

**Р†РќРЎРЎР РЈРЉРІР†РІ
РГР»СЦ РЈРµРГРёС‡РSPsPiPs Р·Р°СЃС,РsСЃСѓРІРІР°РSPSCЦ
Р»С-РёР°СЃСЃСРёРёРsPiPs Р·Р°СЃРsР±Сѓ**

РђРќР”РђРќРЎР·РЎР РђРќ

(Ondansetron)

РЎРёР»Р°Р°Р°:

РГС-СЃС‡Р°Р° СЃРµРµС‡РsРІРёРSP°: PsSPРГР°РSPСЃРµС,СЃРsPs;

1 С,Р°Р±Р»РµС,РёР° РјС-СЃС,РёС,Сђ PsSPРГР°РSPСЃРµС,СЃРsPsСЃСѓ
РiС-РГСЃРsС...Р»PsСЃРёРГРѓ РГРёРiС-РГСЃР°С,Сѓ Сѓ РiРµСЃРµСЃР°С...СѓРІРІР°РSPSC- РSP°
PsSPРГР°РSPСЃРµС,СЃРsPs 4 РјРi Р°Р±Рs 8 РјРi;

*РГРsРiPsРјС-Р¶РSPC- СЃРµС‡РsРІРёРSPё: Р»Р°РёС,РsР·Рё РјPsSPsРiС-РГСЃР°С,,
С†РµР»»СЃР·Р° РјС-РёСЃРsРёСЃРёСЃСЃС,Р°Р»С-С‡РSP°, РiС-РiСЃРsРјРµР»»РsР·Р°,
РјР°РiРSPC-СЃ СЃС,РµСЃРsС...РјР°Р»СЃС
РiСЃРµРµРµР»»Р°С,РёРSPC-Р·РsРІР°РSPёР№, С,РёС,Р°РSPСѓ РГС-РsРёСЃРёРёРГ (Р· 171),
РiР»С-С†РµСЃРsР» С,СЃРёР°С†РµС,Р°С,.*

Р»С-РёР°СЃСЃСРёРёР° С,,РsСЃРјР°Р°. РЎР°Р±Р»µС,РёРё, РІРёСЃРёРёС,С- РsР±РsР»РsРSPёРsСЃ.

*РђСЃРSPsРІРSPC- С,,С-Р·РёРёРsС...С-РјС-С‡РSPC- РІР»Р°СЃС,РёРiРSPsСЃС,С-: С,Р°Р±Р»µС,РёРё,
РiРёСЃРёРёС,С- РsР±РsР»РsРSPёРsСЃ, Р±С-Р»РsРiPs Р°Р±Р� РјРµРµРµРµ Р±С-Р»РsРiPs
РёРsР»СЃРsСЃСѓ, РiСЃСЦРјС- С†С-Р»СЃРSPC- С†РёР»»С-РSPРГСЃРё, С,РsСЃС†РµРІС-
РiPsРiРµСЃ...РSPC- СЦРёРёС... РsРiСѓРёР»С-.*

Р°Р°СЃРјР°РёРsС,РµСЃР°РiРµРiС,РёС‡РSP° РiСЃСѓРiР°Р°.

РµСЃРsС,РёР±Р»СЃРiР°Р»СЃРSPC- Р°СЃСРsР±Рё С- РiСЃРµРµРiР°СЃР°С,Рё, С%Рs
СѓСЃСѓРiР°СЃС,Сђ РSPСѓРsС,Сѓ. РђРSPC,Р°РiPsPSC-СЃС,Рё СЃРµСЃРsС,РsPSC-РSPsРiРёС...
5РќРЎ3-СЃРµС†РµРiС,РsСЃС-Рi. РђРSPРГР°РSPСЃРµС,СЃРsPs.

РЉРsРГ РђРЎРІРГ Рђ04Рђ Рђ01.

Р°Р°СЃРјР°РёРsРёРsР»РsРiС-С‡РSPC- РiР»Р»Р°СЃС,РёРiРSPsСЃС,С-.

Р°Р°СЃРјР°РёРsРёРsРГРёРSP°РјС-РёР°Р°.

РђРSPРГР°РSPСЃРµС,СЃРsPs РiС-РГСЃРsС...Р»PsСЃРёРГ Рђ” С†Рµ Р°РSPC,Р°РiPsPSC-СЃС,
СЃРµС†РµРiС,РsСЃС-Рi СЃРµСЃРsС,РsPSC-РSPСѓ РiС-РГС,РёРiСѓ 5РќРЎ3. РђРµРµ...Р°РSPC-Р·РјРё
РiСЃРsС,РёР±Р»СЃРiР°Р»СЃРSPsС— РГС-С— РsСЃС,Р°С,РsС‡РSPs РSPµ
РiСЃС,Р°РSPsРiР»РµРSPC-. Р’С-РГРsРјРs, С%Рs Р·Р°СЃС,РsСЃСѓРiР°РSPSCЦ
РiСЃРsРјРµРµРiРsС— С- С†РёС,РsС,РsРёСЃРёС‡РSPsС— С...С-РјС-РsС,РµСЃР°РiС-С—

PiC7P8P·PIPsPrP8C,CH PrPs PIP8PIC-P»CHPSPµPSPSCµ C7PµC7PsC,PsPSC-PSCr (5P8P8) P· PµPSC,PµC7PsC...C7PsPjP°C,,C-PSPSP8C... PeP»C-C,P8PS C,PsSPPePsPiPs PeP8C8PµC8PSP8PeC8r. P8PSC-C8C-P°C8C-C7 P±P»C7HIP°P»CHPSPsPiPs C7PµC,,P»PµPeC8C8r P8PsPiB7™ CµP·C8C7C,CH C-P· PIP·P°C”PjPsPrC-C”C7 C7PµC7PsC,PsPSC-PSCr P· C7PµC8PµPiC,PsC7P°PjP8 5P8P8, C7PsP·PjC-C%PµPSP8PjP8 PSP° P°C,,PµC7PµPSC,PSP8C... P·P°PeC-PSC8PµPSPSCµC... P±P»C8PeP°C7C8PsPiPs PSPµC7HIP° . P8PeC,P8PIP°C8C-Cµ P°C,,PµC7PµPSC,PSP8C... P·P°PeC-PSC8PµPSC8 P±P»C8PeP°C7C8PsPiPs PSPµC7HIP° PjPsP¶Pµ C8PiC7P8C8P8PSP8C,P8 PIP8PIC-P»CHPSPµPSPSCµ C8PµC7PsC,PsPSC-PSCr C8 C8PµPSC,C7P°P»CHPSC-PN8 PSPµC7HIPsPIC-PN8 C8P8C8C8,PµPjC- P· C...PµPjPsC7PµC8PµPiC,PsC7PSPsC— C,C7P8PiPµC7PSPsC— P·PsPSP8, C7PsP·C,P°C8PsPIP°PSPsC— C8 PrC-P»CµPSC8C- PrPSP° C8PµC,PIPµC7C,PsPiPs C8P»C8PSPsC8PeP° PiPsP»PsPIPSPsPiPs PjPsP·PeC8r. P’PIP°P¶P°C”C,CHC8Cµ, C%Ps PsSPPrP°PSC8PµC,C7PsPS P±P»PsPeC8r” C-PSC-C8C-P°C8C-C7 P±P»C7HIP°P»CHPSPsPiPs C7PµC,,P»PµPeC8C8r PSP° C7C-PIPSC- CµPe P°C,,PµC7PµPSC,PSP8C... P·P°PeC-PSC8PµPSC8 P±P»C8PeP°C7C8PsPiPs PSPµC7HIP°, C,P°Pe C- C7PµC8PµPiC,PsC7C-PI C8PµC7PsC,PsPSC-PSCr, C7PsP·C,P°C8PsPIP°PSP8C... C8 C8PµPSC,C7P°P»CHPSP8C... PIC-PrPrC-P»P°C... PSPµC7HIPsPiPsC— C8P8C8C8,PµPjP8.

P8PSPPrP°PSC8PµC,C7PsPS PiC7PsCµPIP»CµC” C8PµPrP°C,P8PIPSCr PrC-C7, P°P»Pµ PSPµ C8PiC7P8C8P8PSCµC” P·PjC-PSP8 PiC7PsP»P°PeC,P8PSCr C8 PiP»P°P·PjC- PeC7PsPIC-, PSPµ P·PSP8P¶C8r” PiC8P8C...PsPjPsC,PsC7PSCr P°PeC,P8PIPSC-C8C,CH PiP°C8C-C”PSC,P°.

P©Ps C8C,PsC8C8C”C,CHC8Cµ PjPµC...P°PSC-P·PjC-PI PiC7PsC,P8P±P»C7HIP°P»CHPSPsC— PrC-C— PsSPPrP°PSC8PµC,C7PsPSCr C8 PiC-C8P»CµPsPiPµC7P°C8C-PN8PSPsPjC8 PiPµC7C-PsPrC-, C,Ps C8Pµ PiP8C,P°PSPSCµ PSPµPrPsC8C,P°C,PSCHPs PIP8PIC8PµPSPµ.

P8P°C7PjP°PePsPeC-PSPµC,P8PeP°.

P’C-PsPrPsC8C,C8PiPSC-C8C,CH PsSPPrP°PSC8PµC,C7PsPSCr PiC-C8P»Cµ PIPSCrC,C7C-C8PSC8PsPiPs PiC7P8PN8PsPjC8 C8C,P°PSPsPIP8C,CH 60 %. P’ PsC7PiP°PSC-P·PjC- PIC-PS P°PeC,P8PIPSPs PjPµC,P°P±PsP»C-P·C8C”C,CHC8Cµ, PjPµC,P°P±PsP»C-C,P8 PIP8PIPsPrCµC,CHC8Cµ P· PeP°P»PsPj C,P° C8PµC8PµC7. PµC-C8P»Cµ PiPµC7PsC7P°P»CHPSPsPiPs PiC7P8PN8PsPjC8 PjP°PeC8P8PjP°P»CHPSP° PePsPSC8PµPSC,C7P°C8C-Cµ PrPsC8CµPiP°C”C,CHC8Cµ C8PµC7PµP· PiC-PIC,PsC7P8 PiPsPrP8PSP8. P—PiB7™ CµP·PsPe P· P±C-P»PeP°PjP8 PiP»P°P·PjP8 PeC7PsPIC- C8C,P°PSPsPIP8C,CH P±P»P8·CHPePs 73 %. P’C-P»CHC8P° C8P°C8C,P8PSP° PIPµPrPµPSPsC— PrPsP·P8 PjPµC,P°P±PsP»C-P·C8C”C,CHC8Cµ C8 PiPµC8C-PSC8C-.

PµPµC7C-PsPr PSP°PiC-PIPIP8PµPrPµPSPSCµ B7” 3-4 PiPsPrP8PSP8; PI PsC8C-P± P»C-C,PSCHPsPiPs PIC-PeC8 B7” PrPs 6-8 PiPsPrP8PS. P8PµPSC8Pµ 10 % P°PeC,P8PIPSPsC— C7PµC8PsPIP8PSP8 PIP8PIPsPrP8C,CHC8Cµ C-P· C8PµC8PµC7 C8 PSPµP·PjC-PSPSPsPjC8 PIP8PiP»CµPrC-.

