

M $\mathbb{B} = LB$

$\mathbb{B} = LB$

I 'C L 'M A A L

H L !H %@ %< "%

% ' ?

!)'. - %'*/ %', / % - ') "

)%*% % , ? M $\mathbb{B} = LBM$

=AK- !M B %G

< %NL: " - - ! 6 -) %

'))1 "' :)'. - %'*/ %', / % - ')

.) - * , 0' %! - '*%) / '- % - , - / I %

' : /

P = M ' L

M !O-OLM' O -O L % &

L % !? '*"'

F %

$\mathbb{B} = LB$

'M

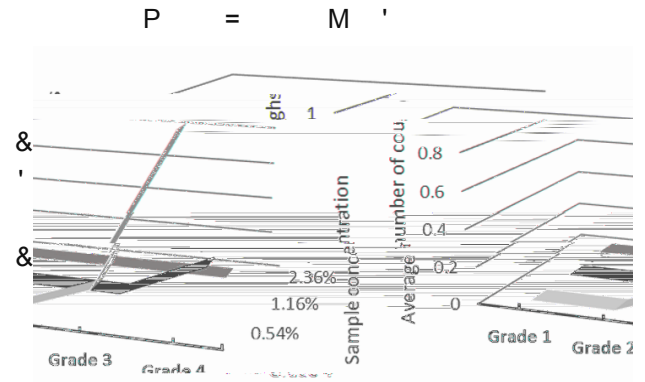
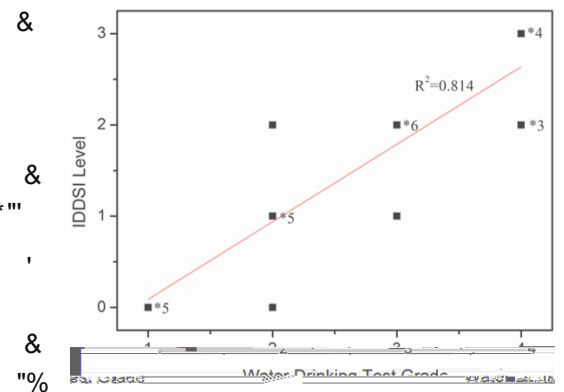


Fig 1: Coughing number when swallowing 20ml samples for patients at different grades as assessed by the Water Drinking Test.



= 'K N E %ND% =)*/

= 'I Q % F : N !G S "% F *0 &

= 'A @ N = %ND% N N %M G " &

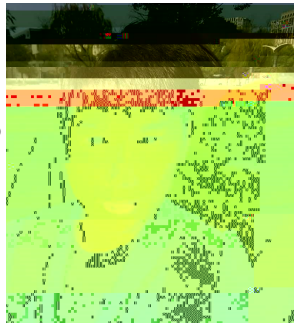
= 'L I J N !: " : *0 *1 'L

= '< K '<



F % @ S I L % ' ?
C * %) * 0 ' A L
H I A % ' M L
< ' A E S @ N I ' C &
, %

F % ? H I K @ = &
%) * / ' A ? L G ! " N < LBN %
F % I = ? N I F ' A M
N F = B < L ' G
? : ! < " < ' E ' A



? H I &
? ' A
I = < I
J ' A I =
S @ N
' A
&
&

D % B %
L N
D ' A FL
' A I =
? L ! L N % M " I &
! N L F % F " L %
F N ' A ? H I

N
FL ? M : N ' A
I = L ! ? L
" < L B K - < ? M &
K B ! B " A &
B B I M % B I = '
A K :) * - () * .
S C @ N N E



' M
J I &
C ' &
K N

' M
' A
: %
K N



I
G A % L C
A R =
= 0 %)*/% &
= ' K
N E ND
,
M
' M &
3 &
% &
,
: = L B = &
< %
A D %F M
%I ' <
' M &
| ' <
' M
< ' | ' &
,

M ?HI

N G 'B %

