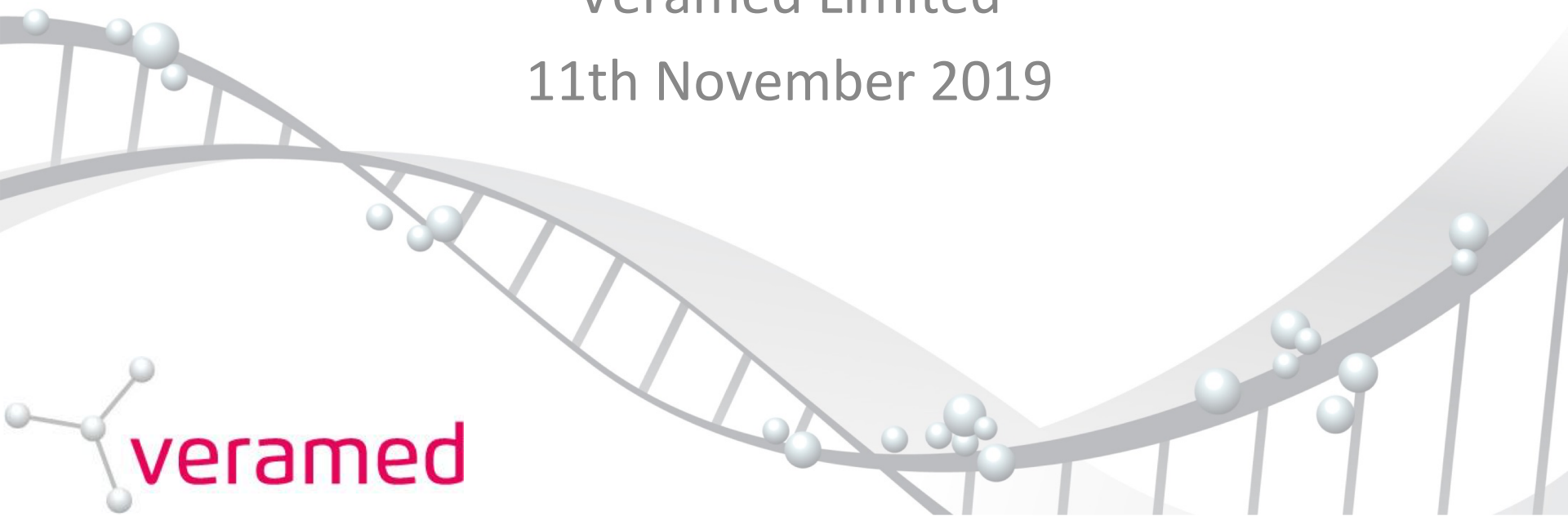


Don't cha wish your tracker was clean like mine?