P”P°PSC- PrPsC8P»C-PrP¶PµPSPSCµ PjPµC,P°P±PsP»C-P·PjC8 PsSPPrP°PSC8PµC,C7PsPSCr *in vitro* C8PIC-PrC8P°C,CH, C%Ps PIC-PS C” C8C8P±C8C,C7P°C,PsPj C,,PµC7PjPµPSC,C-PI C8P8C8C,PµPjP8 C8P8C,PsC...C7PsPjC8 P 450 PiPµC8C-PSP8P8 P»C7PrP8PSP8, PIP8P»C7C8P°C7C8P8 CYP1A2, CYP2D6 C- CYP3A4. P8PµC,P°P±PsP»C-P·Pj PsSPPrP°PSC8PµC,C7PsPSCr P·PrC-PN8C8PSC7C”C,CHC8Cµ C8P°C8C,C-C8Pµ C,,PµC7PjPµPSC,PsPj CYP3A4. P8C8PeC-P»CHPeP8 PjPµC,P°P±PsP»C-P·Pj PsSPPrP°PSC8PµC,C7PsPSCr PjPsP¶Pµ P·PrC-PN8C8PSC7HIP°C,P8C8Cµ PeC-P»CHPePsPjP° C,,PµC7PjPµPSC,P°PjP8 C8P8C8C,PµPjP8 C8P8C,Ps...C7PsPjC8 P 450, C,Ps PiC7P8 PSPµPrPsC8C,P°C,PSPsC8C,C- PsPrPSPsPiPs P· C,,PµC7PjPµPSC,C-PI C8C8PjP°C7PSP8PN8

PeP»C-CTHPµPSCÍ PsPSPPrP°PSCÍPµC,CTHPsPSCÍ CÍCfC,C,C"PIPs PSPµ P·PjC-PSCHC"C,CHCÍCÍ, PsCÍPeC-P»CHPePë PSPµPrPsCÍC,P°C±P° PsPrPSPsPiPs P· C,,PµCTHPjPµPSC,C-PI P±CfPrPµ PePsPjPiPµPSCÍPsPIP°PSP° C-PSC€PëPjPë C,,PµCTHPjPµPSC,P°PjPë CÍPëCÍC,PµPjPë PjPµC,P°P±PsP»C-P·PjCf.

PµP»C-PSC-C±PSC- C...P°CTHP°PeC,PµCTHPëCÍC,PëPePë.

PµPsPeP°P·P°PSPSCII.

PkCfPrPsC,P° C,P° P±P»CTHIP°PSPSCII, CÍPiCTHPëC±PëPSPµPSC- C†PëC,PsC,PsPeCÍPëC±PSPsCTH C...C-PjC-PsC,PµCTHP°PiC-C"CTH, PiCTHPsPjPµPSPµPIPsCTH C,PµCTHP°PiC-C"CTH. PµCTHPsC,,C-P»P°PeC,PëPeP° PSCfPrPsC,Pë C,P° P±P»CTHIP°PSPSCII CÍ PiC-CÍP»CÍPsPiPµCTHP°C†C-PNëPSPsPjCf PiPµCTHC-PsPrC-.

PµCTHPsC,PëPiPsPeP°P·P°PSPSCII.

PµC-PrPIPëC%PµPSP° C±CfC,P»PëPIC-CÍC,CH PrPs PePsPjPiPsPSPµPSC,C-PI PiCTHPµPiP°CTHP°C,Cf C,P° PrPs C-PSC€PëC... CÍPµP»PµPeC,PëPIPSPëC... P°PSC,P°PiPsPSC-CÍC,C-PI 5PáPÿ₃-CTHPµC†PµPiC,PsCTHC-PI CÍPµCTHPsC,PsPSC-PSCf.

PÿCÍP¶PeC- PiPsCTHCfC€PµPSPSCII C,,CfPSPeC†C-C— PiPµC±C-PSPePë, C...C-CTHCfCTHPiC-C±PSC- PsPiPµCTHP°C†C-C— PSP° C±PµCTHPµPIPSC-PNë PiPsCTHPsP¶PSPëPSC-.

P—P°CÍC,PsCÍCfPIP°PSPSCII PsPSPPrP°PSCÍPµC,CTHPsPSCÍ CTHP°P·PsPj P· P°PiPsPjPsCTHC,,C-PSPsPj PiCTHPsC,PëPiPsPeP°P·P°PSPµ, PsCÍPeC-P»CHPePë PiCTHPë C—C... CÍCfPjC-CÍPSPsPjCf P·P°CÍC,PsCÍCfPIP°PSPSC- CÍPiPsCÍC,PµCTHC-PiP°P»PëCÍCÍ PIPëPiP°PrPePë CÍPëP»CHPSPsC— P°CTHC,PµCTHC-P°P»CHPSPsC— PiC-PiPsC,PµPSP·C-C— C,P° PIC,CTHP°C,Pë CÍPIC-PrPsPjPsCÍC,C-.

P·P·P°C" PjPsPrC-CÍ P· C-PSC€PëPjPë P»C-PeP°CTHCÍCHPePëPjPë P·P°CÍPsP±P°PjPë C,P° C-PSC€C- PIPëPrPë PIP·P°C" PjPsPrC-PNë.

PÿPiPµC†C-P°P»CHPSC- PrPsCÍP»C-PrP¶PµPSPSCII PiPsPeP°P·P°P»Pë, C%Ps PsPSPPrP°PSCÍPµC,CTHPsPS PSPµ PIP·P°C" PjPsPrC-C" P· P°P»PePsPiPsP»PµPj, C,PµPjP°P·PµPiP°PjPsPj, C,,CfCTHPsCÍPµPjC-PrPsPj, C,CTHP°PjP°PrPsP»PsPj P°P±Ps PiCTHPsPiPsC,,PsP»PsPj.

PµPSPPrP°PSCÍPµC,CTHPsPS PjPµC,P°P±PsP»C-P·CfC"C,CHCÍCÍ CTHC-P·PSPëPjPë C,,PµCTHPjPµPSC,P°PjPë C†PëC,PsC...CTHPsPjPsPjCf P 450 PiPµC±C-PSPePë: CYP3A4, CYP2D6 C,P° CYP1A2.

P—P°PIP†CÍPePë CTHC-P·PSPsPjP°PSC-C,PSPsCÍC,C- C,,PµCTHPjPµPSC,C-PI PjPµC,P°P±PsP»C-P·PjCf PsPSPPrP°PSCÍPµC,CTHPsPSCÍ PiP°P»CHPjCfPIP°PSPSCII P°P±Ps P·PjPµPSC€PµPSPSCII P°PeC,PëPIPSPsCÍC,C- PsPrPSPsPiPs P· PSPëC... (PSP°PiCTHPëPeP»P°Pr PiPµPSPµC,PëC±PSPëPNë PrPµC,,C-C†PëC, CYP2D6) CÍ P·PIPëC±P°PNëPSPëC... CÍPjPsPIP°C... PePsPjPiPµPSCÍCfC"C,CHCÍCÍ C-PSC€PëPjPë C,,PµCTHPjPµPSC,P°PjPë C- PSPµ P±CfPrPµ

PjP° C, Pë PIPiP»PëPICí P°P±Ps PIPiP»PëPI PSP° P·P°PiP°P»CHPSPëPNë PeP»C-CHPµPSCÍ
PeCHPµP° C, PëPSC-PSCí P±CíPrPµ PSPµP·PSP° C±PSPëPj, PíCHPsC, Pµ PSPµP·PIP°P¶P°CHC±Pë
PSP° CHC-P·PSPsPjP°PSC-C, PSC-CÍ C, CH PjPµC, P°P±PsP»C-C±PSPëC... C,, PµCHPjPµPSC, C-PI, Cí
PíP° C†C-C" PSC, C-PI, C¶PeC- PsC, CHPëPjCíPIP°P»Pë C-PSPPrCíPeC, PsCHPë CYP3A4 (C, PsP±C, Ps
C,, PµPSC-C, PsC-PS, PeP°CHP±P°PjP°P·PµPíC-PS C, P° CHPëC,, P°PjPíC-C†PëPS),
PIC-PrP·PSP° C±PµPSPs P·P±C-P»CHCëPµPSPSC¶ PeP»C-CHPµPSCÍ Cí
PsPSPPrP°PSCÍPµC, CHPsPSCí, PíCHPëPNëPSC¶C, PsPiPs PíPµCHPsCHP°P»CHPSPs, C, P°
P·PSPëP¶PµPSPSC¶ Cí PíP»P°P·PjC- PeCHPsPIC- PNëPsPiPs PePsPSC†PµPSC, CHP° C†C-C—.

P>C-PeP°CHCÍCHPeC- P·P°CÍPsP±Pë, C%Ps PíPsPrPsPIP¶C¿CHC, CH C-PSC, PµCHPIP°P» QTc. Pj
CHP°P·C- PsPrPSPsC±P°CÍPSPsPiPs P·P°CÍ C, PsCÍ CíPIP°PSPSC¶ PsPSPPrP°PSCÍPµC, CHPsPSCí P·
C-PSCëPëPjPë PíCHPµPíP°CHP° C, P°PjPë, C¶PeC- PíPsPrPsPIP¶CíCHC, CH C-PSC, PµCHPIP°P»
QTc, PíPsC, CHC-P±PSPs CHPµC, PµP»CHPSPs P·PIP°P¶PëC, Pë PsC±C-PeCíPIP°PSPëPNë
C, PµCHP°PíPµPIC, PëC±PSPëPNë PµC,, PµPeC, C, P° PíPsC, PµPSC†C-PNëPSPëPNë CHPëP·PëPe.

Pj PSPëP¶C±PµP·P°P·PSP° C±PµPSPsPjCí CÍPíPëCÍPeCí PíCHPµPrCÍ C, P°PIP»PµPSPs
P»C-PeP°CHCÍCHPeC- P·P°CÍPsP±Pë, PíPsPíB¶™ C¶P·P°PSC- P· PíCHPsP»PsPSPiP° C†C-C" CH
QTc C-PSC, PµCHPIP°P»Cí C, P°/P°P±Ps C, CHC-PíPsC, C-PSPSC¶Pj/PjPµCHPµC... C, C-PSPSC¶Pj
CëP»CíPSPsC±PeC-PI (B«torsade de pointesB»). P¶PµCHPµPr P»C-PeP°CHCÍCHPePëC...
P·P°CÍPsP±C-PI PíPµCHPµCHP° C... PsPIP°PSPëC... C,, P°CHPjP°PePsP»PsPiC-C±PSPëC...
PeP»P°CÍ C-PI PSPµ PsP±PsPíB¶™ C¶P·PePsPiPs PICÍ C- PíCHPµPíP°CHP° C, Pë
PíPsPíB¶™ C¶P·P°PSC- P· PíPsPrPsPIP¶PµPSPSC¶Pj C-PSC, PµCHPIP°P»Cí QTc C, P°/P°P±Ps
B«torsade de pointesB»:

- PeP»P°CÍ IA, P°PSC, PëP°CHPëC, PjC-C±PSC- (C...C-PSC-PrPëPS, PíCHPsPeP°C—PSP°PjC-Pr,
PrPëP·PsPíC-CHP°PjC-Pr);

- PeP»P°CÍ III, P°PSC, PëP°CHPëC, PjC-C±PSC- (P°PjC-PsPrP°CHPsPS, CÍPsC, P°P»PsP»,
C-P±CíC, PëP»C-Pr, PrCHPsPSPµPrP°CHPsPS);

- PeP»P°CÍ IC, P°PSC, PëP°CHPëC, PjC-C±PSC- (C,, P»PµPeP°C—PSC-Pr, PíCHPsPíP° C,, PµPSPsPS);

- PíCHPsC, PëP±P»CHPIP°P»CHPSC- (PrPsP»P°CÍPµC, CHPsPS, PrCHPsPíPµCHPëPrPsP»,
C...P»PsCHPíCHPsPjP°P·PëPS, PíCHPsC...P»PsCHPíPµCHP°P·PëPS);

- C-PSPiC-P±C-C, PsCHPë C, PëCHPsP·PëPSPeC-PSP°P·Pë (PIP°PSPPrPµC, P°PSC-P±,
CÍ CíPSC-C, PëPSC-P±, PSC-P»PsC, PëPSC-P±, P»P°PíP° C, PëPSC-P±);

- P°PSC, PëPíCíPëC...PsC, PëC±PSC- PíCHPµPíP°CHP° C, Pë (C...P»PsCHPíCHPsPjP°P·PëPS,
PíC-PjPsP·PëPr, PíP°P»PsPíPµCHPëPrPsP», P·PëPíCHP°P·PëPrPsPS);

- P°PSC, PëPrPµPíCHPµCíP°PSC, Pë (C†PëC, P°P»PsPíCHP°Pj, C,, P»CíPsPeCíPµC, PëPS,
PIPµPSP»P° C,, P°PeCíPëPS, C, CHPëC†PëPeP»C-C±PSC-/C, PµC, CHP° C†PëPeP»C-C±PSC-
P°PSC, PëPrPµPíCHPµCíP°PSC, Pë, C, P°PeC- C¶Pe P°PjC-C, CHPëPíC, PëP»C-PS,
C-PjC-PíCHP°PjC-PS, PjP°PíCHPsC, PëP»C-PS);

