

WΘ ñ Ý- --ñ Ww Ý ÿ w ũ ÿ ñ Wwñ - Ýw- μ _ w:
Wwññ μ Θ- Θw- ñ- rM' - Ŭ Θ ÿ ñ Ý Θñ - -Wñ ÿ μ rñwññ ũ rM'
wñ- Γ wΘ- - rM'

Θ Ŭ wñ Wñ Wñ r Wñ Ý w μ r- - ÿ ñ Wñ Ý ñ w Θ Ý r- - Γ Wñ ñ Ŭ Γ w _ w
ñ- ÿ rM' - --wñ- - Θ - -NΘ ũ ñ- ñ WΘ - w - W' Wñ
wñ- Γ wΘ- - rM' - - w- Ý ñ w Θ Ý r- - Γ Wñ- μ -- rM' - ñ - - rM' -

μ rÝ w _ Wñ- rM' Θ ũ ñ- ñ

Ŭ Θ Wñ: Ý ñ ÿ ñ ũ wñ- Θ- Wñ μ - wñ- ũ ñ
Θ Ý ñ wñ wñ- Γ w Θ ñ ñ- Ŭ Θ w _ w WΘ - - Θ ũ ñ wñ ññ wñ- w
WΘ- ñ ñ Ý w ñ ũ ũ Θñ Ý wñ- - rM'

WΘ ñ Ý- --ñ W' ŭ wñ- Γ- ÿ ñ: ñ w Θñ wñ ÿ ñ ñ ũ Θñ wñ- wñ-

ñ Ŭ Γ wñ,
rñ- wñ- 2018

- - ' , ū / ₣ , ū . ñ !! . W0% ₣ . U ₣ , Θ ₣ ' t < ' ₣ % !!
- W£" U ū . . , W0% ₣ " U ' Ū
- - / Ω / £ < . ₣ , W0% ₣ . U ₣

(- ♀/ ‡ⁿ Ūy“) ë ë ë ë ë ë ë ë

(- ♀/ ‡ⁿ Ū^oŷ“) ë ë ë ë ë ë ë ë

(- ♀/ ‡ⁿ Ū^oŷ“) ë ë ë ë ë ë ..

ឯកសារនេះ គឺជាឯកសារដែលបានរៀបចំឡើងដោយ
អង្គការសហប្រតិបត្តិការអន្តរជាតិ ក្នុងឈ្មោះ
របស់អង្គការសហប្រតិបត្តិការអន្តរជាតិ ដើម្បីជួយ
ដល់ការអភិវឌ្ឍន៍ប្រជាជនកម្ពុជា។

Ө—йүг - гө

- 'F %0> 'F >/ £ ŒPŒ'ũŒ Œ Œ Œ, •% ŒŒ!! Œ'†<' Œ/!!Œ " Œ%Œ.Œ >/ £
 ã!!ŒŒ<..Œ%Œ ŒŒ%Œ.Œ Œ £ ŒŒ!!Œ'ũŒ.ŒŒ £ ãŒ!!e!! ". ŒŒ, Œ'>/ -', Œ/ †'Œ Œ!!
 Œ/<ŒŒ ...†/ " %Œ, Œ £ ŒŒ™ŒŒ ŒŒ †>ŒŒ Œ Œ™Œ..Œ.Œ Œ.Œ >ŒŒŒŒPŒŒ" " Œ ŒŒŒŒŒŒ
 >/ £, " ŒŒ Œ ŒŒŒ.Œ †ŒŒŒ ŒŒŒŒŒ, !!ŒŒŒ " Œ ŒŒ PŒŒ ŒŒŒ ŒŒŒŒŒ†/ £<' Œ Œ £.

nǎ'ǒ'ǔǔ ǔǔ ǔǔǔǔ'ǔǔǔǔ ǔǔ'ǔ.ǔ ǔǔ'ǔ, •% ǔǔ.!! ". ǔǔ'ǔ...ǔ'!!...ǔǔǔǔǔǔ'ǔ'ǔ
 ǔǔ'ǔ.ǔǔǔǔ'ǔ" ǔǔ ǔǔǔ!!ǔ!! ǔǔ'ǔ ǔǔ!! ǔǔǔ/ >/ !!ǔǔ'" "ǔǔ%ǔǔ'ǔ.ǔ" ǔǔǔ ǔǔ'ǔ...ǔ..ǔ', n"ǔǔ
 ǔǔǔ ǔǔ'ǔ'ǔ/ </ ǔǔǔ.ǔ.ǔ ǔǔǔ >ǔǔǔǔǔǔǔ'ǔ/ ǔǔ ǔǔ/ ǔǔ, >>ǔǔǔǔ. - ' </ ǔǔ, %ǔ "ǔǔ'ǔ!!ǔ
 ǔǔ'ǔ, ǔǔ% ǔǔ/ <<' ǔǔǔǔǔ'ǔǔǔǔ"ǔǔ ǔǔǔǔǔǔǔǔ'ǔ'ǔǔ >'ǔǔ'ǔ <...ǔǔǔ ǔǔ'ǔ'ǔ'ǔ'ǔ'ǔ/ ǔǔǔn/ ǔǔ%ǔ'" / ǔǔ

၂ Pxs“ ၁.၂... ယူဝံ > ဝံ ဖဲယူ” F ဝံ%၁“ F ဖဲယူ P၁၁၁ ဖဲယူ!! ဝံ’တၢ, ဝံ၁!!၂... ယူ.F
 ဝံ’ < ၂ .F ယူ.F !!TM/ ၁, ဖဲယူ!! န TM ..၁... ယူ.F န“ ၂ .F ယူ.F န<, ”ဝံ F ”ဝံ% F ”ဝံ ဖဲယူ!!
 န TM ..၁... “ ဝံ!!ဝံ’/ ဝံ’၂... ယူ.F ဖဲ၁ > န%ဝံ ယူ </ န’ဝံ.F ၂ ဝံ’ဝံ!!ဝံ’နံ... န/ ၁
 န’ဝံ’ < ဝံ +, !!ဝံ ဖဲယူ ယူ.. ဝံ’ဝံ’ဝံ > ”“ ဝံ’နံ န< ဝံ’ယူ” “ ယူ!! ဝံ န ဖဲယူဝံ!!’ဝံ’ဝံ
 န’ဝံ, ”ဝံ ၁... န ဝံ’ ယူ န/ ’ဝံ’ဝံ e ဖဲယူ!!ဝံ ဝံ’ဝံ’/ န%၁၁၁... > ၁/ ”ဝံ ဝံ’ဝံ” “ ’ဝံ’ဝံ’ > ”ဝံ
 ”ဝံ !!ဝံ > ဝံ%၁၁၁ Ω! / ’ ဝံ’ န< / ’ F < TM% ဝံ’ယူ F. - ယူ ၁၁ ဝံ’ဝံ!!ဝံ’ ၁၁ ၁.../ Ω”’!!ဝံ Ω! / ၁ > ဝံ

/ ၁ ပုံ ဖြစ်ပုံ!! ပုံပုံ ဖြစ်ပုံ/ > ပုံ (w- -) ဖြစ်!! “%F န/ ဟု, ဟု ... ပုံပုံ ပုံပုံ”
 ပုံပုံ ဖြစ် န/ ဖြစ်... န/ ပုံ, > ဖြစ်... ပုံပုံ ပုံပုံပုံပုံ... > ပုံ ပုံ/ ဟု < ဖြစ် ပုံ ပုံ... ဖြစ်ပုံ “ > ဖြစ်...
 ဟု/ ဟု F %F.. ဟု ဟု F ဖြစ် “ ပုံ ဟု F / ၁ / F ဖြစ် ဟု, န/ ပုံ ဟု F ဟု F > F “ ပုံ ပုံ F
 ဖြစ်န/ “ ပုံ”, > ပုံ ပုံ.. ပုံ “ န/.. ဟု ပုံ > ပုံ ဖြစ်ပုံ “ F ပုံန/ “ F > ဖြစ်/ [4, 10-14]. န/ ပုံပုံပုံ, ဟု
 ဖြစ်/ F ပုံ ဖြစ် ပုံ!! ပုံပုံ ပုံပုံပုံပုံ... ပုံပုံပုံ!! e !! > ပုံ ဖြစ်ပုံ “ ဖြစ်ပုံ!! ပုံပုံ !! ဖြစ်/ ‘ ပုံ
 ပုံ ဟု ပုံ.. ပုံ [15-17] “ န/ “ ပုံ ပုံပုံ ဟု F န/ !! ဖြစ် F ... န/ ပုံ န/.. ပုံ ဖြစ်!!
 ဖြစ်ပုံ!! ပုံပုံ!! ပုံပုံ!! e !! ပုံ!! ‘ ပုံ ပုံ/ ပုံပုံ ပုံ ပုံ/ !! ဖြစ်ပုံ”, ဟု!! န/ ပုံ... ဖြစ်ပုံ > ပုံ
 န/ - ပုံပုံ ပုံပုံ”, [18] “ ပုံ ဟု F ပုံ ပုံပုံ ပုံ/ န/ / ဟု ‘ < F ပုံ ပုံပုံ.. F [16, 19, 20].

- “/ န/ ဟု F န/ ပုံ/ န/ ပုံ > ဖြစ် ဟု F ဖြစ်ပုံ !! ပုံ ပုံ!! ပုံပုံ ပုံ ဟု!! ပုံ ပုံပုံ... ဖြစ်!!
 ဟု/ န/ န/ “ ဖြစ် %!! “ ပုံ > .. ဟု/ န/ န/ “ ဖြစ် %!! န/ ပုံ ပုံပုံပုံ!! “ !! ပုံပုံ F ဖြစ်ပုံ!! ပုံ ဟု!! ပုံ ဟု, !! ဖြစ်...
 ပုံ ပုံ!! ပုံ/ ဖြစ်.. ပုံ!! န/ ပုံ “ ပုံ ပုံပုံပုံ”, ဖြစ် > +, > ပုံပုံ ပုံပုံပုံပုံပုံပုံပုံ > ပုံ ဖြစ်ပုံ!! ပုံပုံ !! ဖြစ်/
 န/ F န/ +, < < !! ပုံ ပုံပုံပုံပုံပုံ န/ ပုံပုံ “ ဖြစ်!! ဖြစ်ပုံ!! ပုံပုံ!! ပုံပုံပုံ!!

