СІРёС,РјС-С±PSC- РІР»Р°СІС,РёРІPsСІС,С-. РµPsРГPsРІP¶PµPSPSCІ С,,Р°Р±Р»Рё 3 РіPsС,РµPSCІС-Р°Р»СІ РГС-С— РјС-РsРёР°СІР°С, РіPsР»PsРІPSPёРј С±РёPSPsРј РІPSP°СІР»С-РГPsРё С-РSPiС-Р±СІРІР°Р°РSPSCІ РёР»Р»С-С”РІРёС... РёР°Р°РSP°Р»С-РІ (РёР»Р»Р°СІСІ

III P·P° PeP»P°CÍPëC,,C-PeP°C†C-C"CH P'PsPiPµPS-P'C-P»CHC¼PjCÍP°).

PjPíPsPIC-P»CHPSPµPSPSC¼ CÍPµCĤC†PµPIPSPiPs CĤPëC,PjCÍ P·P°PIPrC¼PePë
PíCĤPëPiPSC-C†PµPSPSCĤ P°PIC,PsPjP°C,PëP·PjCÍ CÍPëPSCÍCÍPsPIPSPiPs PICÍP·P»P°.
PíPµPNë PµC,,PµPeC, PSPµ P±P»PsPeCÍC"C,CHCÍC¼ P°C,CĤPsPiC-PSPsPj.

PkPµPePsPSPeCÍCĤPµPSC,PSP° P°P»CHC,,P°- C,P° P±PµC,P°-
P°PSC,PëP°PrCĤPµPSPµCĤPiC-C†PSP° PrC-C¼.

PjPíPsPIC-P»CHPSPµPSPSC¼ CÍPëPSPsP°C,CĤC-P°P»CHPSPsC—,
PíPµCĤPµPrCÍPµCĤPrPSPsC— C,P° PICÍP·P»PsPIPSC— PíCĤPsPIC-PrPSPsCÍC,C-,
C¼PePµ CÍC,P°C" P±C-P»CHC€ PIPëCĤP°P¶PµPSPëPj PíCĤPë
PíCĤPëCÍPePsCĤPµPSPSC- CÍPµCĤC†PµPIPSPiPs CĤPëC,PjCÍ.

P'C-PrCÍCÍC,PSC-CÍC,CH P·PjC-PS P· P±PsPeCÍ
PIPSCÍC,CĤC-C€PSCĤPsC€P»CÍPSPsC†PePsPIPSC— PíCĤPsPIC-PrPSPsCÍC,C-.

P—P±C-P»CHC€PµPSPSC¼ CĤPµC,,CĤP°PeC,PµCĤPSPsPiPs PíPµCĤC-PsPrCÍ C,P°
P·PjPµPSC€PµPSPSC¼ P·P±CÍPrP»PëPIPsCÍC,C- PjC-PsPeP°CĤPrP° PSP°
PíPµCĤPµPrCÍPµCĤPrPSPsPjCÍ, PICÍP·P»PsPIPSPjCÍ C,P° C€P»CÍPSPsC†PePsPIPSPjCÍ
CĤC-PIPSC¼C....

PjPíPsPIC-P»CHPSPµPSPSC¼ PíCĤPsPIC-PrPSPsCÍC,C- C,P° PíPsPrPsPIP¶PµPSPSC¼
CĤPµC,,CĤP°PeC,PµCĤPSPëC... PíPµCĤC-PsPrC-PI CÍ PrPsPrP°C,PePsPIPëC...
P°C,CĤC-PsPIPµPSC,CĤPëPeCÍP»C¼CĤPSPëC... PíCĤPsPIC-PrPSPëC... C€P»C¼C...P°C....

P†PSC€C- PIP»P°CÍC,PëPIPsCÍC,C-. P—PjPµPSC€PµPSPSC¼ CÍPíPsP¶PëPIP°PSPSC¼
PePëCÍPSCĤ C†PµCĤPµP· PíPsPjC-CĤPSPµ P·PjPµPSC€PµPSPSC¼
PíPµCĤPëC,,PµCĤPëC†PSPsPiPs PsPíPsCĤCÍ CÍCÍPrPëPS C,P° P·PjPµPSC€PµPSPSC¼
C†P°CÍC,PsC,Pë CÍPµCĤC†PµPIPëC... CÍPePsCĤPsC†PµPSCĤ.

P—P±C-P»CHC€PµPSPSC¼ PePsCĤPsPSP°CĤPSPsPiPs PeCĤPsPIPSC,PsPeCÍ
P·P°PIPrC¼PePë PíCĤC¼PjC-PNë PrC-C— PSP° PiP»P°PrPµPSCĤPeC- PjBĤ™ C¼P·Pë
CÍCÍPrPëPS PjC-PsPeP°CĤPrP° C,P° PíC-PrC,CĤPëPjP°PSPSC¼ CÍPµCĤC†PµPIPSPiPs
PIPëPePëPrCÍ PSP° C,P»C- P·PSPëP¶PµPSPsPiPs P°CĤC,PµCĤC-P°P»CHPSPsPiPs
C,PëCÍPeCÍ C- PíPµCĤPëC,,PµCĤPëC†PSPsPiPs PsPíPsCĤCÍ CÍCÍPrPëPS C,P° PíCĤPë
PIC-PrCÍCÍC,PSPsCÍC,C- PSPµPiP°C,PëPIPsPëC... C-PSPsC,CĤPsPiPSPëC...
PµC,,PµPeC,C-PI.

P'CÍPI PIPëPePsPSP°PSPëPNë PjPµC,P°P°PSP°P»C-P· PrP°PSPëC... 13
PíCĤPsCÍPíPµPeC,PëPIPsPëC..., CĤP°PSPPrPsPjC-P·PsPIP°PSPëC...,
PePsPSC,CĤPsP»CHPSPiP°PSPëC... PrPsCÍP»C-PrP¶PµPSCĤ, CÍ C¼PePëC... PIP·C¼P»Pë
CÍC†P°CÍC,CH 6553 PíP°C†C-C"PSC,Pë, C¼PeC- PSPµC%oPsPrP°PIPSPs PíPµCĤPµPSPµCÍP»Pë
C-PSC,,P°CĤPeC, PjC-PsPeP°CĤPrP° (78 %) P°P±Ps C...CĤPsPSC-C†PSCÍ CÍPµCĤC†PµPICÍ
PSPµPrPsCÍC,P°C,PSC-CÍC,CH (22 %).

PŸPµCĤPµPrPSC¼ C,CĤPëPIP°P»C-CÍC,CH CÍPíPsCÍC,PµCĤPµP¶PµPSPSC¼ P·P°
PíP°C†C-C"PSC,P°PjPë P±CÍP»P° PI PrC-P°PíP°P·PsPSC- PIC-Pr 0,4 PrPs 2,5 CĤPsPeC-PI.
PŸPµCĤPµPrPSC¼ PrPsP±PsPIP° PíC-PrC,CĤPëPjCÍCĤC†P° PrPsP·P° PíCĤPµPíP°CĤP°C,CÍ
PIP°CĤC-CĤPIP°P»P° PIC-Pr 200 PrPs 400 PjPi.

PiPμPNε PjPμC, P°P°PSP°P»C-P. PiCḡPsPrPμPjPsPSCÍC, CḡCfPIP°PI, C%Ps P°PjC-PsPrP°CḡPsPS
CÍC, P°C, PëCÍC, PëC±PSPs P·PSP°C±CfC%Ps P·PSPëP¶CfC” P·P°PiP°P»CHPSCf
PeC-P»CHPeC-CÍC, CH P»PμC, P°P»CHPSPëC... PIPëPiP°PrPeC-PI PSP° 13 % (95 % P”P†:
0,78-0,99; p 0,030) C, P° P»PμC, P°P»CHPSPëC... PIPëPiP°PrPeC-PI CÍPiCḡPëC±PëPSPμPSPëC...
PiPsCḡCfCεPμPSPSCÍPjPë CḡPëC, PjCf PSP° 29 % (95 % P”P†: 0,59-0,85; p = 0,0003).

PμCḡPsC, Pμ C†C- CḡPμP·CfP»CHC, P°C, Pë CÍP»C-Pr C-PSC, PμCḡPiCḡPμC, CfPIP°C, Pë P·
PsP±PμCḡPμP¶PSC-CÍC, Cḡ Cf P·PiBḡ™ CÍP·PeCf P· PiPμC, PμCḡPsPiPμPSPSC-CÍC, Cḡ
CḡC-P·PSPëC... PrPsCÍP»C-PrP¶PμPSCḡ (PIC-PrPjC-PSPSPsCÍC, C- PiPsPiBḡ™ CÍP·P°PSC-
PiPsP»PsPIPSPëPj C±PëPSPsPj C-P. PIPeP»CḡC±PμPSPëPjPë Cf PrPsCÍP»C-PrP¶PμPSPSCÍ
PiPsPiCfP»CÍC†C-CÍPjPë, C, CḡPëPiP°P»C-CÍC, Cḡ PiPμCḡC-PsPrCf
CÍPiPsCÍC, PμCḡPμP¶PμPSPSCÍ P·P° PiP°C†C-C”PSC, P°PjPë, PIPëPePsCḡPëCÍC, P°PSPsCḡ
PjPμC, PsPrPsP»PsPiC-C”Cḡ C, P° CḡPμP·CfP»CHC, P°C, P°PjPë PrPsCÍP»C-PrP¶PμPSCḡ).

P’C-PrCÍPsC, PsPe PiP°C†C-C”PSC, C-PI, Cf CÍPePëC... P±CfP»P° P·P°CÍC, PsCÍPsPIP°PSP°
PIC-PrPjC-PSP° PiCḡPμPiP°CḡP°C, Cf, PI PiCḡCfPiC- PiCḡPëPNεPsPjCf P°PjC-PsPrP°CḡPsPSCÍ
P±CfPI PIPëC%PëPNε (41 %), PSC-P¶ Cf PiCḡCfPiC- PiP»P°C†PμP±Ps (27 %).

Pj 7 % PiP°C†C-C”PSC, C-PI, CÍPeC- PiCḡPëPNεPjP°P»Pë P°PjC-PsPrP°CḡPsPs,
CḡPsP·PIPëPSCfPICÍCÍ PiC-PiPsC, PëCḡPμPsP·, PiPsCḡC-PIPSCÍPSPs P· 1 % Cf PiCḡCfPiC-
PiP»P°C†PμP±Ps. P”C-PiPμCḡC, PëCḡPμPsP· P±CfPI PrC-P°PiPSPsCÍC, PsPIP°PSPëPNε Cf 1,4 %
PiP°C†C-C”PSC, C-PI PiCḡCfPiPë PiCḡPëPNεPsPjCf P°PjC-PsPrP°CḡPsPSCÍ PiPsCḡC-PIPSCÍPSPs
P· 0,5 % Cf PiCḡCfPiC- PiP»P°C†PμP±Ps.

P†PSC, PμCḡCÍC, PëC†C-PNεPSP° PiPSPμPIPjPsPiP°C, C-CÍ CḡPsP·PIPëPSCfP»P°CÍCÍ Cf 1,6 %
PiP°C†C-C”PSC, C-PI PiCḡCfPiPë PiCḡPëPNεPsPjCf P°PjC-PsPrP°CḡPsPSCÍ PiPsCḡC-PIPSCÍPSPs
P· 0,5 % Cf PiCḡCfPiC- PiP»P°C†PμP±Ps.

PμPμPrC-P°C, CḡPëC±PSP° PiPsPiCfP»CÍC†C-CÍ. PŸPμCḡPμPr PrC-C, PμPNε PSPμ
PiCḡPsPIPPrPëP»PsCÍCH P¶PsPrPSPëC... PePsPSC, CḡPsP»CHPsPIP°PSPëC...
PeP»C-PSC-C±PSPëC... PrPsCÍP»C-PrP¶PμPSCḡ. P—P° PrP°PSPëPjPë P»C-C, PμCḡP°C, CfCḡPë
P±PμP·PiPμPeP° P·P°CÍC, PsCÍCfPIP°PSPSCÍ P°PjC-PsPrP°CḡPsPSCÍ
PrPsCÍP»C-PrP¶CfPIP°P»P°CÍCÍ CÍPμCḡPμPr 1118 PrC-C, PμPNε P· CḡC-P·PSPëPjPë
C, PëPiP°PjPë P°CḡPëC, PjC-PNε.

Pj CḡP°PjPeP°C... PeP»C-PSC-C±PSPëC... PrPsCÍP»C-PrP¶PμPSCḡ CÍPμCḡPμPr PrC-C, PμPNε
P·P°CÍC, PsCÍPsPICfPIP°P»Pë PSP°CÍC, CfPiPSC- PrPsP·CfPIP°PSPSCÍ PiCḡPμPiP°CḡP°C, Cf:

- PSP°PIP°PSC, P°P¶CfPIP°P»CHPSP° PrPsP·P°: 10-20 PjPi/PePi/PrPsP±Cf PIPiCḡPsPrPsPIP¶
7-10 PrPSC-PI (C, PsP±C, Ps 500 PjPi/Pj²/PrPsP±Cf PI PiPμCḡPμCḡP°C...CfPIP°PSPSC- PSP°
PiP»PsC%Cf PiPsPIPμCḡC...PSC- C, C-P»P°);

- PiC-PrC, CḡPëPjCfCḡC±P° PrPsP·P°: PiPsPIPëPSPSP° P·P°CÍC, PsCÍPsPICfPIP°C, PëCÍCH
PjC-PSC-PjP°P»CHPSP° PμC,, PμPeC, PëPiPSP° PrPsP·P°; PSP° PiC-PrCÍC, P°PIC-
C-PSPrPëPIC-PrCfP°P»CHPSPsC— PIC-PrPiPsPIC-PrC- PIPsPSP° PjPsP¶Pμ
PePsP»PëPiP°C, PëCÍCH Cf PjPμP¶P°C... PIC-Pr 5 PrPs 10 PjPi/PePi/PrPsP±Cf (C, PsP±C, Ps
250 PjPi/Pj²/PrPsP±Cf PI PiPμCḡPμCḡP°C...CfPIP°PSPSC- PSP° PiP»PsC%Cf PiPsPIPμCḡC...PSC-
C, C-P»P°).

PαP°CḡPjP°PePsPeC-PSPμC, PëPeP°.

PḡPjC-PsPrP°CḡPsPS – CÍPiPsP»CfPeP°, PrP»CÍ CÍPePsC— PIP»P°CÍC, PëPIC-

PiPsPIC-P»CHbPSPµ C,CḡP°PSCÍPiPsCḡC,CrPIP°PSPSCЦ C,P° PIPëCÍPsPeP° C,PeP°PSPëPSPSP° P°C,,C-PSPSC-CÍC,CHb.

P™ PsPiPs P±C-PsPrPsCÍC,CrPiPSC-CÍC,CHb PiCḡPë PiPµCḡPsCḡP°P»CHbPSPsPjCr PiCḡPëPNëPsPjC- P·P°P»PµP¶PSPs PIC-Pr C-PSPPrPëPIC-PrCrP°P»CHbPSPëC... PsCÍPsP±P»PëPIPsCÍC,PµPNë PiP°C†C-C”PSC,P° PjPsP¶Pµ P±CÍC,Pë PIC-Pr 30 % PrPs 80 % (Cr CÍPµCḡPµPrPSCḡPsPjCr бḡ“ 50 %). PµC-CÍP»CЦ PsPrPSPsCḡP°P·PsPIPsPiPs PiCḡPëPNëPsPjCr PrPsP·Pë PiCḡPµPiP°CḡP°C,Cr PjP°PeCÍPëPjP°P»CHbPSC- PePsPSC†PµPSC,CḡP°C†C-C— PI PiP»P°P·PjC- PeCḡPsPIC- PrPsCÍCЦPiP°CḡC,CHbCÍCЦ PiCḡPsC,CЦPiPsPj 3-7 PiPsPrPëPS.

PÿPµCḡP°PiPµPIC,PëC±PSP° P°PeC,PëPIPSC-CÍC,CHb PiCḡPsCЦPIP»CЦC”C,CHbCÍCЦ PI CÍPµCḡPµPrPSCḡPsPjCr PiCḡPsC,CЦPiPsPj PsPrPSPsPiPs C,PëP¶PSCЦ PiCḡPëPNëPsPjCr PiCḡPµPiP°CḡP°C,Cr (PIC-Pr PeC-P»CHbPePsC... PrPSC-PI PrPs PrPIPsC... C,PëP¶PSC-PI).

PµPµCḡC-PsPr PSP°PiC-PIPIPëPIPµPrPµPSPSCЦ P°PjC-PsPrP°CḡPsPSCr C,CḡPëPIP°P»PëPNë C,P° C...P°CḡP°PeC,PµCḡPëP·CrC”C,CHbCÍCЦ P·PSP°C±PSPsCḡ PjC-P¶C-PSPPrPëPIC-PrCrP°P»CHbPSPsCḡ PIP°CḡC-P°P±PµP»CHbPSC-CÍC,Cḡ (PIC-Pr 20 PrPs 100 PrPSC-PI). PµC-Pr C±P°CÍ PiPµCḡCëPëC... PrPSC-PI P»C-PeCÍPIP°PSPSCЦ PiCḡPµPiP°CḡP°C, PeCÍPjCrP»CḡC”C,CHbCÍCЦ Cr P±C-P»CHbCëPsCÍC,C- C,PeP°PSPëPS PsCḡPiP°PSC-P·PjCr, PsCÍPsP±P»PëPIPs Cr P¶PëCḡPsPIC-PNë C,PeP°PSPëPSC-. P·P»C-PjC-PSP°C†C-CЦ CḡPsP·PiPsC±PëPSP°C”C,CHbCÍCЦ C±PµCḡPµP· PeC-P»CHbPeP° PrPSC-PI, C- CÍPiC-PIPIC-PrPSPsCëPµPSPSCЦ PSP°PrC...PsPrP¶PµPSPSCЦ/PIPëPIPµPrPµPSPSCЦ PiCḡPµPiP°CḡP°C,Cr PrPsCÍCЦPiP°C” CḡC-PIPSPsPIP°PiPë PiCḡPsC,CЦPiPsPj PsPrPSPsPiPs P°P±Ps PeC-P»CHbPePsC... PjC-CÍCЦC†C-PI, P·P°P»PµP¶PSPs PIC-Pr PiP°C†C-C”PSC,P°.

PÿP°PeC- C...P°CḡP°PeC,PµCḡPëCÍC,PëPePë PsP±T’CḡCrPSC,PsPICrCḡC,CHb P·P°CÍC,PsCÍCrPIP°PSPSCЦ PSP°PIP°PSC,P°P¶CrPIP°P»CHbPSPëC... PrPsP· PrP»CЦ CëPIPëPrPePsPiPs PrPsCÍCЦPiPSPµPSPSCЦ CḡC-PIPSCЦ P·P°C...PsPiP»PµPSPSCЦ PiCḡPµPiP°CḡP°C,Cr C,PeP°PSPëPSP°PjPë, PSPµPsP±C...C-PrPSPsPiPs PrP»CЦ PiCḡPsCЦPICr PNëPsPiPs C,PµCḡP°PiPµPIC,PëC±PSPsC— P°PeC,PëPIPSPsCÍC,C-.

PḡP°CÍC,PëPSP° PNëPsPrCr PIC-PrPrC-P»CЦC”C,CHbCÍCЦ PIC-Pr CÍPiPsP»CrPePë C,P° PIPëPIPsPrPëC,CHbCÍCЦ C-P· CÍPµC±PµCḡ Cr PIPëPiP»CЦPrC- PNëPsPrPëPrCr; PiCḡPë P·P°CÍC,PsCÍCrPIP°PSPSC- P°PjC-PsPrP°CḡPsPSCr PI PrPsP±PsPIC-PNë PrPsP·C- 200 PjPi PIPëPIPµPrPµPSPSCЦ PNëPsPrCr CÍC,P°PSPsPIPëC,CHb 6 PjPi/24 PiPsPrPëPSPë. P PµCëC,P° CÍPiPsP»CrPePë C-, PIC-PrPiPsPIC-PrPSPs, P±C-P»CHbCëP° C±P°CÍC,PëPSP° PNëPsPrCr PµPeCÍPeCḡPµC,CrCḡC,CHbCÍCЦ P· PeP°P»PsPj PiC-CÍP»CЦ PiPµC±C-PSPePsPIPsPiPs C,CḡP°PSCÍPiPsCḡC,Cr.

PḡCÍPeC-P»CHbPePë C-P· CÍPµC±PµCḡ PµP»C-PjC-PSCrC”C,CHbCÍCЦ PSPµP·PSP°C±PSP° PeC-P»CHbPeC-CÍC,CHb PiCḡPµPiP°CḡP°C,Cr, PiP°C†C-C”PSC,P°Pj C-P· PSPëCḡPePsPIPsCḡ PSPµPrPsCÍC,P°C,PSC-CÍC,Cḡ PjPsP¶PSP° P·P°CÍC,PsCÍPsPICrPIP°C,Pë P·PIPëC±P°PNëPSC- PrPsP·Pë.

PµC-CÍP»CЦ PIC-PrPjC-PSPë PiCḡPµPiP°CḡP°C,Cr PNëPsPiPs PµP»C-PjC-PSP°C†C-CЦ

PiC7PsPrPsPIP¶CfC"C,CHCfCfCf PiC7PsC,CfPiPsPj PeC-P»CHPePsC... PjC-CfCfCfC-PI.
PŸP»C-Pr P·P°P·PSP°CfPëC,Pë, C%Ps P·P°P»PëC€PePsPIP° P°PeC,PëPIPSC-CfC,CH
PiC7PµPiP°C7P°C,Cf PjPsP¶Pµ PIPëCfPIP»CfC,PëCfCfCf PiC7PsC,CfPiPsPj PiPµC7C-PsPrCf
CfP°CfCf PIC-Pr 10 PrPSC-PI PrPs 1 PjC-CfCfCfCfCf.

P7PjC-PsPrP°C7PsPS PiPsP»PsPIPSPëPj CfPëPSPsPj PjPµC,P°P±PsP»C-P·CfC"C,CHCfCfCf P·P°
CfCfP°CfC,C7 C†PëC,PsC...C7PsPjCf CYP3A4, P° C,P°PePsP¶ P·P° CfCfP°CfC,C7
C†PëC,PsC...C7PsPjCf CYP2C8. P7PjC-PsPrP°C7PsPS C,P° P№PsPiPs PjPµC,P°P±PsP»C-C,,
PrPµ·PµC,PëP»P°PjC-PsPrP°C7PsPS, PI CfPjPsPIP°C... *in vitro* C" PiPsC,PµPSC†C-P№PSPëPjPë
C-PSPiC-P±C-C,PsC7P°PjPë C†PëC,PsC...C7PsPjC-PI CYP1A1, CYP1A2, CYP2C9, CYP2C19,
CYP2D6, CYP3A4, CYP2A6, CYP2B6 C,P° CYP2C8. P7PjC-PsPrP°C7PsPS C,P°
PrPµ·PµC,PëP»P°PjC-PsPrP°C7PsPS PjPsP¶CfC,CH C,P°PePsP¶ C-PSPiC-P±CfPIP°C,Pë
C,,CfPSPeC†C-C7 C,C7P°PSCfPiPsC7C,PSPëC... P±C-P»PeC-PI, C,P°PePëC... CfPe P -
PiP»C-PePsPiC7PsC,PµC—PS C,P° PsC7PiP°PSC-CfPSPëP№ PeP°C,C-PsPSPSPëP№
C,C7P°PSCfPiPsC7C,PµC7 2-PiPs C,PëPiCf (OCT2). P Pµ·CfP»CHC,P°C,Pë PsPrPSPsPiPs
PrPsCfP»C-PrP¶PµPSPSCf CfPIC-PrCfP°C,CH PiC7Ps P·P±C-P»CHC€PµPSPSCf
PePsPSC†PµPSC,C7P°C†C-C— PeC7PµP°C,PëPSC-PSCf PSP° 1,1 % (CfCfP±CfC,C7P°C, OCT2).

P"°PSC- PrPsCfP»C-PrP¶PµPSC7 *in vivo* CfPIC-PrCfP°C,CH PiC7Ps PIP·P°C"PjPsPrC-C7
PjC-P¶ P°PjC-PsPrP°C7PsPSPsPj C,P° CfCfP±CfC,C7P°C,P°PjPë CYP3A4, CYP2C9, CYP2D6 C,P°
P -PiP»C-PePsPiC7PsC,PµC—PSCf.

PµPµPrC-P°C,C7PëCfPSP° PiPsPiCfP»CfC†C-CfCf. PŸPµC7PµPr PrC-C,PµP№ PSPµ
PiC7PsPIPsPrPëP»PsCfCH P¶PsPrPSPëC... PePsPSC,C7PsP»CHPsPIP°PSPëC...
PeP»C-PSC-CfPSPëC... PrPsCfP»C-PrP¶PµPSC7. PkP°CfPIPSC- PsP±PjPµP¶PµPSC- PrP°PSC-
PSPµ CfPIC-PrCfP°C,CH PiC7Ps PIC-PrPjC-PSPSC-CfC,CH Cf
C,,P°C7PjP°PePsPeC-PSPµC,PëCfPSPëC... PiP°C7P°PjPµC,C7P°C... PjC-P¶ PrPsC7PsCfP»PëPjPë
C,P° PrC-C,CHPjPë.