- PsPíC-PsC—PrPë (PjPµC, P°PrPsPS);

- PrPsPjPíPµCHPëPrPsPS;

- PjP°PeCHPsP»C-PrPSC- P°PSC, PëP±C-PsC, PëPePë C, P° P°PSP°P»PsPiPë
(PµCHPëC, CHPsPjC-C†PëPS, PeP»P°CHPëC, CHPsPjC-C†PëPS, C, PµP»C-C, CHPsPjC-C†PëPS,
C, P°PeCHPsP»C-PjCíCí);

- P°PSC, PëP±C-PsC, PëPePë PeP»P°CÍCf C...C-PSPsP»PsPSC-PI
(PjPsPeCÍPëC,,P»PsPeCÍP°C†PëPS, P»PμPIPsC,,P»PsPeCÍP°C†PëPS,
C†PëPíCĤPsC,,P»PsPeCÍP°C†PëPS);
- PíCĤPsC, PëPjP°P»CĤCĤC-PN°PSC- (C...C-PSC-PS, C...P»PsCĤPsC...C-PS);
- P°P·PsP»CHPSC- PíCĤPsC, PëPíCĤPëP±PePsPIC- PíCĤPμPíP°CĤP°C, Pë
(PePμC, PsPePsPSP°P·PsP», C,,P»CfPePsPSP°P·PsP», PIPsCĤPëPePsPSP°P·PsP»);
- C-PSPiC-P±C-C, PsCĤPë PíC-CÍC, PsPSPrPμP°C†PμC, PëP»P°P·Pë (PIPsCĤPëPSPsCÍC, P°C,);
- P°PíPsPSC-CÍC, Pë β₂-P°PrCĤPμPSPsCĤPμC†PμPíC, PsCĤC-PI (CÍP°P»CHPjPμC, PμCĤPsP»,
C,,PsCĤPjPsC, PμCĤPsP»).

*PμCĤPμPíP°CĤP°C, Pë, C%oPs CÍPíCĤPëC†PëPSCĤCĤC, CH PíPsCĤCžCεPμPSPSCĤ
P±P°P»P°PSCÍCž PμP»PμPeC, CĤPsP»C-C, C-PI. PŸP»C-Pr CÍPSPëPeP°C, Pë
PsPrPSPsC†P°CÍPSPsPíPs P·P°CÍC, PsCÍCfPIP°PSPSCĤ P sPSPrP°PSCÍPμC, CĤPsPSCr P·
PíCĤPμPíP°CĤP°C, P°PjPë, CĤPeC- PjPsP¶CfC, CH PíPsCĤCfCεPëC, Pë P±P°P»P°PSCÍ
PμP»PμPeC, CĤPsP»C-C, C-PI. PμCĤPëPeP»P°PrPë C, P°PePëC... P»C-PeP°CĤCÍCHPePëC...
P·P°CÍPsP±C-PI:*

- PíPμC, P»CHPpsPIC-, C, C-P°P·PëPrPSC- C, P° C, C-P°P·PëPrPsPíPsPrC-P±PSC-
PrC-CfCĤPμC, PëPePë;
- PíCĤPsPSPsCÍPSC- P·P°CÍPsP±Pë C, P° PeP»C-P·PjPë;
- P°PjC,,PsC, PμCĤPëC†PëPS P’;
- PIPëCÍPsPeC- PrPsP·Pë PePsCĤC, PëPePsCÍC, PμCĤPsC—PrC-PI.

*PkP°PIPμPrPμPSC- PIPëC%oPμ CÍPíPëCÍPePë PíPsC, PμPSC†C-PN°PSPs
PIP·P°C”PjPsPrC-CĤC†PëC... PíCĤPμPíP°CĤP°C, C-PI PSPμ C” PIPëC†PμCĤPíPSPëPjPë.
PkPμPsP±C...C-PrPSPs CÍP»C-PrPeCfPIP°C, Pë P·P° CÍCfC†P°CÍPSPëPjPë PrP¶PμCĤPμP»P°PjPë
C-PSC,,PsCĤPjP°C†C-C— PrP»CĤ PIPëCĤPIP»PμPSPSCĤ PSPsPIPëC... P»C-PeP°CĤCÍCHPePëC...
P·P°CÍPsP±C-PI, CĤPeC- PíPsPrPsPIP¶CfCĤC, CH C-PSC, PμCĤPIP°P» QtC P°P±Ps
CÍPíCĤPëC†PëPSCĤCĤC, CH PμP»PμPeC, CĤPsP»C-C, PSC- PíPsCĤCfCεPμPSPSCĤ.*

*PŸCĤP°PjP°PrPsP». P—P° PrP°PSPëPjPë PSPμPIPμP»PëPePsC— PeC-P»CHPePsCÍC, C-
PeP»C-PSC-C†PSPëC... PrPsCÍP»C-PrP¶PμPSCĤ, PsPSPrP°PSCÍPμC, CĤPsPS PjPsP¶Pμ
P·PjPμPSC€CfPIP°C, Pë P°PSP°P»PíPμC, PëC†PSPëPN° PμC,,PμPeC, C, CĤP°PjP°PrPsP»Cf.*

*PĥPíPsPjPsCĤC,,C-PS. P—P°CÍC, PsCÍCfPIP°PSPSCĤ PsPSPrP°PSCÍPμC, CĤPsPSCr CĤP°P·PsPj P·
P°PíPsPjPsCĤC,,C-PSCf PíC-PrCĤPsC...P»PsCĤPëPrPsPj PíCĤPsC, PëPíPsPeP°P·P°PSPμ,
PsCÍPeC-P»CHPePë CÍPíPsCÍC, PμCĤC-PíP°P»PëCÍCĤ PIPëPíP°PrPePë CÍPëP»CHPSPsC—
PíC-PíPsC, PμPSP·C-C— C, P° PIC, CĤP°C, Pë CÍPIC-PrPsPjPsCÍC, C- PíC-Pr C†P°CÍ
CÍCfPjC-CÍPSPsPíPs P·P°CÍC, PsCÍCfPIP°PSPSCĤ (PrPëPI. CĤPsP·PrC-P»
B«PμCĤPsC, PëPíPsPeP°P·P°PSPSCĤB»).*

*PŸPμCĤPsC, PsPSC-PSPμCĤPíC-C†PSC- PíCĤPμPíP°CĤP°C, Pë. PíPe C- CÍ CĤP°P·C-
P·P°CÍC, PsCÍCfPIP°PSPSCĤ C-PSC€PëC... CÍPμCĤPsC, PsPSC-PSPμCĤPíC-C†PSPëC...
P°PíPμPSC, C-PI, CÍPμCĤPsC, PsPSC-PSPsPIPëPN° CÍPëPSPrCĤPsPj,
PíPsC, PμPSC†C-PN°PSPs PSPμP±PμP·PíPμC†PSPëPN° PrP»CĤ P¶PëC, C, CĤ CÍC, P°PS,*

PjPsP¶Pµ PIPëPSPëPePSCrC, Pë PïCĤPë P·P°CÍC, PsCÍCÍPIP°PSPSC-
PïCĤPsC, PëP±P»CĤPIP°P»CĤPSPsPiPs P°PSC, P°PiPsPSC-CÍC, P° CĤPµC†PµPïC, PsCĤC-PI
CÍPµCĤPsC, PsPSC-PSCr 5PáPÿ₃, PïCĤPë PïPsC”PrPSP°PSPSC- P· C-PSC€PëPjPë
PïCĤPµPïP°CĤP°C, P°PjPë, C¶PeC- PjPsP¶CÍC, CĤ PIPïP»PëPIP°C, Pë PSP°
CÍPëCÍC, PµPjCÍ CÍPµCĤPsC, PsPSC-PSPµCĤPiC-C±PSPëC...
PSPµPNëCĤPsPjPµPrC-P°C, PsCĤC-PI (PIPëP»CĤC±P°CĤC±Pë C, CĤPëPïC, P°PSPë,
CÍPµP»PµPeC, PëPIPSC- C-PSPiC-P±C-C, PsCĤPë P·PIPSCĤPsC, PSPsPiPs
P·P°C...PsPïP»PµPSPSC¶ CÍPµCĤPsC, PsPSC-PSCr (PÿP†P—P—Pÿ),
C-PSPiC-P±C-C, PsCĤPë P·PIPSCĤPsC, PSPsPiPs P·P°C...PsPïP»PµPSPSC¶
CÍPµCĤPsC, PsPSC-PSCr C, P° PSPSCĤP°PrCĤPµPSP°P»C-PSCr (P†P—P—PÿPá),
P»C-C, C-PNë, CÍPëP±CÍC, CĤP°PjC-PS, C, PµPSC, P°PSC-P» C, P° PNëPsPiPs
P°PSP°P»PsPiPë, PrPµPeCÍC, CĤPsPjPµC, PsCĤC, P°PS, C, CĤP°PjP°PrPsP»,
C, P°PïPµPSC, P°PrPsP», PjPµPïPµCĤPëPrPëPS, PjPµC, P°PrPsPS C, P° PïPµCĤC, P°P·PsC†PëPS
P°P±Ps P·PIC-CĤPsP±C-PNë (*Hypericum perforatum*)), P° C, P°PePsP¶ P· PïCĤPµPïP°CĤP°C, P°PjPë,
C¶PeC- P·PSPëP¶CÍCĤC, CĤ PjPµC, P°P±PsP»C-P·Pj CÍPµCĤPsC, PsPSC-PSCr (C, P°PeC- C¶Pe
C-PSPiC-P±C-C, PsCĤPë PĤPĥPĥ, PIPëP»CĤC±P°CĤC±Pë P»C-PSPµP·PsP»C-Pr
(P°PSC, PëP±C-PsC, PëPe, C¶PePëPNë C” PsP±PsCĤPsC, PSPëPj PSPµCÍPµP»PµPeC, PëPIPSPëPj
C-PSPiC-P±C-C, PsCĤPsPj PĤPĥPĥ) C, P° PjPµC, PëP»PµPSPsPIPëPNë CÍPëPSC-PNë) (PrPëPI.
CĤPsP·PrC-P» B«PĥCÍPsP±P»PëPIPsCÍC, C- P·P°CÍC, PsCÍCÍPIP°PSPSC¶B»).

PĥCÍPsP±P»PëPIPsCÍC, C- P·P°CÍC, PsCÍCÍPIP°PSPSC¶.

PĥPSPPrP°PSCÍPµC, CĤPsPS PSPµPµC, PµPeC, PëPIPSPëPNë PrP»C¶
PïPsPïPµCĤPµPrP¶PµPSPSC¶ PSCrPrPsC, Pë C- P±P»CĤPIP°PSPSC¶ PïCĤPë
P·P°C...PëC, CÍPIP°PSPSC-.

P, PrPsCÍPIC-Pr PïPµCĤPµC...CĤPµCÍPSPsC— PïC-PïPµCĤC±CÍC, P»PëPIPsCÍC, C- PrPs
CĤC-P·PSPëC... P°PSC, P°PiPsPSC-CÍC, C-PI CĤPµC†PµPïC, PsCĤC-PI 5PáPÿ₃. PÿPsPjCÍ PïCĤPë
PSP°C¶PIPSPsCÍC, C- PïC-PïPµCĤC±CÍC, P»PëPIPsCÍC, C- PrPs PsPrPSPsPiPs P·
P°PSC, P°PiPsPSC-CÍC, C-PI CĤPµC†PµPïC, PsCĤC-PI 5PáPÿ₃ P°PSP°P»PsPiC-C±PSP°
CĤPµP°PeC†C-C¶ PrPs C-PSC€PëC... B P°PSC, P°PiPsPSC-CÍC, C-PI PjPsP¶Pµ P±CÍC, Pë
P±C-P»CĤC€ PIPëCĤP°P¶PµPSP° PIPSP°CÍP»C-PrPsPe PïPµCĤPµC...CĤPµCÍPSPëC...
CĤPµP°PeC†C-PNë. Pj CĤP°P·C- PSP°C¶PIPSPsCÍC, C- PSP°PIC-C, CĤ CÍP»P°P±PePsC—
CĤPµP°PeC†C-C— PïC-PïPµCĤC±CÍC, P»PëPIPsCÍC, C- PrPs PsPrPSPsPiPs P·
PïCĤPµPïP°CĤP°C, C-PI P°PSC, P°PiPsPSC-CÍC, C-PI 5PáPÿ₃-CĤPµC†PµPïC, PsCĤC-PI PSPµ
CĤPµPePsPjPµPSPPrCÍC”C, CĤCÍC¶ PNëPsPiPs P·PjC-PSCĤPIP°C, Pë PSP° C-PSC€PëPNë,
PICĤP°C...PsPICrCĤC±Pë PjPsP¶P»PëPIC-CÍC, CĤ PïPsCÍPëP»PµPSPSC¶ CĤPµP°PeC†C-C—
PïC-PïPµCĤC±CÍC, P»PëPIPsCÍC, C-.