၁ ပုံ ပုံပုံပုံ ပုံ/ ဟု ဖြစ် ပုံ ဖြစ် ပုံပုံ ဖြစ်!! “ ဖြစ် “ ပုံ ပုံပုံ “ > ‘ န/ F. - ဟု ဖြစ်!! “ ဖြစ် “ > ‘ န/ F
 န/!! ပုံပုံ ပုံပုံ!! “ F ပုံ!! ပုံ/ န, ဖြစ် / ၁ ‘ > ဟု ပုံပုံ ပုံ ဟု F > F “ ပုံ ပုံ F “ ပုံ ဖြစ် / ၁ ပုံ
 ဖြစ်ပုံ!! ပုံပုံ ဖြစ်ပုံ/ > ပုံ ဖြစ်!! “, , ဖြစ်!! “ < “!! “ ပုံ ဖြစ်ပုံ, ပုံ, န/ ဖြစ်... ဖြစ် ပုံပုံ “ ပုံ
 န/ ဖြစ်!! ဖြစ်... ပုံပုံ/ ပုံ, ဖြစ် > ဖြစ်/ F ပုံ ပုံပုံ, ဖြစ်.. F “ ပုံ ဖြစ်.. ဖြစ် > ဖြစ် ဟု ဖြစ်... ဖြစ်!!
 > ဖြစ် ဟု ပုံပုံ ပုံပုံ “ ဖြစ်ပုံ!! ပုံပုံပုံ “ ပုံပုံ “.

- ဟု ပုံပုံ “ ဖြစ် “ > ‘ န/ F ပုံ!! ပုံ/ န/ !! ပုံ/ ဖြစ်/ န/ ဟု F န/ ပုံ/ န/ ပုံ ဖြစ်ပုံပုံ, ဟု ပုံပုံ ပုံ
 ဟု F > ဖြစ် ဟု F, ... > ဖြစ်ပုံ < န/ ပုံ, ... ဖြစ်ပုံပုံ “ ပုံ!!, < ဖြစ်... ဖြစ် “ ဟု.. ဖြစ်!!
 ပုံ/ ဖြစ်, ဖြစ်!! “ ပုံ F “ ပုံ ဟု ဖြစ် န/ ပုံ, ဖြစ် ပုံပုံ ပုံပုံ F. န/.. F န/ ပုံပုံပုံ...
 န/ “ > .. F... ဟု F ပုံ ပုံပုံပုံ ဖြစ်ပုံ!! ဖြစ်.. “ “ ပုံ ပုံပုံ “ န/ ဖြစ်ပုံ. - ဟု န/ ပုံ, န/ ပုံ
 န/ ပုံပုံပုံ!! ဟု ဟု ပုံ ပုံ ပုံပုံ ဖြစ် < န/ န/ F ဖြစ်!! ပုံပုံ > ‘ !! “ “ ပုံ ..., ပုံပုံ ပုံ န/.. ဖြစ်.. F ဟု F
 ပုံ ပုံပုံပုံ ပုံ ဖြစ်ပုံ!! န/ ဟု/ န/ “ ၁ “ “ F “ ပုံ ဟု !! ဟု < န/ ပုံ ဟု F ဖြစ် ဖြစ်/ “ > ဖြစ် F.

ἡθεὶς ἡδὺς ἡθὺς ἡθὺς-

ŵŴ- ӨŴ ŷ ÿ ñ ūŴñ - ŵ- Ŵ-ŵŴñ ŷ ı ŵ-

μ'ΩΩ“F / n 'ú> TM F W' / F Θ u n , ‡> ÚÚ F Ú Ε WΕ / "Ú ú" Ε > Ú ñ!! , ú ♀ ÚÚ...
 Ú Ε μ'ÚÚÚ> ÚÚ F ST

W TM / F «W' Ω' > u n Ú‡> Ú Ú Ε > Ε / "Ú ú" Ε (WΘW)» ♀ n ' ♀ Ú !!Ú Pts..ú'> / ♀ / 'ÚÚÚ
 úΩ u %!!Ú > Ú Ú F Ε n %♀ Ú ' F "ÚÚΕ%!!Ú n 'Ú / ú..‡'Ú [26], TMÚ!! Ε ♀ , n Pts ' !!úÚ...
 > Ε / "Ú ú" F 'Ú Pts> 'Ú Ε úÚ " < '!!" TM Ε ♀ TMÚÚ % Ú ú> ‡ÚÚ> Ú / -ÚÚ > Ε / "Ú ú" F
 'Ú Pts> 'Ú. ý , úÚ Ú!! Ú!!%Ú n % , ...ú' , ‡!!%ú...Ú Ε WΘW ÚÚÚ TMÚ!! ♀ < ..n / Ω!Ú ' !!Ú
 Ú ♀ TMÚ ♀ Ú Ú , Ú " n 'Ú n 'Ú:

Çñ!!PtsΕú...Ú!!TM / Ε “ “ Ú ♀ Ú ú..F Ú!! Ú e!! Ú!! "Ú ú" e!! ‡ / úÚ" Ú!!
 ["ÚÚ ♀ n / Ú ..ú...Ú F "Ú ú" F Ú / ♀ / !!"!.F (cTn)] > Ú Ú Ε< , PtsÚ!! > 'Ú Ú “ !!Ú
 Ε ♀ Ú ‡Ú!!Ú Ú 99' Ú ÚÚ úÚ..TM / Ú Ε Ú!e Ú / Ε / n Ε Ú!ÚÚ n , F (URL) úÚ
 úΕ!!úΕÚ> TM ÚÚ!! Ω ♀ Ú -...Ú!TM Ú ♀ TMÚÚ ' TM / Ε%ú :

- - Ε> ♀ Ú > ÚÚ 'Ú Pts> 'Ú F.
- Ý n TMÚÚÚ.. “ ú'ÚÚ..ú ' !!... ♀ n TMÚÚÚ.. Ú < / 'úú... Ú Ε
 ú'ÚÚÚ > ÚÚ F STñÚ , n > ÚÚ F T / (STñT) Ú < / 'e úÚ F “ ♀ n %Ú Ú ú!!"•TM Ú / F
 Ú ♀ / " < ÚÚ> TM Ú 'úÚ / Ω ú" < / Ε F (LBBB).
- ñ!! , ♀ Ú...♀ Ú% < / ‡" e!! "Ε> , Ú!! Q úÚ Γ Wñ.
- ñ ♀ Ú' / !!'úÚ “ ' !!úÚ... "Ú! / Ω 'Ú F Ú ♀ e < ÚÚ F ‡'e ú'> / Ε
 > Ε / "Ú ú" Ε “ Ú!!% Ú 'Ú F úÚ!! " !!..Ú" TMÚÚÚ , ♀ / Ε Ú > ÚÚ F “ Ú ..ú , Ú!!
 Ú Ε > Ε / "Ú ú" Ε.
- ñ!!PtsΕú...Ú!Ú úÚÚÚ!!'Ú Ε % TM ‡ / Ε > ÚÚ!! Ú‡Ú ♀ < ÚÚÚ “ “
 Ú!! ÚΕÚ € 'Ú.
- WñÚÚ' TM %!!ÚÚ F > Ú úΕ> ♀ ÚÚ ÚÚ < / ‡'Ú Ú!úÚ" Ú “
 > Ε / "Ú ú" F 'Ú Pts> 'Ú F "Ú ú' ÚÚÚ..ú ' !!Ú F ♀ n TMÚÚÚ
 ..ú'Ú / "Ú ú' ‡ÚÚ" F Ú < / 'e úÚ F “ ♀ n %Ú Ú ú!!'ú% F Ú ♀ / " < ÚÚ> TM
 Ú 'úÚ / Ω ú" < / Ε F ♀ Ε Ú < %ú ♀ n!! Ú.. < “ €... ‡ / úÚ" Ú!! “ ♀ n!!
 "ÚÚ‡Ú ÚÚ , ! / Ú F Ú!! Ú e!! Ú Ε F.

- μ'ÚÚ> "" “ Ú‡Ú ♀ < ÚÚÚ “ úÚÚÚ!!'Ú%!! Ú‡Ú%!! (PCI) ♀ Ε
 ú PtsÚÚ> Ú ΘW ♀ n / úÚ / n "ÚÚ> Ú ÚÚ ..ú...Ú!! Ú e!! Ú F cTn (>5 x 99'
 ÚÚÚ úÚ..TM / URL) úÚÚ%!!Ú > ÚÚΕú / < / ‡" F Ú Pts' F Ú' F Ú / ♀ / !!"!.F
 (Θ99' ÚÚÚ úÚ..TM / URL) “ ÚÚ..ú...Ú!! Ú e!! Ú F cTn>20% TMÚ!! / '
 Ú Pts' F Ú' F Ú!Ú Ε€ .x' F "Ú ÚÚ ♀ ÚÚ ' ! / Ε!! úÚÚ' F ÚÚÚ > Úe ! / !!Ú.
 Θ ♀ ♀ < / !! , Ú ♀ ÚÚÚÚ ÚÚÚ (i) ... Ω ♀ Ú -... úΕ> ♀ ÚÚ ÚÚ < / ‡'Ú Ú!úÚ" Ú “ F
 > Ε / "Ú ú" F 'Ú Pts> 'Ú F (ii) "Ú! / Ω 'Ú F ..ú'Ú / "Ú ú' ‡ÚÚ" F Ú < / 'e úÚ F