Anisa Jeetoo

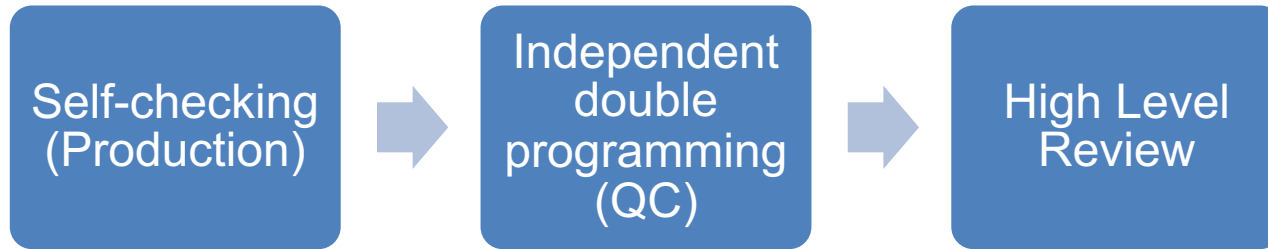
Veramed Limited

11th November 2019

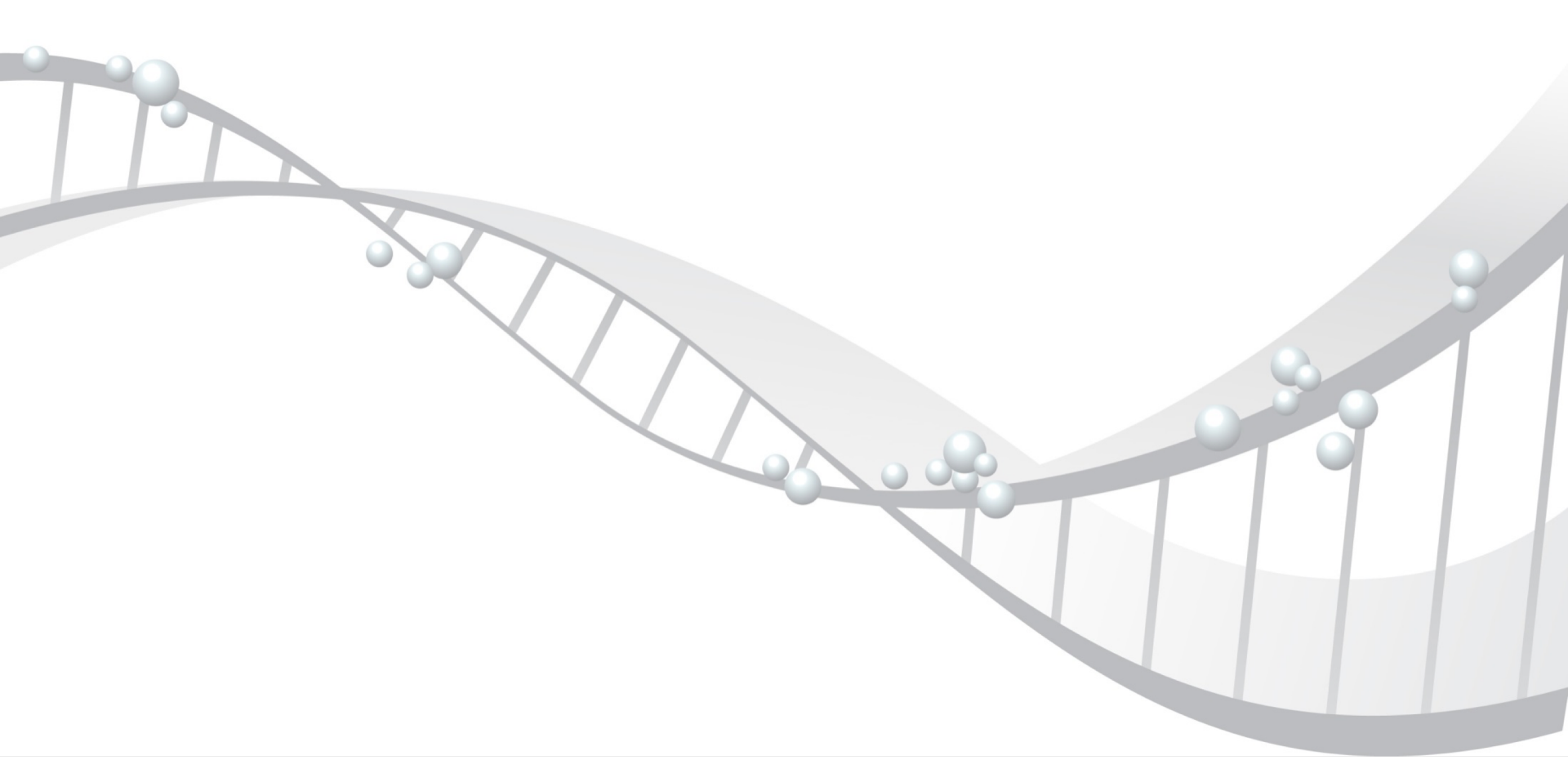


What is a QC tracker?

- Document the QC process



- Can include:
 - QC comment history
 - Run dates and QC pass dates
 - General information about a dataset/output (e.g title, output number)
- Entries are recorded by the study team rather than being automated - Lots of room for error!