P C-PrPePs PïCĤPë P·P°CÍC, PsCÍCÍPIP°PSPSC- PsPSPPrP°PSCÍPµC, CĤPsPSCr
CÍPïPsCÍC, PµCĤC-PiP°CĤC, CĤCÍC¶ C, PëPjC±P°CÍPsPIC- P·PjC-PSPë P·PĤP”,
PIPëP»CĤC±P°CĤC±Pë PïPsPrPsPIP¶PµPSPSC¶ C-PSC, PµCĤPIP°P»CÍ QT,
P·P°P»PµP¶PSPs PIC-Pr PrPsP·Pë C, P° C€PIPëPrPePsCÍC, C- C-PSC, CÍP·C-C—. P—P°
PrP°PSPëPjPë PïPsCÍC, PjP°CĤPePµC, PëPSPiPsPiPsPiPs CÍPïPsCÍC, PµCĤPµP¶PµPSPSC¶,
PïPsPIC-PrPsPjP»C¶P»Pë PïCĤPs PIPëPïP°PrPePë
C, CĤC-PiPsC, C-PSPSC¶/PjPµCĤPµC...C, C-PSPSC¶ C€P»CÍPSPsC±PeC-PI (B«torsade de
pointesB») PïCĤPë P·P°CÍC, PsCÍCÍPIP°PSPSC- PsPSPPrP°PSCÍPµC, CĤPsPSCr, C, PsPjCÍ

СГР»С-Пр Р· PsP±PμCηPμP¶PSC-СГС,СН Р·P°СГС,PsСГPsPICрPIP°С,Рө
PиСηPμPиP°СηP°С, PиP°СГС-С"PSC,P°Pj, C¶PеC- PjP°СηC,СН P°P±Ps Cr C¶PеPөC...
PjPsP¶Pμ CηPsP·PIPөPSCрC,PөСГСC¶ PиPsPrPsPIP¶PμPSPSC¶ C-PSC,PμCηPIP°P»Cr QT.
P'PөPиP°PrPеPө B«torsade de pointesB» PjPsP¶CrC,СН P±CrC,Pө
P±PμP·СГPөPjPиC,PsPjPSPөPjPө P°P±Ps СГCrPиCηPsPIPsPrP¶CrPIP°С,PөСГСC¶
P·P°PиP°PjPsCηPsC±PμPSPSC¶Pj, PиCηPөСГPеPsCηPμPSPөPj СГPμCηC†PμP±PөC,C,C¶Pj,
PSPμPиCηPөC,PsPjPSC-СГС,СН P°P±Ps СГCrPrPsPjP°PjPө; C†PμPNө СГС,P°PS PjPsP¶Pμ
PиCηPsPиCηPμCГCrPIP°С,Pө PrPs C,,C-P±CηPөP»C¶C†C-C— C¶P»CrPSPsC±PеC-PI C-
CηP°PиC,PsPIPsC— СГPμCηC†PμPIPsC— СГPjPμCηC,C-.

PŸP»C-Пр CrPSPөPеP°С,Pө P·P°СГС,PsСГCrPIP°PSPSC¶ PsPSPPrP°PSCГPμC,CηPsPSCр
PиP°СГС-С"PSC,P°Pj P· PICηPsPrP¶PμPSPөPj СГPөPSPPrCηPsPjPsPj PиPsPrPsPIP¶PμPSPSC¶ QT.
P¶PSPPrP°PSCГPμC,CηPsPS СГP»C-Пр P·P°СГС,PsСГPsPICрPIP°С,Pө P·
PsP±PμCηPμP¶PSC-СГС,СН PrP»C¶ P»C-PeCrPIP°PSPSC¶ PиP°СГС-С"PSC,C-PI C-P·
PиPsCηCrC¶PμPSPSC¶PjPө СГPμCηC†PμPIPsPиPs CηPөC,PjCr P°P±Ps PиCηPsPIC-PrPSPsСГС,C-,
PиP°СГС-С"PSC,P°Pj, C¶PеPөPj P·P°СГС,PsСГPsPICрCηC,СН PиCηPsC,PөP°СηPөC,PjC-C±PSC-
PиCηPμPиP°СηP°С,Pө P°P±Ps β-P±P»PsPеP°С,PsCηPө C,P° C¶PеC- PjP°СηC,СН P°P±Ps Cr
C¶PеPөC... PjPsP¶Pμ CηPsP·PIPөPSCрC,PөСГСC¶ PиPsPrPsPIP¶PμPSPSC¶ C-PSC,PμCηPIP°P»Cr
QT, PIPеP»CηC±P°CηC±Pө PиP°СГС-С"PSC,C-PI P· PиPsCηCrC¶PμPSPSC¶Pj
PμP»PμPеC,CηPsP»C-C,PSPsPиPs P±P°P»P°PSCГCr, P·P°СГС,C-PNөPSPsCη СГPμCηC†PμPIPsCη
PSPμPrPsСГС,P°С,PSC-СГС,СН, P±CηP°PrPөP°СηPөC,PjC-C¶PjPө P°P±Ps PиP°СГС-С"PSC,C-PI,
C¶PеC- P»C-PeCrCηC,СНCГC¶ C-PSC¶PөPjPө PиCηPμPиP°СηP°С,P°PjPө, C%Ps PjPsP¶CrC,СН
СГPиCηPөC±PөPSC¶C,Pө PиPsPrPsPIP¶PμPSPSC¶ C-PSC,PμCηPIP°P»Cr QT P°P±Ps
PиPsCηCrC¶PμPSPSC¶ PμP»PμPеC,CηPsP»C-C,PSPsPиPs P±P°P»P°PSCГCr. PμPμCηPμPr
PиPsC±P°С,PеPsPj P·P°СГС,PsСГCrPIP°PSPSC¶ СГP»C-Пр СГPеPsCηPμPиCrPIP°С,Pө
PиC-PиPsPеP°P»C-С"PjC-Сη C,P° PиC-PиPsPjP°PиPSC-С"PjC-Сη.

PμCηPөPеP»P°PrPө C,,P°PеC,PsCηC-PI CηPөP·PөPеCr CηPsP·PIPөC,PеCr
C,CηC-PиPsC,C-PSPSC¶/PjPμCηPμC...C,C-PSPSC¶ C¶P»CrPSPsC±PеC-PI: P¶C-PSPsC±P°
СГС,P°С,СН; PIC-Pe PIC-Pr
65 CηPsPеC-PI; P±P°P·PsPIPμ PиPsPrPsPIP¶PμPSPSC¶ C-PSC,PμCηPIP°P»Cr QT/QTc;
PSP°С¶PIPSC-СГС,СН PиPμPSPμC,PөC±PSPөC... PиPsCηCrC¶PμPSCη C-PsPSPSPөC...
PеP°PSP°P»C-PI СГPμCηC†C¶ P°P±Ps CηPμPиCrP»C¶C,PsCηPSPөC... P±C-P»PеC-PI;
PSP°С¶PIPSC-СГС,СН Cr СГС-PjPμPNөPSPsPjCr P°PSP°PjPSPμP·C- CηP°PиC,PsPIPsC—
СГPμCηC†PμPIPsC— СГPjPμCηC,C- Cr PIC-C†C- PrPs 50 CηPsPеC-PI;
P·P°С...PIPsCηCηPIP°PSPSC¶ СГPμCηC†C¶ (C-C¶PμPjC-C¶ PjC-PsPеP°CηPrP° P°P±Ps
C-PSC,,P°CηPеC,, PиC-PиPμCηC,CηPsC,,C-C— P»C-PIPsPиPs C¶P»CrPSPsC±PеP°,
PеP°CηPrC-PsPjC-PsPиP°С,C-C¶, C...PIPsCηPsP±Pө СГPөСГС,PμPjPө PиCηPsPIC-PrPSPsСГС,C-);
PSP°С¶PIPSC-СГС,СН P°CηPөC,PjC-PNө (PsСГPsP±P»PөPIPs C¶P»CrPSPsC±PеPsPIPөC...
P°CηPөC,PjC-PNө, C,,C-P±CηPөP»C¶C†C-C— PиPμCηPμPrСГPμCηPrCη);
P±CηP°PrPөPеP°CηPrC-C¶ (PjPμPSC¶Pμ 50 CrPrP°CηC-PI/C...PI); PиPsСГС,CηC-
PSPμPICηPsP»PsPиC-C±PSC- CηPsP·P»P°PrPө (PIPSCрC,CηC-C¶PSCηPsC±PμCηPμPиPSC- P°P±Ps
СГCrP±P°CηP°С...PSPsC—PrP°P»CηPSC- PеCηPsPIPsPIPөP»PөPIPө, C-PSCГCrP»CηC,,
PIPSCрC,CηC-C¶PSCηPsC±PμCηPμPиPSP° C,CηP°PIPjP°);
PSPμP·P±P°P»P°PSCГPsPIP°PSC-СГС,СН C...P°CηC±CrPIP°PSPSC¶ (CηPsP·P»P°PrPө
C...P°CηC±PsPIPsC— PиPsPIPμPrC-PSPөPө, PμPеCГC,CηPμPjP°P»CηPSC- PrC-С"С,Pө);
C†CrPеCηPsPIPөPNө PrC-P°P±PμC,; PIPμPиPμC,P°С,PөPIPSP° PSPμPNөCηPsPиP°С,C-C¶.

PμC-СГP»C¶ PsPrPSPsC±P°СГPSPsPиPs P·P°СГС,PsСГCrPIP°PSPSC¶
PsPSPPrP°PSCГPμC,CηPsPSCр C,P° C-PSC¶PөC... СГPμCηPsC,PsPSC-PSPμCηPиC-C±PSPөC...
PиCηPμPиP°СηP°С,C-PI P±CrPI PsPиPөСГP°PSPөPNө СГPμCηPsC,PsPSC-PSPsPIPөPNө

СГРПЕПSPPrCЪPsPj, C%Ps PIPeP»CЪC†P°C” C,P°PeC- СГРПЕPjPiC,PsPjPë: P·PjC-PSPë
PiCГРПëC...C-С†PSPsPiPs СГРC,P°PSCr (P·P±C†PrP¶PµPSPSCЦ, PiP°P»CЪC†PëPSP°C†C-C—,
PePsPjP°), PIPµPiPµC,P°C,PëPIPSP° PSPµCГРC,P°P±C-P»CЪPSC-CГРC,СЪ
(C,P°C...C-PeP°CЪPrC-CЦ, P»P°P±C-P»CЪPSPëP№ P°CЪC,PµCЪC-P°P»CЪPSPëP№ C,PëCГРPe,
PiC-PiPµCЪC,PµCЪPjC-C—), PSPµCЪPIPSPsPiPs-Pj'CЦP·PsPIC- P°P±PµCЪP°C†C-C—
(PiC-PiPµCЪCЪPµC,,P»PµPeCГРC-CЦ, PiPsCЪC†CëPµPSPSCЦ PePsPsCЪPrPëPSP°C†C-C—),
CëP»C†PSPePsPiPs-PePëCëPePsPIC- СГРПЕPjPiC,PsPjPë (PSCrPrPsC,P°, P±P»CЪPIP°PSPSCЦ,
PrC-P°CЪPµCЦ). PµCЪPë PIPëPSPëPePSPµPSPSC- СГРµCЪPsC,PsPSC-PSPsPiPsPiPs
СГРПЕPSPPrCЪPsPjC† P»C-PeC†PIP°PSPSCЦ PsPSPrP°PSCГРµC,СЪPsPSPsPj СГРP»C-Pr
PiCЪPëPiPëPSPëC,Pë C,P° CЪPsP·PiPsC†P°C,Pë СГРПЕPjPiC,PsPjP°C,PëC†PSPµ
P»C-PeC†PIP°PSPSCЦ. PĪPeC%Ps PsPrPSPsC†P°CГРPSPµ P»C-PeC†PIP°PSPSCЦ
PsPSPrP°PSCГРµC,СЪPsPSPsPj C,P° C-PSCëPëPjPë СГРµCЪPsC,PsPSC-PSPµCЪPiC-C†PSPëPjPë
PiCЪPµPiP°CЪP°C,P°PjPë PeP»C-PSC-C†PSPs PsP±T'CЪC†PSC,PsPIP°PSPs,
CЪPµPePsPjPµPSPrC†C”C,СЪCГРCЦ PIC-PrPiPsPIC-PrPSPëP№ PSP°PiP»CЦPr P·P° СГРC,P°PSPsPj
PiP°C†C-C”PSC,P° (PrPëPI. CЪPsP·PrC-P» B«P’P·P°C”PjPsPrC-CЦ P· C-PSCëPëPjPë
P»C-PeP°CЪCГРCЪPePëPjPë P·P°CГРPsP±P°PjPë C,P° C-PSCëC- PIPëPrPë PIP·P°C”PjPsPrC-P№B»).