P"°PSC- PrPsPeP»C-PSC-CfPSPëC... PrPsCfP»C-PrP¶PµPSC7. P Pµ·CfP»CHC,P°C,Pë 2-
C7C-CfPSPsPiPs PrPsCfP»C-PrP¶PµPSPSCf PeP°PSC†PµC7PsPiPµPSPSPsCfC,C- Cf
C,PIP°C7PëPS PiPsPeP°P·P°P»Pë, C%Ps P°PjC-PsPrP°C7PsPS PiC7PëP·PIPsPrPëC,CH PrPs
P·P±C-P»CHC€PµPSPSCf PeC-P»CHPePsCfC,C- C,,PsP»C-PeCfP»CfC7PSPëC... PiCfC...P»PëPS
C%PëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë (P°PrPµPSPsPj C-/P°P±Ps PeP°C7C†PëPSPsPj) Cf
C,PIP°C7PëPS PsP±PsC... CfC,P°C,PµP№ PiC7Pë PeP»C-PSC-CfPSPs P·PSP°CfCfC%PëC...
PµPeCfPiPsP·PëC†C-CfCf....

PhCfPeC-P»CHPePë C7Pµ·CfP»CHC,P°C,Pë PrPsCfP»C-PrP¶PµPSPSCf
PjCfC,P°PiPµPSPSPsCfC,C- P±CfP»Pë PSPµPiP°C,PëPIPSPëPjPë, C7PsP·PIPëC,PsPe C†CHPsPiPs
C,PëPiCf PiCfC...P»PëPS PiPsCfCfPSC7C"C,CHCfCfCf C€PIPëPrC€Pµ
PµPiC-PiPµPSPµC,PëCfPSPëPj, P° PSPµ PiPµPSPsC,PsPeCfPëCfPSPëPj PjPµC...P°PSC-P·PjPsPj.

P Pµ·CfP»CHC,P°C,Pë PrPsCfP»C-PrP¶PµPSC7 PSP° C,PIP°C7PëPSP°C... PSPµ
CfPIC-PrCfP°C,CH PiC7Ps C7PsP·PIPëC,PsPe P±CfPrCH-CfPePëC... PeP°C7C†PëPSPsPj,
PiC7PsC,Pµ PIC-PrP·PSP°CfP°P»P°CfCH PrPsP·PsP·P°P»PµP¶PSP° C,,PsP»C-PeCfP»CfC7PSP°
PiC-PiPµC7PiP»P°P·C-Cf C%PëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë. P"°PSC- PµC,,PµPeC,Pë PSP°
C%PëC,PsPiPsPrC-P±PSCf P·P°P»PsP·Cf PI C,PIP°C7PëPS, PjPsP¶P»PëPIPs, P±CfP»Pë
P·CfPjPsPIP»PµPSC- PIPiP»PëPIPsPj P°PjC-PsPrP°C7PsPSCf PSP° CfPëPSC,Pµ· C-/P°P±Ps
PIPëPIC-P»CHPSPµPSPSCf C,PëC7PµPsC—PrPSPëC... PiPsC7PjPsPSC-PI. PjC- PrP°PSC-
PjP°C7C,CH PSPëP·CHPeCf P·PSP°CfCfC%C-CfC,CH PrP»Cf P·P°CfC,PsCfCfPIP°PSPSCf
PiC7PµPiP°C7P°C,Cf Cf P»CHPrPµP№.

РъР»С-РSC-С±PSC- С...Р°СЪР°РeС,РµСЪРeСГС,РeРeРe.

РµРsРeР°Р°PSPSCII.

РµСЪРsС,,С-Р»Р°РeС,РeРeР° СЪРµС±РeРrРeРiС-PI:

- СeР»СрPSPsС±РeРsPIPsС— С,Р°С...С-РeР°СЪРrС-С—, СµРeР° СГС,Р°PSPsPIPeС,СЪ Р°Р°PиСЪРsР°Ср РrР»Сµ Р¶РeС,С,Сµ С...PIPсСЪРsPиPs: Р»С-РeСрPIP°PSPSCII PSPµРsР±С...С-РrPSPs PиPsС±РePSP°С,Рe РI СrPjРsPIP°С... СГС,Р°С±С-РsPSP°СЪСр PиСЪРe PSP°СµPIPIPSsСГС,С- РиPsСГС,С-РNеPSPsPиPs РePsPSC,СЪРsР»СЪ Р°Р° СГС,Р°PSPsPj PиР°С±С-С”PSC,Р°;
- СГРeРjРiС,РsPjР°С,РeС±PSPsС— СeР»СрPSPsС±РeРsPIPsС— С,Р°С...С-РeР°СЪРrС-С— (РrРsРeСрPjРµPSC,Р°Р»СЪPSPs PиС-РrС,PIPµСЪРrP¶PµPSPsС—), СµРeР° РиСЪРeР°PиPsPРeС,СЪ РrРs PSPµPиСЪР°С±PµР°PР°С,РSPsСГС,С-;
- СГСрPиСЪР°PIPµPSC,СЪРeРeСрP»СµСЪРPSPsС— С,Р°С...С-РeР°СЪРrС-С— (РrРsРeСрPjРµPSC,Р°Р»СЪPSPs PиС-РrС,PIPµСЪРrP¶PµPSPsС—), С%°Ps PиPsС,СЪРµP±СrС” Р»С-РeСрPIP°PSPSCII, С,Р° Сr С,РeС... PIPePиР°PРeР°С..., РePsP»Рe С-PSCeС- PиСЪРµPиР°СЪР°С,Рe PSPµ PIPeСµPIP»СµСЪС,СЪ С,РµСЪР°PиPµPIC,РeС±PSPsPиPs РµC,,PµРeС,Ср Р°Р±Ps PиСЪРsС,РePиPsРeР°Р°P°P°PSC-;
- С,,С-Р±СЪРeР»СµС±С-С— СeР»СрPSPsС±РeС-PI.

Р»С-РeСрPIP°PSPSCII СГСрPиСЪР°PIPµPSC,СЪРeРeСрP»СµСЪРPSPsС— С,Р°С...С-РeР°СЪРrС-С—: СрPиPsPIC-Р»СЪPSPµPSPSCII Р°Р±Ps Р°PjРµPSCeРµPµPSPSCII С,,С-Р±СЪРeР»СµС±С-С— Р°Р±Ps С,СЪС-РиPsС,С-PSPSCII PиPµСЪРµPРrСГРµСЪРrСЪ.

Р±СeРµPµPjС-С±PSP° С...PIPсСЪРsР±Р° СГРµСЪС±Сµ С,Р°/Р°Р±Ps PиPsСЪСрeРµPµPSPSCII С,,СрPSPeС±С-С— Р»С-PIPсPиPs СeР»СрPSPsС±РeР° (РrРePI. СЪРsР°PРrС-Р» В«Р°Р°СЪРjР°РePsPРePSP°PjС-РeР°В»).

РµСЪРsС,РePиPsРeР°Р°PSPSCII.

РŸРePSCрСГРsPIP° Р±СЪР°PРeP°СЪРrС-Сµ, СГРePSPsР°С,СЪС-Р°Р»СЪPSP° Р±Р»PsРeР°PР° СГРµСЪС±Сµ, Р°Р° PIPePSCµC,РePsPj PIPePиР°PРeС-PI PSP°СµPIPIPSsСГС,С- С-РjPиP»Р°PSC,PsPIP°PSPsPиPs РeР°СЪРrС-РsСГС,РePjСрP»СµC,PsСЪР°.

РŸРePSPРrСЪРsPj СГР»Р°Р±РePsСГС,С- СГРePSCрСГРsPIPсPиPs PICрP»Р° (СЪРeР°Pе Р°СрPиPеPSPePе СГРePSCрСГРsPIPсPиPs PICрP»Р°), Р°Р° PIPePSCµC,РePsPj PIPePиР°PРeС-PI PSP°СµPIPIPSsСГС,С- С-РjPиP»Р°PSC,PsPIP°PSPsPиPs РeР°СЪРrС-РsСГС,РePjСрP»СµC,PsСЪР°.

РŸСµP¶PеС- PиPsСЪСрeРµPµPSPSCII Р°С,СЪС-РsPIPµPSC,СЪРeРeСрP»СµСЪРPSPsС— PиСЪРsPIC-РrPSPsСГС,С-, Р°Р° PIPePSCµC,РePsPj PIPePиР°PРeС-PI PSP°СµPIPIPSsСГС,С- С-РjPиP»Р°PSC,PsPIP°PSPsPиPs РeР°СЪРrС-РsСГС,РePjСрP»СµC,PsСЪР°.

Р”С-РиPµСЪС,РeСЪРµPsP°, С±PµСЪРµP° РjPsP¶P»PеPIPµ Р°Р°PиPsСГС,СЪРµPµPSPSCII PиСЪРe PиСЪРePµPsPjС- Р°PjС-РsPР°СЪРsPSCр.

P'C-PrPsPjP° PiC-PiPμCḡC±CfC,P»PëPIC-CfC,Ch PrPs PNëPsPrCr, P°PjC-PsPrP°CḡPsPSCf P°P±Ps PrPs PsPrPSC-C"C— P· PrPsPiPsPjC-P¶PSPëC... CḡPμC±PsPIPëPS.

P"CḡCfPiPëPNë C,P° C,CḡPμC,C-PNëB C,CḡPëPjPμCfC,CḡPë PIP°PiC-C,PSPScfC,C-.

PμPμCḡC-PsPr P»P°PeC,P°CfC-C—.

PḡPsPjP±C-PSP°CfC-C¶ P· PiCḡPμPiP°CḡP°C,P°PjPë, P·PrP°C,PSPëPjPë PIPëPeP»PëPeP°C,Pë PiP°CḡPsPeCfPëP·PjP°P»CHPSCf CëP»CfPSPSc±PePsPICf C,P°C...C-PeP°CḡPrC-Cḡ C,PëPiCf B«torsades de pointesB» (P·P° PIPëPSC¶C,PePsPj PiCḡPsC,PëPiP°CḡP°P·PëC,P°CḡPSPëC... P·P°CfPsP±C-PI, PSPμPNëCḡPsP»PμPiC,PëPeC-PI C,P° PjPμC,P°PrPsPSCf):

-B B B P°PSC,PëP°CḡPëC,PjC-C±PSC- P·P°CfPsP±Pë Ia PeP»P°CfCf (C...C-PSC-PrPëPS, PiC-PrCḡPsC...C-PSC-PrPëPS, PrPëP·PsPiC-CḡP°PjC-Pr);

-B B B P°PSC,PëP°CḡPëC,PjC-C±PSC- P·P°CfPsP±Pë III PeP»P°CfCf (CfPsC,P°P»PsP», PrPsC,,PμC,PëP»C-Pr, C-P±CfC,PëP»C-Pr);

-B B B C-PSCëC- P»C-PeP°CḡCfCHPeC- P·P°CfPsP±Pë, C,P°PeC- C¶Pe CfPiPsP»CfPePë PjPëCëBḡ™ C¶PeCf, P±PμPiCḡPëPrPëP», CfPëP·P°PiCḡPëPr, CfPëC,P°P»PsPiCḡP°Pj, PμCfCfPëC,P°P»PsPiCḡP°Pj, PrPëC,,PμPjP°PSC-P», PrPsP»P°CfPμC,CḡPsPS PI/PI, PrPsPjPiPμCḡPëPrPsPS, PrCḡPsPSPμPrP°CḡPsPS, PμCḡPëC,CḡPsPjC-CfPëPS PI/PI, P»PμPIPSc,,P»PsPeCfP°CfPëPS, PjPμC...C-C,P°P·PëPS, PjC-P·PsP»P°CfC,PëPS, PjPsPeCfPëC,,P»PsPeCfP°CfPëPS, PiCḡCfPeP°P»PsPiCḡPëPr, CfPiC-CḡP°PjC-CfPëPS PI/PI, C,PsCḡPμPjC-C,,PμPS, PIC-PSPeP°PjC-PS PI/PI (PrPëPI. CḡPsP·PrC-P» B«P·P°C"PjPsPrC-C¶ P·C-PSCëPëPjPë P»C-PeP°CḡCfCHPePëPjPë P·P°CfPsP±P°PjPë C,P° C-PSCëC- PIPëPrPë PIP·P°C"PjPsPrC-PNëB»);

-B B B C,PμP»P°PiCḡPμPIC-Cḡ;

-B B B PePsP±C-CfPëCfC,P°C,.

P·P·P°C"PjPsPrC-C¶ P· C-PSCëPëPjPë P»C-PeP°CḡCfCHPePëPjPë P·P°CfPsP±P°PjPë C,P° C-PSCëC- PIPëPrPë PIP·P°C"PjPsPrC-PNë.

PḡPSC,PëP°CḡPëC,PjC-C±PSC- PiCḡPμPiP°CḡP°C,Pë.

P°PiP°C,Ps P°PSC,PëP°CḡPëC,PjC-C±PSPëC... PiCḡPμPiP°CḡP°C,C-PI PiCḡPëPiPSC-C±CfCḡC,Ch CfPμCḡCfPμPIPëPNë P°PIC,PsPjP°C,PëP·Pj, PiCḡPsPIC-PrPSC-CfC,Ch C,P° CfPePsCḡPsC,P»PëPIC-CfC,Ch PjC-PsPeP°CḡPrP°.

PḡPrPSPSc±P°CfPSPμ P·P°CfC,PsCfCfPIP°PSPSC¶ P°PSC,PëP°CḡPëC,PjC-C±PSPëC... P·P°CfPsP±C-PI, C¶PeC- PSP°P»PμP¶P°C,Ch PrPs CḡC-P·PSPëC... PeP»P°CfC-PI, PjPsP¶Pμ P±CfC,Pë PePsCḡPëCfPSPëPj, P°P»Pμ PSP°PNëC±P°CfC,C-CëPμ P»C-PeCfPIP°PSPSC¶ C,P°PePsCḡ PePsPjP±C-PSP°CfC-C"Cḡ PiPsC,CḡPμP±CfC" CḡPμC,PμP»CHPSPSiPs PeP»C-PSC-C±PSPSiPs C,P° P·PḡP" PjPsPSC-C,PsCḡCfPIP°PSPSC¶. PḡPrPSPSc±P°CfPSPμ P·P°CfC,PsCfCfPIP°PSPSC¶ P°PSC,PëP°CḡPëC,PjC-C±PSPëC... P·P°CfPsP±C-PI, C¶PeC- PjPsP¶CfC,Ch C-PSPPrCfPeCfPIP°C,Pë PIPëPSPëPePSPμPSPSC¶ B«torsades de pointesB» (C,P°PePëC... C¶Pe P°PjC-PsPrP°CḡPsPS, PrPëP·PsPiC-CḡP°PjC-Pr, C...C-PSC-PrPëPSPSiC-CfPiPsP»CfPePë, CfPsC,P°P»PsP» C,P° C-PSCëC-), PiCḡPsC,PëPiPsPeP°P·P°PSPμ.

PhPrPSPsC±P°CÍPSPµ P·P°CÍC,PsCÍCfPIP°PSPSCÍ P°PSC,PëP°CĤPëC,PjC-C±PSPëC...
P·P°CÍPs±C-PI PsPrPSPsPiPs C- C,PsPiPs P¶ PeP»P°CÍCf PSPµ CĤPµPePsPjPµPSPPrPsPIP°PSPµ,
PsPeCĤC-Pj PIPëPSCÍC,PePsPIPëC... PIPëPiP°PrPeC-PI, PsCÍPeC-P»CHPePë C,P°PePµ
P»C-PeCfPIP°PSPSCÍ P·P±C-P»CHCëCfC” CĤPëP·PëPe PIPëPSPëPePSPµPSPSCÍ
PeP°CĤPrC-P°P»CHPSPëC... PiPsP±C-C±PSPëC... PµC,,PµPeC,C-PI.

PhPrPSPsC±P°CÍPSPµ P·P°CÍC,PsCÍCfPIP°PSPSCÍ P°PjC-PsPrP°CĤPsPSCf P·
P»C-PeP°CĤCÍCHPePëPjPë P·P°CÍPs±P°PjPë, CÍPeC- C±PëPSCÍC,CH PSPµPiP°C,PëPIPSCf
C-PSPsC,CĤPsPiPSCf PrC-CĤ, CÍPíCĤPëCÍC” P±CĤP°PrPëPeP°CĤPrC-C— C,P°/P°P±Ps
CfPiPsPIC-P»CHPSCĤC” P°C,CĤC-PsPIPµPSC,CĤPëPeCfP»CÍCĤPSCf
PiCĤPsPIC-PrPSC-CÍC,CH, C,PsPjCf PiPsC,CĤPµP±CfC” CĤPµC,PµP»CHPSPsPiPs
PeP»C-PSC-C±PSPsPiPs C,P° P·PµP” PjPsPSC-C,PsCĤCfPIP°PSPSCÍ.

P>C-PeP°CĤCÍCHPeC- P·P°CÍPs±Pë, C%Ps PjPsP¶CfC,CH C-PSPPrCfPeCfPIP°C,Pë
CĤPsP·PIPëC,PsPe B«torsades de pointesB».

PjCÍ CÍPµCĤPµPµPsP·PSP° P°CĤPëC,PjC-CÍ PjPsP¶Pµ P±CfC,Pë C-PSPPrCfPePsPIP°PSP°
PrPµCÍPePëPjPë P»C-PeP°CĤCÍCHPePëPjPë P·P°CÍPs±P°PjPë, PSPµP·P°P»PµP¶PSPs PIC-Pr
C,PsPiPs, C±Pë PSP°P»PµP¶P°C,CH PIPsPSPë PrPs P°PSC,PëP°CĤPëC,PjC-C±PSPëC...
PiCĤPµPiP°CĤP°C,C-PI, C±Pë PSC-. PÿPiCĤPëCÍC,P»PëPIPëPjPë C,,P°PeC,PsCĤP°PjPë C”
PiC-PiPsPeP°P»C-C”PjC-CÍ (PrPëPI. PiC-PrCĤPsP·PrC-P» B«PµCĤPµPiP°CĤP°C,Pë, C%Ps
P·PSPëP¶CfCĤC,CH PIPjC-CÍC, PeP°P»C-CĤB»), P±CĤP°PrPëPeP°CĤPrC-CÍ (PrPëPI.
PiC-PrCĤPsP·PrC-P» B«PµCĤPµPiP°CĤP°C,Pë, C%Ps CfPiPsPIC-P»CHPSCĤCĤC,CH
CÍPµCĤCfPµPIPëPµ CĤPëC,PjB») P°P±Ps PICĤPsPrP¶PµPSPµ C±Pë PSP°P±CfC,Pµ
PiPsPiPµCĤPµPrPSCĤPs C-CÍPSCfCĤCfPµ PiPsPrPsPIP¶PµPSPSCÍ C-PSC,PµCĤPIP°P»Cf QT.

P”Ps P»C-PeP°CĤCÍCHPePëC... P·P°CÍPs±C-PI, CÍPeC- PjPsP¶CfC,CH
PsP±CfPjPsPIP»CĤPIP°C,Pë CĤPsP·PIPëC,PsPe B«torsades de pointesB», PSP°P»PµP¶P°C,CH,
P·PsPeCĤPµPjP°, P°PSC,PëP°CĤPëC,PjC-C±PSC- PiCĤPµPiP°CĤP°C,Pë Ia C- III PeP»P°CÍC-PI C,P°
PrPµCÍPeC- PSPµPµCĤPsP»PµPiC,PëPePë. P”P»CÍ PrPsP»P°CÍPµC,CĤPsPSCf,
PµCĤPëC,CĤPsPjC-CfPëPSCf, CÍPíC-CĤP°PjC-CfPëPSCf C,P° PIC-PSPeP°PjC-PSCf C,P°PeP°
PIP·P°C”PjPsPrC-CÍ PIPëPSPëPeP°C” C,C-P»CHPePë PiCĤPë P·P°CÍC,PsCÍCfPIP°PSPSC-
P»C-PeP°CĤCÍCHPePëC... C,,PsCĤPj PrP»CÍ PIPSCfC,CĤC-CëPSCĤPsPIPµPSPSPsPiPs
PIPIPµPrPµPSPSCÍ.

PhPrPSPsC±P°CÍPSPµ P·P°CÍC,PsCÍCfPIP°PSPSCÍ PrPIPsC... P»C-PeP°CĤCÍCHPePëC...
P·P°CÍPs±C-PI, PePsP¶PµPS P· CÍPePëC... C” PiCĤPµPiP°CĤP°C,PsPj, C%Ps CÍPíCĤPëCÍC”
PIPëPSPëPePSPµPSPSCĤ B«torsades de pointesB», P·P°P·PIPëC±P°Pµ
PiCĤPsC,PëPiPsPeP°P·P°PSPµ.

PµCĤPsC,Pµ PjPµC,P°PrPsPS, PiCĤPsC,PëPiP°CĤP°P·PëC,P°CĤPSC- PiCĤPµPiP°CĤP°C,Pë
(PiP°P»PsC,,P°PSC,CĤPëPS, P»CĤPjPµC,,P°PSC,CĤPëPS, PiPµPSC,P°PjC-PrPëPS) C,P°
PSPµPµCĤPsP»PµPiC,PëPePë, P·P°CÍC,PsCÍCfPIP°PSPSCÍ CÍPePëC... PIPIP°P¶P°C,C,CHCÍCÍ
P°P±CÍPsP»CĤC,PSPs PSPµPs±C...C-PrPSPëPj, PSPµ PiCĤPsC,PëPiPsPeP°P·P°PSC-, P°P»Pµ
PSPµ CĤPµPePsPjPµPSPPrCfCĤC,CHCÍCÍ PrPs P·P°CÍC,PsCÍCfPIP°PSPSCÍ
PsPrPSPsC±P°CÍPSPs P· C-PSCëPëPjPë P·P°CÍPs±P°PjPë, C%Ps CÍPíCĤPëCÍCĤC,CH
PIPëPSPëPePSPµPSPSCĤ B«torsades de pointesB».

PµCĤPµPiP°CĤP°C,Pë, C%Ps CfPiPsPIC-P»CHPSCĤCĤC,CH CÍPµCĤCfPµPIPëPµ CĤPëC,Pj.

P°PiP°C,Ps P»C-PeP°CĤCÍCHPePëC... P·P°CÍPs±C-PI PjPsP¶CfC,CH
PsP±CfPjPsPIP»CĤPIP°C,Pë P±CĤP°PrPëPeP°CĤPrC-CĤ, P·PsPeCĤPµPjP°,

P°PSC, PëP°CḡPëC, PjC-CḡPSC- PiCḡPµPiP°CḡP°C, Pë Ia PeP»P°CÍCí, P±PµC, P°-
P±P»PsPeP°C, PsCḡPë, PrPµCḡPeC- P°PSC, PëP°CḡPëC, PjC-CḡPSC- PiCḡPµPiP°CḡP°C, Pë III
PeP»P°CÍCí, PrPµCḡPeC- P±P»PsPeP°C, PsCḡPë PeP°P»CḡC†C-C”PIPëC... PeP°PSP°P»C-PI,
PiCḡPµPiP°CḡP°C, Pë PSP°PiPµCḡCÍC, CḡPSPePë, PiC-P»PsPeP°CḡPiC-PS C, P°
P°PSC, PëC...PsP»C-PSPµCÍC, PµCḡP°P·PSC- PiCḡPµPiP°CḡP°C, Pë.

P·C,, PµPeC, Pë P°PjC-PsPrP°CḡPsPSCí PSP° C-PSC€C- P»C-PeP°CḡCÍCḡPeC- P·P°CÍPsP±Pë.

PḡPjC-PsPrP°CḡPsPS C-/P°P±Ps PNePsPiPs PjPµC, P°P±PsP»C-C,,
PrPµ·PµC, PëP»P°PjC-PsPrP°CḡPsPS, C-PSPiC-P±CíCḡC, Cḡ CYP1A1, CYP1A2, CYP3A4, CYP2C9,
CYP2D6 C, P° P-PiP»C-PePsPiCḡPsC, PµC-PS C, P° PjPsP¶CíC, Cḡ P·P±C-P»CḡC€CíPIP°C, Pë
PµPeCÍPiPsP·PëC†C-Cḡ C-C...PSC-C... CÍCíP±CÍC, CḡP°C, C-PI. P’CḡP°C...PsPICíCḡCḡPë
PrPsPiPíC C, CḡPëPIP°P»C-CÍC, Cḡ PµC,, PµPeC, Cí P°PjC-PsPrP°CḡPsPSCí, C, P°PeC-
PIP·P°C”PjPsPrC-C— PjPsP¶CíC, Cḡ CÍPiPsCÍC, PµCḡC-PiP°C, PëCÍCḡ PiPiCḡPsPrPsPIP¶
PeC-P»CḡPePsC... PjC-CÍCḡC†C-PI PiC-CÍP»Cḡ PiCḡPëPiPëPSPµPSPSCḡ P»C-PeCíPIP°PSPSCḡ
P°PjC-PsPrP°CḡPsPSPj.

P·C,, PµPeC, Pë C-PSC€PëC... P»C-PeP°CḡCÍCḡPePëC... P·P°CÍPsP±C-PI PSP°
P°PjC-PsPrP°CḡPsPS.

P†PSPiC-P±C-C, PsCḡPë CYP3A4 C, P° CYP2C8 PiPsC, PµPSC†C-PNePSPs PjPsP¶CíC, Cḡ
PiCḡPëPiPSC-CḡCíPIP°C, Pë PjPµC, P°P±PsP»C-P·Pj P°PjC-PsPrP°CḡPsPSCí C-, C, P°PePëPj
CḡPëPSPsPj, P·P±C-P»CḡC€CíPIP°C, Pë PNePsPiPs PµPeCÍPiPsP·PëC†C-Cḡ.