Types of Errors

Human errors

Typos

Run dates written
incorrectly

Display Name	Display Number	Production Programmer	Program Name	Production Date	QC Comment History	QC Programmer	QC Program Name	QC Status	QC Date
Summary of Demographic Characteristics	1.0	AB	demog.sas	06-Jan-19	No comment.	BC	qc_demog.sas	Pass	09-Jan-18
Summary of Adverse Events	2.0	AB	ae.sas	14-Jan-19	Update footnote.	BC	qc_ae.sas	Fail	20-Jan-19

Some of these issues are difficult to identify without manually investigating each output/dataset

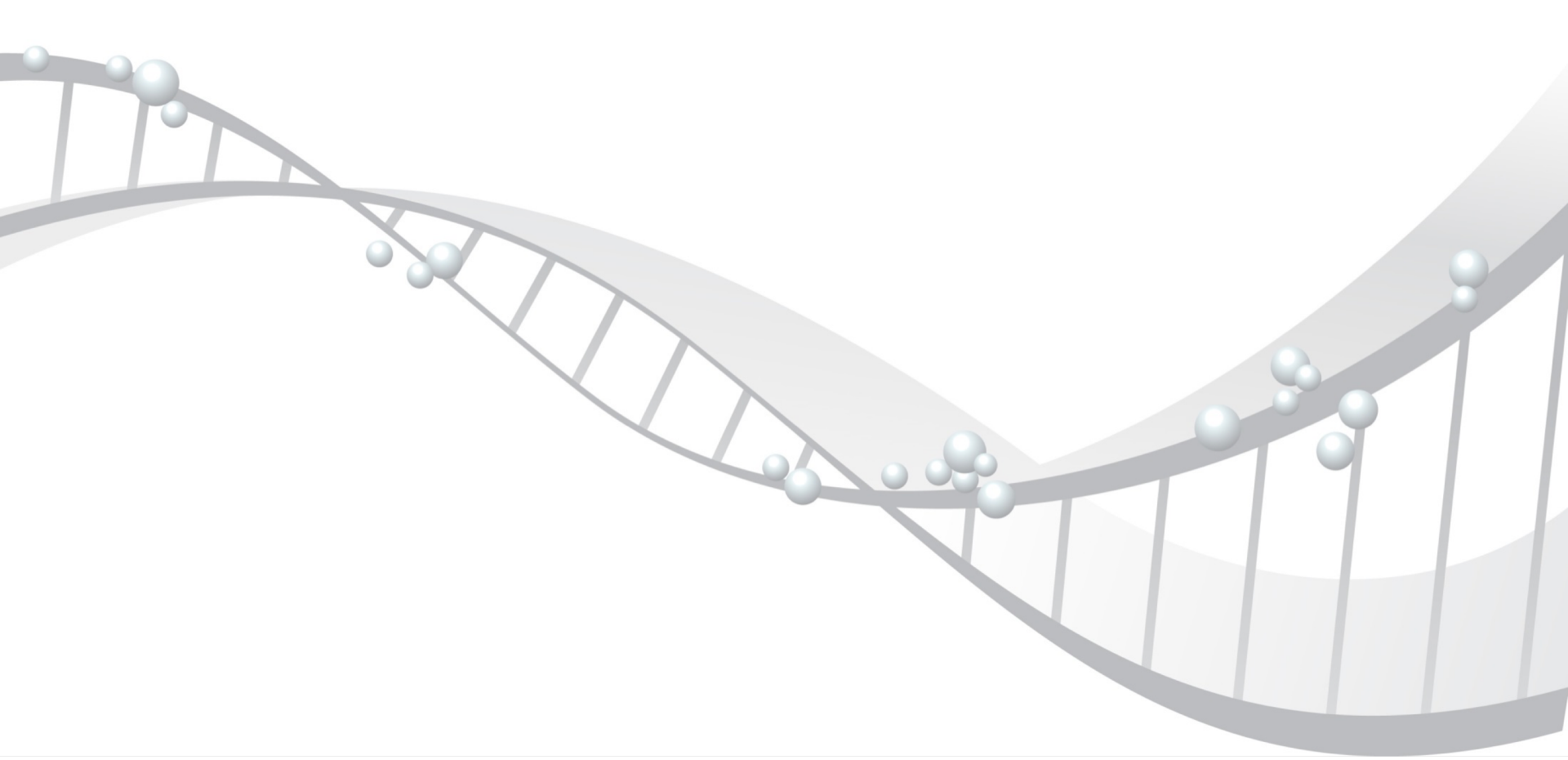
QC process errors Dataset run before ADSL

