



## Methods

T is [gUdfcg]Wij YcVgfj UjcbU ghi XnWbXi WX]b 7]lm: cgd]Hž 6]fa ]b[\La žcj Y' U lkc!mUf' dY]cX" 5"" dU]V]dUblg k YfY fW] ]hX Zca ' hY ci h dU]Yblg XdUfa YbH' DU]Yblg k \c \UX dYg]bhX k ]h VYU]idUj \UXUZ "" \]gcfm]Xfi [ '\]gcfm]UbXWb]W' Y] U] ]bU]cb" -a U ]b[ ' UbX ch Yf' Wb]W' ]bj Yg] [ U]cbg k YfY dYfZfa YX' h' Y] W XY ch Yf' dch]b]U W] g]g'cZfYU]idUj "DU]Yblg k \c dYg]bhX k ]h Wgh kU" dU]bž fYZffYX g'ci 'Xf' dU]b' cf' Xyfa Ue' c] ]W' WbX]hcbg k YfY Y] W XY "DU]Yblg c] Yf % mUfg'c Xžk ]h 'Ub' Yg]U]g YX X]U bcdg'cZ bcb! W]W] VYU]idUj 'k YfY UdfcUW Xž dfc] ]XX' ]bZfa U]cb 'UbX Wb]bhX ]b Wb]WbXUVccXh]g]h' ]bj Yg] [ U]j ]h] ]b 8 "Y Yg'k U]g dYfZfa YX" T e' Whi of 'gYWX Zf' def ning' def ciency' k U]g U]gfi a 'Y Y' cZ] ]h] ]b 8 & fC < EO) S'ba c'#@'T ough' g'fi a ' & !C < j ]h] ]b 8 "Y Yg'cZ & 'ba c'#@]g\_bck b' h' VYU]g' W]hX k ]h' signif cant Vcbm X]g]Yg' W U]g' h'ca U]U]U]bXf] W]g]z] ]h] ]b 8 'insuf ciency' k ]h' g'fi a ' Y Yg' cZ O) S' ba c'#@]g' U]g' U]g' W]hX k ]h' signif cant a cfV]X]m]bW X]b[ 'X]U]Y]g' W]X]c] U]W' Uf' X]g]U]g'z] U]f]ci g' WbW]g

: fca 'hY(\*'dUfYblg'k\c'fWj YXj JHã ]b'8ž&'dUfYblg'f] % L dUfYblg' Y dYf]YbWX' gcbHbYci g' fYg'i ]cb' cf' ]a dfcj Yã Ybh cZ  
Y dYf]YbWX Wã d'Yf' cf' bYf' Wã d'Yf' fYã ]g]cb' cZ U' ga dca g ga dca g'UbX%' fYdcfHbc' WUb[Y]b' ga dca UjWfY]YZ' Cj YfU'ž  
Z`ck]b| h YfUã%&dUfYblg'f&1 EbchXUdUj'gWfYcZO) Z`ck]b| ++1 `cZdUfYblg'Y dYf]YbWX ga dca UjWã dfcj Yã Ybh cZ h Yf' bcb!  
h YfUã%&dUfYblg'f&1 EbchXfYg]X U'dUj'gWfY2) Xg]h'h YfUãh WWW' WfYg]dUj'  
CZhY% 'dUfYblg'k\c\UXbchfWj YXj JHã ]b'8'g dd'Yã Ybh]cbž'

JhUa]b'8'gidd'YaYbiU]cb'fb1 (\*L

d

	= a d f c j Y a Y b h	B c ] a d f c j Y a Y b h	
Vitamin D dose (per day)	n=35	n=11	
400 iu	11	6	
800 iu	14	2	
>800 iu	6	2	
Unknown	4	1	
mean (iu / day)	2438	2400	p=0.957
Cumulative dose (iu)	11361	6480	
Duration of treatment (months)	4.66 (0.1-12)		



&" 6]b\_`YmBzFLa Ua i fhmFz?fi Y`Y' 8` fR\$%L: @ck`j ]Hã ]b`8` g]Uhg  
Definition: d'fy UYbWzWbgYei YbWzUbXWffYMc"9bXcW]bc`A YUV  
7]bBcfh`5a`'-.&+!'S%"  
&" ; U'UbX 7: z; cf\Uã`98zAc\`f`Gz; U'UbX: 7` fR\$S- E.J]Hã ]b`8` Zf  
WbWf`d'fy Yb]cb; `cVU`dYfg]W]Y'5bb9d]Xã ]c`%.(\*,!(, '"  
&" D]`n`G`A`Ä`n`K`z`K`Y`b]n]6z`GY`cf]h]I`z: U`f`Y]b]Y]D]ã`a`Y`5z`Y]i`U`  
fR\$S`E5gg`V]H]cb`cZ] ]Hã ]b`8` def`ciency`k ]h` \`Y]f]h]Z]i`fY`UbX`g`XXb  
WFX]UWX]Uã` ]b`U`U`f`Y`W`c`g`g`Y]cb`U`g`h`X`nc`Z`d`U`h]Y]b]g`fY`Z`f`Y`X`Z`f  
W`f`c`b`f`m`U`b] ]c[ f`U`d`n]b>7` ]b`9b`X`c`W]bc`A`YUV`-'`-`&+!'`-'`)"  
&" 8cVb][`<`z`D]`n`G`W]U`f]U` ``<`z`F`Y`b`b`Y`K`z`G`Y`cf]h]I`z`Y]i`U`" fR\$S`L  
`b`X`d`Y`b`X`b`h]U`g`V]H]cb`cZ`ck`g`f]i`a``&`!\`n`d`f`c`l`n] ]Hã ]b`8` `UbX`%z`&`!  
X]`n`d`f`c`l`n] ]Hã ]b`8` `Y`g`k` ]h` `U`!`W]`g`Y`UbX`W`F`X]c]`U`g`W`U`f`a`c`f]U]h`h`  
5`f`W]j`cZ`b`h`A`Y`X]`%`..`%`(`S`%`(-`"  
'S" JUb]bhG>fR\$S`E.J]Hã ]b`8` `UbX`Uã`h`v`c`b`Y`U`U`h` ]b`5i`g`f]U]U`b`X`B`Y`k`  
N]U`U`b`X`5`d`c`g`h]c`b`g`U`H`ã`Y`b`h`A`Y`X>5i`g`f`%`&`&`%`&`)"  
'%` 9b]Y`g`b`C`z`6`f]i`g`H`X`A`z`5`\_`g`Y`g`@`@`b`X`9` fR\$S`E`8`U]m`X]f`U]cb`c`Z`  
j` ]Hã ]b`8` `g`h`h`Y`g`g]b`^`i`a`U`g`\_`b`k` ]h` fY`U]cb`l`c` `U]h]X`Z]h`c`U`c`r`c`b`Z`  
U]h]X`Z`[`f`c]`b`X`W]j`Y`Z`U`f`c`g`g` `UbX`W`e]i`X`h` ]W`b`Y`g`g` `D`ã`c`h`W`ã` ]`UbX`  
D`ã`c`h`V]c`;%`%`&`+`%`&`S`"  
'&` <c`]W`A`