PµPsPIC-PrPsPjP»CЦP»PsCГРCЦ PiCЪPs PIPëPiP°PrPePë C-CëPµPjC-C— PjC-PsPeP°CЪPrC† C†
PiP°C†C-C”PSC,C-PI, CЦPeC- PsC,CЪPëPjC†PIP°P»Pë PsPSPrP°PSCГРµC,СЪPsPS. Pj
PrPµCЦPePëC... PiP°C†C-C”PSC,C-PI, PsCГРPsP±P»PëPIPs C† CЪP°P·C-
PIPSCrC,СЪC-CëPSCЪPsPiPµPSPSPsPiPs PIPiPµPrPµPSPSCЦ, СГРПЕPjPiC,PsPjPë
P·BЪ™ CЦPIPIPëP»PëCГРCЦ PsPrCЪP°P·C† PiC-CГРP»CЦ PIPiPµPrPµPSPSCЦ
PsPSPrP°PSCГРµC,СЪPsPSCr. PµP°C†C-C”PSC,C-PI СГРP»C-Pr PiPsPiPµCЪPµPrPëC,Pë PiCЪPs
PsP·PSP°PePë C,P° СГРПЕPjPiC,PsPjPë C-CëPµPjC-C— PjC-PsPeP°CЪPrP°.

PµPSPrP°PSCГРµC,СЪPsPS PSPµ PIPiP»PëPIP°C” PSP° СГРПЕCГРC,PµPjC† C†PëC,PsC...CЪPsPjC†
P 450, P°P»Pµ P·P°CГРC,PsCГРC†PIP°PSPSCЦ C-PSCëPëC... PiCЪPµPiP°CЪP°C,C-PI,
P·PrP°C,PSPëC... PIPiP»PëPIP°C,Pë PSP° P°PeC,PëPIPSC-CГРC,СЪ C†PëC... C,,PµCЪPjPµPSC,C-PI,
PjPsP¶Pµ PiCЪPëP·PIPµCГРC,Pë PrPs P·PjC-PSPë PeP»C-CЪPµPSCГРC† C,P° PiPµCЪC-PsPrC†
PSP°PiC-PIPIPëPIPµPrPµPSPSCЦ PsPSPrP°PSCГРµC,СЪPsPSCr.

PµPSPrP°PSCГРµC,СЪPsPS P·P±C-P»CЪCëC†C” C†P°CГР C,СЪP°PSP·PëC,C† C†PµCЪPµP·
C,PsPICГРC,PëP№ PePëCëPµC†PSPëPe, C,PsPjC† PiCЪPë PSP°CЦPIPSPsCГРC,C- PSP°PIC-C,СЪ
СГРP»P°P±PePëC... PsP·PSP°Pe PePëCëPePsPiPsC— PSPµPiCЪPsC...C-PrPSPsCГРC,C-
PiPsC,СЪC-P±PµPS PiPsCГРC,C-P№PSPëP№ PSP°PiP»CЦPr P·P° C...PiPsCЪPëPj, CЦPePëP№
PsC,СЪPëPjC†C” PsPSPrP°PSCГРµC,СЪPsPS.

Pj PrC-C,PµP№, CЦPeC- PsC,СЪPëPjC†CЪC,СЪ PsPSPrP°PSCГРµC,СЪPsPS CЪP°P·PsPj C-P·
PiPµPiP°C,PsC,PsPeCГРPëC†PSPëPjPë C...C-PjC-PsC,PµCЪP°PiPµPIC,PëC†PSPëPjPë
PiCЪPµPiP°CЪP°C,P°PjPë, PiPsC,СЪC-P±PSPs CЪPµC,PµP»CЪPSPs СГРC,PµP¶PëC,Pë P·P°
PjPsP¶P»PëPIPëPjPë PiPsCЪC†CëPµPSPSCЦPjPë C,,C†PSPeC†C-C— PiPµC†C-PSPePë.

PµCГРPeC-P»CЪPePë PrPs СГРPeP»P°PrC† C,P°P±P»PµC,PsPe PIC...PsPrCЦC,СЪ
PICrPiP»PµPiPsPrPë, C† C,PsPjC† C†PëCГРP»C- P»P°PeC,PsP·P°, PiP°C†C-C”PSC,P°Pj P·
PiPsCЪC†CëPµPSPSCЦPj C,PsP»PµCЪP°PSC,PSPsCГРC,C- PrPs PICrPiP»PµPiPsPrC-PI, P·
CЪC-PrPeC-CГРPSPëPjPë СГРPiP°PrPePsPiPëPjPë P·P°C...PiPsCЪCЪPIP°PSPSCЦPjPë, C,P°PePëPjPë
CЦPe PSPµPiPµCЪPµPSPsCГРPëPjC-CГРC,СЪ PiP°P»P°PeC,PsP·Pë, P»P°PeC,P°P·PSP°
PSPµPrPsCГРC,P°C,PSC-CГРC,СЪ P°P±Ps PiP»CЪPePsP·Ps-PiP°P»P°PeC,PsP·PSP°
PjP°P»CЪP°P±CГРPsCЪP±C†C-CЦ, PSPµ PjPsP¶PSP° PiCЪPëP№PjP°C,Pë PiCЪPµPiP°CЪP°C,.

*P—P°CÍC,PsCÍCáPIP°PSPSCÍ C á PíPµCĤC-PsPr PIP°PiC-C,PSPsCÍC,C- P°P±Ps
PiPsPrCáPIP°PSPSCÍ PiCĤCáPrPrCĤ.*

PµPsPSC,CĤP°C†PµPíC†C-CÍ.

PíPeC%Ps PsPSPPr°PSCÍPµC,CĤPsPS P·P°CÍC,PsCÍPsPICrCĤC,CH P¶C-PSPeP°Pj
PrC-C,PsCĤPsPrPSPsPiPs PIC-PeCr, PiPsC,CĤC-P±PSPs CĤPsP·PiP»CÍPSCrC,Pë PíPëC,P°PSPSCÍ
PíCĤPs PIPëPePsCĤPëCÍC,P°PSPSCÍ PePsPSC,CĤP°C†PµPíC†C-C—.

P°P°PiC-C,PSC-CÍC,CH

Pk° PíC-PrCÍC,P°PIC- CĤPµP·C†P»CHC,P°C,C-PI PíCĤPsPIPµPrPµPSPëC...
PµPíC-PrPµPjC-PsP»PsPiC-C†PSPëC... PrPsCÍP»C-PrP¶PµPSCĤ, PíCĤPëPíCíCÍPeP°CĤC,CH,
C%Ps PsPSPPr°PSCÍPµC,CĤPsPS PjPsP¶Pµ CÍPíCĤPëC†PëPSCÍC,Pë PIP°PrPë
C%PµP»PµPíPSPs-P»PëC†CHPsPiPsC— PrC-P»CÍPSPePë Cr CĤP°P·C-
P·P°CÍC,PsCÍCíPIP°PSPSCÍ PíCĤPsC,CÍPiPsPj PíPµCĤC€PsPiPs C,CĤPëPjPµCÍC,CĤCí
PIP°PiC-C,PSPsCÍC,C-. P' PsPrPSPsPjCí P· PePsPiPsCĤC,PSPëC... PrPsCÍP»C-PrP¶PµPSCĤ,
C%Ps PIPeP»CĤC†P°P»Ps 1,8 PjC-P»CHPNëPsPSP° PIP°PiC-C,PSPsCÍC,PµPNë,
P·P°CÍC,PsCÍCíPIP°PSPSCÍ PsPSPPr°PSCÍPµC,CĤPsPSCr PI PíPµCĤC€PsPjCí
C,CĤPëPjPµCÍC,CĤC- P±C†P»Ps PíPsPiBĤ™ CÍP·P°PSPs P· PíC-PrPIPëC%PµPSPëPj
CĤPëP·PëPePsPj CĤPsP·C%PµPíP»PµPSPSCÍ PíC-PrPSPµP±C-PSPSCÍ [3 PrPsPrP°C,PePsPIC-
PIPëPíP°PrPePë PSP° 10 000 P¶C-PSPsPe, CÍPeC- PsC,CĤPëPjCíPIP°P»Pë PíCĤPµPíP°CĤP°C,;
CÍPePsCĤPëPíPsPIP°PSPëPNë PIC-PrPSPsCÍPSPëPNë CĤPëP·PëPe: 1,24, (95 % PrPsPIC-CĤC†PëPNë
C-PSC,PµCĤPIP°P» 1,03BĤ "1,48)]. P"PsCÍC,CíPíPSC- PµPíC-PrPµPjC-PsP»PsPiC-C†PSC-
PrPsCÍP»C-PrP¶PµPSPSCÍ CÍPµCĤC†PµPIPëC... PIP°Pr PíPsPeP°P·CíCĤC,CH
CÍCíPíPµCĤPµC†P»PëPIC- CĤPµP·C†P»CHC,P°C,Pë.

P"PsCÍP»C-PrP¶PµPSPSCÍ PSP° C,PIP°CĤPëPSP°C... PSPµ PIPeP°P·CíCĤC,CH PSP° PíCĤCÍPjC-
C†Pë PsPíPsCÍPµCĤPµPrPePsPIP°PSC- C€PeC-PrP»PëPIC- PµC,,PµPeC,Pë PSP°
CĤPµPíCĤPsPrCíPeC,PëPIPSCr C,,CíPSPeC†C-CĤ.

PĥPSPPr°PSCÍPµC,CĤPsPS PSPµ CÍP»C-Pr P·P°CÍC,PsCÍPsPICrPIP°C,Pë PíCĤPsC,CÍPiPsPj
PíPµCĤC€PsPiPs C,CĤPëPjPµCÍC,CĤCí PIP°PiC-C,PSPsCÍC,C-.

P"PsPrCáPIP°PSPSCÍ PiCĤCáPrPrCĤ

PkPµPIC-PrPsPjPs, C†Pë PíCĤPsPSPëPeP°C" PsPSPPr°PSCÍPµC,CĤPsPS Cr PíCĤCíPrPSPµ
PjPsP»PsPePs, C,PsPjCí PiPsPrCíPIP°PSPSCÍ PiCĤCíPrPrCĤ Cr PíPµCĤC-PsPr
P»C-PeCíPIP°PSPSCÍ CÍP»C-Pr PíCĤPëPíPëPSPëC,Pë.