P†PSPiC-P±C-C, PsCḡPë CYP3A4 (PSP°PiCḡPëPeP»P°Pr, PiCḡPµPNePiC,, CḡCíC, PsPIPëPNe CÍC-Pe
C, P° PrPµCḡPeC- P»C-PeP°CḡCÍCḡPeC- P·P°CÍPsP±Pë), CḡPe PiCḡP°PIPëP»Ps, PSPµ CÍP»C-Pr
P·P°CÍC, PsCÍPsPICíPIP°C, Pë PiC-Pr CḡP°CÍ P»C-PeCíPIP°PSPSCḡ P°PjC-PsPrP°CḡPsPSPsPj.

PµCḡPsC, PëPiPsPeP°P·P°PSC- PePsPjP±C-PSP°C†C-C— (PrPëPI. CḡPsP·PrC-P»
B«PµCḡPsC, PëPiPsPeP°P·P°PSPSCḡB»).

P»C-PeP°CḡCÍCḡPeC- P·P°CÍPsP±Pë, CḡPeC- PjPsP¶CíC, Cḡ C-PSP†CíPeCíPIP°C, Pë
PIPëPSPëPePSPµPSPSCḡ B«torsades de pointesB» (P·P° PIPëPSCḡC, PePsPj
PiCḡPsC, PëPiP°CḡP°P·PëC, P°CḡPSPëC... PiCḡPµPiP°CḡP°C, C-PI, PSPµPNeCḡPsP»PµPiC, PëPeC-PI
C, P° PjPµC, P°PrPsPSCí; PrPëPI. PiC-PrCḡPsP·PrC-P» B«PµCḡPsP·PrC-P» B«PµCḡPsP·PrC-P»
PePsPjP±C-PSP°C†C-C—B»):

- P°PSC, PëP°CḡPëC, PjC-CḡPSC- P·P°CÍPsP±Pë Ia PeP»P°CÍCí (C...C-PSC-PrPëPS,
PiC-PrCḡPsC...C-PSC-PrPëPS, PrPëP·PsPiC-CḡP°PjC-Pr);

- P°PSC, PëP°CḡPëC, PjC-CḡPSC- P·P°CÍPsP±Pë III PeP»P°CÍCí (PrPsC,, PµC, PëP»C-Pr,
C-P±CḡC, PëP»C-Pr, CÍPsC, P°P»PsP»);

- C-PSC€C- P»C-PeP°CḡCÍCḡPeC- P·P°CÍPsP±Pë, C, P°PeC- CḡPe: CÍPiPsP»CḡPePë
PjPëC€eḡ™ CḡPeCḡ, P±PµPiCḡPëPrPëP», C†PëP·P°PiCḡPëPr, C†PëC, P°P»PsPiCḡP°Pj,
PµCÍC†PëC, P°P»PsPiCḡP°Pj, PrPëC,, PµPjP°PSC-P», PrPsP»P°CÍPµC, CḡPsPS PI/PI,
PrPsPjPiPµCḡPëPrPsPS, PrCḡPsPSPµPrP°CḡPsPS, PµCḡPëC, CḡPsPjC-C†PëPS PI/PI,
P»PµPIPSc,, P»PsPeCÍP°C†PëPS, PjPµC...C-C, P°P·PëPS, PjC-P·PsP»P°CÍC, PëPS, PIC-PSPeP°PjC-PS
PI/PI, PjPsPeCÍPëC,, P»PsPeCÍP°C†PëPS, PiCḡCḡPeP°P»PsPiCḡPëPr, CÍPiC-CḡP°PjC-C†PëPS PI/PI,
C, PsCḡPµPjC-C,, PµPS.

P—P±C-P»CḡC€PµPSPSCḡ CḡPëP·PëPeCí CḡPsP·PIPëC, PeCí C€P»CíPSPsCḡPePsPIPëC...

P°CḡPëC,PjC-PM, PsCÍPsP±P»PëPIPs B«torsades de pointesB».

PÿPµP»P°PíCḡPµPIC-Cḡ. P PsP·P»P°PrPë P°PIC,PsPjP°C,PëP·PjCí C,P°
PíCḡPsPIC-PrPSPsCÍC,C- PeP°CḡPrC-PsPjC-PsC†PëC,C-PI C-P· CḡPëP·PëPePsPj
PIPëPSPëPePSPµPSPSCÍ PSP°PrPjC-CḡPSPsC— P±CḡP°PrPëPeP°CḡPrC-C—.

PµPsP±C-C†PëCÍC,P°C,. P,, CḡPëP·PëPe P·P±C-P»CHC€PµPSPSCÍ C†P°CÍC,PsC,Pë
P°PjC-PsPrP°CḡPsPS-C-PSPrC†PePsPIP°PSPëC... PíPsP±C-C†PSPëC... PµC,,PµPeC,C-PI
PIPSP°CÍP»C-PrPsPe P·PSPëP¶PµPSPSCÍ PjPµC,P°P±PsP»C-P·PjCí.

PkPµ CḡPµPePsPjPµPSPPrPsPIP°PSC- PePsPjP±C-PSP°C†C-C— (PrPëPI. CḡPsP·PrC-P»
B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍC†PIP°PSPSCÍB»).

PÿPsC,,PsCÍP±C¿PIC-Cḡ. PhPrPSPsC†P°CÍPSPµ P·P°CÍC,PsCÍC†PIP°PSPSCÍ
P°PjC-PsPrP°CḡPsPSCí P· P»C-PeP°CḡCÍCHPePëPjPë P·P°CÍPsP±P°PjPë, CÍPeC-
PjC-CÍC,CÍC,CH CÍPsC,,PsCÍP±C†PIC-Cḡ, PjPsP¶Pµ CÍPíCḡPëC†PëPSPëC,Pë
C,CÍP¶PeCí CÍPëPjPíC,PsPjP°C,PëC†PSCí P±CḡP°PrPëPeP°CḡPrC-Cḡ. PÿP»C-Pr
P·P°CÍC,PsCÍPsPIC†PIP°C,Pë P»PëC€Pµ B Cí CḡP°P·C- PIC-PrCÍC†C,PSPsCÍC,C-
P°P»CHC,PµCḡPSP°C,PëPIPsPëC... PjPµC,PsPrC-PI P»C-PeC†PIP°PSPSCÍ.
P PµC,PµP»CHPSPëPM PjPsPSC-C,PsCḡPëPSPi CḡPµPePsPjPµPSPPrPsPIP°PSPëPM PíCḡPë
PsPrPSPsC†P°CÍPSPsPjCí P·P°CÍC,PsCÍC†PIP°PSPSC- C†PëC...
P»C-PeP°CḡCÍCHPePëC... P·P°CÍPsP±C-PI (PrPëPI. CḡPsP·PrC-P»
B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍC†PIP°PSPSCÍB»).

PÿC¿P±CÍC,CḡP°C,Pë CYP3A4. PhPjC-PsPrP°CḡPsPS C” C-PSPiC-P±C-C,PsCḡPsPj CYP3A4 C,P°
PíC-PrPIPëC%óC†C” PePsPSC†PµPSC,CḡP°C†C-C— CÍC†P±CÍC,CḡP°C,C-PI CYP3A4 PI
PíP»P°P·PjC- PeCḡPsPIC-, C%óPs PíCḡPëP·PIPsPrPëC,CH PrPs PíPsC,PµPSC†C-PM PSPsPiPs
P·P±C-P»CHC€PµPSPSCÍ C,PsPeCÍPëC†PSPsCÍC,C- C†PëC... CÍC†P±CÍC,CḡP°C,C-PI.

PíPëPeP»PsCÍPíPsCḡPëPS. P—P±C-P»CHC€PµPSPSCÍ CÍPëCḡPsPIP°C,PePsPIPëC...
PePsPSC†PµPSC,CḡP°C†C-PM C†PëPeP»PsCÍPíPsCḡPëPSCí C†PµCḡPµP· P·PSPëP¶PµPSPSCÍ
PM PsPiPs PjPµC,P°P±PsP»C-P·PjCí PI PíPµC†C-PSC†C-, C-P· CḡPëP·PëPePsPj PíCḡPsCÍPICí
PSPµC,,CḡPsC,PsPeCÍPëC†PSPëC... PµC,,PµPeC,C-PI.

PµC-Pr C†P°CÍ P»C-PeC†PIP°PSPSCÍ P°PjC-PsPrP°CḡPsPSPsPj CÍP»C-Pr PíCḡPsPIPsPrPëC,Pë
PeC-P»CHPeC-CÍPSPµ PIPëP·PSP°C†PµPSPSCÍ PePsPSC†PµPSC,CḡP°C†C-PM
C†PëPeP»PsCÍPíPsCḡPëPSCí PI PeCḡPsPIC-, PjPsPSC-C,PsCḡC†PIP°PSPSCÍ PSPëCḡPePsPIPsC—
C,,C†PSPeC†C-C— C,P° PePsCḡPëPíC†PIP°PSPSCÍ PrPsP·Pë C†PëPeP»PsCÍPíPsCḡPëPSCí.

P”PëP»C,C-P°P·PµPj PrP»CÍ C-PSëḡ™ C”PeC†C-PM. P PëP·PëPe CḡPsP·PIPëC,PeCí
P±CḡP°PrPëPeP°CḡPrC-C— C,P° P°C,CḡC-PsPIPµPSC,CḡPëPeC†P»CÍCḡPSPsC—
P±P»PsPeP°PrPë.

PíPeC%óPs P·P°CÍC,PsCÍC†PIP°PSPSCÍ C†C-C”C— PePsPjP±C-PSP°C†C-C— C†PSPëPePSCíC,Pë
PSPµ PjPsP¶PSP°, CÍP»C-Pr P·PrC-PM CÍPSCḡPIP°C,Pë CḡPµC,PµP»CHPSPëPM
PeP»C-PSC-C†PSPëPM PSP°PiP»CÍPr C,P° P±PµP·PíPµCḡPµCḡPIPSPµ
PjPsPSC-C,PsCḡC†PIP°PSPSCÍ P·PµP”.

PµC-PSPiPsP»C-PjPsPr. PµPsC,PµPSC†C-CḡPIP°PSPSCÍ C-PSPrC†PePsPIP°PSPëC...
P±CḡP°PrPëPeP°CḡPrC-C”Cḡ PµC,,PµPeC,C-PI, PjPsP¶P»PëPIPs P· P»PµC,P°P»CHPSPëPj
PSP°CÍP»C-PrPePsPj. PhCÍPsP±P»PëPIPs C†Pµ P°PeC,C†P°P»CHPSPs PrP»CÍ P±PµC,P°-

P±P»PsPeP°C,PsCḥC-PI, CḥPeC- C-PSPiC-P±CfCḥC,CH PjPμC...P°PSC-P·PjPë
P°PrCḥPμPSPμCḥPiC-C±PSPsC— PePsPjPīPμPSCfP°C†C-C—. PμC-CfP»Cḥ
P·P°CfC,PsCfCfPīP°PSPSCḥ PīPμCḥCēPsC— PrPsP·Pë PīCḥPμPīP°CḥP°C,Cf PīPsPīPëPSPμPS
P·PrC-PNēCfPSCḥPīP°C,PëCfCḥ PeP»C-PSC-C±PSPëPNē PSP°PiP»CḥPr C,P°
P±PμP·PīPμCḥPμCḥPīPSPëPNē PjPsPSC-C,PsCḥPëPSPi P·PḥP” PīPīCḥPsPrPsPīP¶ 24 PīPsPrPëPS.

P’PμCḥP°PīP°PjC-P» PrP»Cḥ C-PSḥḥ™ C”PeC†C-PNē. P PëP·PëPe CḥPsP·PīPëC,PeCf
P±CḥP°PrPëPeP°CḥPrC-C— C,P° P°C,CḥC-PsPīPμPSC,CḥPëPeCfP»CḥCḥPSPsC—
P±P»PsPeP°PrPë.

PīPeC%Ps P·P°CfC,PsCfCfPīP°PSPSCḥ C†C-C”C— PePsPjP±C-PSP°C†C-C— CfPSPëPePSCfC,Pë
PSPμ PjPsP¶PSP°, PSP°PrP·PīPëC±P°PNēPSPs PIP°P¶P»PëPīPs P·PrC-PNēCfPSCḥPīP°C,Pë
CḥPμC,PμP»CHPSPëPNē PeP»C-PSC-C±PSPëPNē PSP°PiP»CḥPr C,P° P±PμP·PīPμCḥPμCḥPīPSPμ
PjPsPSC-C,PsCḥCfPīP°PSPSCḥ P·PḥP”.

PμCḥPsC,PëPīP°CḥP°P·PëC,P°CḥPSC- PīCḥPμPīP°CḥP°C,Pë, CḥPeC- PjPsP¶CáC,CH
C-PSPPrCáPeCáPīP°C,Pë B«torsades de pointesB» (PīP°P»PsC,,P°PSC,CḥPëPS,
P»CḥPjPμC,,P°PSC,CḥPëPS, PīPμPSC,P°PjC-PrPëPS). P—P±C-P»CHCēPμPSPSCḥ CḥPëP·PëPeCf
CḥPsP·PīPëC,PeCf CēP»CfPSPsC±PePsPīPëC... P°CḥPëC,PjC-PNē, PsCfPsP±P»PëPīPs B«torsades
de pointesB». PīPeC%Ps PjPsP¶P»PëPīPs, CfP»C-Pr PīC-PrPjC-PSPëC,Pë PsPrPëPS C-P·
PrPīPsC... PīCḥPμPīP°CḥP°C,C-PI. PīPeC%Ps P·P°CfC,PsCfCfPīP°PSPSCḥ C†C-C”C—
PePsPjP±C-PSP°C†C-C— CfPSPëPePSCfC,Pë PSPμ PjPsP¶PSP°, PSP°PrP·PīPëC±P°PNēPSPs
PīP°P¶P»PëPīPs PīPëPePsPSP°C,Pë PīPsPīPμCḥPμPrPSCḥ PsC†C-PSPeCf C-PSC,PμCḥPīP°P»Cf
QT C,P° P·PrC-PNēCfPSPμPSPSCḥ PjPsPSC-C,PsCḥCfPīP°PSPSCḥ P·PḥP”.

PkPμPNēCḥPsP»PμPīC,PëPePë, CḥPeC- PjPsP¶CáC,CH C-PSPPrCáPeCáPīP°C,Pë B«torsades de
pointesB» (P°PjC-CfCáP»CHPīCḥPëPr, C...P»PsCḥPīCḥPsPjP°P·PëPS, C†C-P°PjPμPjP°P·PëPS,
PrCḥPsPīPμCḥPëPrPsP», C,,P»CáPīPμPSC,PëPeCfPsP», C,,P»CáC,,PμPSP°P·PëPS,
PīP°P»PsPīPμCḥPëPrPsP», P»PμPīPsPjPμPīCḥPsPjP°P·PëPS, PīC-PjPsP·PëPr,
PīC-PīP°PjPīPμCḥPsPS, PīC-PīPsC,C-P°P·PëPS, CfPμCḥC,PëPSPPrPsP», CfCáP»CHPīC-CḥPëPr,
CfCáP»CHC,PsPīCḥPëPr, C,C-P°PīCḥPëPr, P·CáPeP»PsPīPμPSC,PëPeCfPsP»).

P—P±C-P»CHCēPμPSPSCḥ CḥPëP·PëPeCf CḥPsP·PīPëC,PeCf CēP»CfPSPsC±PePsPīPëC...
P°CḥPëC,PjC-PNē, PsCfPsP±P»PëPīPs torsades de pointes.

PḥPμC,P°PrPsPS. P—P±C-P»CHCēPμPSPSCḥ CḥPëP·PëPeCf CḥPsP·PīPëC,PeCf
CēP»CfPSPsC±PePsPīPëC... P°CḥPëC,PjC-PNē, PsCfPsP±P»PëPīPs torsades de pointes.

PαC,PsCḥC...C-PSPsP»PsPSPë, P·P° PīPëPSCḥC,PePsPj P»PμPīPsC,,P»PsPeCfP°C†PëPSCf C,P°
PjPsPeCfPëC,,P»PsPeCfP°C†PëPSCf (PīCḥPsC,PëPīPsPeP°P·P°PSC- PePsPjP±C-PSP°C†C-C—).
P—P±C-P»CHCēPμPSPSCḥ CḥPëP·PëPeCf CḥPsP·PīPëC,PeCf CēP»CfPSPsC±PePsPīPëC...
P°CḥPëC,PjC-PNē, PsCfPsP±P»PëPīPs torsades de pointes.

PŸC,PëPjCáP»CḥCḥC±C- PīPsCfP»P°P±P»CḥCḥC±C- P·P°CfPsP±Pë.
PμC-PrPīPëC%PμPSPëPNē CḥPëP·PëPe PīPëPSPëPePSPμPSPSCḥ CēP»CfPSPsC±PePsPīPëC...
P°CḥPëC,PjC-PNē, PsCfPsP±P»PëPīPs CēP»CfPSPsC±PePsPīPsC— C,P°C...C-PeP°CḥPrC-C—
torsades de pointes (PīCḥPë C†CHPpsPjCf PīCḥPsPīPsPeCfCḥC±PëPj C,,P°PeC,PsCḥPsPj
PīPëCfC,CfPīP°C” PīC-PīPsPeP°P»C-C”PjC-Cḥ). PμPμCḥPμPr P·P°CfC,PsCfCfPīP°PSPSCḥPj
PīCḥPμPīP°CḥP°C,Cf PīPsC,CḥC-P±PSPs PīCḥPsPīPμCfC,Pë PePsCḥPμPeC†C-Cḥ P±CfPrCH-
CḥPePsC— PīC-PīPsPeP°P»C-C”PjC-C— C,P° P·PrC-PNēCfPSCḥPīP°C,Pë PjPsPSC-C,PsCḥPëPSPi
P·PḥP” C,P° PeP»C-PSC-C±PSPëPNē PSP°PiP»CḥPr CḥP°P·PsPj C-P· PePsPSC,CḥPsP»PμPj
CḥC-PīPSC-PI PμP»PμPeC,CḥPsP»C-C,C-PI.

*PαC-PrP°PeCÍPsPjC-C†PëPS. PμC-PrPIPëC%oPμPSPSCΠ PePsPSC†PμPSC, CḡP°C†C-PNε
C,,C-PrP°PeCÍPsPjC-C†PëPSC† PI PiP»P°P·PjC- PeCḡPsPIC-.*

*PḡPsPjP±C-PSP°C†C-C—, CΠPeC- PIPëPjP°PiP°CḡC, Cḡ P·P°PiPsP±C-P¶PSPëC...
P·P°C...PsPrC-PI PiCḡPë P·P°CÍC, PsCÍC†PIP°PSPSC-.*

*PŸCáP±CÍC, CḡP°C, Pë P -PiP»C-PePsPiCḡPsC, PμC—PSCž. PḡPjC-PsPrP°CḡPsPS C”
C-PSPiC-P±C-C, PsCḡPsPj P -PiP»C-PePsPiCḡPsC, PμC—PSC†. PḡC†C-PeC†C”C, CḡCÍCΠ, C%oPs
PiCḡPë PsPrPSPsC†P°CÍPSPsPjC† P·P°CÍC, PsCÍC†PIP°PSPSC- C-P· CÍC†P±CÍC, CḡP°C, P°PjPë P -
PiP»C-PePsPiCḡPsC, PμC—PSC† P±C†PrPμ P·P±C-P»CḡC€C†PIP°C, PëCÍCΠ C—C...
PePsPSC†PμPSC, CḡP°C†C-CΠ C† PeCḡPsPIC-.*

*PμCḡPμPiP°CḡP°C, Pë PSP°PiPμCḡCÍC, CΠPSPePë. PμCḡPëPiPSC-C†PμPSPSCΠ
P°PIC, PsPjP°C, PëP·PjC† (PSP°PrPjC-CḡPSP° P±CḡP°PrPëPeP°CḡPrC-CΠ) C, P°
PiPsCḡC†C€PμPSPSCΠ P°C, CḡC-PsPiPμPSC, CḡPëPeC†P»CΠCḡPSPsC—
PiCḡPsPIC-PrPSPsCÍC, C-.*

*PμCḡPë P·P°CÍC, PsCÍC†PIP°PSPSC- PrPëPiPsPeCÍPëPSC† CÍPiPsCÍC, PμCḡC-PiP°C”C, CḡCÍCΠ
P·P±C-P»CḡC€PμPSPSCΠ CḡC-PIPSCΠ PrPëPiPsPeCÍPëPSC† PI PeCḡPsPIC- C†PμCḡPμP·
P·PjPμPSC€PμPSPSCΠ PeP»C-CḡPμPSCÍC† PrPëPiPsPeCÍPëPSC†, C%oPs PiPsC, CḡPμP±C†C”
PjPsPSC-C, PsCḡC†PIP°PSPSCΠ P·PḡP” C, P° PeP»C-PSC-C†PSPsPiPs CÍC, P°PSC†. PiPeC%oPs
PSPμPsP±C...C-PrPSPs, CÍP»C-Pr PjPsPSC-C, PsCḡC†PIP°C, Pë CḡC-PIPμPSCḡ
PrPëPiPsPeCÍPëPSC† PI PeCḡPsPIC- C, P° PePsCḡPëPiC†PIP°C, Pë PrPsP·C† PrPëPiPsPeCÍPëPSC†.*

*P”P°P±C-PiP°C, CḡP°PS. P—P±C-P»CḡC€PμPSPSCΠ PiP»P°P·PjPsPIPëC...
PePsPSC†PμPSC, CḡP°C†C-PNε PrP°P±C-PiP°C, CḡP°PSC† P· PiC-PrPIPëC%oPμPSPSCΠPj
CḡPëP·PëPeC† PiPμPjPsCḡP°PiC-C†PSPëC... CΠPIPëC%o. PiPeC%oPs PrP°P±C-PiP°C, CḡP°PS
P·P°CÍC, PsCÍC†PsPIC†C”C, CḡCÍCΠ PiC-CÍP»CΠ PiCḡPsPiPμPrPμPSPSCΠ
C...C-CḡC†CḡPiC-C†PSPsPiPs PIC, CḡC†C†P°PSPSCΠ, PiPsC, CḡC-P±PSPs PiCḡPsPiPsPrPëC, Pë
PeP»C-PSC-C†PSPμ PjPsPSC-C, PsCḡC†PIP°PSPSCΠ C, P° PePsCḡPëPiC†PIP°PSPSCΠ PrPsP·Pë
PrP°P±C-PiP°C, CḡP°PSC† P·P° PSPμPsP±C...C-PrPSPsCÍC, C-, P°P»Pμ PSPμ PIPëC%oPμ P·P° 150
PjPi/PrPsP±C†.*

*PḡCÍPeC-P»CḡPePë P°PjC-PsPrP°CḡPsPS PjP°C” C, CḡPëPIP°P»PëPNε PiPμCḡC-PsPr
PSP°PiC-PIPIPëPiPμPrPμPSPSCΠ, C, Ps PIPëPSPëPePSPμPSPSCΠ PIP·P°C”PjPsPrC-PNε PjPsP¶Pμ
CÍPiPsCÍC, PμCḡC-PiP°C, PëCÍCΠ PIPiCḡPsPrPsPIP¶ PrPμPeC-P»CḡPePsC... PjC-CÍCΠC†C-PI
PiC-CÍP»CΠ PiCḡPëPiPëPSPμPSPSCΠ P»C-PeC†PIP°PSPSCΠ P°PjC-PsPrP°CḡPsPSPsPj.*

*PŸCáP±CÍC, CḡP°C, Pë CYP 2C9. PḡPjC-PsPrP°CḡPsPS P·P±C-P»CḡC€C†C” PiP»P°P·PjPsPIC-
PePsPSC†PμPSC, CḡP°C†C-C— CḡPμC†PsPIPëPS, CΠPeC- C” CÍC†P±CÍC, CḡP°C, P°PjPë CYP 2C9,
C, P°PePëC... CΠPe P°PSC, P°PiPsPSC-CÍC, Pë PIC-C, P°PjC-PSC† Pḡ P°P±Ps C,, PμPSC-C, PsC—PS,
P·P° CḡP°C...C†PSPsPe PiCḡPëPiPSC-C†PμPSPSCΠ C,, PμCḡPjPμPSC, C-PI C†PëC, PsC...CḡPsPjC†
P450 2C9.*

*PḡPSC, P°PiPsPSC-CÍC, Pë PIC-C, P°PjC-PSCž Pḡ. PμPsCÍPëP»PμPSPSCΠ PμC,, PμPeC, C-PI
P°PSC, P°PiPsPSC-CÍC, C-PI PIC-C, P°PjC-PSC† Pḡ C, P° PiC-PrPIPëC%oPμPSPSCΠ CḡPëP·PëPeC†
PeCḡPsPiPsC, PμC†C-. PḡPsPSC-C, PsCḡPëPSPi PjC-P¶PSP°CḡPsPrPSPsPiPs
PSPsCḡPjP°P»C-P·PsPIP°PSPsPiPs PIC-PrPSPsC€PμPSPSCΠ (PḡPḡP) PiPsPIPëPSPμPS
P·PrC-PNεCÍPSCḡPIP°C, PëCÍCḡ P±C-P»CḡC€ C†P°CÍC, Ps. P”PsP·C† P°PSC, P°PiPsPSC-CÍC, P°
PIC-C, P°PjC-PSC† Pḡ CÍP»C-Pr PePsCḡPëPiC†PIP°C, Pë PiC-Pr C†P°CÍ P»C-PeC†PIP°PSPSCΠ
P°PjC-PsPrP°CḡPsPSPsPj C, P° PIPiCḡPsPrPsPIP¶ 8 PrPSC-PI PiC-CÍP»CΠ
P·P°PIPμCḡC€PμPSPSCΠ P»C-PeC†PIP°PSPSCΠ.*

PαPμPSC-C,PsC-PS (CεP»CΠC...PsPj PμPeCΓC,CḡP°PīPsP»CΠC†C-C— εḡ“ C,P°PePsP¶ C-C,,PsCΓC,,PμPSC-C,PsC-PS). P-P±C-P»CHCεPμPSPSCΠ PīP»P°P·PjPsPIPëC... PePsPSC†PμPSC,CḡP°C†C-PNε C,,PμPSC-C,PsC-PSCr P· PsP·PSP°PeP°PjPë PīPμCḡPμPrPsP·CfPIP°PSPSCΠ, PsCΓPsP±P»PëPIPs PSPμPICḡPsP»PsPiC-C†PSPëPjPë PsP·PSP°PeP°PjPë (PīCḡPëPiPSC-C†PμPSPSCΠ PjPμC,P°P±PsP»C-P·PjCf C,,PμPSC-C,PsC-PSCr PI PīPμC†C-PSC†C-). PŸP»C-Pr PīCḡPsPIPsPrPëC,Pë PeP»C-PSC-C†PSPëPNε PjPsPSC-C,PsCḡPëPSPi, PjPsPSC-C,PsCḡCfPIP°PSPSCΠ PePsPSC†PμPSC,CḡP°C†C-PNε C,,PμPSC-C,PsC-PSCr PI PīP»P°P·PjC- PeCḡPsPIC- C,P°, CΠPeC%Ps PSPμPsP±C...C-PrPSPs, PePsCḡPëPiCfPIP°C,Pë PrPsP·Cf C,,PμPSC-C,PsC-PSCr.

