**R scripts for WKNEPS, 2018.**

Carlos Mesquita has kindly created a script (script\_Linn\_CCC.R) to convert the reference set data stored in the template previously emailed to all attending, into a format that Lin’s CCC can be applied to, creating nine output plots with the CCC value displayed. The bundle of scripts is self-contained, so by copying the folder ‘Convert and Lin scripts’ from the WKNEPS sharepoint under the Software folder, all the calculations and results will be contained within the files and folders within this master folder.

To run the scripts there are some requirements and guidelines:

* You must have the packages ‘lattice’ and ‘openxlsx’ installed in your R library
* The template must have the same reviewer’s initials at the top of both ‘pages’ i.e.

cells H-I 70

* The counts must start against the minute ‘2’ and end at minute ‘8’ in each table i.e. D 7, 21, 33 etc., and for the second count I 7, 21, 33, etc.
* You can anonymise the results by removing the initials from the template, which will result in ‘NA’ appearing on the plots
* The sections highlighted in bold red below in the copy of Linn\_script\_CCC.R show the only edits required to any of the folders/scripts. These edits are:

- the name of the working directory in the second section,

- the template name in fourth section of the script (where you have your raw data)

- the last command in the last line to reflect the FU you are working on (which

should match the FU number contained in the template).

* If you rerun the scripts ensure the test.csv and result output in .pdf files are closed, including any results that may have opened in Edge
* If required the name of the output file can be changed in the script from ‘test’ to whatever you wish

A Weetman

26 Sept 2018

**Script\_Linn\_CCC.R**

#Libraries

library(lattice)

library(openxlsx)

#Set up directories

wdir<- "**N:/ADE/WGNEPS/2018 WKNEPS Aberdeen/Convert and Lin scripts/"**

input.dir<- paste0(wdir,"input/")

output.dir<- paste0(wdir,"output/")

#Load functions

source(paste0(wdir,"functions/ccc.r"))

source(paste0(wdir,"functions/required.funcs.r"))

source(paste0(wdir,"functions/lin.ccc.compare.r"))

source(paste0(wdir,"functions/template.format.converter.R"))

#Convert template to format used by Lin CCC function

template.name<- "**ReferenceCount\_Datasheet\_WKNEPS\_2018 NM AW.xlsx**"

converted.output.name<- "test"

template.format.converter(input.path=paste0(input.dir,template.name), output.dir=output.dir, output.name=converted.output.name)

#Run Lin CCC

lin.ccc.compare(wk.dir = output.dir, counts= paste0(output.dir,converted.output.name,".csv"), FU = "**11**")