*P—PrP°C,PSC-CÍC,CH PIPíP»PëPIP°C,Pë PSP° C€PIPëPrPeC-CÍC,CH CĤPµP°PeC†C-C— PíCĤPë
PePµCĤCáPIP°PSPSC- P°PIC,PsC,CĤP°PSCÍPiPsCĤC,PsPj P°P±Ps C-PSC€PëPjPë
PjPµC...P°PSC-P·PjP°PjPë.*

P'CĤP°C...PsPICrCĤC†Pë PjPsP¶P»PëPIC-CÍC,CH CĤPsP·PIPëC,PeCr PíPsP±C-C†PSPëC...
CĤPµP°PeC†C-PNë P· P±PsPeCí PSPµCĤPIPµPiPsC— CÍPëCÍC,PµPjPë, PíP°C†C-C"°PSC,P°Pj PíC-Pr
C†P°CÍ P»C-PeCíPIP°PSPSCÍ PíCĤPµPíP°CĤP°C,PsPj CĤPµPePsPjPµPSPPrCíC"C,CHCÍCÍ
CíC,CĤPëPjCíPIP°C,PëCÍCÍ PIC-Pr PePµCĤCíPIP°PSPSCÍ P°PIC,PsC,CĤP°PSCÍPíPsCĤC,PsPj
P°P±Ps CĤPsP±PsC,Pë P· C-PSC€PëPjPë PjPµC...P°PSC-P·PjP°PjPë.

PŸPİPsCÍC-P± P·P°CÍC,PsCÍCáPIP°PSPSCİİ C,P° PrPsP·Pë.

PµCĤPµPİP°CĤP°C, P·P°CÍC,PsCÍPµPICrPIP°C,Pë PIPSCrC,CĤC-C€PSCĤPs.

P'PëP±C-CĤ CĤPµP¶PëPjCr PrPsP·CÍPIP°PSPSCİİ PIPëP·PSP°C±P°C" C,CHCÍCİİ
PIPëCĤP°P¶PµPSC-CÍC,CĤ PµPjPµC,PsPiPµPSPSPsC— PrC-C—
PİCĤPsC,PëPİCÍC...P»PëPSPSPsC— C,PµCĤP°PİC-C— C,P° PICÍC,P°PSPsPIP»CĤC" C,CHCÍCİİ
C-PSPrPëPIC-PrCÍP°P»CHPSPs.

*PµPsPjC-CĤPSP° PµPjPµC,PsPiPµPSPSP° C...C-PjC-PsC,PµCĤP°PİC-Cİİ C,P° PİCĤPsPjPµPSPµPIP°
C,PµCĤP°PİC-Cİİ.*

P"PsCĤPsCÍP»PëPj PİCĤPëP·PSP°C±P°C,Pë 8 PjPi P·P° 1-2 PiPsPrPëPSPë PrPs
PİCĤPsPIPµPrPµPSPSCİİ P»C-PeCÍPIP°PSPSCİİ P·PSP°CÍC,CÍPİPSPëPj PİCĤPëPµPsPjPsPj
8 PjPi PePsP¶PSC- 12 PiPsPrPëPS. P"»Cİİ PİCĤPsC,,C-P»P°PeC,PëPePë
PIC-PrCÍC,CĤPsC±PµPSPsC— P°P±Ps C,CĤPëPIP°P»PsC— PSCrPrPsC,Pë C,P°
P±P»CĤPIP°PSPSCİİ Cr PSP°CÍC,CÍPİPSC- PrPSC- BĤ" PİPs 8 PjPi 2 CĤP°P·Pë PSP° PrPsP±CÍ
PİCĤPsC,CİPiPsPj CrCÍCHPsPiPs PeCÍCĤCÍCr C...C-PjC-PsC,PµCĤP°PİC-C—, P° C,P°PePsP¶ 5
PrPSC-PI PİC-CÍP»Cİİ C—C— P·P°PIPµCĤC€PµPSPSCİİ. PµCĤPë PIPëP±PsCĤC- PrPsP·Pë
PSPµPsP±C...C-PrPSPs PICĤP°C...PsPICrPIP°C,Pë C,CİP¶PeC-CÍC,CH P±P»CĤPIP°PSPSCİİ.
PµCĤPë C±P°CÍC,PePsPIPµPjCr PsPİCĤPsPjC-PSPµPSPSC- PIPëCÍPsPePëPjPë PrPsP·P°PjPë
P°P±PrPsPjC-PSP°P»CHPSPsC— PrC-P»CİPSPePë PİCĤPëP·PSP°C±P°C,Pë PİPs 8 PjPi
PePsP¶PSC- 8 PiPsPrPëPS.

PµCĤPµPİP°CĤP°C, PİCĤPëPµPjP°C,Pë PİCĤPsC,CİPiPsPj CrCÍCHPsPiPs PeCÍCĤCÍCr
C...C-PjC-Ps- C,P° PİCĤPsPjPµPSPµPIPsC— C,PµCĤP°PİC-C—, P° C,P°PePsP¶ 1-2 PrPSC- (PİCĤPë
PSPµPsP±C...C-PrPSPsCÍC,C- 3-5 PrPSC-PI) PİC-CÍP»Cİİ C—C— P·P°PeC-PSC±PµPSPSCİİ.

P'PëCÍPsPePsPµPjPµC,PsPiPµPSPSP° C...C-PjC-PsC,PµCĤP°PİC-Cİİ.

P"PsCĤPsCÍP»PëPj PIPSCrC,CĤC-C€PSCĤPs PİCĤPëP·PSP°C±P°C,Pë 24 PjPi
PsPSPrP°PSCÍPµC,CĤPsPSCr (PsPrPSPsC±P°CÍPSPs P·PrPµPeCÍP°PjPµC,P°P·PsPSCr
C,,PsCÍC,,P°C,PsPj) P·P° 1-2 PiPsPrPëPSPë PrPs PİPsC±P°C,PeCÍ C...C-PjC-PsC,PµCĤP°PİC-C—.
P"»Cİİ PİCĤPsC,,C-P»P°PeC,PëPePë PIC-PrCÍC,CĤPsC±PµPSPsPiPs P±P»CĤPIP°PSPSCİİ Cr
PSP°CÍC,CÍPİPSC- PrPSC- BĤ" PİPs 8 PjPi 2 CĤP°P·Pë PSP° PrPsP±CÍ PİCĤPsC,CİPiPsPj
CrCÍCHPsPiPs PeCÍCĤCÍCr C...C-PjC-PsC,PµCĤP°PİC-C—, P° C,P°PePsP¶ 5 PrPSC-PI
PİC-CÍP»Cİİ C—C— P·P°PIPµCĤC€PµPSPSCİİ.

P" C-C,Pë. Pj PrP°PSC-Pµ P»C-PeP°CĤCÍCHPeC-Pµ C,,PsCĤPjC- PİCĤPµPİP°CĤP°C, PSPµ
P·P°CÍC,PsCÍPµPICrPIP°C,Pë PrC-C,CİPj PIC-PePsPj PrPs 4 CĤPsPeC-PI.

P'PµP·PİPsCÍPµCĤPµPrPSCĤPs PİPµCĤPµPr C...C-PjC-PsC,PµCĤP°PİC-C" CĤ
PİCĤPëP·PSP°C±P°C,Pë PsPSPrP°PSCÍPµC,CĤPsPS (CĤPsP·C±PëPS PrP»Cİİ
C-PSBĤ™ C"PeC†C-Pµ) Cr PIPëPİP»CİPPrC- PsPrPSPsCĤP°P·PsPIPsC—
PIPSCrC,CĤC-C€PSCĤPsPIPµPSPSPsC— C-PSBĤ™ C"PeC†C-C—.

PµPµCĤPsCĤP°P»CHPSPµ P·P°CÍC,PsCÍCÍPIP°PSPSCİİ CĤPsP·PİPsC±PëPSP°C,Pë C±PµCĤPµP· 12
PiPsPrPëPS PİPs 4 PjPi PePsP¶PSC- PSP°CÍC,CÍPİPSC- 12 PiPsPrPëPS C-
PİCĤPsPrPsPIP¶CÍPIP°C,Pë PrPs 5 PrPSC-PI. P—P°PİP°P»CHPSP° PrPsP±PsPIP° PrPsP·P°
PsPSPrP°PSCÍPµC,CĤPsPSCr PSPµ PjP°C" PİPµCĤPµPIPëC% CÍPIP°C,Pë 32 PjPi.

PµC-CÍP»CİPµPİPµCĤP°C†C-PµPSP° PSCáPrPsC,P° C- P±P»CĤPIP°PSPSCİİ.

*P"PsCḥPsCÍP»PëPj PrP»Cḥ P·P°PİPsP±C-PİP°PSPSCḥ PİC-CÍP»CḥPsPİPµCḥP°C†C-PNḗPSPsC—
PSC†PrPsC,Pë C,P° P±P»CḥPİP°PSPSCḥ PİCḥPµPİP°CḥP°C, PjPsP¶PSP° PİCḥPëP·PSP°C†P°C,Pë
PİPSC†C,CḥC-CëPSCḥPs PİPs 16 PjPİ P·P° 1 PİPsPrPëPSC† PrPs PİPsC†P°C,PeC†
PİCḥPsPİPµPrPµPSPSCḥ P°PSPµCÍC,PµP·C— . PḥP°PeCÍPëPjP°P»CḥPSP° PrPsP±PsPİP°
PrPsP·P° PsPSPPr°PSCÍPµC,CḥPsPSC† CÍC,P°PSPsPİPëC,Cḥ 32 PjPİ.*

*P" C-C,Pë. PḥCḥPë PrP°PSPsPjC† PİPsPeP°P·P°PSPSC- CḥPµPePsPjPµPSPPrC†C" C,CḥCÍCḥ
P·P°CÍC,PsCÍPsPIC†PİP°C,Pë PsPSPPr°PSCÍPµC,CḥPsPS C† PİPëPİP»CḥPPrC- CḥPsP·C†PëPSC†
PrP»Cḥ C-PSBḥ™ C"PeC†C-PNḗ.*

P" P»Cḥ PİCÍC-C... PİPëPrC-PI C,PµCḥP°PİC-C—.

PİPİPsCḥC- P»C-C,PSCHḥPsPİPs PİC-PeCé.

*PkPµPjP°C" PSPµPsP±C...C-PrPSPsCÍC,C- P·PjC-PSCḥPİP°C,Pë PrPsP·C† PİCḥPµPİP°CḥP°C,C†
PİP°C†C-C" PSC,P°Pj PİC-PePsPj PİC-Pr 65 CḥPsPeC-PI.*

PµP°C†C-C" PSC,Pë P· PSPëCḥPePsPİPsCḥ PSPµPrPsCÍC,P°C,PSC-CÍC,Cḥ.

*PkPµPjP°C" PSPµPsP±C...C-PrPSPsCÍC,C- C† P·PjC-PSC- CḥPµP¶PëPjC† PrPsP·C†PİP°PSPSCḥ
P°P±Ps CëP»CḥC...C† PİCḥPëP·PSP°C†PµPSPSCḥ PİCḥPµPİP°CḥP°C,C† PİP°C†C-C" PSC,P°Pj C-P·
PİPsCḥC†CëPµPSPSCḥPj C,,C†PSPeC†C-C— PSPëCḥPsPe.*

*PµP°C†C-C" PSC,Pë P· PİPsPjC-CḥPSPsCḥ PİPµC†C-PSPePsPİPsCḥ
PSPµPrPsCÍC,P°C,PSC-CÍC,Cḥ.*

*Pj PİP°C†C-C" PSC,C-PI C-P· PİPsPjC-CḥPSPëPjPë PİPsCḥC†CëPµPSPSCḥPjPë C,,C†PSPeC†C-C—
PİPµC†C-PSPePë PeP»C-CḥPµPSC† PsPSPPr°PSCÍPµC,CḥPsPSC† P·PSP°C†PSPs
P·PSPëP¶C†C" C,CḥCÍCḥ, P° PİPµCḥC-PsPr PSP°PİC-PİPİPëPİPµPrPµPSPSCḥ C-P·
CÍPëCḥPsPİP°C,PePë PeCḥPsPIC- Bḥ" P·CḥPsCÍC,P°C". P" P»Cḥ C,P°PePëC...
PİP°C†C-C" PSC,C-PI PjP°PeCÍPëPjP°P»CḥPSP° PrPsP±PsPİP° PrPsP·P° PİCḥPµPİP°CḥP°C,C†
PSPµ PjP°C" PİPµCḥPµPİPëC% C†PİP°C,Pë 8 PjPİ.*

*PµP°C†C-C" PSC,Pë C-P· PİPsCḥCéCëPµPSPSCḥPj PjPµC,P°P±PsP»C-P·PjCé
CÍPİP°CḥC,PµC—PSCé/PrPµP±CḥPëCÍPsPePIC-PSCé.*

*PḥPµCḥC-PsPr PSP°PİC-PİPİPëPİPµPrPµPSPSCḥ PsPSPPr°PSCÍPµC,CḥPsPSC† C†
PİP°C†C-C" PSC,C-PI C-P· PSPµP·PjC-PSPµPSPëPj PjPµC,P°P±PsP»C-P·PjC† CÍPİP°CḥC,PµC—PSC†
C- PrPµP±CḥPëCÍPsPePIC-PSC† PSPµ P·PjC-PSCḥC" C,CḥCÍCḥ. Pj C,P°PePëC...
PİP°C†C-C" PSC,C-PI PİPsPIC,PsCḥPSPµ P·P°CÍC,PsCÍC†PİP°PSPSCḥ PİCḥPëP·PİPsPrPëC,Cḥ
PrPs C,P°PePsC— P¶ CÍP°PjPsC— PePsPSC†PµPSC,CḥP°C†C-C— PİCḥPµPİP°CḥP°C,C†, C%Ps PNḗ
C† C...PİPsCḥPëC... P· PSPµC†CëPePsPrP¶PµPSPëPj PjPµC,P°P±PsP»C-P·PjPsPj. PÿPsPjC†
PSPµPjP°C" PİPsC,CḥPµP±Pë C† P·PjC-PSC- CḥPµP¶PëPjC† PrPsP·C†PİP°PSPSCḥ PrP»Cḥ
C†C-C" C— PİCḥC†PİPë PİP°C†C-C" PSC,C-PI.*

P" C-C,Pë.