Dataset Name	Production Programmer	Program Name	Production Date	QC Comment History	QC Programmer	QC Program Name	QC Status	QC Date
ADSL	AB	adsl.sas	03-Jan-19	No comment.	BC	qc_adsl.sas	Pass	05-Jan-19
ADDV	AB	addv.sas	13-Jan-19	No comment.	BC	qc_addv.sas	Pass	20-Jan-19
ADAE	AB	adae.sas	02-Jan-19	No comment.	BC	qc_adae.sas	Pass	04-Jan-19
ADVS	AB	adv.sas	14-Jan-19	No comment.	BC	qc_adv.sas	Pass	16-Jan-19

Output run before dataset

QC run date before Production

Display Name	Display Number	Production Programmer	Program Name	Production Date	QC Comment History	QC Programmer	QC Program Name	QC Status	QC Date
Summary of Important Protocol Deviations	3.0	AB	dv.sas	14-Jan-19	No comment.	BC	qc_dv.sas	Pass	11-Jan-19
Summary of Vital Signs	4.0	AB	vs.sas	13-Jan-19	No comment.	BC	qc_vs.sas	Pass	20-Jan-19



QC tracker checker tool

What is the tool?

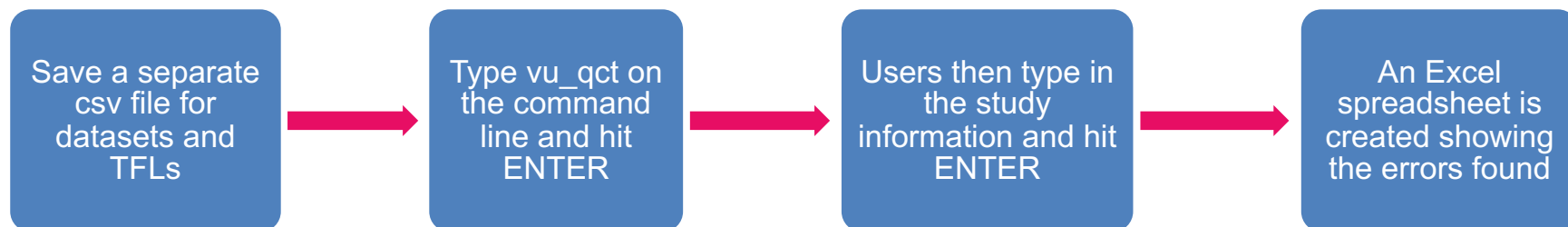
SAS program wrapped in a BASH shell script

- Easier and quicker to run
- No need to manually update code for each run
- QC log files and production output files are used
- Remembers the last place it was run in

Produces a Microsoft Excel Spreadsheet

- Detailing the errors
- Summary tables to track study progress
- Useful when there are lots of outputs/datasets

How do you use it?