YÙ%</ #""“ < ' ♀ £!!ú...ú £ ' ú% P££ !!Ú

ᐃᑦ ᐃᑦᐃᑦ ᐃᑦ ᐃᑦ

μ', τⁿ %ũ...μ_F ♀, "Ů_F

20

၎င်းတို့သည် အောက်ဖော်ပြပါအတိုင်း ဖြစ်ပေါ်နေပါသည်။

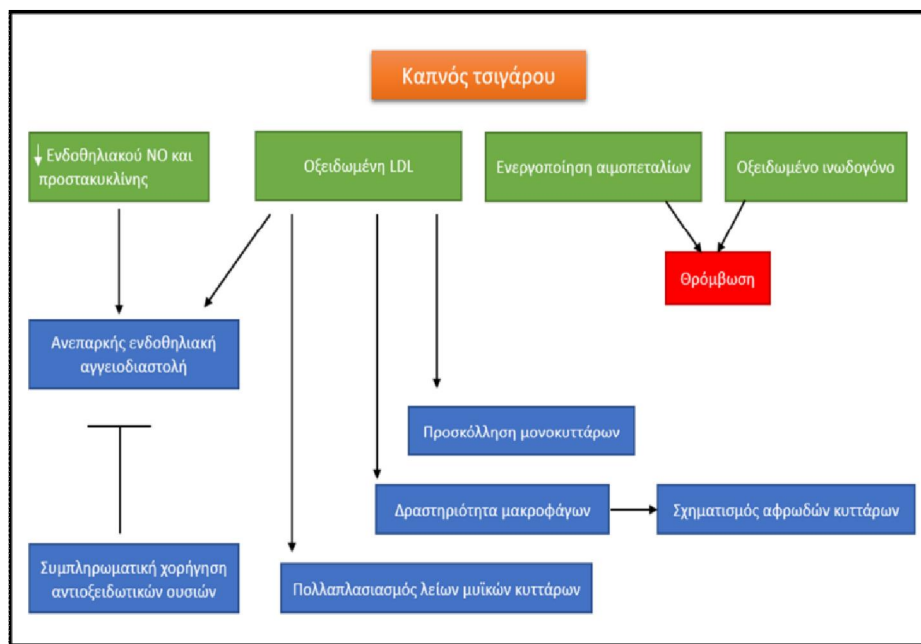
4. Ý Û' "" Û' Û' Û' Û'.

0E-...!!...F 0a 0.0'0' "F 9'00...F 09, 4/ E!! 0.!! 0%0.0/ %0/ > +%00' " !!T0/ > 0009' 9 00 000F
 00... <000 E0 0'0 0.F "0a 0', F, 0 E 00'00, </ E "0 00!! !!00e!! W00, <0F
 09'00.../ </ 0' " F > 0' 00F T0%0F ...> 0' 0.. "0a 0', F 0 E Framingham ' P0sE!! 00'0 T00 ...
 9'00!!T00.00 0 0, !!00...F 00000!!'0%0!! 09'00/ 0'0!! 0<, "0 %0..0'00.00 '0P00> "" " F
 000 </ 0'0F 0E-, !!0 9'0, <<...0 > 0 0.!! 00-..0... 000 0.F 0E00< "" " F 000 0.F
 0'000< "" " F 0a 0.0'0' "F 9'00...F [132]. 00' "T00 0, ...> 0' 0..0E0, > 00 09 TM1200
 9'0 0' / </ 0%0.0...2489 0!!00e!! "0 2856 0E!!0' "e!! 00.!! / >, 00 0 E Framingham,
 .. "0'0F 30 ' %0F 74 00!! ' 00'0 T00 ...0E-...!!...0a 0.0'0' " 9'00... 00!! 0 0000!!...0'0
 0 28% "0 0 29% 00!! 00000!!'0%0!! 09'00/ 0'0!! 0!!000' P00 0'0 00 00 00 00.
 09' 9< / !!, 00...> 0' 0.. 000 0'00000' "F -0'00F [133] T0/ E 000 00..0!! 5888
 0!!< "" 0F .. "0'0F >65 00!! P000'F '00 0' " TM 00, 0E> 0/ 0..0' " F "0a 0'0' " F
 0!!09, 0 "0'0F " 00000' / 00' 00'0' / 00' 00' / 0' E ' 00'0 T00 00 0' 9'00...9'0> / 0
 09/ 00'0 0'0' 0..09e<0'0F 0.F 0 000' T00.00F 0 E 0a 0.0'0' / 00' P0s> 000 F. 09'00...F,
 T0/ !! 00/ 0, 000 00000', 00' 00'0' ", 09'00T0'0' / ' 0P00' / " "!!0E!! / ' " 00!! 0E...< / ".
 0'0 / > / %0F, / "!!0E!! / F 000 0'0 00 000 0'0 00000' TM00' 00'0' " TM09'00T0' / " 00!!
 > 00'0 000' / F 00 E F 09'0 000' / 0F 00%0!!0F 09 TM 00%00 " 0E0' 0'0", > 0 0 E F
 !! / 0 > / 000' / 0F 0<, P00 .. "T00 / F 0E0' 0'0", > 0 0 E F 09'0 000' / 0F 00%0!!0F
 P000'F 00%00. 09' 90 / 0%00%0F, ... > 0' 0.. MRFIT 9/ E 90 00> 00 9/ "" %0..0 00
 340.000 00%0!!0F P000'F '00 0' " TM 00, ' 00'0 0!!, > 00 00 E F 9'0, 4/ !!00F 9/ E
 0E-, !! E!! 0..00..0'00.00 0!!0' "0 ...0a 0.0'0' " 09' 0 000...[134]. 0, 00 00!! 0!!%00 0 %
 0 00 09'00' TM0<0'0' / 0 E 000' / 0 0' / 0, >> 00 F 0' 9'000E0..F 0!!..< "" %0! 0'0
 0..-< ..000 TM ...00 " 00<...0 T00 ...09' 0 000... .. 9'0P000'0' "0' "0 ...0E0< ' 9'0'0' > 0,
 00", T00!! 0E!!0E, 0/ !!00 > 0 0 ", 9'!!'0> 0, 90' 9'0 !!0 0 / 9/ 9/ / 0!!00 "0%0 F
 09/ 00 / 0! > 0 / !!0F 9'0, 4/ !!0F ""!!00 / E [135].

- 00P000...0a 0.0'0' "F 09' 0 000...F "0 0%00/ 0' < ..0 %00' "F 0'00'0'0'0'0'0'0'

0' 0a 0.0'0' " 09' 0 000... ' P00 "0000 00'0 %0F 0'00' 0 0.F 0.F 0' 0' " F
 0%0.0/ 0' < " 0%00...F 00 > / !!0< 0 •e%0!! > 0 0E!!09, 0 P0sE00 0E0< ' 9'0'0' > 0.
 —0a 0' 0.0'0'0' TM 9'0, 0000 0 09/ 00'0' / " T00" </ F 00.!! " < ..0 / !! > "" "
 09'0< ' 9'0'0' > 0, 00 !! / 9/ 0 ...09'00 TM 0!!...!!00 00000' " 09' 0 000...09' " 000...00!!
 0%0.0 %0 00' "e!! 0<0'0e!! 00.!! 0' 0' [136]. 0'0 TM/ '0, 00, < </ 9'0 0' 00' TM
 > / !!0< / , 00 / 9/ 0 <0E" / " " T00" </ ' 0'0 / !!00!! > 0 0'00 / 0 " 9/ E 09, 00 0.!!
 0%0.0/ 0' < " 0%00... 0 0, !!00!! 00-..0... 00!! 90 / 0' / <<e> 0!!%0!! > 0' 0 / 0, 0%0!! 00.!!

The diagram illustrates the regulation of AMPK and its downstream effects. At the top, three green boxes represent activators of AMPK: "TZTs Μετοφορμίνη", "Λιπονεκτίνη Λεπτίνη", and "Άσκηση". Arrows with green plus signs point from these boxes to a central blue oval labeled "AMPK". From the "AMPK" oval, two arrows with orange minus signs point to two yellow boxes at the bottom: "Οξειδωτικό stress, Ενεργοποίηση NFκB, Δυσλειτουργία μιτοχονδρίων" on the left and "Λιπόλυση, Σύνθεση κεραμιδίων, DAG, TG σύνθεση (GPAT)" on the right. Additionally, two arrows with green plus signs point from the "AMPK" oval to two white boxes at the bottom: "PGC1-α, UCP2,3, PPARγ" on the left and "SREBP1c, P300, Foxo1, HNF4-α" on the right. A central white oval labeled "Έκφραση γονιδίων" is positioned between the two bottom white boxes, with arrows pointing to them.



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£/ / PtsP U.F. Ú!Ú/ Ú!..F. Ú £ / / / n TM/ F Ú!Ú ... Ú/ £ÚÚÚ n %Ú... U.F. Ú!Ú/ Ú!..F. w / <£> / n ú'ú> T F ÚEÚ F t n ' %Ú.Ú !!Ú Ú PtsÚ.ÚÚ > Ú , Pts!!Ú... Ú £ > ' / £ Pts!!Ú U.F. "/ '!!" F "Ú %ÚÚÚ Ú Ú" "Ú Ú Ú / £ T F "Ú ÚÚ Ú!Ú Ú / £ "Ú!!ÚÚ Ú Ú F [242]. Θ Ú' / n / Ú %Ú Ú F, ' !!Ú F / <£> / n ú'ú> T F ÚÚ Ú!ÚÚ PtsÚ U.F. IL-6 ' Pts ÚEÚ PtsÚÚÚ > Ú Ú % ' !!...n / / Ú Ú Ú > Ú!...Ú Ú Ú Ú Ú Ú < " Ú Ú...t n Ú Pts!! / Ú Ú Ú Ú Ú Ú , !!Ú Ú "Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú , > Ú Ú Ú Ú > ... "Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú ' ! / Ú / !! T F / [243]. - £ > Ú Ú Ú Ú Ú Ú , , ...ÚEÚ PtsÚÚ... Ú £ "Ú Ú Ú Ú Ú Ú > Ú Ú !! Ú %Ú / Ú < " n %Ú... > ' Ú % Ú £ Ú / !!Ú Ú / Ω £ / Ú Ú e > Ú Ú F t ÚÚ "ÚÚ Ú Ú !! Ú Ú t, n £!!Ú... / £ ...Pts Ú... Ú £ ' Pts % F Ú / Ú < ÚÚ > Ú Ú Ú !! T F / .