*P" C-C,CḥPj PİC-PePsPj PrPs 4 CḥPsPeC-PI PİCḥPµPİP°CḥP°C, C† PrP°PSC-PNḗ
P»C-PeP°CḥCÍCḥPeC-PNḗ C,,PsCḥPjC- PSPµ P·P°CÍC,PsCÍPsPIC†PİP°C,Pë.*

PμPsP±C-C±PSC- CḡPμP°PeC†C-C—.

PμPsP±C-C±PSC- CḡPμP°PeC†C-C—, C-PSC,,PsCḡPjP°C†C-Cḡ PīCḡPs CḡPeC- PSP°PIPμPrPμPSPs
PSPëPḡC±Pμ, PeP»P°CḡPëC,,C-PePsPIP°PSC- P·P° PsCḡPiP°PSP°PjPë C- CḡPëCḡC,PμPjP°PjPë C,P°
P·P° C±P°CḡC,PsC,PsCḡ C—C... PIPëPSPëPePSPμPSPSCḡ: PrCḡPḡPμ C±P°CḡC,Ps (≥1/10),
C±P°CḡC,Ps (≥1/100 C,P° <1/10), PSPμC±P°CḡC,Ps (≥1/1000 C,P° <1/100), CḡC-PrPePs (≥1/10000
C,P° <1/1000), PrCḡPḡPμ CḡC-PrPePs (<1/10000).

Pj PeP»C-PSC-C±PSPëC... PrPsCḡP»C-PrPḡPμPSPSCḡC... P±CḡP»Ps PICḡC,P°PSPsPIP»PμPSPs,
C%Ps PSP°PNëC±P°CḡC,C-CëPëPjPë PīPsP±C-C±PSPëPjPë CḡPμP°PeC†C-CḡPjPë P±CḡP»Pë:
PiPsP»PsPIPSPëPNë P±C-P»Cḡ (11 %), P·P°PīPsCḡ (4 %), PIC-PrC±CḡC,C,Cḡ C,PμPīP»P° P°P±Ps
PīCḡPëPīP»PëPIPë (<1 %).

P— P±PsPeCḡ C-PjCḡPSPSPsC— CḡPëCḡC,PμPjPë.

P C-PrPePs: P°P»PμCḡPiC-C±PSC- CḡPμP°PeC†C-C— PSPμPiP°PNëPSPsPiPs C,PëPīCḡ, PI
PsPeCḡPμPjPëC... PIPëPīP°PrPeP°C... C,CḡPḡPeC-, PIPeP»CḡC±P°CḡC±Pë
P°PSP°C,,C-P»P°PeCḡC-Cḡ, P±CḡPsPSC...PsCḡPiP°P·Pj, PeCḡPsPīPëPīBḡ™ CḡPSPeCḡ C,P°
P°PSPiC-PsPSPμPICḡPsC,PëC±PSPëPNë PSP°P±CḡCḡPe.

P— P±PsPeCḡ C†PμPSC,CḡP°P»CḡPSPsC— PSPμCḡPIPSPsC— CḡPëCḡC,PμPjPë.

PḡCḡPḡPμ C±P°CḡC,Ps: PiPsP»PsPIPSPëPNë P±C-P»Cḡ.

PḡPμC±P°CḡC,Ps: CḡCḡPrPsPjPë, CḡCḡ...PsPIC- PīPsCḡCḡCëPμPSPSCḡ (PIPeP»CḡC±P°CḡC±Pë
PμPeCḡC,CḡP°PīC-CḡP°PjC-PrPSC- CḡPμP°PeC†C-C—, C,P°PeC- CḡPe
PsPeCḡP»PsPiC-CḡPSPëPNë PeCḡPëP·, PrPëCḡC,PsPSC-C±PSC- CḡPμP°PeC†C-C— C-
PrPëCḡPeC-PSPμP·C-Cḡ P±PμP· CḡC,C-PNëPePëC... PeP»C-PSC-C±PSPëC...
PSP°CḡP»C-PrPeC-PI).

P C-PrPePs: P·P°PīP°PjPsCḡPsC±PμPSPSCḡ PīC-Pr C±P°Cḡ CëPIPëPrPePsPiPs
PIPSCḡC,CḡC-CëPSCḡPsPIPμPSPSPsPiPs PIPμPrPμPSPSCḡ PīCḡPμPīP°CḡP°C,Cḡ;
PīCḡPëPīPSC-C±PμPSPSCḡ C†PμPSC,CḡP°P»CḡPSPsC— PSPμCḡPIPSPsC—
CḡPëCḡC,PμPjPë, PīP°CḡPμCḡC,PμP·C-C—.

P— P±PsPeCḡ PsCḡPiP°PSC-PI P·PsCḡCḡ.

P C-PrPePs: CḡPePsCḡPsPjPëPSCḡC%oC- PīPsCḡCḡCëPμPSPSCḡ P·PsCḡCḡ
(PīPsPjCḡC,PSC-PSPSCḡ PI PsC±P°C...), PjPëPSCḡC%oP° CḡP»C-PīPsC,P°, PiPsP»PsPIPSPëPj
C±PëPSPsPj PīC-Pr C±P°Cḡ PIPSCḡC,CḡC-CëPSCḡPsPIPμPSPSPsPiPs
P·P°CḡC,PsCḡCḡPIP°PSPSCḡ.

P— P±PsPeCḡ CḡPμCḡC†PμPIPSPs-CḡCḡPrPëPSPSPsC— CḡPëCḡC,PμPjPë.

PḡPμC±P°CḡC,Ps: P°CḡPëC,PjC-C—, P±C-P»Cḡ Cḡ PrC-P»CḡPSC†C- CḡPμCḡC†Cḡ (P·
PrPμPīCḡPμCḡC-CḡCḡ CḡPμPiPjPμPSC,P° ST P°P±Ps P±PμP· PSPμC—),
P±CḡP°PrPëPeP°CḡPrC-Cḡ, P°CḡC,PμCḡC-P°P»CḡPSP° PiC-PīPsC,PμPSP·C-Cḡ,
P°CḡC,PμCḡC-P°P»CḡPSP° PiC-PīPμCḡC,PμPSP·C-Cḡ, C,P°C...C-PeP°CḡPrC-Cḡ,
PSPμPīCḡPëC,PsPjPSC-CḡC,Cḡ.

PḡP°CḡC,Ps: PIC-PrC±CḡC,C,Cḡ C,PμPīP»P°, PīCḡPëPīP»PëPIPë.

P— P±PsPeCž PrPëC...P°P»CHPSPsC— CÍPëCÍC,PµPjPë C,P° PsCḡPiP°PSC-PI PiCḡCáPrPSPsC— PeP»C-C,PePë.

PkPµC±P°CÍC,Ps: PiPëPeP°PIPeP°, PeP°CεPµP»CH.

P— P±PsPeCž CεP»CáPSPePsPIPs-PePëCεPePsPIPsPiPs C,CḡP°PeC,Cž.

PŞP°CÍC,Ps: P·P°PiPsCḡ, PrC-P°CḡPµCḡ, CÍCfC...C-CÍC,CH Cí CḡPsC,C-, P±C-P»CH Cí P¶PëPIPsC,C-.

P— P±PsPeCž PiPµPiP°C,PsP±C-P»C-P°CḡPSPsC— CÍPëCÍC,PµPjPë.

PkPµC±P°CÍC,Ps: P±PµP·CÍPëPjPiC,PsPjPSPµ PiC-PrPIPëC%PµPSPSCḡ PiPsPeP°P·PSPëPeC-PI C,,CíPSPeC†C-C— PiPµC±C-PSPePë, PiPsCḡCfCεPµPSPSCḡ C,,CíPSPeC†C-C— PiPµC±C-PSPePë.

P—P°PiP°P»CHPSC- PiPsCḡCáCεPµPSPSCḡ: CÍP»P°P±PeC-CÍC,CH,
PSPµPiCḡPëC,PsPjPSC-CÍC,CH. PjC- PIPëPiP°PrPePë CÍPiPsCÍC,PµCḡC-PiP°CḡC,CHCÍCḡ
PiPsP»PsPIPsPëPj C±PëPSPsPj Cí PiP°C†C-C”PSC,C-PI, CḡPeC- PsC,CḡPëPjCfCḡC,CH
C...C-PjC-PsC,PµCḡP°PiPµPIC,PëC±PSC- PiCḡPµPiP°CḡP°C,Pë, C%Ps PjC-CÍC,CḡC,CH
C†PëCÍPiP»P°C,PëPS.

PḡPµC,P°P±PsP»C-P·Pj.

PµCḡPëP±P»PëP·PSPs Cí 5 % PiP°C†C-C”PSC,C-PI P±CfP»Ps PePsCḡPsC,PePsC±P°CÍPSPµ
PiC-PrPIPëC%PµPSPSCḡ P±C-P»CHCε PSC-P¶ Cí PrPIP° CḡP°P·Pë PIC-Pr
PIPµCḡC...PSCḡPsC— PjPµP¶C- PSPsCḡPjPë SGOT C- SGPT. PkPµPIC-PrPsPjPs, C±Pë
PiPsPiBḡ™ CḡP·P°PSPµ C†Pµ P·P±C-P»CHCεPµPSPSCḡ P· PrPsP·PsCḡ P°P±Ps
C,CḡPëPIP°P»C-CÍC,Cḡ C,PµCḡP°PiC-C—.

PµPsPIC-PrPsPjP»CḡP»Pë PiCḡPs PiPµC±C-PSPePsPICr PSPµPrPsCÍC,P°C,PSC-CÍC,CH C-
P»PµC,P°P»CHPSPëPµ PSP°CÍP»C-PrPsPe Cí PiP°C†C-C”PSC,C-PI, C...PIPsCḡPëC... PSP°
CḡP°Pe, CḡPeC- PsC,CḡPëPjCfPIP°P»Pë PsPrPSPsC±P°CÍPSPs PeC-P»CHPeP°
PiCḡPµPiP°CḡP°C,C-PI, Cí C,PsPjCf C±PëCÍP»C- PiPsC,PµPSC†C-PµPSPs
PiPµPiP°C,PsC,PsPeCÍPëC±PSCr C†PëC,PsC,PsPeCÍPëC±PSCr C...C-PjC-PsC,PµCḡP°PiC-Cḡ C,P°
P°PSC,PëP±C-PsC,PëPePë. P·C,C-PsP»PsPiC-Cḡ PiPµC±C-PSPePsPIPsC—
PSPµPrPsCÍC,P°C,PSPsCÍC,C- Cí C†PëC... PIPëPiP°PrPeP°C... P·P°P»PëCεP°C”C,CHCÍCḡ
PSPµCḡCÍPSPsCḡ. P·CfP»Pë C,P°PePsP¶ CḡC-PrPeC-CÍPSC- PiPsPIC-PrPsPjP»PµPSPSCḡ
PiCḡPs PiC-PiPsPeP°P»C-C”PjC-Cḡ.