PŸCzP±CΓC,CḡP°C,Pë CYP2D6:

- *PαP»PμPeP°C-PSC-Pr. PḡPjC-PsPrP°CḡPsPS PīC-PrPIPëC%CrC” PīP»P°P·PjPsPIC- PePsPSC†PμPSC,CḡP°C†C-C— C,,P»PμPeP°C-PSC-PrCf CεP»CΠC...PsPj C-PSPiC-P±CfPIP°PSPSCΠ C†PëC,PsC...CḡPsPjCf CYP2D6. PŸPsPjCf CΓP»C-Pr PīCḡPsPIPsPrPëC,Pë PePsCḡPμPeC†C-Cḡ PrPsP·Pë C,,P»PμPeP°C-PSPëPrCf.*

PŸCzP±CΓC,CḡP°C,Pë CYP3A4: P°PjC-PsPrP°CḡPsPS C” C-PSPiC-P±C-C,PsCḡPsPj CYP3A4 C,P° PīC-PrPIPëC%CrC” PePsPSC†PμPSC,CḡP°C†C-Cḡ PI PīP»P°P·PjC- CΓCfP±CΓC,CḡP°C,C-PI PrP°PSPsPiPs C†PëC,PsC...CḡPsPjCf, CΠPe CḡPμP·CfP»CHC,P°C, - PīC-PrPIPëC%CrC” C,PsPeCΓPëC†PSCr PrC-Cḡ C†PëC... CΓCfP±CΓC,CḡP°C,C-PI.

- *PŸC,P°C,PëPSPë (CΓPëPjPIP°CΓC,P°C,PëPS, P°C,PsCḡPIP°CΓC,P°C,PëPS, P»PsPIP°CΓC,P°C,PëPS). PμCḡPë PsPrPSPsC†P°CΓPSPsPjCf P·P°CΓC,PsCΓCfPIP°PSPSC- P°PjC-PsPrP°CḡPsPSCr C,P° CΓC,P°C,PëPSC-PI, CΠPeC- PjPμC,P°P±PsP»C-P·CfCḡC,CHCΓCΠ P·P° PrPsPīPsPjPsPiPsCḡ CYP3A4, C,P°PePëC... CΠPe CΓPëPjPIP°CΓC,P°C,PëPS, P°C,PsCḡPIP°CΓC,P°C,PëPS C,P° P»PsPIP°CΓC,P°C,PëPS, PīC-PrPIPëC%CrC”C,CHCΓCΠ CḡPëP·PëPe PIPëPSPëPePSPμPSPSCΠ Pjḡḡ™ CΠP·PsPIPsC— C,PsPeCΓPëC†PSPsCΓC,C- (PSP°PīCḡPëPeP»P°Pr, CḡP°P±PrPsPjC-PsP»C-P). PμCḡPë PsPrPSPsC†P°CΓPSPsPjCf P·P°CΓC,PsCΓCfPIP°PSPSC- P· P°PjC-PsPrP°CḡPsPSPsPj CḡPμPePsPjPμPSPPrPsPIP°PSPs P·P°CΓC,PsCΓPsPICfPIP°C,Pë CΓC,P°C,PëPSPë, CΠPeC- PSPμ PjPμC,P°P±PsP»C-P·CfCḡC,CHCΓCΠ P·P° PrPsPīPsPjPsPiPsCḡ CYP3A4.*

P†PSCεC- P»C-PeP°CḡCfCHPeC- P·P°CΓPsP±Pë, C%Ps PjPμC,P°P±PsP»C-P·CfCḡC,CHCΓCΠ P·P° CfC†P°CΓC,Cḡ CYP3A4 (P»C-PrPsPeP°C-PS, CΓPëCḡPsP»C-PjCzCΓ, C,P°PeCḡPsP»C-PjCzCΓ, CΓPëP»PrPμPSP°C,,C-P», PjC-PrP°P·PsP»P°Pj, PrPëPiC-PrCḡPsPμCḡPiPsC,P°PjC-PS, PμCḡPiPsC,P°PjC-PS, PePsP»C...C-C†PëPS, C,CḡC-P°P·PsP»P°Pj). PḡPjC-PsPrP°CḡPsPS C” C-PSPiC-P±C-C,PsCḡPsPj CYP3A4 C,P° PīC-PrPIPëC%CrC” PePsPSC†PμPSC,CḡP°C†C-C— C†PëC... PjPsP»PμPeCfP» PI PīP»P°P·PjC- PeCḡPsPIC-, C%Ps PīCḡPëP·PIPsPrPëC,CH PrPs PīPsC,PμPSC†C-PNεPSPsPiPs PīC-PrPIPëC%PμPSPSCΠ C—C...PSCḡPsC— C,PsPeCΓPëC†PSPsCΓC,C-.

P>C-PrPsPeP°C-PS. P PëP·PëPe P·P±C-P»CHCεPμPSPSCΠ PīP»P°P·PjPsPIPëC... PePsPSC†PμPSC,CḡP°C†C-PNε P»C-PrPsPeP°C-PSCr, CΠPePëPNε PjPsP¶Pμ PīCḡPëP·PIPμCΓC,Pë PrPs PSPμPICḡPsP»PsPiC-C†PSPëC... C,P° PeP°CḡPrC-P°P»CHPSPëC... PīPsP±C-C†PSPëC... PμC,,PμPeC,C-PI PIPSP°CΓP»C-PrPsPe PīCḡPëPiPSC-C†PμPSPSCΠ P°PjC-PsPrP°CḡPsPSPsPj PīPμC†C-PSPePsPIPsPiPs PjPμC,P°P±PsP»C-P·PjCf. PŸP»C-Pr PīCḡPsPIPsPrPëC,Pë PeP»C-PSC-C†PSPμ C,P° P·PḡP” PjPsPSC-C,PsCḡCfPIP°PSPSCΠ, P° C,P°PePsP¶, PīCḡPë PSPμPsP±C...C-PrPSPsCΓC,C-, PeC-P»CHPeC-CΓPSPμ PIPëP·PSP°C†PμPSPSCΠ PīP»P°P·PjPsPIPëC... PePsPSC†PμPSC,CḡP°C†C-PNε P»C-PrPsPeP°C-PSCr. Pj CḡP°P·C- PSPμPsP±C...C-PrPSPsCΓC,C- ḡḡ“ PePsCḡPëPiCfPIP°PSPSCΠ PrPsP·Pë P»C-PrPsPeP°C-PSCr

PSP° C, P»C- P»C-PeCíPIP°PSPSCЦ P°PjC-PsPrP°CḡPsPSPsPj C, P° PíC-CÍP»CЦ PN°PsPiPs PIC-PrPjC-PSPë.

PÿP°PeCḡPsP»C-PjCžCÍ. P—P±C-P»CḡC€PµPSPSCЦ PePsPSC†PµPSC, CḡP°C†C-PN° C, P°PeCḡPsP»C-PjCíCÍCí PI PeCḡPsPIC- C†PµCḡPµP· PíCḡPëPiPSC-C†PµPSPSCЦ PN°PsPiPs PjPµC, P°P±PsP»C-P·PjCí P°PjC-PsPrP°CḡPsPSPsPj. PÿP»C-Pr PíCḡPsPIPsPrPëC, Pë PeC-P»CḡPeC-CÍPSPµ PIPëP·PSP°C†PµPSPSCЦ PePsPSC†PµPSC, CḡP°C†C-PN° C, P°PeCḡPsP»C-PjCíCÍCí Cí PeCḡPsPIC-, PjPsPSC-C, PsCḡCíPIP°PSPSCЦ C, CíPSPeC†C-C— PSPëCḡPsPe C, P° PePsCḡPëPiCíPIP°PSPSCЦ PrPsP·Pë C, P°PeCḡPsP»C-PjCíCÍCí PíCḡPë PsPrPSPsC†P°CÍPSPsPjCí PN°PsPiPs P·P°CÍC, PsCÍCíPIP°PSPSC- P· P°PjC-PsPrP°CḡPsPSPsPj C, P° PíC-CÍP»CЦ PIC-PrPjC-PSPë PsCÍC, P°PSPSCHPsPiPs.

P'PµC, P°-P±P»PsPeP°C, PsCḡPë, PsPeCḡC-Pj CÍPsC, P°P»PsP»Cž
(PíCḡPsC, PëPiPsPeP°P·P°PSP° PePsPjP±C-PSP°C†C-CЦ) C, P° PµCÍPjPsP»PsP»Cž
(PePsPjP±C-PSP°C†C-CЦ, CЦPeP° PIPëPjP°PiP°C" P·P°PiPsP±C-P¶PSPëC...
P·P°C...PsPrC-PI PíCḡPë P·P°CÍC, PsCÍCžPIP°PSPSC-). PµPsCḡCíC€PµPSPSCЦ P°PIC, PsPjP°C, PëP·PjCí C, P° PíCḡPsPIC-PrPSPsCÍC, C- (PíCḡPëPiPSC-C†PµPSPSCЦ PePsPjPiPµPSCÍP°C, PsCḡPSPëC... CÍPëPjPiP°C, PëC†PSPëC... PjPµC...P°PSC-P·PjC-PI). P PµPePsPjPµPSPPrPsPIP°PSPs P·P°P»C, P° PeP»C-PSC-C†PSPµ PjPsPSC-C, PsCḡCíPIP°PSPSCЦ.

P'PµC, P°-P±P»PsPeP°C, PsCḡPë, CЦPeC- P·P°CÍC, PsCÍPsPICžCḡC, CḡCÍCЦ P·
PíCḡPëPIPsPrCž CÍPµCḡC†PµPIPsC— PSPµPrPsCÍC, P°C, PSPsCÍC, C-
(P±C-CÍPsPíCḡPsP»PsP», PeP°CḡPIPµPrPëP»PsP», PjPµC, PsPíCḡPsP»PsP»,
PSPµP±C-PIPsP»PsP»). PµPsCḡCíC€PµPSPSCЦ P°PIC, PsPjP°C, PëP·PjCí C, P° PíCḡPsPIC-PrPSPsCÍC, C- PjC-PsPeP°CḡPrP° P· CḡPëP·PëPePsPj PSP°PrPjC-CḡPSPsC— P±CḡP°PrPëPeP°CḡPrC-C—. P—P±C-P»CḡC€PµPSPSCЦ CḡPëP·PëPeCí CḡPsP·PIPëC, PeCí C€P»CíPSPsC†PePsPIPëC... P°CḡPëC, PjC-PN°, PsCÍPsP±P»PëPIPs B«torsades de pointesB». P PµPePsPjPµPSPPrPsPIP°PSPs CḡPµPiCíP»CЦCḡPSPµ PeP»C-PSC-C†PSPµ C, P° P·P°P»C PjPsPSC-C, PsCḡCíPIP°PSPSCЦ.

P·CÍPjPsP»PsP». PµPsCḡCíC€PµPSPSCЦ CÍPePsCḡPsC, P»PëPIPsCÍC, C-, P°PIC, PsPjP°C, PëP·PjCí C, P° PíCḡPsPIC-PrPSPsCÍC, C- (PíCḡPëPiPSC-C†PµPSPSCЦ PePsPjPiPµPSCÍP°C, PsCḡPSPëC... CÍPëPjPiP°C, PëC†PSPëC... PjPµC...P°PSC-P·PjC-PI). P PµPePsPjPµPSPPrPsPIP°PSPs P·P°P»C, P° PeP»C-PSC-C†PSPµ PjPsPSC-C, PsCḡCíPIP°PSPSCЦ.

P"PëP»C, C-P°P·PµPj PrP»CЦ PíPµCḡPsCḡP°P»CḡPSPsPiPs P·P°CÍC, PsCÍCžPIP°PSPSCЦ.
P PëP·PëPe CḡPsP·PIPëC, PeCí P±CḡP°PrPëPeP°CḡPrC-C— P°P±Ps P°C, CḡC-PsPIPµPSC, CḡPëPeCíP»CЦCḡPSPsC— P±P»PsPeP°PrPë, PsCÍPsP±P»PëPIPs Cí PíP°C†C-C" PSC, C-PI P»C-C, PSCHPsPiPs PIC-PeCí. P PµPePsPjPµPSPPrPsPIP°PSPs P·P°P»C, P° PeP»C-PSC-C†PSPµ PjPsPSC-C, PsCḡCíPIP°PSPSCЦ.

P'PµCḡP°PiP°PjC-P» PrP»CЦ PíPµCḡPsCḡP°P»CḡPSPsPiPs P·P°CÍC, PsCÍCžPIP°PSPSCЦ.
P PëP·PëPe CḡPsP·PIPëC, PeCí P±CḡP°PrPëPeP°CḡPrC-C— C, P° P°C, CḡC-PsPIPµPSC, CḡPëPeCíP»CЦCḡPSPsC— P±P»PsPeP°PrPë, PsCÍPsP±P»PëPIPs Cí PíP°C†C-C" PSC, C-PI P»C-C, PSCHPsPiPs PIC-PeCí. P PµPePsPjPµPSPPrPsPIP°PSPs P·P°P»C, P° PeP»C-PSC-C†PSPµ PjPsPSC-C, PsCḡCíPIP°PSPSCЦ.

P" PµCЦPeC- PjP°PeCḡPsP»C-PrPë (P°P·PëC, CḡPsPjC-C†PëPS,
PeP»P°CḡPëC, CḡPsPjC-C†PëPS, CḡPsPeCÍPëC, CḡPsPjC-C†PëPS).
P—P±C-P»CḡC€PµPSPSCЦ CḡPëP·PëPeCí CḡPsP·PIPëC, PeCí C€P»CíPSPsC†PePsPIPëC... P°CḡPëC, PjC-PN°, PsCÍPsP±P»PëPIPs B«torsades de pointesB». P PµPePsPjPµPSPPrPsPIP°PSPs

P•PьP“ C,P° PeP»C-PSC-C†PSPµ PjPsPSC-C,PсC҃CfPIP°PSPSCЦ PSP° C,P»C-
PsPrPSPsC†P°CfPSPsPiPs P•P°CfC,PсCfCfPIP°PSPSCЦ C†PёC... PíC҃PµPíP°C҃P°C,C-PI P•
P°PjC-PsPrP°C҃PSPsPj.

PµC҃PµPíP°C҃P°C,Pё, C%oPs P•PSPёP¶CfC҃C,C҃ PIPjC-CfC, PeP°P»C-C҃:
PrC-CзC҃PµC,PёPePё, C%oPs P•PSPёP¶CзC҃C,C҃ PIPjC-CfC, PeP°P»C-C҃
(C-P•PsP»C҃PSPsPIP°PSPs P°P±Ps Cз PePsPjP±C-PSP°C†C-C—), CfC,PёPjCзP»C҃C҃C†C-
PíC҃PSPsPSPsCfPSC-, P°PjC„PсC,PµC҃PёC†PёPS P' (PíC҃Pё PI/PI PIPµPrPµPSPSC-),
PiP»C҃PePsPePsC҃C,PёPePsC—PrPё (PíC҃Pё CfPёCfC,PµPjPSPsPjCз
P•P°CfC,PсCfCзPIP°PSPSC-), C,PµC,C҃P°PePsP•P°PeC,PёPr.

P—P±C-P»C҃CёPµPSPSCЦ C҃PёP•PёPeCf CёP»CfPSPsC†PePsPIPёC... P°C҃PёC,PjC-PNё,
PsCfPsP±P»PёPIPs B«torsades de pointesB» (PiC-PíPsPeP°P»C-C”PjC-CЦ C”
CfPíC҃PёCЦC,P»PёPIPёPj C„P°PeC,PсC҃PSPj). PkPµPsP±C...C-PrPSPs CfCfCfPSCfC,Pё
PiC-PíPsPeP°P»C-C”PjC-C҃ PrPs PíC҃PёP•PSP°C†PµPSPSCЦ P»C-PeP°C҃CfC҃PePsPiPs
P•P°CfPsP±Cf C,P° P•PrC-PNёCfPSC҃PIP°C,Pё PjPsPSC-C,PсC҃CfPIP°PSPSCЦ P•PьP“,
PIPjC-CfC,Cf PµP»PµPeC,C҃PsP»C-C,C-PI C,P° PeP»C-PSC-C†PSPµ
PjPsPSC-C,PсC҃CfPIP°PSPSCЦ.

PµC҃PµPíP°C҃P°C,Pё, C%oPs CзPíPsPIC-P»C҃PSC҃C҃C,C҃ CfPµC҃C†PµPIPёPNё
C҃PёC,Pj. P—P±C-P»C҃CёPµPSPSCЦ C҃PёP•PёPeCf C҃PsP•PIPёC,PeCf
CёP»CfPSPsC†PePsPIPёC... P°C҃PёC,PjC-PNё, PsCfPsP±P»PёPIPs B«torsades de pointesB».
P PµPePsPjPµPSPPrPsPIP°PSPs PeP»C-PSC-C†PSPµ C,P° P•PьP“ PjPsPSC-C,PсC҃CfPIP°PSPSCЦ.

P҃C҃P»C-CfC,P°C,. P PёP•PёPe P•PjPµPSCёPµPSPSCЦ PíP»P°P•PjPsPIPёC...
PePsPSC†PµPSC,C҃P°C†C-PNё P°PjC-PsPrP°C҃PSPsPSCf C,P° PNёPsPiPs P°PeC,PёPIPSPsPiPs
PjPµC,P°P±PsP»C-C,Cf. P PµPePsPjPµPSPPrPsPIP°PSPs PeP»C-PSC-C†PSPµ
PjPsPSC-C,PсC҃CfPIP°PSPSCЦ C,P°, PíC҃Pё PSPµPsP±C...C-PrPSPsCfC,C-,
PjPsPSC-C,PсC҃CfPIP°PSPSCЦ P•PьP“.

P҃P°PjCfCзP»PsP•PёPS. P PёP•PёPe PíPsCfPёP»PµPSPSCЦ PSPµP±P°P¶P°PSPёC...
PµC„PµPeC,C-PI, P•CfPjPsPIP»PµPSPёC... C,P°PjCfCfP»PsP•PёPSPsPj, PIPSP°CfP»C-PrPsPe
PíC҃PёPíPSC-C†PµPSPSCЦ PNёPsPiPs PjPµC,P°P±PsP»C-P•PjCf PI PíPµC†C-PSC†C-. P҃P»C-Pr
PíC҃PSPsPiPsPrPёC,Pё PeP»C-PSC-C†PSPёPNё PjPsPSC-C,PсC҃PёPSPi C,P°, Cf PIPёPíP°PrPeCf
PSPµPsP±C...C-PrPSPsCfC,C-, PíPsC,C҃C-P±PSPs PíC҃PSPsPIPµCfC,Pё PePsC҃PµPeC†C-C҃
PrPsP•Pё C,P°PjCfCfP»PsP•PёPSCf PíC-Pr C†P°Cf P»C-PeCfPIP°PSPSCЦ
C-PSPiC-P±C-C,PсC҃PsPj C„PµC҃PjPµPSC,Cf C,P° PíC-CfP»CЦ PíC҃PёPíPёPSPµPSPSCЦ
PNёPsPiPs P•P°CfC,PсCfCfPIP°PSPSCЦ.

P'PsC҃PёPePsPSP°P•PsP». PµC-PrPIPёC%oPµPSPёPNё C҃PёP•PёPe PIPёPSPёPePSPµPSPSCЦ
CёP»CfPSPsC†PePsPIPёC... P°C҃PёC,PjC-PNё, PsCfPsP±P»PёPIPs CёP»CfPSPsC†PePsPIPс—
C,P°C...C-PeP°C҃PrC-C— B«torsades de pointesB», PsCfPeC-P»C҃PePё PjPsP¶Pµ
PIC-PrP•PSP°C†P°C,PёCfC҃ P•PSPёP¶PµPSPSCЦ PjPµC,P°P±PsP»C-P•PjCf
P°PjC-PsPrP°C҃PSPsPSCf. PµPsC,C҃C-P±PSPs P•PrC-PNёCfPSC҃PIP°C,Pё PeP»C-PSC-C†PSPёPNё
PSP°PiP»CЦPr C,P° PjPsPSC-C,PсC҃PёPSPi P•PьP“ C,P°, Cf PIPёPíP°PrPeCf
PSPµPsP±C...C-PrPSPsCfC,C-, PíC҃PSPiPIPµCfC,Pё PePsC҃PµPeC†C-C҃ PrPsP•Pё
P°PjC-PsPrP°C҃PSPsPSCf.

PьPsPjP±C-PSP°C†C-C—, ЦIPeC- PíPsC,C҃PµP±CfC҃C,C҃ PsCfPsP±P»PёPIPsC— CfPIP°PiPё.

PµC-P»PsPeP°C҃PíC-PS. P PёP•PёPe C҃PsP•PIPёC,PeCf PSP°PrPjC-C҃PSPsC—
P±C҃P°PrPёPeP°C҃PrC-C— (P°PrPёC,PёPIPSC- PµC„PµPeC,Pё PíC҃PµPíP°C҃P°C,C-PI, ЦIPeC-

СрPиPсPIC-P»СНPSCНC,СН СГPмCНC+PмPIPëPNë CНPëC,Pj).

PhCГPсP±P»PëPIPсCГC,C- P·P°CГC,PsCГCáPIP°PSPSCИ.

P·C,,PмPеC,Pë P· P±PsPеCá CГPмCНC+CИ. P”Ps PиPсC±P°C,PеCГ P·P°CГC,PsCГCГPIP°PSPSCИ PиCНPмPиP°CНP°C,CГ PSPмPсP±C...C-PrPSPs P·CНPсP±PëC,Pë P·P”P”

PJ PиP°CГC-C”PSC,C-PI P»C-C,PSCНPсPиPс PIC-PеCГ PSP° C,P»C- PиCНPëPNëPсPjCГ PиCНPмPиP°CНP°C,CГ PjPsP¶Pм PиPсCГPëP»CНPIP°C,PëCГCИ CГPиPсPIC-P»СНPSPмPSPSCИ C±P°CГC,PsC,Pë CГPмCНC+PмPIPëC... CГPеPсCНPсC±PмPSCН.

PñPjC-PсPrP°CНPсPS C-PSPrCГPеCГC” P·PjC-PSPë P·P”P” . P|C- P·PjC-PSPë PIPeP»CНC±P°CНC,СН PиPсPrPсPIP¶PмPSPSCИ C-PSC,PмCНPIP°P»CГ QT PIPSP°CГP»C-PrPсPе PиPсPrPсPIP¶PмPSPсC— CНPмPиPсP»CИCНPëP·P°CГC-C—, P· PjPsP¶P»PëPIPсCН PиPсCИPIPсCН P·CГP±CГCИ U. P|Pм C” PsP·PSP°PеPсCН C,PмCНP°PиPмPIC,PëC±PSPсC— PrC-C— PиCНPмPиP°CНP°C,CГ, P° PSPм PNëPсPиPс C,PsPеCГPëC±PSPсCГC,C-.

P’PëPSPëPеPSPмPSPSCИ PSP° C,P»C- P»C-PеCГPIP°PSPSCИ PñV-P±P»PsPеP°PrPë II P°P±Ps III CГC,CГPиPмPSCИ, CГPëPSPсP°C,CНC-P°P»СНPSPсC— P±P»PsPеP°PrPë P°P±Ps P±C-C,,P°CГCГPëPеCГP»CИCНPSPсC— P±P»PsPеP°PrPë PIPëPjP°PиP°C” PIC-PrPjC-PSPë PиCНPмPиP°CНP°C,CГ. P PsP·PIPëC,PsPе PñV-P±P»PsPеP°PrPë I CГC,CГPиPмPSCИ PIPëPjP°PиP°C” PиPсCГPëP»PмPSPSCИ PSP°PиP»CИPrCГ P·P° PиP°CГC-C”PSC,PsPj.