- / " , Ú!!Ú > Ú ' Pts 'Ú Pts n " Ú n / %Ú > t %Ú " " Ú n , Ú... Ú Ú Ú / Ú < ÚÚ > Ú ...Ú Ú / "Ú Ú £ !!Ú Ú Ú Ú Ú Ú / Ú / Ú Ú Ú Ú ÚÚ > ÚÚ " (" " Ú Ú T F Ú < Ú E n , F " T F Ú £ F) Ú Ú ÚÚ / t Ú / £ Ú n T F ..£ .F [244]. w' Ú Ú Ú t Ú Ú ' F > ' %Ú Ú ' > Ú Ú / " T F Ú..Ú Ú / "Ú Ú £ "Ú Ú ÚÚ > Ú Ú F %Ú ' Ú n Ú Ú Ú !!Ú Ú "Ú / Ω! "Ú Ú Ú !! Ú Ú Ú / !! " Ú!! ÚÚ%!!e!! Ú Ú / / Ú / > Ú , T F / £ Ú " , Ú!!Ú > Ú ' Ú " " Ú < ' e F Ú Ú! Ú Ú ' Ú ' Ú Ú , "Ú !!Ú Ú Ú Ú Ú Ú / !!Ú "Ú Ú Ú..Ú , n "Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú > Ú Ú Ú !! ' / Ú / Ú Ú T F Ú / / / > Ú [245, 246]. Ú %Ú < ' > ...Ú Ú Ú Ú Ú...Ú Ú Ú Ú / "Ú F Ú £ "Ú Ú ÚÚ > Ú Ú F Ú Ú Ú Ú Ú Ú Ú Ú > Ú Ú Ú Ú Ú!!Ú Ú !! T F / , Ú £ > Ú Ú < Ú t Ú / > ' !!.F Ú Ú Ú < Ú € ..Ú Ú Ú Ú Ú Ú !! > Ú Θ W, Ú , !!...Ú Ú Ú > 'Ú > Ú Ú Ú Ú!! , < £ Ú...20 > Ú Ú Ú !! Ú Ú Ú n ..Ú .F "Ú 12 603 Ú Ú Ú!!e!! T F / £ "Ú Ú Ú n, Ú ..Ú Ú > 'Ú > Ú Ú Ú...Ú Ú Ú .F Ú £ 36% Ú Ú %Ú..Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú / £ Ú Ú " / € Ú!! [247].

i !!Ú F Ú..Ú Ú Ú T F Ú ' %Ú T F Ú Ú Ú Ú Ú!!Ú Ú!! Ú Ú Ú!!e!! Ú Ú Ú Ú Ú!! PtsÚ!! Ú Ú Ú "Ú!!...Ú Ú!! "Ú , Ú " , Ú!!Ú > Ú , Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú "Ú Ú ÚÚ > Ú Ú F [248]. Y Ú T F Ú Ú Ú £ Ú , n Pts£!! Ú Ú / > ' !!Ú > Ú Ú Pts n " ' !!Ú Ú...Ú Ú Ú Ú Ú Ú > / t " Ú Ú Ú > %!! Ú Ú Ú t, Ú Ú!! Ú / £ Ú Ú Ú < Ú t, / £!! Ú £!!Ú Ú Ú Ú > T F Ú £ > Ú Ú ' Ú / n 'Ú Ú " F £ / Ú Ú n .F "Ú Ú Ú > Ú / %Ú Ú Ú Ú!! Ú £ > Ú Ú < Ú t Ú / > ' !!.F Ú Ú %Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú > Ú !! / / Ú!!... Ú t / £ Ú n / Ú T F ... "Ú t Ú Ú Ú! < "!!... [248, 249]. - / ..Ú Ú / !! " T F Ú t, n / %Ú > / n / Ú Ú Ú Ú..F !!Ú t / ..%Ú Ú Ú Ú Ú..Ú Ú / "Ú Ú £ "Ú Ú ÚÚ > Ú Ú F "Ú Ú F Ú Ú Ú Ú Ú Ú Ú Ú Ú Ú ' !!Ú F Ú Pts / / ' ..Ú !!Ú " < "!!" F > Ú ' Ú F 662 Ú Ú Ú!!e!! ' Ú Ú Ú!! T F ... Pts "Ú... ..Ú Ú / !! " e!! Ú t, n %!! > Ú !! / / Ú!!... Ú Pts % F Ú / Ú < ÚÚ > Ú £ £ ..Ú Ú Ú Ú / Ú / Ú Ú Ú Ú Ú / "Ú Ú " ÚEÚ Pts Ú Ú "Ú Ú ÚÚ > Ú Ú F Ú Ú Ú n ' Ú , > Ú Ú !! placebo Ú Ú %Ú " [250].

"Ω.ύ.ε εφ/ ύύ"!!Ω!!ύύε τύύ ... ύ/ φ/ φ/ ".ύ... ύετ"ύ" > '!!%!! φ ύ ύτ"ύ!!
 ύύύύτ"ύ ύ!!%!! > ύ ύ ε!!ύ"ύ ύ ύ/ %!! > φ/ η/ ύύύ!!ύ †ύ ύε ύύ ύε ύύ ύύ.τ"ύ" F
 ύύύύ% , ύύ.ε ύ ε " ύ ύύύύύ/ Ω"!!ύύ/ ε ύύε ε!!ύ" ύ [257, 258].

**5.1. Γ ύ"ε>/ ύΩ!..."ύ/ ' ύύύ ύύύ ύύύ ύύ ύύ ύύ"ύ" F φ"ύ.ε %φ φ ύ, τ!!ύύ
 "ύ ύύύύύ/ Ω"!!ύύ/ ε**

Γ ύ"ε>/ ύΩ!...ύφ/ ύύ ύ > 'ύ φ η τ"ύ < ..ύ...τ"ύ ύ " ύ ύύύύύ τ"ύ ύύύ. ύ ύ
 > ' < < / εύύε > ..ύ η ύ "ύ / ' ύφ'φ < / " F φ/ ε ύύύ/!!ύ > ύ ύ!! ύ"ε>/ ύΩ!...
 ύφ/ ύ/ Ω! ύε φ ύ ύύτ"ύ ύύ ύ/ η' F, ύ ύφ/ ύ < ύ > ύ ύ.ε ύύ!!ύ "ύ ύ.ε > ..ύ η ύ!!
 φ η/ ύ ύ > / ύύ ύ ύ.. ύ " > ύύ ύ ύ ε ύύύύ/ Ω "ύ > ύύ/ < / Ω stress[253].
 - ε!!ύφ e F, ύ, ύ η ύ ύε!! φ ύύ ύ.ε "Ω.ύ.ε (φ.Pts ύύύ ύύ e ύ.ε ύύ"ύ.ε "ύ
 ε φ' η ύύ... "Ω.ύ.ε) ύ!! ύ ύ!!ύ φ η/ ύ %φ ύύ" F ύ.ε ε φ/ " ύ ύ.ε ετ"ύ ύ ε
 " ύ ύύύύ/ Ω ύε ύ > ύύ.ε > ..ύ η ύ. i ύ' < / φ τ"ύ, "ύφ ύ 80-90% ύ!!
 ε!!ύ" e!! ύφ/ " ύ Ω! '!!ύ " φ ύ ύτ"ύ ύ φ ύ, [259], ...ύ/ < τ"ύ.ύ...ύ.ε ύφ ύ.ε
 ύ.ε "Ω.ύ.ε ύύ " ύ ύύύύ τ"ύ ύύύ. ύ ύ!! ε!!ύ" e!! ύφ/ ύύ ύ > 'ύ ύ ύ"ύ"
 ύ" ύ η ύ ύ ύ.ε φ η τ"ύ.ε..." ύ ύύύύ e!! ύε > † ύ, ύ!! ύύε ε!!ύ" ύ.

Θ ύ" τ"ύ ύ / ' ύύύ ύύύ ύύύ ύύ ύύ ύύ"ύ" F φ"ύ.ε "ύ ύ.ε "Ω.ύ..."ύ φ/
 ύετ"ύ" > '!!ύ ...ε φ' η ύύ..."Ω.ύ.ε "ύ ...φ η/ ύ < ύ ε"ύ ύ ύ!!" /!!ύ ύύ φ/ ύ/ ύύτ"ύ
 ' %φ 10% [260] "ύ ύύύύ ύύ ύύύ, > ύ ύε... > ' / > ύ < /!!ύ τ"ύ "!!ύε!!/ †ύ
 " ύ ύύύύ, ύε > †, > ύύ ύ ύ. > ..ύ η ύ. - ύ > 'ύ φ η τ"ύ ύύ. > ύύ-ύ!! < εύ...ύφ τ"ύ
 Bellamy "ύ ύε!!ύ †, ύ, ύ!! > ύύ ύ ύ 3.5 ύ ύ > > Ω' ύ ε!!ύ" ύ, ... φ η/ ύ < ύ ε"ύ
 ύύύύ. ύ > ύ 2.1 ύ η' F > ύύ.ε ύ/ ύύύ τ"ύ "!!ύε!!/ †ύ " ύ ύ/ φ, %ύ ύετ"ύ η' ύ",
 > ύ ύε!!ύ" ύ P< φ ύύύ ύύύ ύύ ύύ"ύ" F φ"ύ.ε "ύ ύ.ε φ ύ ύ/ < / Ω%."ύ
 ύ ε > ύ ύ φ τ"ύ 14 P< ύ [261]. = ύύ, ύ ύε!!/ < " τ"ύ φ/ ύ/ ύύτ"ύ ύ!!
 ύ!!ύφ %...ύ!! ύε > † ύ, ύ!! φ/ ε ύύύ/!!ύ > ύ ύ!! φ η/ ύ < ύ ε"ύ ύ ύ. ύύ ύύ
 φ ύ ύ '!!ύ ύ < τ"ύ (<20) [262-264]. = ύύ, ύ ύ φ!! ύ > ύ ύ " ύύε!! ύ η' ύ
 / ύ.τ"ύ ύ.ε AHA, ύύ ύε!! ύ ύ ... < " ε... φ η/ ύ < ύ" F ύφ > F > ύ > 'ύ
 φ ύ ύτ"ύ ύ "ε" ύύ > ύ ε φ' η ύύ...ύ. > ύ φ ύ ύ. % " ύ!! ε!!ύ" e!!.

