

**Table S1. Evaluation of individual cut-offs as predicted from the equation  $Y=Y_0-0.16x$  (derived from the averaged decline rate obtained from smokers with normal lung function, group 2).**

<b>Cut-off: <math>Y=Y_0-0.159x+ 1</math> S.D.</b>	
<b>Measurements classified using individualized cut-off (0-9hrs):</b>	
<b>True Negatives (TN; correctly classified using the equation)</b>	58
<b>False Positives (FP; miss-classified using the equation)</b>	3
<b>≤ 7 hrs measurements tested against individualized cut-off (value at 8 hrs):</b>	
<b>True Positives (TP)</b>	60
<b>False Negatives (FN)</b>	1
<b>Sensitivity (TP/(TP+FN))</b>	98%
<b>Specificity (TN/(TN+FP))</b>	95%

$Y_0$  for each individual was estimated by extrapolating the individual decay curve back to time 0. The derived equation plus one standard deviation was then used as cut-off.