PмPсPIC-PrPсPjP»CИP»PsCГCИ PиCНPс PIPëPиP°PrPеPë PиPсCИPIPë PSPсPIPсC— P°CНPëC,PjC-C— P°P±Ps PиPсPiC-CНC€PмPSPSCИ PIP¶Pм C-CГPSCГCНC±PsC— P°CНPëC,PjC-C—, CИPеCГ P»C-PеCГCНC,СН (PrPëPI. CНPсP·PrC-P» B«PмPсP±C-C±PSC- CНPмP°PеCГC-C—B»).

PÿP°PеPëPNë PиCНPсP°CНPëC,PjPsPиPмPSPSPëPNë PмC,,PмPеC, PjPsP¶Pм CГPиPсCГC,PмCНC-PиP°C,PëCГCН PsCГPсP±P»PëPIPс P·P° PSP°CИPIPSPсCГC,C- C,,P°PеC,PsCНC-PI, CИPеC- CГPиCНPëCИCНC,СН PиPсPrPсPIP¶PмPSPSCН C-PSC,PмCНPIP°P»CГ QT, P·PsPеCНPмPjP° P·P°CГC,PsCГCГPIP°PSPSCИ PиPмPIPSPëC... PеPсPjP±C-PSP°CГC-PNë P»C-PеP°CНCГCНPеPëC... P·P°CГPсP±C-PI C,P° PiC-PиPсPеP°P»C-C”PjC-CИ (PrPëPI. CНPсP·PrC-P»Pë B«PмPсP±C-C±PSC- CНPмP°PеCГC-C—B» C,P° B«P’P·P°C”PjPsPrC-CИ P· C-PSC€PëPjPë P»C-PеP°CНCГCНPеPëPjPë P·P°CГPсP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C”PjPsPrC-PNëB»). P PëP·PëPе PиPсCИPIPë C-PSPrCГPеPсPIP°PSPсC— PиCНPëPNëPсPjPsPj P»C-PеP°CНCГCНPеPëC... P·P°CГPсP±C-PI C,P°C...C-PеP°CНPrC-C— torsades de pointes PиCНPë P·P°CГC,PsCГCГPIP°PSPSC- P°PjC-PсPrP°CНPсPSCГ PIPиP°P¶P°C”C,СНCГCИ PSPëP¶C±PëPj PиPсCНC-PIPSCИPSPс P· C-PSC€PëPjPë P°PSC,PëP°CНPëC,PjC-C±PSPëPjPë PиCНPмPиP°CНP°C,P°PjPë CГ PиP°CГC-C”PSC,C-PI P· PsPrPSP°PеPсPIPëPj CГC,CГPиPмPSPмPj PиPсPrPсPIP¶PмPSPSCИ C-PSC,PмCНPIP°P»CГ QT.

PмPсCНCáC€PмPSPSCИ P· P±PsPеCá C%PëC,PsPIPëPrPSPсC— P·P°P»PsP·Pë. P|PмPNë P»C-PеP°CНCГCНPеPëPNë P·P°CГC-P± PjC-CГC,PëC,СН PNëPсPr, CГ P·PIBН™ CИP·PеCГ P· C±PëPj PIPиP»PëPIP°C” PSP° CНPмP·CГP»СНC,P°C,Pë PrPмCИPеPëC... PиPсPеP°P·PSPëPеC-PI C,,CГPSPеCГC-C— C%PëC,PsPIPëPrPSPсC— P·P°P»PsP·Pë (PиPсPиP»PëPSP°PSPSCИ CНP°PrC-PсP°PеC,PëPIPSPсPиPс PNëPсPrCГ, CНC-PIPSC- P±C-P»PеPсPIPс-P·PIBН™ CИP·P°PSPсPиPс PNëPсPrCГ). PñP»Pм PиPсPеP°P·PSPëPеPë C,,CГPSPеCГC-C— C%PëC,PsPIPëPrPSPсC— P·P°P»PsP·Pë T3, T4, PIPëCГPсPеPсC±CГC,P»PëPIPëPNë P°PSP°P»C-P· PSP° PÿPÿP” P·P°P»PëC€P°CНC,СНCГCИ

C-PSC, PμCḡPīCḡPμC, PsPIP°PSPëPjPë.

PḡPjC-PsPrP°CḡPsPS PjPsP¶Pμ PsP±CfPjPsPIP»CḡPIP°C, Pë PīPsCḡCfC€PμPSPSCḡ C,,CfPSPeC†C-C— C%oPëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë, PsCfPsP±P»PëPIPs Cf PīP°C†C-C”PSC,C-PI C-P· PrPëCfC,,CfPSPeC†C-C”Cḡ C%oPëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë PI P°PSP°PjPSPμP·C-. PḡC-P»CḡPëC-CfPSPμ PIPëP·PSP°C‡PμPSPSCḡ PIPjC-CfC,Cf PḡPḡP” CḡPμPePsPjPμPSPPrPsPIP°PSPμ Cf PICfC-C... PīP°C†C-C”PSC,C-PI PīPμCḡPμPr PīPsC‡P°C,PePsPj P·P°CfC,PsCfCfPIP°PSPSCḡ PīCḡPμPīP°CḡP°C,Cf, P° PīPsC,C-Pj CḡPμPīCfP»CḡCḡPSPs PīC-Pr C‡P°Cf P»C-PeCfPIP°PSPSCḡ C,P° PīCḡPsC,CḡPīPsPj PeC-P»CḡPëPsC... PjC-CfCḡC†C-PI PīC-CfP»Cḡ PIC-PrPjC-PSPë PīCḡPμPīP°CḡP°C,Cf, P° C,P°PePsP¶ Cf PIPëPīP°PrPeCf PeP»C-PSC-C‡PSPsC— PīC-PrPsP·CḡPë PSP° PrPëCfC,,CfPSPeC†C-Cḡ C%oPëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë (PrPëPI. CḡPsP·PrC-P» B«PμPsP±C-C‡PSC- CḡPμP°PeC†C-C—B»).

PμPsCḡCáC€PμPSPSCḡ P· P±PsPeCá P»PμPīPμPSCḡ. PμPsCḡPIP° P·P°PrPëC€PePë P°P±Ps PSPμPīCḡPsPrCfPeC,PëPIPSsPiPs PeP°C€P»Cḡ, CḡPe C-P·PsP»CḡPsPIP°PSPëC..., C,P°Pe C- P°CfPsC†C-PNëPsPIP°PSPëC... P· PīPsPīC-CḡC€PμPSPSCḡPj P·P°PīP°P»CḡPSPsPiPs CfC,P°PSCf, PjP°C” CḡPsP·PīP»CḡPrP°C,PëCfCḡ CḡPe PjPsP¶P»PëPIP° PsP·PSP°PeP° P»PμPīPμPSPμPIPsC— C,PsPeCfPëC‡PSPsCfC,C- PīCḡPμPīP°CḡP°C,Cf, PSP°PīCḡPëPeP»P°Pr, CḡPsP·PIPëC,PeCf C-PSC,PμCḡCfC,PëC†C-P°P»CḡPSPsPiPs PīPSPμPIPjPsPSC-C,Cf, C,P° PIPëPjP°PīP°C” CḡPμPSC,PīPμPSPsP»PsPīC-C‡PSPsPiPs PsP±CfC,PμP¶PμPSPSCḡ PīP°C†C-C”PSC,P° (PrPëPI. CḡPsP·PrC-P» B«PμPsP±C-C‡PSC- CḡPμP°PeC†C-C—B»).

PμPsCḡCáC€PμPSPSCḡ P· P±PsPeCá PīPμC‡C-PSPePë. P PμPīCfP»CḡCḡPSPμ PjPsPSC-C,PsCḡCfPIP°PSPSCḡ C,,CfPSPeC†C-C— PīPμC‡C-PSPePë CḡPμPePsPjPμPSPPrPsPIP°PSPμ PSP° PīPsC‡P°C,PeCf PīCḡPëPNëPsPjCf PīCḡPμPīP°CḡP°C,Cf, PrP°P»C- PīPμCḡC-PsPrPëC‡PSPs PīCḡPsC,CḡPīPsPj P»C-PeCfPIP°PSPSCḡ P°PjC-PsPrP°CḡPsPSPsPj (PrPëPI. CḡPsP·PrC-P» B«PμPsP±C-C‡PSC- CḡPμP°PeC†C-C—B»).

PkPμCḡPIPpsIPs-Pjθḡ™ CḡP·PsPIC- PīPsCḡCáC€PμPSPSCḡ. PḡPjC-PsPrP°CḡPsPS PjPsP¶Pμ CfPīCḡPëC‡PëPSCḡC,Pë PīPμCḡPëC,,PμCḡPëC‡PSCf CfPμPSCfPsCḡPSPs-PjPsC,PsCḡPSCf P°P±Ps P·PjC-C€P°PSCf PSPμPNëCḡPsPīP°C,C-Cḡ C- PjC-PsPīP°C,C-Cḡ (PrPëPI. CḡPsP·PrC-P» B«PμPsP±C-C‡PSC- CḡPμP°PeC†C-C—B»).

PμPsCḡCáC€PμPSPSCḡ P· P±PsPeCá PsCḡPīP°PSC-PI P·PsCḡCá. PμCḡPë PIPëPSPëPePSPμPSPSC- PSPμC‡C-C,PePsCfC,C- P·PsCḡCf P°P±Ps P·PSPëP¶PμPSPSCḡ PīPsCfC,CḡPsC,Pë P·PsCḡCf PSPμPsP±C...C-PrPSPs PSPμPīP°PNëPSPs PIPëPePsPSP°C,Pë PīPsPIPSPμ PsC,,C,P°P»CḡPjPsP»PsPīC-C‡PSPμ PsP±CfC,PμP¶PμPSPSCḡ, Cf C,PsPjCf C‡PëCfP»C- PsC,,C,P°P»CḡPjPsCfPePsPīC-Cḡ. P PsP·PIPëC,PsPe PSPμPNëCḡPsPīP°C,C-C— P°P±Ps PSPμPICḡPëC,Cf P·PsCḡPsPIPsPīPs PSPμCḡPIP°, PsP±CfPjPsPIP»PμPSPëC... P°PjC-PsPrP°CḡPsPSPsPj, PIPëPjP°PīP°C” PIC-PrPjC-PSPë PīCḡPμPīP°CḡP°C,Cf, PsCfPeC-P»CḡPëPë PīCḡPsPrPsPIP¶PμPSPSCḡ P»C-PeCfPIP°PSPSCḡ PjPsP¶Pμ PīCḡPëP·PIPμCfC,Pë PrPs PīCḡPsPīCḡPμCfCfPIP°PSPSCḡ PīPsCḡCfC€PμPSCḡ PrPs CfP»C-PīPsC,Pë (B«PμPsP±C-C‡PSC- CḡPμP°PeC†C-C—B»).

PḡCḡP¶PeC- C€PeC-CḡPSC- CḡPμP°PeC†C-C—. PḡPsP¶CfC,Cḡ PIPëPSPëPeP°C,Pë PSPμP±PμP·PīPμC‡PSC- PrP»Cḡ P¶PëC,C,Cḡ P°P±Ps PSP°PIC-C,Cḡ P»PμC,P°P»CḡPSC- C€PeC-CḡPSC- CḡPμP°PeC†C-C—, C,P°PeC- CḡPe CfPëPSPPrCḡPsPj PḡC,C-PIPμPSCfP°Bḡ”P”P¶PsPSCfPsPSP° P°P±Ps C,PsPeCfPëC‡PSPëPNë PμPīC-PrPμCḡPjP°P»CḡPSPëPNë PSPμPeCḡPsP»C-P·. Pj CḡP°P·C- PīPsCḡPIPë PsP·PSP°Pe P°P±Ps CfPëPjPīC,PsPjC-PI, C%oPs PIPeP°P·CfCḡC,Cḡ PSP° C†C- CfC,P°PSPë (PSP°PīCḡPëPeP»P°Pr, PīCḡPsPīCḡPμCfCfCḡC‡PëPNë PIPëCfPëPī PSP° C€PeC-CḡC- P· CfC,PIPsCḡPμPSPSCḡPj PīCfC...PëCḡC-PI P°P±Ps CfCḡP°P¶PμPSPSCḡPjPë CfP»PëP·PsPIPsC—

PsP±PsP»PsPSPePë), CÍP»C-Pr PSPµPiP°PN»PSPs PiCḥPëPiPëPSPëC,Pë P»C-PeCÍPIP°PSPSCÍ
P°PjC-PsPrP°CḥPsPSPsPj.

PÿCÍP¶PeP° P±CḥP°PrPëPeP°CḥPrC-CÍ C,P° PiPsCḥCáCëPµPSPSCÍ CÍPµCḥC†PµPIPsC—
PiCḥPsPIC-PrPSPsCÍC,C-. PÿPiPsCÍC,PµCḥC-PiP°P»PëCÍCÍ PIPëPiP°PrPePë
PIPëPSPëPePSPµPSPSCÍ C,CÍP¶PePsC—, PiPsC,PµPSC†C-PN»PSPs PSPµP±PµP·PiPµC†PSPsC—
PrP»CÍ P¶PëC,C,CÍ P±CḥP°PrPëPeP°CḥPrC-C— C,P° PiPsCḥCáCëPµPSCḥ
PiCḥPsPIC-PrPSPsCÍC,C- CÍ PiP°C†C-C”PSC,C-PI, CÍPeC- PiCḥPëPN»PjP°P»Pë
P°PjC-PsPrP°CḥPsPS CÍ PePsPjP±C-PSP°C†C-C— P· CÍPsC„PsCÍP±CÍPIC-CḥPsPj C,P°
C-PSCëPëPjPë PiCḥPsC,PëPIC-CḥCáCÍPSPëPjPë PiCḥPµPiP°CḥP°C,P°PjPë PiCḥCÍPjPsC—
PrC-C— (PµPµPµP”) PrP»CÍ P»C-PeCÍPIP°PSPSCÍ PiPµPiP°C,PëC,CÍ Pÿ, C,P°PePëPjPë CÍPe
PrP°PeP»P°C,P°CÍPIC-Cḥ, CÍPëPjPµPiCḥPµPIC-Cḥ P°P±Ps P»PµPrPëPiP°CÍPIC-Cḥ.

P°CḥP°PrPëPeP°CḥPrC-CÍ P·P°P·PIPëC†P°PN» PIPëPSPëPeP°P»P° PiCḥPsC,CÍPiPsPj
PiPµCḥC-PsPrCÍ B PIC-Pr PrPµPeC-P»CḥPePsC... PiPsPrPëPS PrPs PrPµPeC-P»CḥPePsC...
PrPSC-PI, PiCḥPsC,Pµ CÍPiPsCÍC,PµCḥC-PiP°P»PëCÍCÍ PIPëPiP°PrPePë PiPsCÍPIPë
CÍPëPjPiC,PsPjC-PI C†PµCḥPµP· PrPsPICëPëPN» C†P°CÍ, P·PrPµP±C-P»CḥCëPsPiPs
PiCḥPsC,CÍPiPsPj 2 C,PëP¶PSC-PI PiC-CÍP»CÍ PiPsC†P°C,PeCÍ PiCḥPsC,PëPIC-CḥCáCÍPSPsPiPs
P»C-PeCÍPIP°PSPSCÍB PiPµPiP°C,PëC,CÍ Pÿ (P’P”Pÿ).

PµP°C†C-C”PSC,Pë, CÍPeC- PsC,CḥPëPjCáCḥC,Cḥ P»C-PeCÍPIP°PSPSCÍ
PiCḥPµPiP°CḥP°C,P°PjPë, C%Ps PjC-CÍC,CÍC,Cḥ CÍPsC„PsCÍP±CÍPIC-Cḥ, PiPsPIPëPSPSC-
PiCḥPëPN»PjP°C,Pë P°PjC-PsPrP°CḥPsPS P»PëCëPµ CÍ CḥP°P·C-
PSPµPiPµCḥPµPSPsCÍPëPjPsCÍC,C- P°P±Ps PiCḥPsC,PëPiPsPeP°P·P°PSPSCÍ PrPs C-PSCëPëC...
P°PSC,PëP°CḥPëC,PjC-C†PSPëC... P·P°CÍPsP±C-PI.

PiPeC%Ps PsPrPSPsC†P°CÍPSPµ P·P°CÍC,PsCÍCÍPIP°PSPSCÍ P°PjC-PsPrP°CḥPsPSCí P·
C†PëPjPë P»C-PeP°CḥCÍCḥPePëPjPë P·P°CÍPsP±P°PjPë C” PSPµPsP±C...C-PrPSPëPj,
PiP°C†C-C”PSC,P°Pj CḥPµPePsPjPµPSPPrCíC”C,CḥCÍCÍ PeP°CḥPrC-PsPjPsPSC-C,PsCḥPëPSPi PI
CíPjPsPIP°C... CÍC,P°C†C-PsPSP°CḥCá PiCḥPsC,CÍPiPsPj PiPµCḥCëPëC... 48 PiPsPrPëPS
PsPrPSPsC†P°CÍPSPsPiPs P·P°CÍC,PsCÍCÍPIP°PSPSCÍ C†PëC... PjPµPrPëC†PSPëC...
PiCḥPµPiP°CḥP°C,C-PI, PiC-CÍP»CÍ C†PsPiPs PSPµPsP±C...C-PrPSPs P·PrC-PN»CÍPSCḥPIP°C,Pë
PjPsPSC-C,PsCḥPëPSPi P°PjP±CíP»P°C,PsCḥPSPs P°P±Ps PiCḥPsPIPsPrPëC,Pë
CÍP°PjPsCÍC,C-PN»PSPëPN» PjPsPSC-C,PsCḥPëPSPi C†P°CÍC,PsC,Pë CÍPµCḥC†PµPIPëC...
CÍPePsCḥPsC†PµPSCḥ C%PsPrPSCÍ PiCḥPsC,CÍPiPsPj C%PsPSP°PN»PjPµPSCëPµ
PiPµCḥCëPëC... 2 C,PëP¶PSC-PI P»C-PeCÍPIP°PSPSCÍ.

P— PsPiP»CÍPrCÍ PSP° C,CḥPëPIP°P»PëPN» C†P°CÍ PSP°PiC-PIPIPëPIPµPrPµPSPSCÍ
P°PjC-PsPrP°CḥPsPSCí PeP°CḥPrC-PsPjPsPSC-C,PsCḥPëPSPi, PsPiPëCÍP°PSPëPN» PIPëC%Pµ,
C,P°PePsP¶ PSPµPsP±C...C-PrPSPs PiCḥPsPIPsPrPëC,Pë PiP°C†C-C”PSC,P°Pj, CÍPeC-
PiCḥPëPiPëPSPëP»Pë PiCḥPëPN»PjP°C,Pë P°PjC-PsPrP°CḥPsPS PiCḥPsC,CÍPiPsPj
PsCÍC,P°PSPSC-C... PrPµPeC-P»CḥPePsC... PjC-CÍCÍC†C-PI C- PjP°CḥC,Cḥ
CḥPsP·PiPsC†P°C,Pë P»C-PeCÍPIP°PSPSCÍ PiCḥPµPiP°CḥP°C,P°PjPë, C%Ps PjC-CÍC,CÍC,Cḥ
CÍPsC„PsCÍP±CÍPIC-Cḥ, PsPeCḥPµPjPs P°P±Ps PI PePsPjP±C-PSP°C†C-C— P· C-PSCëPëPjPë
PiCḥPsC,PëPIC-CḥCáCÍPSPëPjPë PiCḥPµPiP°CḥP°C,P°PjPë PiCḥCÍPjPsC— PrC-C— (PµPµPµP”).

PjCÍC- PiP°C†C-C”PSC,Pë, CÍPeC- P·P°CḥP°P· PiCḥPëPN»PjP°CḥC,Cḥ P°P±Ps
PSPµC%PsPrP°PIPSPs PiCḥPëPN»PjP°P»Pë P°PjC-PsPrP°CḥPsPS CÍ PePsPjP±C-PSP°C†C-C— P·
P»C-PeP°CḥCÍCḥPePëPjPë P·P°CÍPsP±P°PjPë, C%Ps PjC-CÍC,CÍC,Cḥ
CÍPsC„PsCÍP±CÍPIC-Cḥ, PiPsPIPëPSPSC- P±CíC,Pë PiPsPiPµCḥPµPrP¶PµPSC- PiCḥPs
CÍPëPjPiC,PsPjPë P±CḥP°PrPëPeP°CḥPrC-C— C- PiPsCḥCáCëPµPSCḥ CÍPµCḥC†PµPIPsC—
PiCḥPsPIC-PrPSPsCÍC,C-, P° C,P°PePsP¶ C—Pj PSPµPsP±C...C-PrPSPs

СҗРµРµPѕPҗРµPSPPrCfPIP°C, Pë Cr CҗP°P·C- PIPëPSPëPePSPµPSPSCҗ C, P°PePëC...
CfPëPҗPiC, PѕPҗC-PI PSPµPiP°P№PSPѕ P·PIPµCҗPSCfC, PëCfCҗ P·P° PҗPµPrPëC#PSPѕCҗ
PrPѕPiPѕPҗPѕPiPѕCҗ.

PµPѕCҗCáCëPµPSPSCҗ, PiPѕPIөҗ™ CҗP·P°PSC- C-P· PIP·P°C" PҗPѕPrC-CҗPҗPë P· C-PSCëPëPҗPë
P»C-PeP°CҗCfCҗPëPëPҗPë P·P°CfPѕP±P°PҗPë. PҗPѕPҗ±C-PSP°CfC-C— (PrPëPI. CҗPѕP·PrC-P»
B«P·P·P°C" PҗPѕPrC-Cҗ P· C-PSCëPëPҗPë P»C-PeP°CҗCfCҗPëPëPҗPë P·P°CfPѕP±P°PҗPë C, P°
C-PSCëC- PIPëPrPë PIP·P°C" PҗPѕPrC-P№B») P· C, P°PePëPҗPë PiCҗPµPiP°CҗP°C, P°PҗPë, CҗPе:

-B B B P±PµC, P°-P±P»PѕPeP°C, PѕCҗPë, PѕPeCҗC-Pҗ CfPѕC, P°P»PѕP»Cf
(PiCҗPѕC, PëPiPѕPeP°P·P°PSP° PePѕPҗ±C-PSP°CfC-Cҗ) C, P° PµCfPҗPѕP»PѕP»Cf
(PePѕPҗ±C-PSP°CfC-Cҗ, CҗPеP° PIPëPҗP°PiP°C" P·P°PiPѕP±C-P¶PSPëC... P·P°C...PѕPrC-PI
PiCҗPë P·P°CfC, PѕCfCfPIP°PSPSC-),

-B B B PIPµCҗP°PiP°PҗC-P» C, P° PrPëP»C, C-P°P·PµPҗ

CfP»C-Pr CҗPѕP·PiP»CҗPrP°C, Pë P»PëCëPµ PrP»Cҗ PiCҗPѕC,, C-P»P°PeC, PëPePë
PSPµP±PµP·PiPµC#PSPëC... PrP»Cҗ P¶PëC, C, Cҗ CëP»CfPSPѕC#PePѕPIPëC... P°CҗPëC, PҗC-P№.

PҗPrPSPѕC#P°CfPSPµ P·P°CfC, PѕCfCfPIP°PSPSCҗ P°PҗC-PѕPrP°CҗPѕPSCf PSPµ
CҗPµPePѕPҗPµPSPPrCfC" C, CҗCfCҗ P· PSP°CfC, CfPiPSPëPҗPë P»C-PeP°CҗCfCҗPëPëPҗPë
P·P°CfPѕP±P°PҗPë:

CfPëPeP»PѕCfPiPѕCҗPëPѕ, PrPëP»C, C-P°P·PµPҗ (PrP»Cҗ C-PSөҗ™ C"PeCfC-P№) P°P±Pѕ
PIPµCҗP°PiP°PҗC-P» (PrP»Cҗ C-PSөҗ™ C"PeCfC-P№), PrPµCҗPeC-
PiCҗPѕC, PëPiP°CҗP°P·PëC, P°CҗPSC- P·P°CfPѕP±Pë (PiP°P»PѕC,, P°PSC, CҗPëPѕ,
P»CҗPҗPµC,, P°PSC, CҗPëPѕ C, P° PiPµPSC, P°PҗC-PrPëPѕ), PrPµCҗPeC-
PSPµP№CҗPѕP»PµPiC, PëPePë (P°PҗC-CfCfP»CҗPiCҗPëPr, C...P»PѕCҗPiCҗPѕPҗP°P·PëPѕ,
CfC-P°PҗPµPҗP°P·PëPѕ, PrCҗPѕPiPµCҗPëPrPѕP», C,, P»CfPiPµPSC, PëPeCfPѕP»,
C,, P»CfC,, PµPSP°P·PëPѕ, PiP°P»PѕPiPµCҗPëPrPѕP», P»PµPIPѕPҗPµPiCҗPѕPҗP°P·PëPѕ,
PiC-PҗPѕP·PëPr, PiC-PiP°PҗPiPµCҗPѕPѕ, PiC-PiPѕC, C-P°P·PëPѕ, CfPµCҗC, PëPSPPrPѕP»,
CfCfP»CҗPiC-CҗPëPr, CfCfP»CҗC, PѕPiCҗPëPr, C, C-P°PiCҗPëPr,
P·CfPеP»PѕPiPµPSC, PëPeCfPѕP»), C,, C, PѕCҗC...C-PSPѕP»PѕPSPë (P·P° PIPëPSCҗC, PePѕPҗ
P»PµPIPѕC,, P»PѕPeCfP°CfPëPSCf C, P° PҗPѕPeCfPëC,, P»PѕPeCfP°CfPëPSCf),
CfC, PëPҗCfP»CҗCҗC#C- PiPѕCfP»P°P±P»CҗCҗC#C- P·P°CfPѕP±Pë, PҗPµC, P°PrPѕPѕ P°P±Pѕ
C,, C-PSPiPѕP»C-PҗPѕPr (PrPëPI. CҗPѕP·PrC-P» B«P·P·P°C" PҗPѕPrC-Cҗ P· C-PSCëPëPҗPë
P»C-PeP°CҗCfCҗPëPëPҗPë P·P°CfPѕP±P°PҗPë C, P° C-PSCëC- PIPëPrPë PIP·P°C" PҗPѕPrC-P№B»).