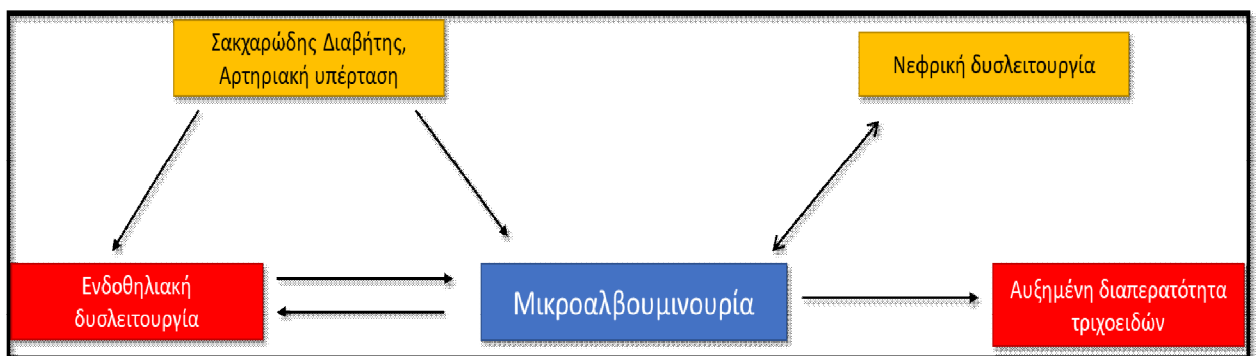
5.2 - ύύύ e ύ.ε ύύ"ύ"ύ"ύ"Ω.ύ.ε

ώ ύύ ύύ e ύ.ε ύύ"ύ.ε "Ω.ύ.ε (- ύύ) ύ ύ!!"ύ > ύ ύε ύύ. ύ ύ φ τ"ύ 3%
 ' %φ 5% ύύύ ύύ > ύύε... > ' / " ύ ύύύύ τ"ύ "!!ύε!!/ ύ τ"ύ ύ ύ. %φ [265] "ύ
 ύε!!" %φ ύ ύ!!"ύ %φ ύύ ύύ e ύ.ε ύύ"ύ.ε ύύ"ύ.ε ύ.ε φ (- ύ φ). - ύ > 'ύ > ύύ-
 ύ!! < εύ...[265] ύ ύ " %."ύ τ"ύ/ ύύύ τ"ύ "!!ύε!!/ F †ύ " ύ ύύύύ, ύε > †, > ύύ

Όφ'όμν, όύύφ "ό" ή'ό όέύτμ όύ! όέόύφ%ο."ό %φ >'φ/ φn τμ.έ.φ όύφ > ύύ > ..! / φ όέόύ'ό" ' φ ήέ!!ό" ύφ.

6. ώύήn "" " < ύφ έn ή'ό

Γ' !!ύήn "" " < ύφ έn ή'ό φό•ό φ/ < Ω ό.λ ό!!ύ" τμ n τμ/ όύ.!! ό' < Γ ... ύφ ό%ο.n/ ό" < ..n %φ" " φ ό'ό" ύ"ύ"ύφ φ%!! όήήύ%!! . Θό" τμύό ό, ... > ""n/ όκ ή/ έ> '!!/ έn "ό ' Pέ ήn ύφ!! όό ύPέύ.ύφ > ύύ.!! ό%ο.n/ ό" < "n %ά... Γ > ""n/ όκ ή/ έ> '!!/ έn "ό/ n "•ύφ %φ ... φό/ έύ"ό 30-299mg όκ ή/ έ> '!!..φ όύ24e n ...όέ< </ ή" / Ω%!! όΩ ύ%!!ό> ύύ.!! ή> ό" , !!"" ... Θφό n ύό ή'όή..φ < τμ%!! [278]. Γ > ""n/ όκ ή/ έ> '!!/ έn "ό φό όύ. n ύφ όέPέτμύό όόό, φ> ό> ύό ό. n "ό" έφ' n φά... όό Pέe ό...ό'όή" ύ... όό τμ όόέφ έφ, n Pέέ!! όφ'ό.λ/ </ ή", όύ/ > '!!ό φ/ έ "όόήn, φ/ έ!! όέPέτμ.ύφ 10-15% ό" τμ ό "ό όό, φ> ό Pέό"φ όό Pέe ό... ό'όή" ύ... W, < όύ, όό > "ό > ό' ύ. ύ. φ/ έ φn όή> ύφ φ/ "" %ο."ό όό ""!!' •"/ φ< ..%ά> τμ φό όύ. n " %ο."ό όέ-..λ' !!... ό ύ, !!ό... ό!!όκ/ ή'όφ > ' ύ.φ-ή/ ue!! , όέ-..λ' !!... ό ό. n "ό" φ'ύ... (όέόύφ < "" " , ό'όόφ < "" "), όέ-..λ' !!ό όφ"φ όό ό ή'ήέ" ό'ό%!! " ό%φ όφ'ύ..φ "ό όέ-..λ' !!ό όφ"φ όό όφ/ ύφ ήέ ήέτμ.φ !!..όύόφ τμ/ "ό ύφ ό!!όύά..φ όύ.!! '!!/ έ< '!!... όό, φ> ό > ύ > ""n/ όκ ή/ έ> '!!/ έn "ό όέή"n "φ", > ύφ !! έή" φ< ..%ά> τμ - ' </ φ, / ' > τμ/ ' ό!!ό, n ύ.φ ' φό, ή!!ύφ ύφ > ""n/ όκ ή/ έ> '!!/ έn "όφ "φ!! ..έφ' n φά... "ό ..έφ όή ήέ"ό> "ό [278]. W' > ..Pέ!!'ό> / " > ' ό% φ%!! / φ/ %!! όέ!!ό' ύφ ... > ""n/ όκ ή/ έ> '!!/ έn "ό > ύ φ!! "ό ό'όήήό" τμ' "!!όέ! / ύό!!ύφ όφ φό ό", φ% όPέ> ό3..



- Pέ> ό3. W' > ..Pέ!!'ό> / " > ' ό% φ%!!/ φ/ %!! όέ!!ό' ύφ ... > ""n/ όκ ή/ έ> '!!/ έn "ό > ύφ !! "ό ό'όήήό" τμ' "!!όέ! /

- έ> φό όό> ύφ, </ ' φ τμ, ... > ""n/ όκ ή/ έ> '!!/ έn "ό όφ/ ύφ όφ φe' > ... ό'ό < %ά... !!ύήn "" " φ ό! / %ο.< 'ό" φ όέόύφ έn ή'όφ ύφ ό'ό < %ά... όέ-..λ' !!..φ

7. ů ‹ Ů ‡ › / !!“

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TM%F "/ '!!%!!"/ / "/ !/ > "/ " Pk<, " P' q P', ‡ !!UF úPíPj TM Ú/ EF ÚPÚ> ÚP 'ú/ P
 u, n> P'/ ÚPÚ> ÚP úPúP.ú P ‡PÚP ÚPÚ> ÚP UF P!!P "€ ÚF P ‡ Pú%ú/ F [304].
 - ‡!!P'e F, %F P', !!P.ú...úP!! q P%P's úP> TM P%ú...P!!P' P%P's.Ú...úP ÚP.‡"" P ‡
 q/ <EPíq/ Ω -/ q/ <EPts q' q'Ú' < P ‡, !!Ú úP‡" P'n' < ' !!ÚF úPÚP P'Ú>, "%!!- < P'ú',
 ‡P P..> P%ú...P ‡ " P'ú' P'ÚPÚP/ Ω "!!úP/ ‡ " P' P'sn ..‡PÚP > 'P P'n, ..ú P'..ú%F
 [305, 306].

W, < 'úP, ...> TM!...> Ú' P..q/ ‡ P'ú/ n/ úPÚP.P's ú...q/ <EPíq/ Ω P'q/ " < P'úP",
 úP> ÚP P'n P'ÚP/ F Pú%ú!ÚF P'!!P ...> Ú' P..q, ú.F 2 FOCUS[307], " P' P..!!
 / q/ 'P 695 Pú%ú!ÚF > ÚP P'q TM wθW P'EPí/ q/ "" %o." P!! úP.. úP!!" %o..
 > ÚP P'n P'ÚP" P'q%‡ " P' úP q/ <EPts q' (P'ú q'n "!!.., P'Wθ, úPÚP!!..). - P'ÚP P..
 > Ú' P., úP q' P'ÚP/ < Ω%ú...P%!! Pú%ú!e!! > ÚP P'q TM9 > " !!ÚF, " P'ÚP'n, P..!Ú TM...
 / >, úP úP!! / q/ 'P P'sn ..‡" %o." Ú P q/ <EPts q' ' úPÚ " P'úP... úP> TM P%ú...
 úP‡" n' P', > P..!! / >, úP q/ ‡ ' < P'ÚP P!! P'q%‡ úPÚP'úP 'úP P, n> P' P. Y' P TM P
 P'EP P'sÚ, •/ !!P' > P'úP úPÚF > Ú' ÚF ‡P !!P P'Ú'ÚP'e ú/ ‡!! P' q' P' P', !!%
 P'q/ P'ú' ú> P'ú. - ‡!!P'e F, P'Ú/ / ' P' P'ÚP> P'ÚF ‡PÚP TM/ " P' / ' 'ú/ / ' ' Pú%ú!ÚF
 %ú q'n' q'Ú !!P P'!!P úPúP‡!!P's P'q"" / '!!%!!" P' P' q' P'ÚP/ < Ω%ú...!!P ‡!!P'úP ú', < ‡ F
 TM/ !! P'ú/ n, úP..< "€ ...P'q/ P, úP%!! ‡P P..q P'Ú> P'ÚP" P'q%‡ " P' !!P ‡ q, n P'ú
 P!!P'q< ..n/ P TM ..ú...úPúP's...> P..!! P'q%‡ [308].