PµPsP±C-C±PSC- CḡPµP°PeC†C-C— P·P° PrP°PSPëPjPë
PiC-CÍP»CḡCḡPµC”CÍC,CḡP°C†C-PµPSPsPiPs CÍPiPsCÍC,PµCḡPµP¶PµPSPSCḡ.

PµCḡPsC,,C-P»CH PiPsP±C-C±PSPëC... CḡPµP°PeC†C-Pµ Cí PrC-C,PµPµ C- PiC-PrP»C-C,PeC-PI
PjPsP¶PSP° P±CfP»Ps PiPsCḡC-PIPsCḡC,Pë P· C,P°PePëPj Cí PrPsCḡPsCÍP»PëC....

P— P±PsPeCž C-PjCáPSPSPsC— CÍPëCÍC,PµPjPë.

P C-PrPePs: CḡPµP°PeC†C-C— PiC-PiPµCḡC±CfC,P»PëPIPsCÍC,C-, C-PSPsPrC- C,CḡP¶PeC-
(PSP°P±CḡCḡPe PiPsCḡC,P°PSC-, C...CḡPëPiP»Pµ PrPëC...P°PSPSCḡ,
P»P°CḡPëPSPiPsCÍPiP°P·Pj C- PeP°CḡPrC-PsPiCfP»CHPjPsPSP°P»CHPSPëPµ
CεPsPe/P·CíPiPëPSPeP° CÍPµCḡC†Cḡ).

P— P±PsPeCž CÍPμCḡC†PμPIPs-CÍCžPrPëPSPSPsC— CÍPëCÍC,PμPjPë.

PkPμC†P°CÍC,Ps: C-PSC,,P°CḡPeC, PjC-PsPeP°CḡPrP° (<0,01 %), CÍC,PμPSPsPeP°CḡPrC-CÍ, P±C-P»Cḡ Cí PiCḡC†PrCÍC... P· P°P±Ps P±PμP· PrPμPiCḡPμCÍC-C— ST CÍPμPiPjPμPSC,P°, P°CḡPëC,PjC-C— (Cí C,PsPjC† C†PëCÍP»C- C€P»CÍPSPsC†PePsPIP° P°P±Ps PSP°PrC€P»CÍPSPsC†PePsPIP° C,P°C...C-PeP°CḡPrC-CÍ, PiPμCḡPμPrC†P°CÍPSC- C€P»CÍPSPsC†PePsPIC- CÍPePsCḡPsC†PμPSPSCÍ C- C,,C-P±CḡPëP»CÍC†C-CÍ PiPμCḡPμPrCÍPμCḡPrCḡ), PμP»PμPeC,CḡPsPeP°CḡPrC-PsPiCḡP°C,,C-C†PSC- P·PjC-PSPë (PI C,PsPjC† C†PëCÍP»C- C- PrCḡC†PiPëPμ CÍC,C†PiC-PSCḡ P±P»PsPeP°PrPë CÍPμCḡC†CÍ), CÍPμCḡC†PμP±PëC,C,CÍ C- PSPμPiCḡPëC,PsPjPSC-CÍC,Cḡ.

PšP°CÍC,PsC,P° PSPμPIC-PrPsPjP°: C-C€PμPjC-CÍ PjC-PsPeP°CḡPrP° (PrPëPI. CḡPsP·PrC-P» B«PhCÍPsP±P»PëPIPsCÍC,C- P·P°CÍC,PsCÍC†PIP°PSPSCÍB»).

P C-PrPePs C- PiPμCḡPμPIP°P¶PSPs PiCḡPë PIPSC†C,CḡC-C€PSCḡPsPIPμPSPSPsPjC† P·P°CÍC,PsCÍC†PIP°PSPSC- PsPSPrP°PSCÍPμC,CḡPsPSC†, PiPsPIC-PrPsPjP»CÍP»Pë PiCḡPs PjPëPSC†C%oC- P·PjC-PSPë PSP° P·PḡP“, PIPeP»CḡC†P°CḡC†Pë PiPsPrPsPIP¶PμPSPSCÍ C-PSC,PμCḡPIP°P»C† QT, PIPëPiP°PrPePë C,CḡC-PiPsC,C-PSPSCÍ/PjPμCḡPμC...C,C-PSPSCÍ C€P»CÍPSPsC†PeC-PI, C,,C-P±CḡPëP»CÍC†C-Cḡ C€P»CÍPSPsC†PeC-PI, P·C†PiPëPSPeC† CÍPμCḡC†CÍ C- CḡP°PiC,PsPIPëPμ P»PμC,P°P»CḡPSPëPμ PSP°CÍP»C-PrPsPe.

P— P±PsPeCž PsCḡPiP°PSC-PI P·PsCḡCž.

P C-PrPePs PiPsPIC-PrPsPjP»CÍP»Pë PiCḡPs PIPëPiP°PrPePë CÍPePsCḡPsPjPëPSC†C%oPsC— CÍP»C-PiPsC,Pë, CÍPe PiCḡP°PIPëP»Ps, C† PjPμP¶P°C... CḡPμPePsPjPμPSPrPsPIP°PSPsPiPs PrC-P°PiP°P·PsPSC† PrPsP·C†PIP°PSPSCÍ C- PiPμCḡPμPIP°P¶PSPs PiC-Pr C†P°CÍ PIPSC†C,CḡC-C€PSCḡPsPIPμPSPSPsPiPs PIPμPrPμPSPSCÍ. Pj P±C-P»CḡC€PsCÍC,C- PIPëPiP°PrPeC-PI CÍP»C-PiPsC,P° PjPëPSP°P»P° PiCḡPsC,CÍPiPsPj 20 C...PIPëP»PëPS.

P— P±PsPeCž PiPμPiP°C,PsP±C-P»C-P°CḡPSPsC— CÍPëCÍC,PμPjPë.

P·PμP·CÍPëPjPiC,PsPjPSPμ PiC-PrPIPëC%oPμPSPSCÍ PiPsPeP°P·PSPëPeC-PI C,,C†PSPeC†C-C— PiPμC†C-PSPePë.

P— P±PsPeCž C†PμPSC,CḡP°P»CḡPSPsC— PSPμCḡPIPsPIPsC— CÍPëCÍC,PμPjPë.

PḡPëPSC†C%oPμ P·P°PiP°PjPsCḡPsC†PμPSPSCÍ (<0,1 %) PI PsCÍPSPsPIPSPsPjC† PiC-Pr C†P°CÍ P°P±Ps PiC-CÍP»CÍ P·P°PIPμCḡC€PμPSPSCÍ PIPSC†C,CḡC-C€PSCḡPsPIPμPSPSPsC— C-PSC,,C†P·C-C— PsPSPrP°PSCÍPμC,CḡPsPSC†.

PkPμC†P°CÍC,Ps (<1 %) PiPsPIC-PrPsPjP»CÍP»Pë PiCḡPs PμPeCÍC,CḡP°PiC-CḡP°PjC-PrPSC- CḡPμP°PeC†C-C—, PIPeP»CḡC†P°CḡC†Pë PsPeC†P»PsPiC-CḡPSPëPμ PeCḡPëP·/ PrPëCÍC,PsPSC-C†PSC- CḡPμP°PeC†C-C— (PrPëCÍPeC-PSPμP·C-CÍ PsCḡP°P»CḡPSPs- P»PëC†CḡPsPIP°, PsPiC-CÍC,PsC,PsPSC†C†, C,CḡPμPjPsCḡ), CḡC†C...PsPIC- CḡPsP·P»P°PrPë C,P° PrPëCÍPeC-PSPμP·C-C— P±PμP· CÍC,C-PμPePëC... PeP»C-PSC-C†PSPëC... PSP°CÍP»C-PrPeC-PI.

PŸPμCḡPsC,PsPSC-PSPsPIPëPμ CÍPëPSPrCḡPsPj P±C†PI PIC-PrP·PSP°C†PμPSPëPμ PiCḡPë P·P°CÍC,PsCÍC†PIP°PSPSC- 5-HT3-P°PSC,P°PiPsPSC-CÍC,C-PI CḡPμC†PμPiC,PsCḡC-PI (PIPeP»CḡC†P°CḡC†Pë PsPSPrP°PSCÍPμC,CḡPsPSC† PiC-PrCḡPsC...P»PsCḡPëPr) C† PiPsC”PrPSP°PSPSC- P· C-PSC€PëPjPë CÍPμCḡPsC,PsPSC-PSPμCḡPiC-C†PSPëPjPë PiCḡPμPiP°CḡP°C,P°PjPë C,P°/P°P±Ps PSPμPμCḡPsP»PμPiC,PëPeP°PjPë.

P— P±PsPeCž C€PeC—CŤPë C,P° PïC—PrC€PeC—CŤPSPSC— PeP»C—C,PePsPIPëPSPë.

*P”CíP¶Pµ CŤC—PrPePs: P±CíP»CHPsP·PSC— CŤPµP°PeC†C—C— C€PeC—CŤPë C—
CŤP»PëP·PsPIPëC... PsP±PsP»PsPSPsPe, Cí C,PsPjCí C†PëCŤP»C— P»PµC,P°P»CHPSC—,
P·PsPeCŤPµPjP° C,PsPeCŤPëC†PSC— C€PeC—CŤPSC— PIPëCŤPëPïP°PSPSCŤ, C,P°PeC— CŤPe
CŤPëPSPPrCŤPµPj PŸC,C—PIPµPSCŤP°BŤ“P”P¶PsPSCŤPSP° C,P° C,PsPeCŤPëC†PSPëPNë
PµPïC—PrPµCŤPjP°P»CHPSPëPNë PSPµPeCŤPµP»C—P.*

*PµCŤPs C†C— CŤPµP°PeC†C—C— PïPsPIC—PrPsPjP»CŤP»Pë Cí PïP°C†C—C”PSC,C—PI, CŤPeC—
P·P°CŤC,PsCŤPµPIC†CŤC,CH C— C—PSC€C— P»C—PeP°CŤCŤCŤPeC— P·P°CŤPµP±Pë.*

PŸPµCŤPjC—PS PïCŤPëPrP°C,PSPsCŤC,C—. 3 CŤPµPePë.

PjPjPsPIPë P·P±PµCŤC—PiP°PSPSCŤ.

*P—P±PµCŤC—PiP°C,Pë PI PsCŤPëPiC—PSP°P»CHPSC—PNë CíPïP°PePsPIC†C— PïCŤPë
C,PµPjPïPµCŤP°C,CíCŤC— PSPµ PIPëC%Pµ 30 B°PŸ.*

P—P±PµCŤC—PiP°C,Pë PI PSPµPrPsCŤC,CíPïPSPsPjCí PrP»CŤ PrC—C,PµPNë PjC—CŤC†C—.

PjPïP°PePsPIPëP°.

*PµPs 10 C,P°P±P»PµC,PsPe Cí P±P»C—CŤC,PµCŤC—. PµPs 1 P±P»C—CŤC,PµCŤCí PI PïP°C†C†C— P·
PeP°CŤC,PsPSCí.*

PŤP°C,PµPiPsCŤC—CŤ PIC—PrPïCíCŤPëCí. P—P° CŤPµC†PµPïC,PsPj.

P’PëCŤPsP±PSPëPe.

PµCŤPŤPŸ B«PŸPµC...PSPsP»PsPiB».

***PŤC—CŤC†PµP·PSP°C...PsPrP¶PµPSPSCŤ PIPëCŤPsP±PSPëPeP° C,P° P°PrCŤPµCŤP°
PjC—CŤC†CŤ PïCŤPsPIP°PrP¶PµPSPSCŤ PNëPsPiPs PrC—CŤP»CHPSPsCŤC,C—.***

*PjPeCŤP°C—PSP°, 20300, PŖPµCŤPeP°CŤCŤPeP° PsP±P»., PjC—CŤC,Ps PjPjP°PSCŤ,
PICŤP»PëC†CŤ PŸC,P°CŤP° PïCŤPsCŤC—P·PSP°, P±CíPrPëPSPsPe 8.*