PµPѕCҗCáCëPµPSPSCҗ, PiPѕPIөҗ™ CҗP·P°PSC- P· PrPѕPiPѕPҗC-P¶PSPëPҗPë
CҗPµC#PѕPIPëPSP°PҗPë. PiPµP№ P»C-PeP°CҗCfCҗPëPëP№ P·P°CfC-P± PҗC-CfC, PëC, Cҗ
P»P°PeC, PѕP·Cf, C, PѕPҗCf PSPµ CҗPµPePѕPҗPµPSPPrPѕPIP°PSPëP№ PrPѕ
P·P°CfC, PѕCfCfPIP°PSPSCҗ PiP°CfC-C" PSC, P°Pҗ C-P·
PSPµPiPµCҗPµPSPѕCfPëPҗC-CfC, Cҗ PiP°P»P°PeC, PѕP·Pë, PrPµC,, C-CfPëC, PѕPҗ
P»P°PeC, P°P·Pë P°P±Pѕ CfPëPSPPrCҗPѕPҗPѕPҗ PҗP°P»CҗP°P±CfPѕCҗP±CfC-C—
PiP»CҗPePѕP·Pë C- PiP°P»P°PeC, PѕP·Pë (CҗC-PrPeC-CfPSC- CfPiP°PrPePѕPIC-
P·P°C...PIPѕCҗCҗPIP°PSPSCҗ).

P·P»PµPeC, CҗPѕP»C-C, PSC- PiPѕCҗCáCëPµPSPSCҗ, PѕCfPѕP±P»PëPIPѕ
PiC-PiPѕPeP°P»C-C" PҗC-Cҗ: PIP°P¶P»PëPIPѕ PiCҗP°C...PѕPICfPIP°C, Pë P±CfPrCҗ-CҗPeCf
CfPëC, CfP°CfC-Cҗ, PiCҗPë CҗPeC-P№ Cf PiP°CfC-C" PSC, P° PҗPѕP¶Pµ P±CfC, Pë
CҗPëP·PëPe PIPëPSPëPePSPµPSPSCҗ PiC-PiPѕPeP°P»C-C" PҗC-C—, PѕCfPеC-P»CҗPePë

PiC-PiPsPeP°P»C-C”PjC-CЦ PjPsP¶Pµ PiCḡPsPIPSPeCfPIP°C,Pë
PiCḡPsP°CḡPëC,PjPsPiPµPSPSC- PµC,,PµPeC,Pë. P”C-PiPsPeP°P»C-C”PjC-Cḡ
PSPµPsP±C...C-PrPSPs CrCfCfPSCfC,Pë PrPs PiPsCfP°C,PeCf
P·P°CfC,PsCfCfPIP°PSPSCЦ P°PjC-PsPrP°CḡPsPSCf.

PkPµP±P°P¶P°PSC- PµC,,PµPeC,Pë, P·P°P·PSP°CfPµPSC- PSPëP¶CfPµ, PSP°PNëCfP°CfC,C-CëPµ
PiPsPiBḡ™ CЦP·P°PSC- P· PSP°PrPjC-CḡPSPëPj PiCḡPëPNëPsPjPsPj P»C-PeP°CḡCfCḡPePsPiPs
P·P°CfPsP±Cf; C—C... PjPsP¶PSP° CrPSPëPePSCfC,Pë P°P±Ps PjC-PSC-PjC-P·CfPIP°C,Pë
CḡPµC,PµP»CḡPSPëPj PrPsC,CḡPëPjP°PSPSCЦPj PjC-PSC-PjP°P»CḡPSPsC—
PiC-PrC,CḡPëPjCfCḡCfPsC— PrPsP·Pë.

PµC-Pr CfP°Cf P»C-PeCfPIP°PSPSCЦ PiCḡPµPiP°CḡP°C,PsPj PiP°CfC-C”PSC,P°Pj
CḡPµPePsPjPµPSPPrPsPIP°PSPs CrPSPëPeP°C,Pë CfPsPSCЦCfPSPsPiPs PsPiCḡPsPjC-PSPµPSPSCЦ
P°P±Ps PIP¶PëPIP°C,Pë P·P°C...PëCfPSC- P·P°C...PsPrPë PiCḡPsC,Pë CfPsPSCЦCfPSPsPiPs
PsPiCḡPsPjC-PSPµPSPSCЦ.

P’PµP·PiPµPeP° C,P° PµC,,PµPeC,PëPIPSC-CfC,Cḡ P°PjC-PsPrP°CḡPsPSCf Cr PrC-C,PµPNë PSPµ
PsCfC-PSCḡPIP°P»PëCfCЦ Cr PePsPSC,CḡPsP»CḡPsPIP°PSPëC... PeP»C-PSC-CfPSPëC...
PrPsCfP»C-PrP¶PµPSPSCЦC....

PŞPµCḡPµP· PjPsP¶P»PëPIPµ PiC-PrPIPëC%PµPSPSCЦ PiPsCḡPsPiP°
PrPµC,,C-P±CḡPëP»CЦCfC-C— C,P°/P°P±Ps PiPsCḡPsPiP° CfC,PëPjCfP»CЦCfC-C— Cr
PiP°CfC-C”PSC,C-PI P· C-PjPiP»P°PSC,PsPIP°PSPëPjPë CfPµCḡCfPµPIPëPjPë
PrPµC,,C-P±CḡPëP»CЦC,PsCḡP°PjPë P°P±Ps PeP°CḡPrC-PsCfC,PëPjCfP»CЦC,PsCḡP°PjPë
PSPµPsP±C...C-PrPSPs PiPµCḡPµPIC-CḡCЦC,Pë CfPµPNë PiPsCḡC-Pi PrPs
P·P°CfC,PsCfCfPIP°PSPSCЦ P°PjC-PsPrP°CḡPsPSCf C,P° PeC-P»CḡPeP° CḡP°P·C-PI
PiC-CfP»CЦ PiPsCfP°C,PeCf PNëPsPiPs P·P°CfC,PsCfCfPIP°PSPSCЦ, P° C,P°PePsP¶
PePsP¶PSPsPiPs CḡP°P·Cf PiCḡPë PePsCḡPëPiCfPIP°PSPSC- PrPsP·Pë PiCḡPµPiP°CḡP°C,Cf.

PḡPSPµCfC,PµP·C-CЦ. PḡPSPµCfC,PµP·C-PsP»PsPi PjP°C” P±CfC,Pë
PiPsPiPµCḡPµPrP¶PµPSPëPNë PiPµCḡPµPr PsPiPµCḡP°CfC-C”Cḡ PiCḡPs C,Pµ, C%Ps
PiP°CfC-C”PSC, PiCḡPëPNëPjP°C” P°PjC-PsPrP°CḡPsPS.

PµPsP±C-CfPSC- PµC,,PµPeC,Pë C...CḡPsPSC-CfPSPsPiPs P»C-PeCfPIP°PSPSCЦ
P°PjC-PsPrP°CḡPsPSPsPj PjPsP¶Pµ PiPsCfPëP»CḡPIP°C,Pë PiPµPjPsPrPëPSP°PjC-CfPSPëPNë
CḡPëP·PëPe, PiPsPiBḡ™ CЦP·P°PSPëPNë C-P· P·P°PiP°P»CḡPSPsCḡ P°P±Ps PjC-CfCfPµPIPSCḡ
P°PSPµCfC,PµP·C-C”Cḡ. P|C- PµC,,PµPeC,Pë PIPeP»CḡCfP°CḡC,Cḡ, P·PsPeCḡPµPjP°,
P±CḡP°PrPëPeP°CḡPrC-Cḡ, P°CḡC,PµCḡC-P°P»CḡPSCf PiC-PiPsC,PµPSP·C-Cḡ,
P·PjPµPSCëPµPSPSCЦ CfPµCḡCfPµPIPSPiPs PIPëPePëPrCf C,P° PiPsCḡCfCëPµPSPSCЦ
CfPµCḡCfPµPIPSC— PiCḡPsPIC-PrPSPsCfC,C-.

PḡCḡC-Pj C,PsPiPs, PrPµCЦPeC- PIPëPiP°PrPePë PiPsCfC,CḡPsPiPs
CḡPµCfPiC-CḡP°C,PsCḡPSPsPiPs PrPëCfC,CḡPµCf-CfPëPSPPrCḡPsPjCf
CfPiPsCfC,PµCḡC-PiP°P»PëCfCЦ Cr CḡP°PSPSCḡPsPjCf
PiC-CfP»CЦPsPiPµCḡP°CfC-PNëPSPsPjCf PiPµCḡC-PsPrC- Cr PiP°CfC-C”PSC,C-PI, CЦPeC-
PsC,CḡPëPjCfPIP°P»Pë P°PjC-PsPrP°CḡPsPS. PJ P·PiBḡ™ CЦP·PeCf P· CfPëPj
CḡPµPePsPjPµPSPPrPsPIP°PSPs P·PrC-PNëCfPSCḡPIP°C,Pë P·P° C,P°PePëPjPë
PiP°CfC-C”PSC,P°PjPë CḡPµC,PµP»CḡPSPëPNë PSP°PiP»CЦPr PiC-Pr CfP°Cf CëC,CfCfPSPsC—
PIPµPSC,PëP»CЦCfC-C— P»PµPiPµPSCḡ (PrPëPI. CḡPsP·PrC-P» B«PµPsP±C-CfPSC-
CḡPµP°PeCfC-C—B»).

PḡCḡP°PSCfPiP»P°PSC,P°CfC-CЦ

PJ CḥPμC,CḥPsCíPíPμPeC,PëPIPSPëC... PrPsCíP»C-PrP¶PμPSPSC¼C... Cí
CḥPμC†PëPíC-C”PSC,C-PI C,CḥP°PSCíPíP»P°PSC,P°C,P° P·P°CíC,PsCíCíPíP°PSPSC¼
P°PjC-PsPrP°CḥPsPSCí PíPμCḥPμPr PIPëPePsPSP°PSPSC¼Pj C,CḥP°PSCíPíP»P°PSC,P°C†C-C—
CíPμCḥC†C¼ P±CíP»Ps P°CíPSc†C-PNëPsPIP°PSPμ P· PíC-PrPIPëC%PμPSPSC¼Pj CḥPëP·PëPeCí
PíPμCḥPIPëPSPSPsC— PrPëCíC,,CíPSPeC†C-C— C,CḥP°PSCíPíP»P°PSC,P°C,P° (PμP”Pÿ).

PμP”Pÿ C” PSPμP±PμP·PíPμC±PSPëPj PrP»C¼ P¶PëC,C,C¼ CíCíPeP»P°PrPSPμPSPSC¼Pj
PíC-CíP»C¼ C,CḥP°PSCíPíP»P°PSC,P°C†C-C— CíPμCḥC†C¼, C¼PePμ
PíCḥPsC¼PIP»C¼C”C,CHCíC¼ Cí PíPμCḥC€C- 24 PíPsPrPëPSPë PíC-CíP»C¼
C,CḥP°PSCíPíP»P°PSC,P°C†C-C— PrPëCíC,,CíPSPeC†C-C”Cḥ P»C-PIPsPíPs C€P»CíPSPsC±PeP°,
PíCḥP°PIPSPíPs C€P»CíPSPsC±PeP° P°P±Ps PsP±PsC... C€P»CíPSPsC±PeC-PI, PrP»C¼ C¼PePsC—
PSPμ PjPsP¶Pμ P±CíC,Pë C-PrPμPSC,PëC,,C-PePsPIP°PSP° PSC-C¼PeP° PIC,PsCḥPëPSPSP°
PíCḥPëC±PëPSP° (PrPëPI. CḥPsP·PrC-P» B«PḥCíPsP±P»PëPIPScíC,C-
P·P°CíC,PsCíCíPíP°PSPSC¼B»). PÿC¼P¶PeP° PμP”Pÿ PjPsP¶Pμ P±CíC,Pë
PSPμPsP±PsCḥPsC,PSPsCḥ.

PkPμPsP±C...C-PrPSPs CḥPsP·PíP»C¼PSCíC,Pë PjPsP¶P»PëPIC-CíC,CH C¼PePsPjPsPíP°
P±C-P»CHC€ CḥP°PSPSCHPsPíPs PíCḥPëP·PSP°C±PμPSPSC¼
P°P»CHC,PμCḥPSP°C,PëPIPSPsPíPs P°PSC,PëP°CḥPëC,PjC-C±PSPsPíPs PíCḥPμPíP°CḥP°C,Cí
PíPμCḥPμPr C,CḥP°PSCíPíP»P°PSC,P°C†C-C”Cḥ PíP°C†C-C”PSC,P°Pj, C¼PeC-
PsC±C-PeCíCḥC,CH PsC,CḥPëPjP°PSPSC¼ CíPμCḥC†PμPIPSPíPs C,CḥP°PSCíPíP»P°PSC,P°C,P°.

*P—P°CíC,PsCíCáPIP°PSPSC¼ Cá PíPμCḥC-PsPr PIP°PíC-C,PSPsCíC,C- P°P±Ps
PíPsPrCáPIP°PSPSC¼ PíCḥCáPrPrCḥ.*

P’P°PíC-C,PSC-CíC,CH. PJ PrPsCíP»C-PrP¶PμPSPSC¼C... PSP° C,PIP°CḥPëPSP°C... PSPμ
P±CíP»Ps PIPëC¼PIP»PμPSPs P¶PsPrPSPëC... C,PμCḥP°C,PsPíPμPSPSPëC... PμC,,PμPeC,C-PI,
C,PsPjCí PSPμ PsC±C-PeCíC”C,CHCíC¼ PμC,,PμPeC,C-PI PjP°P»CHC,,PsCḥPjP°C†C-C— Cí
P»CḥPrPμPNë. PkP° CíCḥPsPíPsPrPSC-C€PSC-PNë PrPμPSCḥ CḥPμC±PsPIPëPSPë, C¼PeC-
CíPíCḥPëC±PëPSC¼CḥC,CH PIPëPSPëPePSPμPSPSC¼ PIP°Pr CḥPsP·PIPëC,PeCí Cí
P»CḥPrPμPNë, PIPëC¼PIPëP»PëCíC¼ C,PμCḥP°C,PsPíPμPSPSPëPjPë Cí C,PIP°CḥPëPS PíC-Pr
C±P°Cí PrPsP±CḥPμ PíCḥPsPIPμPrPμPSPëC... PrPsCíP»C-PrP¶PμPSCḥ Cí PrPIPSc...
PIPëPrC-PI.

P’C-PrPíPsPIC-PrPSPëC... PeP»C-PSC-C±PSPëC... PrP°PSPëC... PSPμPrPsCíC,P°C,PSCḥPs
PrP»C¼ PsC†C-PSPePë PjPsP¶P»PëPIPëC... C,PμCḥP°C,PsPíPμPSPSPëC... P°P±Ps
C,,PμC,PsC,PsPeCíPëC±PSPëC... PμC,,PμPeC,C-PI P°PjC-PsPrP°CḥPsPSCí PíCḥPë PNëPsPíPs
PIPIPμPrPμPSPSC- Cí P»C-PeCíPIP°P»CHPSPëC... PrPsP·P°C... Cí PíPμCḥC-PsPr 1
C,CḥPëPjPμCíC,CḥCí PIP°PíC-C,PSPsCíC,C-.

PḥCíPeC-P»CHPePë C%PëC,PsPIPëPrPSP° P·P°P»PsP·P° PíP»PsPrP° PíPsC±PëPSP°C”
P·PIBḥ™ C¼P·CíPIP°C,Pë PNëPsPr P· 14 C,PëP¶PSC¼, PSPμ PsC±C-PeCíC”C,CHCíC¼
PSC-C¼PePsPíPs PIPíP»PëPICí PSP° PμPjP±CḥC-PsPSP°P»CHPSCí C%PëC,PsPIPëPrPSCí
P·P°P»PsP·Cí, C¼PeC%Ps PíCḥPμPíP°CḥP°C, P·P°CíC,PsCíPsPICíPIP°PICíC¼ PrPs C†CHPsPíPs
C±P°CíCí.B B B

PkP°PrPjC-CḥPSP° PeC-P»CHPeC-CíC,CH PNëPsPrCí, C%Ps PSP°PrC...PsPrPëC,CH PrPs
PsCḥPíP°PSC-P·PjCí PíCḥPë P·P°CíC,PsCíCíPIP°PSPSC- PrP°PSPsPíPs
P»C-PeP°CḥCíCḥPePsPíPs P·P°CíPsP±Cí, PI PíPμCḥC-PsPr PíCḥPëPNëPsPjCí
PíCḥPμPíP°CḥP°C,Cí PjPsP¶Pμ PíCḥPëP·PIPμCíC,Pë PrPs PIPëPSPëPePSPμPSPSC¼

PiC-PiPsC, PëCĤPμPsP·Cí Cí PīP»PsPrP° P°P±Ps PSP°PIC-C, CH PrPs CĤPsP·PIPëC, PeCí
PeP»C-PSC-C±PSPsC— PeP°CĤC, PëPSPë PiC-PiPsC, PëCĤPμPsP·Cí PīP»PsPrP° (CĤPsP·PIPëC, PsPe
P·PsP±P°).

P'ĤP°C...PsPICíCĤC±Pë PIPiP»PëPI P°PjC-PsPrP°CĤPsPSCí PSP° C%oPëC, PsPIPëPrPSCí
P·P°P»PsP·Cí PīP»PsPrP°, C†PμPMë PiCĤPμPīP°CĤP°C, PiCĤPsC, PëPiPsPeP°P·P°PSPëPMë P·P†P†
C, CĤPëPjPμCíC, CĤCí PIP°PiC-C, PSPsCíC, C-.

PμPμCĤC-PsPr PiPsPrCáPIP°PSPSCĬ PiCĤCáPrPrCĤ. PĥPjC-PsPrP°CĤPsPS C, P° PMëPsPiPs
PjPμC, P°P±PsP»C-C, Pë, CĤP°P·PsPj C-P· PMëPsPrPsPj, PμPeCíPeCĤPμC, CíCĤC, CHCíCĬ PI
PiCĤCíPrPSPμ PjPsP»PsPePs Cí P±C-P»CHCëC-PMë PeC-P»CHPePsCíC, C-, PSC-P¶ PIC-PS
PSP°CĬPIPSPëPMë Cí PīP»P°P·PjC- PjP°C, PμCĤC-. P'ĤP°C...PsPICíCĤC±Pë CĤPëP·PëPe
CĤPsP·PIPëC, PeCí PiC-PiPsC, PëCĤPμPsP·Cí PI PSPμPjPsPIP»CĬC, Pë, PiPsPrCíPIP°PSPSCĬ
PiCĤCíPrPrCĤ PiCĤPsC, PëPiPsPeP°P·P°PSPμ Cí PiPμCĤC-PsPr P»C-PeCíPIP°PSPSCĬ
P°PjC-PsPrP°CĤPsPSPsPj.

P—PrP°C, PSC-CíC, CH PIPiP»PëPIP°C, Pë PSP° CëPIPëPrPeC-CíC, CH CĤPμP°PeC†C-C— PiCĤPë
PePμCĤCáPIP°PSPSC- P°PIC, PsC, CĤP°PSCíPīPsCĤC, PsPj P°P±Ps C-PSCëPëPjPë
PjPμC...P°PSC-P·PjP°PjPë. PŸP»C-Pr PICĤP°C...CíPIP°C, Pë PjPsP¶P»PëPIC-CíC, CH
CĤPsP·PIPëC, PeCí PīPsP±C-C±PSPëC... CĤPμP°PeC†C-PMë P· P±PsPeCí PSPμCĤPIPiPsC—
CíPëCíC, PμPjPë C, P° PsCĤPiP°PSC-PI P·PsCĤCí.

PŸPiPsCíC-P± P·P°CíC, PsCíCáPIP°PSPSCĬ C, P° PrPsP·Pë.

PμPsC±P°C, PePsPIPμ P»C-PeCáPIP°PSPSCĬ. P—PIPëC±P°PMëPSP° CĤPμPePsPjPμPSPPrPsPIP°PSP°
PrPsP·P° PiCĤPμPīP°CĤP°C, Cí Bĥ" PīPs 200 PjPi (1 C, P°P±P»PμC, PeP°) 3 CĤP°P·Pë PSP°
PrPsP±Cí PiCĤPsC, CĬPiPsPj 8-10 PrPSC-PI. Pj PrPμCĬPePëC... PIPëPīP°PrPeP°C...B
PīP°C†C-C" PSC, Cí PjPsP¶CíC, CH P·PSP°PrPsP±PëC, PëCíCĬ P±C-P»CHCë PIPëCíPsPeC-
PrPsP·Pë (4-5 C, P°P±P»PμC, PsPe PSP° PrPsP±Cí), P°P»Pμ P·P°PIP¶PrPë PiCĤPsC, CĬPiPsPj
PePsCĤPsC, PePsPiPs PīPμCĤC-PsPrCí C±P°CíCí C, P° PiC-Pr
PμP»PμPeC, CĤPsPeP°CĤPrC-PsPiCĤP°C,, C-C±PSPëPj PePsPSC, CĤPsP»PμPj.

PμC-PrC, CĤPëPjCáCĤC±Pμ P»C-PeCáPIP°PSPSCĬ. PŸP»C-Pr P·P°CíC, PsCíPsPICíPIP°C, Pë
PjC-PSC-PjP°P»CHPSCí PμC,, PμPeC, PëPIPSCí PrPsP·Cí, CĬPeP° P±CíPrPμ
C-PSPPrPëPIC-PrCíP°P»CHPSPsCĤ PrP»CĬ PePsP¶PSPsPiPs PīP°C†C-C" PSC, P°, C- PjPsP¶Pμ
CíC, P°PSPsPIPëC, Pë PIC-Pr ½ C, P°P±P»PμC, PePë PSP° PrPsP±Cí (1 C, P°P±P»PμC, PeP°
PePsP¶PSC- 2 PrPSC-) PrPs 2 C, P°P±P»PμC, PsPe PSP° PrPsP±Cí.

P" C-C, Pë. P'PμP·PīPμPeP° C, P° PμC,, PμPeC, PëPIPSC-CíC, CH P·P°CíC, PsCíCíPIP°PSPSCĬ
P°PjC-PsPrP°CĤPsPSCí Cí PrC-C, PμPMë PSPμ PICíC, P°PSPsPIP»PμPSC-, C, PsPjCíB
P·P°CíC, PsCíCíPIP°PSPSCĬ PiCĤPμPīP°CĤP°C, Cí PrC-C, CĬPj PSPμ
CĤPμPePsPjPμPSPPrCíC" C, CHCíCĬ. PĥP°CĬPIPSC- PSP°CĤP°P·C- PrP°PSC- PIPeP°P·P°PSC- PI
CĤPsP·PrC-P»C- B«PαP°CĤPjP°PePsP»PsPiC-C±PSC- PIP»P°CíC, PëPIPSCíC, C-B».

PμPμCĤPμPrPsP·CáPIP°PSPSCĬ. P'PëPīP°PrPePë PiPsCíC, CĤPsPiPs

PiPμCηPμPrPsP·CfPIP°PSPSCΠ P°PjC-PsPrP°CηPsPSCf PiCηPë P·P°CfC,PsCfCfPIP°PSPSC-
PIPSCfC,CηC-CεPSCηPs PSPμPrPsCfC,P°C,PSCηPs PrPsPeCfPjPμPSC,PsPIP°PSC-.
P—P°C,,C-PeCfPsPIP°PSPs PeC-P»CHPeP° PIPëPiP°PrPeC-PI PIPëPSPëPePSPμPSPSCΠ
CfPëPSCfCfPsPIPsC— P±CηP°PrPëPeP°CηPrC-C—, CεP»CfPSPsCfPePsPIPëC...
P°CηPëC,PjC-PNë, PsCfPsP±P»PëPIPs B«torsades de pointesB», C,P° CfCηP°P¶PμPSPSCΠ
PiPμCfC-PSPePë. P>C-PeCfPIP°PSPSCΠ PjP°C” P±CfC,Pë CfPëPjPiC,PsPjP°C,PëCfPSPëPj.
P’CηP°C...PsPICfCηCfPë C,,P°CηPjP°PePsPeC-PSPμC,PëCfPSPëPNë PiCηPsC,,C-P»CH
CfCHPsPiPs PiCηPμPiP°CηP°C,Cf, CηPμPePsPjPμPSPPrPsPIP°PSPμ
PjPsPSC-C,PsCηCfPIP°PSPSCΠ CfC,P°PSCf PiP°CfC-C”PSC,P°, PsCfPsP±P»PëPIPs
C,,CfPSPeCfC-C— CfPμCηCfCΠ, PiCηPsC,CΠPiPsPj PrPsCfPëC,CH C,CηPëPIP°P»PsPiPs
PiPμCηC-PsPrCf.

PηPjC-PsPrP°CηPsPS C,P° PNëPsPiPs PjPμC,P°P±PsP»C-C,Pë PSPμ PIPëPIPsPrCfC,CηCfCf P·P°
PrPsPiPsPjPsPiPsCη PrC-P°P»C-P·Cf.