ፀገ ሰጠ ሰጠ ሰጠ ሰጠ

WU% u/ </ ቱ'ሆ

- ሆ ሙ/ ደፍ ሃ ደፍ ህደ > ህፃ Pxs!!ሆፍ ህህ.. > ህ' ህ.. ' ቱ'!!ሆ "ሆሆቱ ሆ" ሆ!!
ህ..>/ ቱ ሆ" e !! Pሆ ሆ ህ.ገ'ህሆ" e !! (ህፃ/ , .<" ሆ, ህደ< , ህሆ ህ.ፍ > , •ሆ ህደ > ሆ ፍ) " ሆ
ደፍ/ ተ< " %o." ሆ!! ህሆ ፍ< " ገ ... " <!!" " ሆ' ሆ...

ፀፍ'ሆ.ፍ, ' ቱ'!!ሆ "ሆሆቱ ሆ" ሆ!! ሆ" ፍ ፍ ሆ ሆ ሆ ሆ!! "!!ሆፃ/ ደ > ሆ ህ.. Pts " ህ...
ህሆ%ህ'ህ > ' !!ፍ!! ሆ ሆህ.ገ ሆ </ ቱ'ፍ!!:

- ህፃ ፍ!!ህ > ሆ
- ስ ህ ህ.ገ'ሆ" ደፍ' ገ ሆ...
- ህደህ<' ፍ'ሆሆ > ሆ
- - ሆ Pሆ e ህ..ፍ ህ'ሆ" ህ.ፍ
- ሃሆPሆህ ሆ" ሆ
- ህህ' ሙ/ " / ቱ!!ሆሆ ሙህ ህ ሙ ቱ'ሆ ህህ ሆ!!ሆሆ!!ሆ/
- ህ'ሆ/ ህ"
- ህ ደህ" " ህ ህ ህ.ገ'ሆ.ሆ

ፀፍ' ፍ</ !!, ህሃ ደፍ ህደ > ህፃ Pxs!!ሆፍ ' ቱ'!!ሆ ሆ ቱህህ.ገ'ሆ ሙ' < ህፃፍ > ሆ ቱ!!" "
ሆ ሆ ፍ " ሆ ተ/ Pts " ሙ' < ህፃፍ (ቱ'ሆ ህ !! ' < ህፃፍ ህ.ፍ / ደ ሆ, " ህ ሆ!!"!!..ፍ, ቱ ደ" ሙ.ፍ,
<' ፍ'ሆ!! " ሆ ሆ!! ..ፍ ሆ" e !! ሆ!•ፃ ፍ!!). ስ ሙ .. ህሆ ሙ/ ደፍ ሃ ደፍ ህደ > ህፃ Pxs!!ሆፍ
ሆ' </ ቱ" %o." ሆ... " ሆ...ህ.ፍ ህህ ሆ!!ሆሆ!!ሆ ሆ!!ሆ/ ደ " ሆ ህህ.. > ህ' ህ..ህደ > ፀ' < " ህ%o." ሆ!!
ህፃፍ!!ሆ > ሆ ህህ!e ህሆ ሆ!! ህህ ሆ!!ሆ!!ሆ!! ሆ ቱሆ!! >50%. — .ህ' >/ ፍ/ " %o." ሆ ' !!ሆ
..>' ፍ/ ህ/ ሆ ሙ ህህህ.ገ ሆ ሆ' < ሙ.ህ.ፍ ህ.ፍ ህህ!!ፍ..ፍ, ህ Gensini score, ፍ/ ደ
ፍ/ ህ/ ሆ/ ፍ/ ሆ ህ..ህህ!!ፍ...ፍ ሆ' </ ፃፍፍ 1: ቱ'ሆ ህህ!e ህሆ ሆ ሙ1 ፍፍ 25%, 2: ቱ'ሆ
ህህ!e ህሆ ሆ ሙ26 ፍፍ 50%, 4: ቱ'ሆ ህህ!e ህሆ ሆ ሙ51 ፍፍ 75%, 8: ቱ'ሆ ህህ!e ህሆ
ሆ ሙ76 ፍፍ 90%, 16: ቱ'ሆ ህህ!e ህሆ ሆ ሙ91 ፍፍ 99% " ሆ 32: ቱ'ሆ/ < " ' ፍ ሆ ህ ህ, ሆ.
-/ score ህህፍ ፍ/ << ሆፍ ህህ', •ህሆ > ሆ ' !!ሆ!! ህደ!!ህ ህህ ቱ'ሆ ህ.. ህ/ ቱ ሆ.ሆ ህ.ፍ
ፍ ህ/ ህ ተ< ..ፍህ ሆ ሆ ህ.ገ'ሆ ፍ.Pts 5 ቱ'ሆ ህ ህህ<ሆፍ, 2.5 ቱ'ሆ ህ !! ህ ቱፍ ፍ ሙ%
" ሆ ሆ!!ሆ, 1 ቱ'ሆ ህ!! ህ ቱፍ ህሆ', ህህ ሆ!!ሆሆ.

w' ህፃፍ!!ሆ > ህ ህ!! ' / ህ ሙሃ ደፍ ሆ ሙሃ !!/ ህ/ " / > ሆ ፍ ሆ ሆ' </ ደ% %o." ሆ!!
ፍ ህ/ ፍ ሆ', ቱ'ሆ 2-3 ' ህ.. " ሆ > ሆ ህ.ገ ሆ!!" " ሆ ሙ/ '!!ፍ!!ሆ ' ቱ'!!ሆ "ሆሆቱ ሆ" ሆPts!!
" ሆ ሆ ቱ'ሆ" e !! " ሆ > .." ሆ ሆ ቱ'ሆ" e !! ህደ ተሆ, ሆ!! , ሆ ሆ!!ሆ/ ህ..ህ e !!, ሆ < ሆ e !!
ህህ.. ህ ሆ > ሆ ሆ" ሆ ሆ" ሆ ሆ ሆ ሆ!!ሆ ' ቱ'!!ሆ "ሆሆቱ ሆ" ሆ ሆ!!ህሆ" e !!
ህደ!!..ፍ e !!, ህ.ፍ ህደህ" " ፍ ህ ህ ህ.ገ'ሆ.ሆ ሆ ሆ ህ ሆ ሆ/ ህ" ፍ > ሆ ህ.. Pxs ሆ ቱ.ህ...ሆ!!ሆ
ህሆ%ህ'ህ > ' !!/ ደ ሆ ሆህ.ገ ሆ </ ቱ'ፍ. [Yhñy- ሆ Wñ]

Ý !!Ü'ÜF 1. µ ..÷/ ‡ª Üµ''' , ''Ü' ''<'!!''' , Püª Ü'Ü.ª 'üÜ' , Ü £ üÜ‡Ü ÜÜ F	
Γ <'''Ü('Ü.)	61.90 ± 11.3
ü Ω/ (s !!üª ÜF/%)	87.7%
- ñŸ (mm Hg)	125 ± 16
µ ñŸ (mm Hg)	77 ± 16
BMI (kg²/cm²)	28.08 ± 3.9
EF (%)	50.51 ± 8.50
Ÿ ÛÜÜ!!ª!... (mg/dl)	1.25± 0.78
Ÿªª ü'Ü'' - £PüªÜ.ÜÜ (üµ Ω ÜF/< Üª Üª)	61 ± 10
Ÿªª ÜµÜÜ ŸŸŸ ÜÜÜ!! ÜŸ/ ü/ (%)	32.1%
Ÿ<''' -> < ..üŸªª ... (mg/dl)	163± 39
ñŸ (%)	74.5%
- µ (%)	24.1%
µ£ü<'ª'üÜ'Ü'Ü (%)	75.1%
Ÿªª !!'ü> Ü (%)	78.8%
Ÿªª ..ª/ !/ >'''ªªŸÜªª'''ªª (%)	22.5%
ŸÜªª'''ªªAF (%)	5.8%
ŸÜªª'''ªªPCI (%)	39.6%
ŸÜªª'''ªªŸŸŸ (%)	29.9%
Ÿªª€ ...üŸÜÜ!!..F (%)	87.0%
ñ‡‡ÜÜ> ÜÜÜ!!%ü...>2 (%)	26.0%

Δημογραφικά και Κλινικά Χαρακτηριστικά ασθενών με ιστορικό αγγειοπλαστικής με βάση την επανανοσηλεία για OEM ή νέα στεφανιογραφία

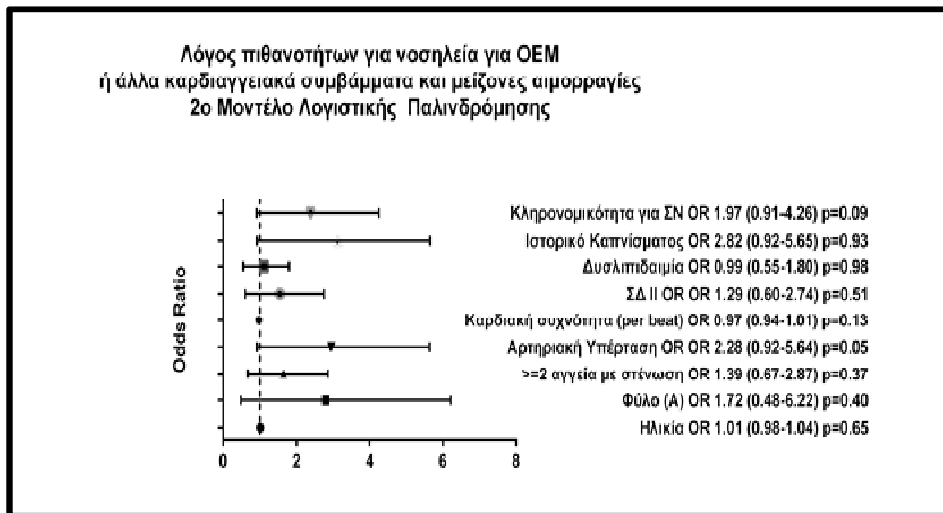
Παράγοντες Κινδύνου	Καταληκτικό Σημείο (+)	Καταληκτικό Σημείο (-)
Φύλο (Α)	~90%	~88%
ΑΠ	~80%	~72%
ΣΔ	~30%	~22%
Δυσλιπιδαιμία	~75%	~75%
Κάπνισμα	~82%	~78%
Κληρονομικότητα	~30%	~20%
Ιστορικό OEM	~35%	~28%
Ιστορικό PCI	~42%	~38%
Στένωση ≥ 2 αγγεία	~30%	~20%

Ý!Û'ÛF 3. w ð'úÛ"" ð Û'!!ñ TM ..ú... ð Û Û'!!Û%!! ð'Û Û ð'Û!!/ ú... Û Û'!!e !! > Û'!!%úÛ' úúúÛ!!'Û!! !!TM/ "Û' Û'ú' ð' ð'úÛ"" . ð ð'!!'!!/ ú... Û Û'ú' > ...%!!'Û.ú TM/ wöw " £ ð/ †/ < " úÛ!!' ð úúúÛ!!' ð' ð' Û'Û' ð' TM% ú£ ð' Û% Û' </ ð'ÛF "Û' úö ú%!!' ð' ÛÛF ú'ú'Û'ÛF.