PμPsP±C-CfPSC- CηPμP°PeCfC-C—. PμPsP±C-CfPSC- PμC,,PμPeC,Pë
PeP»P°CfPëC,,C-PePsPIP°PSC- P·P° CfPëCfC,PμPjPsCη PsCηPiP°PSC-PI C,P° CfP°CfC,PsC,PsCη
PIPëPSPëPePSPμPSPSCΠ:

PrCfP¶Pμ CfP°CfC,Ps (≥ 10 %); CfP°CfC,Ps (≥ 1 %, < 10 %); PSPμCfP°CfC,Ps (≥ 0,1 %, < 1 %);
CηC-PrPePs (≥ 0,01 %,B < 0,1%); PrCfP¶Pμ CηC-PrPePs (< 0,01 %), CfP°CfC,PsC,P°
PSPμPIC-PrPsPjP° (PSPμPjPsP¶P»PëPIPs PsCfC-PSPëC,Pë P·P° PSP°CfPIPSPëPjPë PrP°PSPëPjPë).

P PsP·P»P°PrPë P· P±PsPeCf PsCηPiP°PSC-PI P·PsCηCf.

P”CzP¶Pμ CfP°CfC,Ps. PηC-PeCηPsPrPμPiPsP·PëC,Pë Cf CηPsPiC-PICfC-, PjP°PNëP¶Pμ Cf
PICfC-C... PrPsCηPsCfP»PëC... PsCfC-P±, P·P°P·PIPëCfP°PNë P·PSP°C...PsPrCfC,CηCfCf Cf
PjPμP¶P°C... PrC-P»CfPSPePë PiC-Pr P·C-PSPëCfPμCη, CfPeC- PSPμ PIPëPjP°PiP°CηC,CH
PIC-PrPjC-PSPë P°PjC-PsPrP°CηPsPSCf. Pj PIPëPeP»CηCfPSPëC... PIPëPiP°PrPeP°C... PIPsPSPë
P°CfPsCfC-PNëPsPIP°PSC- P· PePsP»CHPsCηPsPIPëPjPë PiP°P»Ps PI
PsCfP»C-PiP»CηCηCfPsPjCf CfPIC-C,P»C- P°P±Ps C-P· P·P°C,CfPjP°PSPμPSPSCfPj P·PsCηCf.

PηC-PeCηPsPrPμPiPsP·PëC,Pë Cf CηPsPiC-PICfC- PiCηPμPrCfC,P°PIP»CfCηC,CH CfPsP±PsCη
CfPeP»P°PrPSC- P»C-PiC-PrPSC- PIC-PrPeP»P°PrPμPSPSCΠ C,P° P·P°PIP¶PrPë C”
PiPsPIPSC-CfC,Cη PsP±PsCηPsC,PSPëPjPë PiC-CfP»Cf PIC-PrPjC-PSPë PiCηPμPiP°CηP°C,Cf.

P”CzP¶Pμ CηC-PrPePs. PkPμPNëCηPsPiP°C,C-Cf P·PsCηPsPIPsPiPs PSPμCηPIP° (PSPμPICηPëC,
P·PsCηPsPIPsPiPs PSPμCηPIP°),B P· PSPμCfC-C,PeC-CfC,Cη C,P° PiPsPiC-CηCεPμPSPSCfPj
P·PsCηCf, P° C,P°PePsP¶, P·P° CηPμP·CfP»CHC,P°C,P°PjPë PsPiP»CfPrCf PsCfPSPsPiPs PrPSP°,
P· PSP°P±CηCfPePsPj CfPsCfPeP° P·PsCηPsPIPsPiPs PSPμCηPIP°, C%Ps PjPsP¶Pμ
PiCηPsPiCηPμCfCfPIP°C,Pë PrPs P±C-P»CHCε P°P±Ps PjPμPSCε C,CfP¶PePsPiPs
P·PSPëP¶PμPSPSCΠ PiPsCfC,CηPsC,Pë P·PsCηCf. PμCηPëCfPëPSPSPs-
PSP°CfP»C-PrPePsPIPëPNë P·PiBη™ CfP·PsPe CfCHPsPiPs PiPsP±C-CfPSPsPiPs CfPIPëC%P° P·
PiCηPëPNëPsPjPsPj P°PjC-PsPrP°CηPsPSCf PSP° CfCηPsPiPsPrPSC-CεPSC-PNë PrPμPSCη PSPμ
PICfC,P°PSPsPIP»PμPSPëPNë. PμCηPsC,Pμ Cf CηP°P·C- PIC-PrCfCfC,PSPsCfC,C- C-PSCεPëC...
PsCfPμPIPëPrPSPëC... PiCηPëCfPëPS CηPsP·PIPëC,PeCf CfCHPsPiPs PiPsP±C-CfPSPsPiPs
CfPIPëC%P° CηPμPePsPjPμPSPPrPsPIP°PSPs PIC-PrPjC-PSPëC,Pë P°PjC-PsPrP°CηPsPS.

P PsP·P»P°PrPë P· P±PsPeCř C€PeC-CĤPë C,P° PïC-PrC€PeC-CĤPSPsC—
PeP»C-C,PePsPIPëPSPë.

P" CžP¶Pµ CžP°CřC,Ps. PαPsC,PsCřPµPSCřPëP±C-P»C-P·P°C†C-CĬ.
P PµPePsPjPµPSPřPsPIP°PSPs CřPSPëPeP°C,Pë PIPïP»PëPICř CřPsPSCĬCžPSPsPiPs
PIPëPïCĤPsPjC-PSCĤPIP°PSPSCĬ (C,P° CřP»CHC,CĤP°C,,C-PsP»PµC,PsPIPsPiPs
PIPëPïCĤPsPjC-PSCĤPIP°PSPSCĬ PI C†C-P»PsPjCř) PïC-Pr CžP°Cř P»C-PeCřPIP°PSPSCĬ
PïCĤPµPïP°CĤP°C,PsPj.

*PšP°CřC,Ps. PµC-PiPjPµPSC,P°C†C-C— C€PeC-CĤPë CřPëPSCĤC€PSPsPiPs P°P±Ps
CřPëPSCĤC€PSPs-CřC-CĤPsPiPs PePsP»CHPsCĤCř, CĬPeC- PIPëPSPëPeP°CĤC,CH PSP° C,P»C-
C,CĤPëPIP°P»PsPiPs PïCĤPëPNëPsPjCř PIPëCřPsPePëC... PrPsP±PsPIPëC... PrPsP·
PïCĤPµPïP°CĤP°C,Cř C,P° PïPsPIC-P»CHPSPs P·PSPëPeP°CĤC,CH PïC-CřP»CĬ PIC-PrPjC-PSPë
PïCĤPµPïP°CĤP°C,Cř (PïCĤPsC,CĬPiPsPj 10-24 PjC-CřCĬC†C-PI).*

*P" CžP¶Pµ CĤC-PrPePs. P·CĤPëC,PµPjP° PSP° C,P»C- PïCĤPsPjPµPSPµPIPsC— C,PµCĤP°PïC-C—.
PëPeC-CĤPSC- PIPëCřPëPïP°PSPSCĬ, P·P°P·PIPëCžP°PNë PSPµCřPïPµC†PëC,,C-CžPSC-.
P·PeCřC,,PsP»C-P°C,PëPIPSPëPNë PrPµCĤPjP°C,PëC,, C...PsCžP° PïCĤPëCžPëPSPSPs-
PSP°CřP»C-PrPePsPIPëPNë P·PIBĤ™ CĬP·PsPe C†CHPsPiPs PïPsP±C-CžPSPsPiPs CĬPIPëC%P° P·
PïCĤPëPNëPsPjPsPj PïCĤPµPïP°CĤP°C,Cř PSP° CřCHPsPiPsPrPSC-C€PSC-PNë PrPµPSCĤ
CžC-C,PePs PSPµ PICřC,P°PSPsPIP»PµPSPëPNë. PĥP»PsPïPµC†C-CĬ.*

*PšP°CřC,PsC,P° PSPµPIC-PrPsPjP°: P·PeP·PµPjP°. PÿCĬP¶PeC-, C-PSPsPrC-
CřPjPµCĤC,PµP»CHPSC-, C€PeC-CĤPSC- CĤPµP°PeC†C-C—, Cř C,PsPjCř CžPëCřP»C-
C,PsPeCřPëCžPSPëPNë PµPïC-PrPµCĤPjP°P»CHPSPëPNë PSPµPeCĤPsP»C-P· (CřPëPSPřCĤPsPj
P»P°PNëC" P»P°) C,P° CřPëPSPřCĤPsPj PÿC,C-PIPµPSCřP°-P" P¶PsPSCřPsPSP°.
P·CřP»CHPsP·PSPëPNë PrPµCĤPjP°C,PëC,. PÿPëPSPřCĤPsPj DRESS
(PjPµPrPëPeP°PjPµPSC,PsP·PSPµ PIPëCřPëPïP°PSPSCĬ P· PµPsP·PëPSPsC,,C-P»C-C"Ĥ C,P°
CřPëCřC,PµPjPSPsCĤ CřPëPjPïC,PsPjP°C,PëPePsCĤ).*

P·PSPřPsPeCĤPëPSPSC- CĤPsP·P»P°PrPë.

P PsP·P»P°PrPë P· P±PsPeCř PµPSPřPsPeCĤPëPSPSPsC— CřPëCřC,PµPjPë.

PµPsP±C-CžPSC- PµC,,PµPeC,Pë P· P±PsPeCř C%PëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë.

*P" CžP¶Pµ CžP°CřC,Ps. P—P° PIPëPSCĬC,PePsPj PIPëPïP°PrPeC-PI, PePsP»Pë PïCĤPëCřCřC,PSC-
PeP»C-PSC-CžPSC- PsP·PSP°PePë PrPëCřC,,CřPSPeC†C-C— C%PëC,PsPIPëPrPSPsC—
P·P°P»PsP·Pë, B«PSPµ PïPsPIBĤ™ CĬP·P°PSC- P· PïCĤPëPNëPsPjPsPj PïCĤPµPïP°CĤP°C,CřB»
P·PjC-PSPë P· P±PsPeCř PIPjC-CřC,Cř PiPsCĤPjPsPSC-PI C%PëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë
Cř PeCĤPsPIC- (P·P±C-P»CHC€PµPSPëPNë CĤC-PIPµPSCĤ T4, PSPsCĤPjP°P»CHPSPëPNë P°P±Ps
PrPµC%Ps P·PjPµPSC€PµPSPëPNë CĤC-PIPµPSCĤ T3) PSPµ PIPëPjP°PïP°CĤC,CH
PIC-PrPjC-PSPë PïCĤPµPïP°CĤP°C,Cř.*

*PšP°CřC,Ps. P"C-PïPsC,PëCĤPµPsP· PsP±CřPjPsPIP»CĤC" C,PëPïPsPIC- CřPëPjPïC,PsPjPë:
P·P±C-P»CHC€PµPSPSCĬ PjP°CřPë C,C-P»P°, PSPµPïPµCĤPµPSPsCřPëPjC-CřC,CH
C...PsP»PsPrCř, P°PïP°C,C-CĬ, CřPsPSP»PëPIC-CřC,CH. P—PSP°CžPSPµ
PïC-PrPIPëC%PµPSPSCĬ CĤC-PIPSC-PI PÿPÿP" PïC-PrC,PIPµCĤPřP¶CřC" C†PµPNë*

PrC-P°PiPSPsP·. PμC-CÍP»CÍ PíCĤPëPíPëPSPμPSPSCÍ P»C-PeCfPIP°PSPSCÍ
PíCĤPμPíP°CĤP°C,PsPj PSPsCĤPjP°P»CHPSP° C,,CfPSPeC†C-CÍ C%oPëC,PsPIPëPrPSPsC—
P·P°P»PsP·Pë PíPsCÍC,CfPíPsPíPs PIC-PrPSPsPIP»CĤC”C,CHCÍCÍ PíPíCĤPsPrPsPIP¶
PíPμCĤC-PsPrCf PIC-Pr 1 PrPs 3 PjC-CÍCÍC†C-PI. P’C-PrPjC-PSP° PíCĤPμPíP°CĤP°C,Cf PSPμ
PsP±PsPíBĤ™ CÍP·PePsPIP°: Cf PíPëPíP°PrPeCf, PePsP»Pë P·P°CÍC,PsCÍCfPIP°PSPSCÍ
P°PjC-PsPrP°CĤPsPSCf PSPμPsP±C...C-PrPSPμ, P»C-PeCfPIP°PSPSCÍ C†PëPj
PíCĤPμPíP°CĤP°C,PsPj PjPsP¶PSP° PíCĤPsPrPsPIP¶CfPIP°C,Pë Cf PePsPjP±C-PSP°C†C-C— C-P·
P·P°PjC-CÍPSPsCĤ PíPsCĤPjPsPSP°P»CHPSPsCĤ C,PμCĤP°PíC-C”CĤ PíPsCĤPjPsPSP°PjPë
C%oPëC,PsPIPëPrPSPsC— P·P°P»PsP·Pë C-P· P·P°CÍC,PsCÍCfPIP°PSPSCÍPj
P»PμPIPSc,PëCĤPsPeCÍPëPSCf. P”PsP·Pë L-C,PëCĤPsPeCÍPëPSCf PjPsP¶CfC,CH P±CfC,Pë
PIC-PrPePsCĤPëPíPsPIP°PSC-B P·P°P»PμP¶PSPs PIC-Pr CĤC-PIPSC-PI PÿPÿP”.

P”C-PíPμCĤC,PëCĤPμPsP· PíCÍC,P°PSPsPIPëC,Pë PíP°P¶C†Pμ: CÍPëPjPíC,PsPjP°C,PëPeP°
PjPμPSC€ PíPëCĤP°P¶PμPSP° (PSPμP·PSP°C†PSPμ P·PjPμPSC€PμPSPSCÍ PjP°CÍPë C,C-P»P°,
C%oPs PSPμ PjP°C” PíCĤPëC†PëPSPë, PSPμPrPsCÍC,P°C,PSCÍ PμC,,PμPeC,PëPIPSC-CÍC,CH
P°PSC,PëP°PSíC-PSP°P»CHPSPëC... C,P°/P°P±Ps P°PSC,PëP°CĤPëC,PjC-C†PSPëC...
P»C-PeP°CĤCÍCHPePëC... P·P°CÍPsP±C-PI); Cf PíP°C†C-C”PSC,C-PI P»C-C,PSCHPsPíPs
PIC-PeCf CÍPíPsCÍC,PμCĤC-PíP°CĤC,CHCÍCÍ PíCÍPëC...C-C†PSC- CÍPëPjPíC,PsPjPë,
PSP°PIC-C,CH C,PëCĤPμPsC,PsPeCÍPëPePsP·.

P—PSP°C†PSPμ P·PSPëP¶PμPSPSCÍ CĤC-PIPSC-PI PíPëCÍPsPePsC†CfC,P»PëPíPsPíPs PÿPÿP”
PíC-PrC,PIPμCĤPPrP¶CfC” C†PμP№ PrC-P°PiPSPsP·. Pj C,P°PePsPjCf PíPëPíP°PrPeCf
PSPμPsP±C...C-PrPSPs PsP±PsPíBĤ™ CÍP·PePsPíPs PIC-PrPjC-PSPëC,Pë P°PjC-PsPrP°CĤPsPS,
C†PsPíPs, CÍPe PíCĤP°PíPëP»Ps, PrPsCÍC,P°C,PSCHPs PrP»CÍ PSP°CÍC,P°PSPSCÍ
PeP»C-PSC-C†PSPsC— PSPsCĤPjP°P»C-P·P°C†C-C— PíCĤPsC,CÍPíPsPj 3-4 C,PëP¶PSC-PI.
PĥCÍPeC-P»CHPePë CÍPμCĤP№PsP·PSC- PíPëPíP°PrPePë C†CHPsPíPs PíPsP±C-C†PSPsPíPs
CÍPIPëC%oP° PjPsP¶CfC,CH P±CfC,Pë P»PμC,P°P»CHPSPëPjPë, PSPμPsP±C...C-PrPSPs
PSPμPIC-PrPeP»P°PrPSPs CĤPsP·PíPsC†P°C,Pë PSP°P»PμP¶PSCf C,PμCĤP°PíC-CĤ.

Pj PíPëPíP°PrPeCf, PePsP»Pë PíCĤPëC†PëPSPsCĤ PíCĤPsP±P»PμPj C”
C,PëCĤPμPsC,PsPeCÍPëPePsP· (CÍPe P±PμP·PíPsCÍPμCĤPμPrPSCĤPs, C,P°Pe C- C†PμCĤPμP·
P№PsPíPs PíPíP»PëPí PSP° CíCĤP°P·P»PëPíCf CĤC-PIPSPsPIP°PíCf PjC-PsPeP°CĤPPrP°),
PíP°CĤC-P°P±PμP»CHPSC-CÍC,CH PμC,,PμPeC,PëPIPSPsCÍC,C- CÍPëPSC,PμC,PëC†PSPëC...
P°PSC,PëC,PëCĤPμPsC—PrPSPëC... PíCĤPμPíP°CĤP°C,C-PI PsP±CfPjPsPIP»CĤC”
PSPμPsP±C...C-PrPSC-CÍC,CH CĤPμPePsPjPμPSPPrCfPIP°C,Pë PíCĤPëP№PsPj PíPëCÍPsPePëC...
PrPsP· PePsCĤC,PëPePsCÍC,PμCĤPsC—PrC-PI (1 PjPí/PePí) PíCĤPsC,CÍPíPsPj
PrPsCÍC,P°C,PSCHPs C,CĤPëPíP°P»PsPíPs PíPμCĤC-PsPrCf (3 PjC-CÍCÍC†C-PI).
PμPsPIC-PrPsPjP»CÍP»PsCÍCÍ PíCĤPs PíPëPíP°PrPePë PíC-PíPμCĤC,PëCĤPμPsP·Cf
C,CĤPëPíP°P»C-CÍC,CĤ PrPs PeC-P»CHPePsC... PjC-CÍCÍC†C-PI PíC-CÍP»CÍ PIC-PrPjC-PSPë
P°PjC-PsPrP°CĤPsPSCf.

P†PSC€C- PμPSPPrPsPeCĤPëPSPSC- CĤPsP·P»P°PrPë.

P”CfP¶Pμ CĤC-PrPeC-CÍPSC- PíPëPíP°PrPePë PÿPáPÿPĥP” (CÍPëPSPPrCĤPsPjCf
PSPμP°PrPμPePIP°C,PSPsC— CÍPμPeCĤPμC†C-C— P°PSC,PëPrC-CfCĤPμC,PëC†PSPsPíPs
PíPsCĤPjPsPSCf), PsCÍPsP±P»PëPíPs CÍPeC%oPs P°PjC-PsPrP°CĤPsPS
P·P°CÍC,PsCÍPsPíCfCĤC,CH PsPrPSPsC†P°CÍPSPs P· P»C-PeP°CĤCÍCHPePëPjPë
P·P°CÍPsP±P°PjPë, CÍPeC- PjPsP¶CfC,CH C-PSPPrCfPeCfPIP°C,Pë
PíC-PíPsPSP°C,CĤC-C”PjC-CĤ. PÿP°PePsP¶ PrPëPí. B«P PμP·CfP»CHC,P°C,Pë
PrPsCÍP»C-PrP¶PμPSCĤB».

P PsP·P»P°PrPë P· P±PsPeCf CḡPμCfPīC-CḡP°C,PsCḡPSPsC— CḡPëCḡC,PμPjPë,
PiCḡCfPrPSPsC— PeP»C-C,PePë C,P° CḡPμCḡPμPrPsCḡC,C-PSPSCḡ.

*PḡP°CḡC,Ps. PμPsPIC-PrPsPjP»CḡP»PsCḡCḡ PīCḡPs PIPëPīP°PrPePë PrPëC,,CfP·PSPsPiPs
C-PSC,PμCḡCḡC,PëCḡC-P°P»CḡPSPsPiPs P°P±Ps P°P»CḡPIPμPsP»CḡCḡPSPsPiPs
PīPSPμPIPjPsPSC-C,Cf C,P° PsP±P»C-C,PμCḡCfCḡC±PsPiPs P±CḡPsPSC...C-PsP»C-C,Cf P·
PīPSPμPIPjPsPSC-C”Cḡ CḡPeP»PμCḡPsC,PëC±PSPsPiPs C,PëPīCf, C-PSPePsP»Pë P·
P»PμC,P°P»CḡPSPëPj PSP°CḡP»C-PrPePsPj. PμPsCḡPIP° P·P°PrPëCëPePë PīCḡPë
C,,C-P·PëC±PSPsPjCf PSP°PIP°PSC,P°PḡPμPSPSC- P°P±Ps CḡCfC...PsPiPs PeP°CëP»Cḡ, CḡPe
C-P·PsP»CḡPsPIP°PSPëC..., C,P°Pe C- P°CḡPsCḡC-PNëPsPIP°PSPëC... C-P·
PīPsPiC-CḡCëPμPSPSCḡPj P·P°PīP°P»CḡPSPsPiPs CḡC,P°PSCf (PīC-PrPIPëC%PμPSP°
PIC,PsPjP»CḡPIP°PSC-CḡC,Cḡ, P·PSPëPḡPμPSPSCḡ PjP°CḡPë C,C-P»P° C,P° PSPμPIPμP»PëPePμ
PīC-PrPIPëC%PμPSPSCḡ C,PμPjPīPμCḡP°C,CfCḡPë C,C-P»P°), PīPsC,CḡPμP±CfC”
CḡPμPSC,PiPμPSPsP»PsPiC-C±PSPsPiPs PsP±CḡC,PμPḡPμPSPSCḡ C,P°, PīCḡPë
PSPμPsP±C...C-PrPSPsCḡC,C-, PIC-PrPjC-PSPë PīCḡPμPīP°CḡP°C,Cf, PsCḡPeC-P»CḡPePë CḡC-
P·P°C...PIPsCḡCḡPIP°PSPSCḡ P»PμPiPμPSCḡ PjPsPḡCfC,Cḡ PīCḡPëP·PIPPrPëC,Pë PrPs
P»PμPiPμPSPμPIPsPiPs C,,C-P±CḡPsP·Cf.*

*P P°PSPSCḡ PIC-PrPjC-PSP° P°PjC-PsPrP°CḡPsPSCf, CḡP°P·PsPj C-P·
PīCḡPëP·PSP°C±PμPSPSCḡPj C,PμCḡP°PīC-C— PePsCḡC,PëPePsCḡC,PμCḡPsC—PrP°PjPë P°P±Ps
P±PμP· PSPμC—, PīCḡPëP·PIPPrCḡC,Cḡ PrPs PīPsCḡC,CfPīPsPIPpsPiPs P·PSPëPePSPμPSPSCḡ
CḡPëPjPīC,PsPjP°C,PëPePë. PḡP»C-PSC-C±PSC- PsP·PSP°PePë P·P°P·PIPëC±P°PNë
P·PSPëPeP°CḡC,Cḡ PīCḡPsC,CḡPiPsPj 3-4 C,PëPḡPSC-PI; PīPsPeCḡP°C%P°PSPSCḡ
CḡPμPSC,PiPμPSPsP»PsPiC-C±PSPsC— PeP°CḡC,PëPSPë C,P° P»PμPiPμPSPμPIPpsC—
C,,CfPSPeCḡC-C— PIC-PrP±CfPIP°C”C,CḡCḡCḡ PīPsPIC-P»CḡPSC-CëPμ (PīCḡPsC,CḡPiPsPj
PeC-P»CḡPePsC... PjC-CḡCḡCḡC-PI).*

*P—P°C,,C-PeCḡPsPIP°PSPs PeC-P»CḡPeP° PIPëPīP°PrPeC-PI CḡPsP·PIPëC,PeCf
PīP»PμPICḡPëC,Cf, P·P°P·PIPëC±P°PNë P°CḡPsCḡC-PNëPsPIP°PSPsPiPs P·
C-PSC,PμCḡCḡC,PëCḡC-PNëPSPsCḡ PīPSPμPIPjPsPīP°C,C-C”Cḡ.*

*P”CáPḡPμ CḡC-PrPePs. P’CḡPsPSC...PsCḡPīP°P·Pj Cf PīP°CḡC-C”PSC,C-PI P· PīPsCḡC,CḡPsCḡ
PrPëC...P°P»CḡPSPsCḡ PSPμPrPsCḡC,P°C,PSC-CḡC,Cḡ, PsCḡPsP±P»PëPIPs Cf
PīP°CḡC-C”PSC,C-PI P· P±CḡPsPSC...C-P°P»CḡPSPsCḡ P°CḡC,PjPsCḡ. P”PsCḡC,CḡPëPNë
CḡPμCḡPīC-CḡP°C,PsCḡPSPëPNë PrPëCḡC,CḡPμCḡ-CḡPëPSPPrCḡPsPj, PI PsPeCḡPμPjPëC...
PIPëPīP°PrPeP°C... Bḡ” P· P»PμC,P°P»CḡPSPëPj PSP°CḡP»C-PrPePsPj, C-PSPsPrC- Cf
CḡP°PSPSCḡPsPjCf PīPμCḡC-PsPrC- PīC-CḡP»Cḡ C...C-CḡCfCḡPīC-C±PSPsPiPs
PIC,CḡCfC±P°PSPSCḡ (PīC-PrPsP·CḡCḡPIP°P»P°CḡCḡ PjPsPḡP»PëPIP° PIP·P°C”PjPsPrC-Cḡ P·
PIPëCḡPsPePëPjPë PrPsP·P°PjPë PePëCḡPSCḡ) (PrPëPI. CḡPsP·PrC-P»B
B«PḡCḡPsP±P»PëPIPsCḡC,C- P·P°CḡC,PsCḡCfPIP°PSPSCḡB»).*

*PḡP°CḡC,PsC,P° PSPμPIC-PrPsPjP° (PSPμ PjPsPḡPμ P±CfC,Pë PsCḡC-PSPμPSP° P·P°
PrPsCḡC,CfPīPSPëPjPë PrP°PSPëPjPë). PμPsPIC-PrPsPjP»CḡP»PsCḡCḡ PīCḡPs PIPëPīP°PrPePë
P»PμPiPμPSPμPIPpsC— PeCḡPsPIPpsC,PμC±C-, CḡPeC- Cf PrPμCḡPePëC... PIPëPīP°PrPeP°C...
PjPsPḡCfC,Cḡ PjP°PSC-C,,PμCḡC,CfPIP°C,Pë PeCḡPsPIPpsC...P°CḡPeP°PSPSCḡPj. PīC-
P»PμPiPμPSPμPIC- PīPsP±C-C±PSC- PμC,,PμPeC,Pë C±P°CḡC,Ps P°CḡPsCḡC-PNëPsPIP°PSC- P·
PīPSPμPIPjPsPīP°C,C-C”Cḡ, C-PSPPrCfPePsPIP°PSPsCḡ P°PjC-PsPrP°CḡPsPSPsPj.*

P PsP·P»P°PrPë P· P±PsPeCf PSPμCḡPIPpsPIPpsC— CḡPëCḡC,PμPjPë.