	W !!Û </ 1				W !!Û </ 2			
Wúú'† < ..Û F >/ !!Û < %!!	b	OR	95% CI	P	b	OR	95% CI	P
† < ""'Û (úö ..ú...Û!! , 'Û F)	-0.02	0.98	0.96-1.00	0.15	-0.02	0.98	0.96-1.01	0.13
ú ö/	0.35	1.43	0.60-3.36	0.42	0.37	1.44	0.59-3.50	0.41
ñ ð'Û'Û (ö) > ÛúÛ !!%ú... "Û' Û!! , ð"... Û' Û!!'Û , Û%ú..F	0.57	1.71	0.98-2.98	0.05	0.52	1.67	0.96-2.93	0.06
ñ ð' Û'Û"" – ð' ð' Ûú...	0.63	1.88	1.00-3.53	0.05	0.56	1.74	0.91-3.34	0.07
Wk ..ñ/ !/ > ""TM'úÛ ð' ""TM- w	0.47	1.60	0.88-2.90	0.12	0.50	1.66	0.90-3.02	0.10
- Û' Pö ð' ð'..F ð'Û' "Û..F					0.46	1.59	0.89-2.84	0.12
µ£ú < ' ð' ð'Û' > 'Û					-0.01	0.99	0.55-1.80	0.98
ñÛ ð' ""TM""Û' !!'ú > ÛÛ F					0.01	1.01	0.51-1.97	0.99

- w: úúúÛ!!'Û!! !!TM/ F; OR: oddsratio; CI: TM'Û'Û' / ð'úÛF





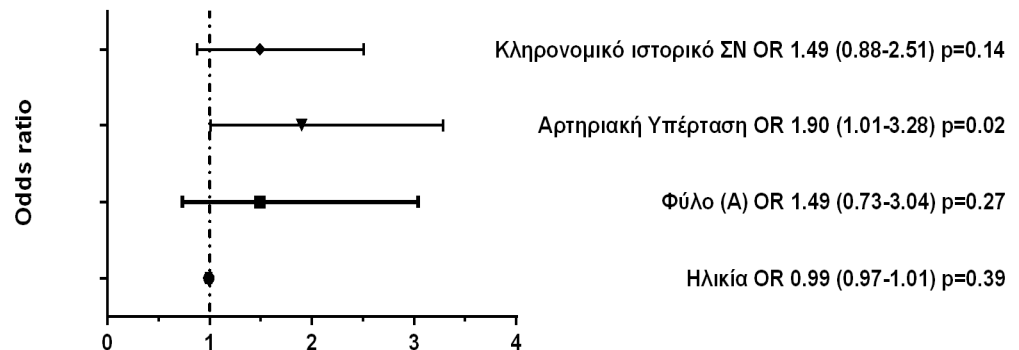
- Ρ> 0.2.

5.3 Θ& 0!!0!!/ 0... 00 0'0 TM 0F 0F 0'00F

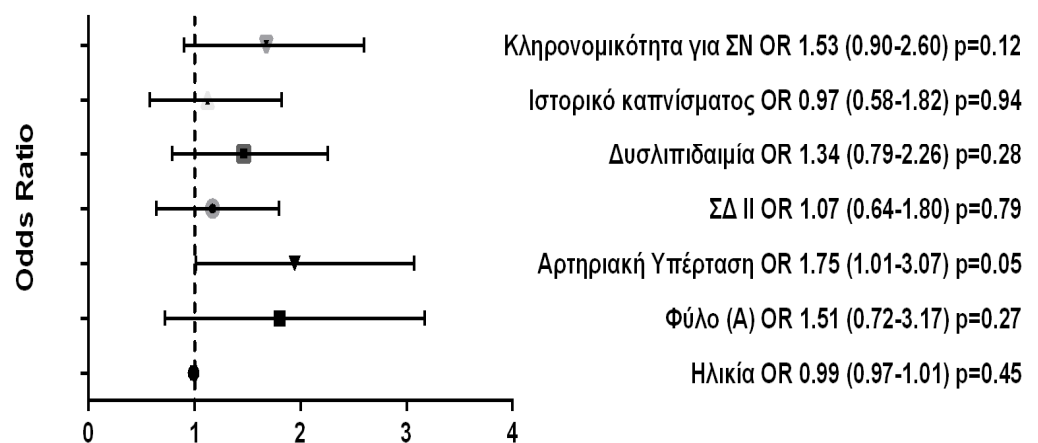
0 0 TM 0 EF 365 00 > 00 Ρ&!!00F, / ' 137 [(37.4%), 88,3% vs 87,3% , n n 000F, p=0.78] 0 0, !!00!! 0 0 '00!! 00!!00!! "000...0" TM 0...0 0 (0/ 0...00F 0'0 TM 0F 0F 0'00F: 0'0< 00...00- - " 0 0/ 0/ <" 0000000!!/ 0 n 00'0 00 00!!0 > 0'0F 0!00'0F " 0'0, <<0 "000'000'0", 00 > 0, >00 > 0'0!!0F 0'0/ n n 00'0F " , <<0F 0'00F). 00! 0 0 n Ρ&!! 000000", 0...0!!0' F 0'00/ n' F >000Ω00!! 00 / > , 00!! TM/ 00/ n , 0!! 0...0'0, 0 00/ , 0 '00 n TM 0'0 Ρ& e 0' EF 0'00" 0., 000<' 0'00' 00F, " 00!!0> 00 F, 0 " <..0/ 0/ > TM 0'0 n TM " 0 0/ 0/ 0'0 TM 00!! 0'0 00!! > 0 00!!e 00F 0/ 0 ' Ρ&•0!! 000!!0> , 00...F 0000 00000 00!! 00/ 0/ , 0!! , > 00 00000F 0/ 0 0/ 0...000..0!! 0'0", 000000" 0 00000F 0/ 0 00!!/ 0...000..0!!.

0'0 TM 0 000 , 0 0/ 0/ 0'0 TM 00!! 0'0 00!! > 0 '00 n TM 0- " 00!! 0...000'0", 00... TM 00/ 00!! / > , 00 00!! 0'0 00!! 0/ 0 0/ 0...000..0!! 0'0", 000000 0000Ρ&... > 0 000F 0/ 0 00!! 0/ 0...000..0!! (80,3% vs 70,7%, p=0.05). Θ& 0'0...F, 0 0 n Ρ& 0'00/ n , 0!! , > 00 00 0/ 0/ 0'0 TM 00!! 0'0 00!! 0/ 0 0'0' TM 0 0!! 0!!00>/ 0 000'0" 0 EF 0000 " 00 0!! 0 0'0 0'0 00 > 0, !!0 F (5.1% vs 1.3%, p=0.03). 00! 0 0 n Ρ&!! 00'0...F 0...000' F 0'00/ n' F >000Ω00!! 00 / > , 00!! , TM/ 00/ n , 0F 0' F - 0Y (126.10 ± 16 mmHg vs 125.26 ± 16 mmHg, p=0.41), 0F / < TM " F Ρ&<..00 TM...F (163 ± 35 mg/dl vs 163 ± 42 mg/dl, p=0.94), 0 EF (49.45 ± 8% vs 51.20 ± 9 %, p=0.10) " 0F "00'0" F 00Ρ& TM 00F (60 ± 8 00/< vs 62 ± 11 00/< , p=0.17).- 0 0.../ 0 n 00", " 0 "<!!", Ρ& 0'0 0 n 0'0", 00!! 0000!!e!! > 0 0, 0...

Λόγος πιθανοτήτων για νοσηλεία για όλες τις αιτίες
1ο Μοντέλο Λογιστικής Παλινδρόμησης



Λόγος πιθανοτήτων για νοσηλεία για όλες τις αιτίες
2ο Μοντέλο Λογιστικής Παλινδρόμησης



- Ρεζ, Ό 3.

- - ӨГ - Г - Г

[illegible][illegible]

W' Pts' u" > U' U', qn/ .f/ Ω U'U' > U' ' U'F [312-314] ' PksE!! u'U' U'!! " u' U'U' U'..
 u'EPsTMU.U'U' TMU/ " U' U' E F qn/ f!!%u'U' / Ω u'U' U'F U'.F %B..U'U'.U'U' > U'U' U'q TMwθW "
 u'E!!u'E u' > / Ω > U' / !!%!! U'!!U'q'Ω ..U'!! u'E > †U', U'!! u'E > q U' < U' †U' / > ' !/ E " U' U' E
 %B!! , U' E. = u'U'U' , ...U'q'U'U'...U'.F > U'U' U'U' U' > U'U' " F %B..U'U'.U'U' > U'E !!U'U' TM%F
 ' P's " u'... U'!!U'U'U' . - E!!U'q E F, / ' q U', f/ !!U'F q/ E qn/ u'U'U'U' E!! f'U'
 U'q U'!!U' / u'.<U'U' U'U'!!e !! > U'U' U'q TMwθW qn' q U' !!U' > U' U'.%Ω! q U' U'U'U' % " U'Ω F
 ..U'!! , f' ..f'U' U'q U'!!U' / u'.<U'U' U' , !!U' " U' U' " TMU F !/ u'.<U'U' U' < , " U' E q/ !/ > U'U'

၎/ န!!%၎ပျံး TM ၎ ပံ, န!!ပျံး ပျံးပံ ပံ!ပံးပျံး TM ပျံး ပံ.၎ ပံးပံး ပံး ပံး%၎/ ၎ ပျံး!
 ပံးပံးပံး! ပံးပံးပံး! > ပံး +, +... ၎/ ၎ ပံး "•ပံး ပံးပံးပံးပံးပံး.၎ ပံး ပံးပံးပံး! ပံး.၎ ပံး.
 - ' </ ၎, TM/ !! ပျံး, ပံး ပံးပံးပံး!! "ပံးပံး...ပျံး TM ပံး.၎ ပံး, ... ပံးပံး/ ၎" ပျံး
 ပံးပံးပံး/ ၎ ပံးပံးပံး" ၎ ပံးပံး" ၎ ပံး ပံးပံးပံးပံးပံး TM > ပံး ပျံး! ပံး- ' ပံးပံးပံး! TM ပံး "ပံး ...
 ပံးပံးပံးပံးပံးပံး ပံးပံးပံး ၎ ပံးပံးပံးပံး TM n TM/ ပံးပံး ပံးပံးပံးပံးပံး ပံး.၎ ပံးပံး "ပံး ပံးပံးပံးပံး ပံး
 ", %ပံးပံးပံး </ ပံးပံး

YŪh ”k ..€ ...