PšP°CÍC,Ps. PŷCĤPμPjPsCĤ P°P±Ps C-PSC€P° PμPeCÍC,CĤP°PīC-CĤP°PjC-PrPSP°
CÍPëPjPīC,PsPjP°C,PëPeP°. PμPsCĤCíC€PμPSPSCÍ CÍPSCí, PI C,PsPjCí C±PëCÍP»C- PSC-C±PSC-
P¶P°C...Pë. PμPμCĤPëC,,PμCĤPëC±PSP° CÍPμPSCÍPsCĤPSPs-PjPsC,PsCĤPSP° P°P±Ps
P·PjC-C€P°PSP° PīPμCĤPëC,,PμCĤPëC±PSP° PSPμPNεCĤPsPīP°C,C-CÍ.

PkPμC±P°CÍC,Ps. PħC-PsPīP°C,C-CÍ. PμPμCĤPëC,,PμCĤPëC±PSP° CÍPμPSCÍPsCĤPSP° ,
PjPsC,PsCĤPSP° P°P±Ps P·PjC-C€P°PSP° PSPμPNεCĤPsPīP°C,C-CÍ C,P° PjC-PsPīP°C,C-CÍ
PjPsP¶CíC,Ch CĤPsP·PIPëPSCíC,PëCÍCÍ C±PμCĤPμP· PeC-P»CHPeP° PjC-CÍCÍC†C-PI
P»C-PeCíPIP°PSPSCÍ, P°P»Pμ C-PSPsPrC- PIPsPSPë PIPëPSPëPeP°CĤC,Ch C±PμCĤPμP·
PeC-P»CHPeP° CĤPsPeC-PI. PíC- PīPsP±C-C±PSC- CÍPIPëC%P°, CÍPe PīCĤP°PIPëP»Ps,
PsP±PsCĤPsC,PSC- PīC-CÍP»CÍ PīCĤPëPīPëPSPμPSPSCÍ P»C-PeCíPIP°PSPSCÍ. PμCĤPsC,Pμ
PsPrCíP¶P°PSPSCÍ PjPsP¶Pμ P±CíC,Pë PSPμPīPsPIPSPëPj, PrCíP¶Pμ PīPsPIC-P»CHPSPëPj C,P°
CÍPīPsCÍC,PμCĤC-PiP°C,PëCÍCÍ P»PëC€Pμ C±PμCĤPμP· PeC-P»CHPeP° PjC-CÍCÍC†C-PI
PīC-CÍP»CÍ PīCĤPëPīPëPSPμPSPSCÍ PīCĤPëPNεPsPjCí PīCĤPμPīP°CĤP°C,Cí.

P" CázP¶Pμ CĤC-PrPePs. PħPsP·PsC±PePsPIP° P°C,P°PeCÍC-CÍ. P"PsP±CĤPsCÍPeC-CÍPSP°
PIPSCíC,CĤC-C€PSCĤPsC±PμCĤPμPīPSP° PīC-PīPμCĤC,PμPSP·C-CÍ, PīPsP»PsPIPSPëPNε
P±C-P»CH. PμCĤPë PIPëPSPëPePSPμPSPSC- C-P·PsP»CHPsPIP°PSPsPiPs PīPsP»PsPIPSPsPiPs
P±PsP»CĤ PSPμPsP±C...C-PrPSPs PIPëPePsPSP°C,Pë PsP±CÍC,PμP¶PμPSPSCÍ PrP»CÍ
PIPëP·PSP°C±PμPSPSCÍ C—C— PjPsP¶P»PëPIPSC— PīCĤPëC±PëPSPë.

PšP°CÍC,PsC,P° PSPμPIC-PrPsPjP°:

PŷPëPSPPrCĤPsPj PīP°CĤPeC-PSCÍPsPSC-P·PjCí, PīP°CĤPsCÍPjC-CÍ.

-

P PsP·P»P°PrPë P· P±PsPeCí PīPμC±C-PSPePë C,P° P¶PsPIC±PsPIPëPIC-PrPSPëC...
C€P»CÍC...C-PI.

PμPsPIC-PrPsPjP»CÍP»PsCÍCÍ PīCĤPs PIPëPīP°PrPePë CíCĤP°P¶PμPSPSCÍ PīPμC±C-PSPePë;
C†C- PIPëPīP°PrPePë PrC-P°PīPSPsCÍC,CíPIP°P»PëCÍCÍ P·P° PīC-PrPIPëC%PμPSPëPjPë
CĤC-PIPSCÍPjPë C,CĤP°PSCÍP°PjC-PSP°P· Cí CÍPëCĤPsPIP°C,C†C- PeCĤPsPIC-
PμPsPIC-PrPsPjP»CÍP»PsCÍCÍ PīCĤPs PSP°CÍC,CíPīPSC- PīPsP±C-C±PSC- CÍPIPëC%P°:

P" CázP¶Pμ C±P°CÍC,Ps. P—P°P·PIPëC±P°PNε PīPsPjC-CĤPSPμ C,P° C-P·PsP»CHPsPIP°PSPμ
PīC-PrPIPëC%PμPSPSCÍ CĤC-PIPSC-PI C,CĤP°PSCÍP°PjC-PSP°P· (Cí 1,5-3 CĤP°P·Pë
PIPëC%Pμ PSPsCĤPjPë), CÍPePμ P·PSPëPeP°P»Ps PīC-CÍP»CÍ P·PjPμPSC€PμPSPSCÍ PrPsP·Pë
PīCĤPμPīP°CĤP°C,Cí P°P±Ps PSP°PIC-C,Ch CÍPīPsPSC,P°PSPSPs.

PšP°CÍC,Ps. P"PsCÍC,CĤPμ CíCĤP°P¶PμPSPSCÍ PīPμC±C-PSPePë P· PīC-PrPIPëC%PμPSPSCÍPj
CĤC-PIPSC-PI C,CĤP°PSCÍP°PjC-PSP°P· Cí CÍPëCĤPsPIP°C,C†C- PeCĤPsPIC- C,P°/P°P±Ps P·
P¶PsPIC,CÍPSPëC†PμCh, PIPeP»CĤC±P°CĤC±Pë PīPμC±C-PSPePsPICí
PSPμPrPsCÍC,P°C,PSC-CÍC,Ch, C-PSPsPrC- P»PμC,P°P»CHPSPμ, CÍPePμ PIPëPjP°PīP°C"
PIC-PrPjC-PSPë PīCĤPμPīP°CĤP°C,Cí.

P" CázP¶Pμ CĤC-PrPePs. PíCĤPsPSC-C±PSPμ CíCĤP°P¶PμPSPSCÍ PīPμC±C-PSPePë, CÍPePμ
PIPëPjP°PīP°C" C,CĤPëPIP°P»PsPiPs P»C-PeCíPIP°PSPSCÍ. P"C-CÍC,PsP»PsPiC-C±PSC-
P·PjC-PSPë PIC-PrPīPsPIC-PrP°CĤC,Ch PeP°CĤC,PëPSC-
PīCÍPμPIPPrPsP°P»PePsPiPsP»CHPSPsPiPs PīPμPīP°C,PëC,Cí P°P±Ps C†PëCĤPsP·Cí
PīPμC±C-PSPePë. PħCÍPeC-P»CHPePë PeP»C-PSC-C±PSC- C,P° P»P°P±PsCĤP°C,PsCĤPSC-
PsP·PSP°PePë PSPμ C±C-C,PePs PIPëCĤP°P¶PμPSC- (PIP°CĤC-P°P±PμP»CHPSP°

PiPμPīP° C,PsPjPμPiP°P»C-CI, PīC-PrPIPēC%PμPSPSCII CḡC-PIPSC-PI C,CḡP°PSCÍP°PjC-PSP°P·
Cf PeCḡPsPIC- Cí 1,5-5 CḡP°P·C-PI P±C-P»CHC€Pμ PIC-Pr PSPsCḡPjPē), PīPsPeP°P·P°PSPμ
CḡPμPiCfP»CII CḡPSPμ PjPsPSC-C,PsCḡCfPIP°PSPSCII C,,CfPSPeC†C-C— PīPμC†C-PSPePē. Pj
PIPēPīP°PrPeCf PīC-PrPIPēC%PμPSPSCII CḡC-PIPSC-PI C,CḡP°PSCÍP°PjC-PSP°P· Cí
PeCḡPsPIC-, PSP°PIC-C,CH PīPsPjC-CḡPSPsPiPs, C%Ps PIPēPSPēPeP°C” PīC-CÍP»CII
PīCḡPēPñPsPjCf PīCḡPμPīP°CḡP°C,Cf PīCḡPsC,CII PīPsPj P±C-P»CHC€ PSC-P¶ 6
PjC-CÍ CII C†C-PI, PSPμPsP±C...C-PrPSPs P·P°PīC-PrPsP·CḡPēC,Pē CḡPsP·PIPēC,PsPe
C...CḡPsPSC-C†PSPsPiPs CfCḡP°P¶PμPSPSCII PīPμC†C-PSPePē. P|C- PeP»C-PSC-C†PSC- C,P°
P±C-PsP»PsPiC-C†PSC- P·PjC-PSPē P·P°P·PIPēC†P°Pñ P·PSPēPeP°CḡC,CH PīC-CÍP»CII
PIC-PrPjC-PSPē PīCḡPμPīP°CḡP°C,Cf. P—P°C,,C-PeCÍPsPIP°PSPs PeC-P»CHPeP°
PsP±PsCḡPsC,PSPēC... PIPēPīP°PrPeC-PI C,P°PePēC... P·PjC-PS.

P PsP·P»P°PrPē P· P±PsPeCf CÍPμCḡC†CII.

*P§P°CÍ C,Ps. P°CḡP°PrPēPeP°CḡPrC-CII, P·P°P·PIPēC†P°Pñ PīPsPjC-CḡPSP° C,P°
PrPsP·PsP·P°P»PμP¶PSP°.*

*PkPμC†P°CÍ C,Ps. PμPsCḡCfC€PμPSPSCII PīCḡPsPIC-PrPSPsCÍ C,C- PjC-PsPeP°CḡPrP°
(CÍPēPSPsP°C,CḡC-P°P»CHPSP° P±P»PsPeP°PrP°, PḡV-P±P»PsPeP°PrP° CḡC-P·PSPsPiPs
CÍ C,CfPīPμPSCII).*

*P”CáP¶Pμ CḡC-PrPePs. P°PēCḡP°P¶PμPSP° P±CḡP°PrPēPeP°CḡPrC-CII C,P°, Cf
PIPēPeP»CḡC†PSPēC... PIPēPīP°PrPeP°C..., PIC-PrPjPsPIP° CÍPēPSCfCÍPsPiPs PICfP·P»P°,
PīCḡPs CII PeC- PīPsPIC-PrPsPjP»CII P»PsCÍ CII Cí PeC-P»CHPePsC... PIPēPīP°PrPeP°C... (PSP°
C,P»C- PrPēCÍ C,,CfPSPeC†C-C— CÍPēPSCfCÍPsPiPs PICfP·P»P°, Cí PīP°C†C-C”PSC,C-PI
P»C-C,PSCḡPsPiPs PIC-PeCf). P°PēPSPēPePSPμPSPSCII P°P±Ps PīPsPiC-CḡC€PμPSPSCII
C-CÍPSCfCḡC†PsC— P°CḡPēC,PjC-C—, CII PeP° C-PSPsPrC-
CÍ Cí PīCḡPsPiPsPrP¶CfC”C,CHCÍ CII P·CfPīPēPSPePsCḡ CÍPμCḡC†CII.*

*P§P°CÍ C,PsC,P° PSPμPIC-PrPsPjP°. PμP°CḡPsPeCÍPēP·PjP°P»CHPSP° C€P»CfPSPsC†PePsPIP°
C,P°C...C-PeP°CḡPrC-CII C,PēPīCfB B«torsade de pointesB».*

P PsP·P»P°PrPē P· P±PsPeCf C,CḡP°PIPSPsPiPs
C,CḡP°PeC,Cf.B
B B B B

*P”CáP¶Pμ C†P°CÍ C,Ps. PμPsPjC-CḡPSC- CḡPsP·P»P°PrPē C,CḡP°PIP»PμPSPSCII (PSCfPrPsC,P°,
P±P»CḡHIP°PSPSCII, PrPēCÍ PīPμPIP·C-CII), CII PeC- P·P°P·PIPēC†P°Pñ PIPēPSPēPeP°CḡC,CH
PSP° PīPsC†P°C,PeCf P»C-PeCfPIP°PSPSCII PīCḡPμPīP°CḡP°C,PsPj C,P° P·PSPēPeP°CḡC,CH
PīC-CÍP»CII P·PjPμPSC€PμPSPSCII PñPsPiPs PrPsP·Pē.*

*P§P°CÍ C,PsC,P° PSPμPIC-PrPsPjP°. PμP°PSPeCḡPμP°C,PēC,/PīPsCÍ C,CḡPēPñ
PīP°PSPeCḡPμP°C,PēC,, CÍ Cí C...C-CÍ C,CH Cí CḡPsC,C-, P·P°PīPsCḡPē.*

P PsP·P»P°PrPē P· P±PsPeCf PjPsP»PsC†PSPēC... P·P°P»PsP· C,P°
CḡPμPīCḡPsPrCfPeC,PēPIPSPsC— CÍPēCÍ C,PμPjPē.

*P" CžP¶Pµ CĤC-PrPePs. P·PīC-PrPëPrPëPjC-C,. PµCĤPëC±PëPSPSPs-PSP°CÍP»C-PrPePsPIPëPNë
P·PİBĤ™ CĬP·PsPe C†CHPsPiPs PİPsP±C-C†PSPsPiPs CĬPIPëC%oP° P· PīCĤPëPNëPsPjPsPj
C†CHPsPiPs P»C-PeP°CĤCÍCHPePsPiPs P·P°CÍPsP±C† PSP° CÍCHPsPiPsPrPSC-CëPSC-PNë
PrPµPSCĤ C±C-C,PePs PSPµ PICÍC,P°PSPsPIP»PµPSPëPNë.B*

PŞP°CÍC,PsC,P° PSPµPIC-PrPsPjP°: P·PSPëP¶PµPSPSCĬ P»C-P±C-PrPs.

P PsP·P»P°PrPë P· P±PsPeC† CÍC†PrPëPS.

P" CžP¶Pµ CĤC-PrPePs. P'P°CÍPeC†P»C-C,.

P PµP·C†P»CHC,P°C,Pë PrPsCÍP»C-PrP¶PµPSCĤ.

*P C-PrPePs. P C-PrPeC-CÍPSC- PIPëPİP°PrPePë PiC-PİPsPSP°C,CĤC-C" PjC-C— PjPsP¶C†C,CH
CÍPIC-PrC†PëC,Pë PīCĤPs CĤPsP·PIPëC,PsPe PŸPќPŸPĥP°.*

*P" CžP¶Pµ CĤC-PrPePs. PjCĤP°P¶PµPSPSCĬ PSPëCĤPsPe P· PīC-PrPIPëC%oPµPSPSCĬPj
CĤC-PIPSC-PI PeCĤPµP°C,PëPSC-PSC† PI CÍPëCĤPsPIP°C,C†C-.*

P PsP·P»P°PrPë P· P±PsPeC† PeCĤPsPIC- C,P° P»C-PjC,,P°C,PëC†PSPsC—
CÍPëCÍC,PµPjPë.

*P" CžP¶Pµ CĤC-PrPePs. P" PµPjPsP»C-C,PëC†PSP° P°PSPµPjC-CĬ, P°PİP»P°CÍC,PëC†PSP°
P°PSPµPjC-CĬ, C,CĤPsPjP±PsC†PëC,PsPİPµPSC-CĬ.*

PŞP°CÍC,PsC,P° PSPµPIC-PrPsPjP°: PќPµPNëC,CĤPsPİPµPSC-CĬ, P°PiCĤP°PSC†P»PsC†PëC,PsP.

P PsP·P»P°PrPë P· P±PsPeC† C-PjC†PSPSPsC— CÍPëCÍC,PµPjPë.

*PŞP°CÍC,PsC,P° PSPµPIC-PrPsPjP°. PµPsPIC-PrPsPjP»CĬP»PsCÍCĬ PīCĤPs PIPëPİP°PrPePë
P°PSPiC-PsPSPµPICĤPsC,PëC†PSPsPiPs PSP°P±CĤCĬPeC† C,P°/P°P±Ps
PeCĤPsPİPëPİBĤ™ CĬPSPPePë. PĥPSP°C,,C-P»P°PeC,PëC†PSPëPNë CëPsPe/
P°PSP°C,,C-P»P°PeC,PsC—PrPSP° CĤPµP°PeC†C-CĬ, PIPeP»CĤC†P°CĤC†Pë CëPsPe.*

P—P°PİP°P»CHPSC- CĤPsP·P»P°PrPë.

*PŞP°CÍC,PsC,P° PSPµPIC-PrPsPjP°. P—P°C,,C-PeCÍPsPIP°PSPs PIPëPİP°PrPePë
PiCĤP°PSC†P»CHPsPjPë, PiPsP»PsPIPSPëPj C†PëPSPsPj PiCĤP°PSC†P»CHPsPjPë
PeC-CÍC,PePsPIPsPiPs PjPsP·PeC†.*

PµPsCĤC†CëPµPSPSCĬ P· P±PsPeC† PsP±PjC-PSC† CĤPµC†PsPIPëPS C-
C...P°CĤC†C†PIP°PSPSCĬ

PŠP°CÍC,PsC,P° PSPμPIC-PrPsPjP°: P—PSPëP¶PμPSPSCÍ P°PìPμC,PëC,Cf.

PμPsCĤCfC€PμPSPSCÍ PìCÍPëC...C-PePë

PŠP°CÍC,Ps: P·PSPëP¶PμPSPSCÍ P»C-P±C-PrPs.

PŠP°CÍC,PsC,P° PSPμPIC-PrPsPjP°: PŸPìP»CfC,P°PSC-CÍC,CH CÍPIC-PrPsPjPsCÍC,C-, PjP°CĤPμPSPSCÍ, PìP°P»CĤC†PëPSP°†C-C—.

PμPsCĤCfC€PμPSPSCÍ P· P±PsPeCf CÍPePμP»PμC,PSPs-PjBĤ™ CÍP·PsPIPSc— C,P° CÍPìPsP»CfC†PSPSc— C,PeP°PSPëPSPë:

PŠP°CÍC,PsC,P° PSPμPIC-PrPsPjP°: C†PμCĤPIPSPëP№ PIPsPIC†P°Pe.

PŸCĤP°PIPjPë, PsC,CĤCfC”PSPSCÍ C,P° CfCÍPeP»P°PrPSPμPSPSCÍ PìCĤPsC†PμPrCfCĤ.

PŠP°CÍC,PsC,P° PSPμPIC-PrPsPjP°: PìPμCĤPIPëPSPSP° PrPëCÍC,,CfPSPeC†C-CÍ C,CĤP°PSCÍPìP»P°PSC,P°C,P° PìC-CÍP»CÍ C,CĤP°PSCÍPìP»P°PSC,P°C†C-C— CÍPμCĤC†CÍ, PìPsC,PμPSC†C-P№PSPs P»PμC,P°P»CHPSP° (PrPëPI. CĤPsP·PrC-P» B«PhCÍPsP±P»PëPIPScÍC,C-P·P°CÍC,PsCÍCfPIP°PSPSCÍB»).

PμPsPIC-PrPsPjP»PμPSPSCÍ PìCĤPs PìC-PrPsP·CĤCĤPIP°PSC- PìPsP±C-C†PSC-CĤPμP°PeC†C-C—

PμPsPIC-PrPsPjP»PμPSPSCÍ PìCĤPs PìC-PrPsP·CĤCĤPIP°PSC- PìPsP±C-C†PSC-CĤPμP°PeC†C-C— PìC-CÍP»CÍ CĤPμC”CÍC,CĤP°C†C-C— P»C-PeP°CĤCÍCHPePsPìPs P·P°CÍPsP±Cf C” PIP°P¶P»PëPIPScĤ PìCĤPsC†PμPrCfCĤPsCĤ. PìPμ PrP°C” P·PjPsPìCf PìCĤPsPrPsPIP¶CfPIP°C,Pë PePsPSC,CĤPsP»CĤPIP°C,Pë CÍPìC-PIPIC-PrPSPSc€PμPSPSCÍ PePsCĤPëCÍC,CH/CĤPëP·PëPe PrP»CÍ C†CHPsPìPs P»C-PeP°CĤCÍCHPePsPìPs P·P°CÍPsP±Cf. PĤPμPrPëC†PSPëC... PìCĤP°C†C-PIPSPëPeC-PI PìCĤPsCÍCÍC,CH PìPsPIC-PrPsPjP»CÍC,Pë PìCĤPs CfCÍC- PìC-PrPsP·CĤCĤPIP°PSC- PìPsP±C-C†PSC- CĤPμP°PeC†C-C— C†PμCĤPμP·PSP°C†C-PsPSP°P»CHPSCf CÍPëCÍC,PμPjCf C,,P°CĤPjP°PePsPSP°PìP»CÍPrCf.

PŸPμCĤPjC-PS PìCĤPëPrP°C,PSPScÍC,C-. 3 CĤPsPePë.

PJPjPsPIPë P·P±PμCĤC-PìP°PSPSCÍ.

P—P±PμCĤC-PìP°C,Pë Cf PSPμPrPsCÍC,CfPìPSPsPjCf PrP»CÍ PrC-C,PμP№ PjC-CÍC†C-. P—P±PμCĤC-PìP°C,Pë PI PsCĤPëPìC-PSP°P»CHPSC-P№ CfPìP°PePsPIC†C- PìCĤPë C,PμPjPìPμCĤP°C,CfCĤC- PSPμ PIPëC%Pμ 30 °PŸ.

PJPìP°PePsPIPëP°.

B,,- 30 (10C...3): PìPs 10 C,P°P±P»PμC,PsPe Cf P±P»C-CÍC,PμCĤC-, PìPs 3 P±P»C-CÍC,PμCĤPë PI PeP°CĤC,PsPSPSC-P№ PePsCĤPsP±C†C-.

B,,- 30 (15C...2): PìPs 15 C,P°P±P»PμC,PsPe Cf P±P»C-CÍC,PμCĤC-, PìPs 2 P±P»C-CÍC,PμCĤPë PI

РєР°СҗС,РѕРѕРѕРѕС-Р№ РєРѕСҗРѕР±СҗС-

РљР°С,РјРїРѕСҗС-СІ РІС-РІРїСҗСІРєСҗ. Р—Р° СҗРјСҗРјРїС,РѕРј.

Р’РєСҗРѕР±РѕРѕРє.

1. РќРїРјР»Р»Р»Р° РІРјР»Р»СІРєРєРјР° РІР°РѕРѕРїРјСҗС- РљС,,С,, РЈРїРѕСҗС%РөРѕР°
2. РўРҗРќРќРќРќРќ Р’Р’РќРќРўР РһРң Р’Р’РќР”РҗРўРўР Р’Рҗ, РќСҗР°РѕСҗС-СІ

**РќС-СІСҗРјР•РѕС...РѕРІРјРјРѕРѕСІ РІРєСҗРѕР±РѕРѕРєР° Р°Р° Р№РѕРѕРїРѕРѕ
Р°РІСҗРјСҗР° РјС-СІСҗСІ РїСҗРѕРѕРІР°РІРјРјРѕРѕСІ РІС-СІР»СҗРѕРѕСҗС-**

1. 2112 Р’РјСҗРјС€РјРІСҗС...Р°Р°, Р»РјРІР°С- Сҗ. 5, РЈРїРѕСҗС%РөРѕРа
2. 1, СҗСҗ РІРј Р»СІ Р’С-СҗРҗ, РҗРҗРҗР’РҗР Р• Р•Рў Р»РҗР”Р РҗР’ 33565 - РљРҗР Р’РҗРќ Р’РҗРќ РўРјРІРјРєСІ, РќСҗР°РѕСҗС-СІ.