ပံ့/ န န ပံ့ (၆၈.၆% vs ၇၁.၁%, $p=0.05$). - ပံ့ န/ ပံ့ > / ပံ့ ' !/ < / န ပံ့ " TM/ !! ပံ့ < / န ပံ့ ပံ့ / , ပံ့ !!
 . < " " ပံ့ , ပံ့ !! " ပံ့ ပံ့ ပံ့ " ပံ့ ပံ့ !! ပံ့ ပံ့ ... ပံ့ !! ပံ့ ပံ့ !! ပံ့ ပံ့ ပံ့ ... ပံ့ -
 (OR=2.37, $p=0.05$) ပံ့ ပံ့ ပံ့ . ပံ့ ပံ့ ပံ့ , ပံ့ ပံ့ , ' ပံ့ TM ပံ့ န/ ပံ့ ပံ့ ပံ့
 န ပံ့ , န/ !! ပံ့ !! ပံ့ !/ ပံ့ . < ပံ့ < TM ပံ့ ပံ့ ပံ့ ပံ့ !! ပံ့ " ပံ့ ... ပံ့ / ပံ့ ပံ့ . ပံ့
 ပံ့ ပံ့ ! ပံ့ , !! ပံ့ ပံ့ ပံ့ ပံ့ !! ပံ့ [(37.4%), 88.3% vs 87.3% , န ပံ့ !, $p=0.78$]
 ပံ့ ပံ့ , !! ပံ့ ! ပံ့ ပံ့ ပံ့ !! ပံ့ " ပံ့ ... ပံ့ TM ပံ့ . < ပံ့ (!/ ပံ့ . < ပံ့ န ပံ့ TM ပံ့ ပံ့ ပံ့
 ပံ့ ပံ့ < ပံ့ ... ပံ့ - - " ပံ့ / < " ပံ့ ပံ့ ပံ့ !/ န ပံ့ ပံ့ ပံ့ > ပံ့ ပံ့ ပံ့ ပံ့ " န ပံ့
 , < < ပံ့ " ပံ့ ပံ့ ပံ့ , ပံ့ + , > ပံ့ " > ပံ့ / !! ပံ့ ပံ့ / န န ပံ့ " , < < ပံ့ ပံ့ . ပံ့ AY
 [OR=1.90 (95% CI:1.01-3.28), $p=0.02$] " ပံ့ ... ပံ့ / န " ပံ့ ပံ့ / န ပံ့ ပံ့ " ပံ့
 ပံ့ ပံ့ [OR=4.41 (95% CI:1.09-17.93), $p=0.03$] " ပံ့ ပံ့ န ပံ့ ပံ့ ပံ့
 ပံ့ + , > ပံ့ ပံ့ ပံ့ / ပံ့ . ပံ့ ! ပံ့ !, န ပံ့ ' န/ ပံ့ ပံ့ / " န ပံ့ , န/ !! ပံ့ > ပံ့
 န/ ပံ့ > / န " န ပံ့ ပံ့ / ပံ့ ပံ့ , န/ !! ပံ့ TM ပံ့ ... < " " ပံ့ ပံ့ ပံ့ / .
 - ပံ့ န , ပံ့ ပံ့ : ပံ့ ပံ့ . န ပံ့ " ပံ့ ... ပံ့ / ပံ့ ပံ့ ' !! ပံ့ ! န/ < ပံ့ ပံ့ ! ပံ့ TM
 န/ ပံ့ ပံ့ TM န ပံ့ , န/ !! ပံ့ ပံ့ ပံ့ ပံ့ ! ပံ့ , !! ပံ့ ... !/ ပံ့ - - > ပံ့ " ပံ့ ပံ့ !, န ... န ပံ့
 ပံ့ ပံ့ ပံ့ ... + , ပံ့ ပံ့ ပံ့ ပံ့ ! ပံ့ န ပံ့ ပံ့ ! ပံ့ , !! ပံ့ ... , < < ပံ့ " ပံ့ ပံ့ ပံ့ / ပံ့
 ပံ့ + , > ပံ့ ပံ့ " > ပံ့ / !/ ပံ့ ပံ့ / န န ပံ့

RISK FACTORS FOR REHOSPITALIZATION IN PATIENTS WITH CORONARY DISEASE AFTER CORONARY ANGIOPLASTY

Abstract

Introduction: Many risk factors are responsible for the onset of atherosclerosis, both modifiable and non-modifiable. Symptomatic coronary artery disease needs revascularization to reduce the complications due to it. However, re-hospitalizations for acute coronary syndromes (ACS) or re-revascularization following acute myocardial infarction (CML) are very common. The aim of the present study is to highlight the effect of the aforementioned risk factors on a large number of coronary patients undergoing angioplasty and to indicate the extent to which each of them contributes to the appearance of restenosis following angioplasty.

Method: The study will introduce 300 coronary artery patients who underwent coronary angioplasty in the Hippocraton Hospital of Athens aged 25 to 85 years. A record of age and other demographic characteristics, smoking habits (Fagerstrom scale), Med Diet Score, physical activity (IPAQ) as well as the rate of arterial hypertension, dyslipidemia, diabetes mellitus, obesity, sex, positive family history. In addition, the extent of coronary heart disease assessed. Patients after they left the hospital were prospectively monitored for 22 up to 37 months, and by telephone communication, any cardiovascular and non-cardiovascular events (including death) and resuscitation were recorded.

Results: A total of 365 patients with a recent angioplasty, either in acute coronary syndrome (ACS) or coronary angioplasty according to the indications, participated in the study, who were followed on an average 29,5 (22-37) months. One hundred and two patients (27.9%) (89% males) were rehospitalized for non-lethal ACS or re-coronary due to symptomatology or indications (primary endpoint) who had a higher percentage of positive hereditary history of CAD (29.4% vs 19.8%, $p = 0.05$). In an adjusted gender, age, and inheritance history model, HTN (1.88, $p = 0.05$) and the presence of reperfusion stenosis in more than 2 vessels (1.71, $p = 0.05$) were independent prognostic factors for reshaping. One hundred and twenty-eight patients (35%) experienced the secondary endpoint (new

hospitalization due to ACS manifestation or new coronary angioplasty or other cardiovascular events (arrhythmias, pacemaker or defibrillator implantation, peripheral vascular disease, dehydration of heart failure) or hospitalization for major (81.1% vs. 71.1%, $p = 0.05$). In an adapted accounting model for gender, age, heart rate, and $\geq$ vessel stenosis, HTN (OR = 2.37, $p = 0.05$) was shown to be a strong, independent predictor of new hospitalization due to the secondary endpoint. One hundred and thirty-seven patients [37.4%], 88.3% vs 87.3% males, $p = 0.78$) displayed the tertiary composite endpoint (hospitalizations for all causes: ACS manifestation or coronary angiography according to indications or for other cardiovascular events or major bleeding or other causes). HTN [OR = 1.90 (95% CI: 1.01-3.28), $p = 0.02$] and discontinuation of antiplatelet therapy [OR = 4.41 (95% CI: 1.09-17.93) independent prognostic factors with adaptation for confounding factors such as age and gender.

Conclusions: Arterial hypertension is a very important prognostic factor either for the emergence of a new ACS with or without the need for revascularization based on evidence or for the occurrence of another cardiovascular event or major bleeding.

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TEST
ΕΚΤΙΜΗΣΗΣ ΒΑΘΜΟΥ ΕΞΑΡΤΗΣΗΣ ΑΠΟ ΤΟ ΚΑΠΝΙΣΜΑ
(κλίμακα Fagerstrom)

1 Πόσα τσιγάρα, αφού ξυπνήσετε, καπνίζετε το πρώτο σας τσιγάρο

Μέσα στα πρώτα 5 λεπτά	3 πόντοι
6-30 λεπτά	2 πόντοι
31-60 λεπτά	1 πόντος
Μετά τα 60 λεπτά	0 πόντοι

2 Είναι δύσκολο να μην καπνίσετε σε μέρη όπου το κάπνισμα απαγορεύεται

ΝΑΙ	1 πόντος
ΟΧΙ	0 πόντοι

3 Ποιο τσιγάρο σας είναι πιο δύσκολο να μην το καπνίσετε

Το πρώτο της ημέρας	1 πόντος
Οποιοδήποτε άλλο	0 πόντοι

4 Πόσα τσιγάρα καπνίζετε την ημέρα

10 ή λιγότερα	0 πόντοι
11 μέχρι 20	1 πόντος
21-30	2 πόντος
31 ή περισσότερα	3 πόντοι

5 Καπνίζετε πιο πολύ το πρωί απ' το απόγευμα

ΝΑΙ	1 πόντος
ΟΧΙ	0 πόντοι

6 Καπνίζετε ακόμη και όταν μια ασθένεια σας αναγκάζει να μείνετε στο κρεβάτι

ΝΑΙ	1 πόντος
ΟΧΙ	0 πόντοι

ΑΠΟΤΕΛΕΣΜΑΤΑ

Πολύ εξαρτημένος	7-10 πόντοι
Μέτρια εξαρτημένος	4-6 πόντοι
Λίγο εξαρτημένος	0-3 πόντοι