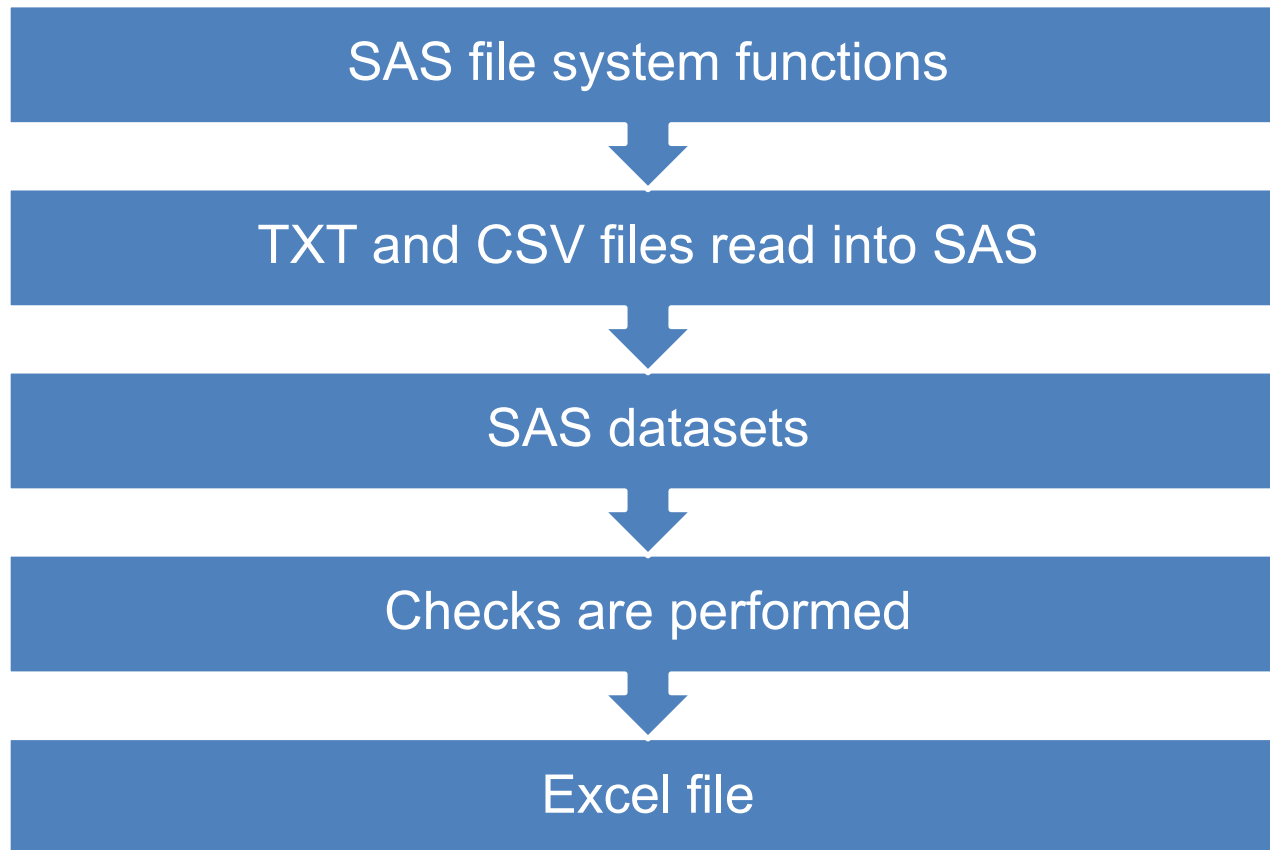
```
{999:1} 10:34:44 ~
$ vu_qct
#=====
# veramed qctracker checker tool
#
# Version 1.0 (01MAR2019)
#
# For help see:
#
# https://docs.google.com/document/d/1c0tu9oquR4xydzM7qpZNtAhKGbDQmyC6i07IeXkX3Y8
#=====

The Veramed QC Tracker Tool requires copies of the datasets and data display
sheets of the QC tracker to be saved as CSV files in the QC folder as
'tracker_datadisplay.csv' and 'tracker_dataset.csv'. See help in Google Docs for
more information.

If these are not saved, press Ctrl-C to exit.

Otherwise hit enter to continue..._
```

How are the checks performed?



Final output - findings

Dataset Name	Program Name	Prod Actual Datetime	Prod Date in Tracker	QC Actual Datetime	QC Date in Tracker	Differences Found:
ADSL	adsl.sas	03JAN19:09:41:40	03-Jan-19	05JAN19:10:17:14	05-Jan-19	
ADDV	addv.sas	13JAN19:09:41:44	13-Jan-19	20JAN19:15:36:48	20-Jan-19	
ADAE	adae.sas	02JAN19:09:41:46	02-Jan-19	04JAN19:08:51:10	04-Jan-19	adae.sas was run on 02JAN19:09:41:46 which is before the rundate of ADSL
ADVS	adv.sas	14JAN19:09:41:48	14-Jan-19	16JAN19:15:11:59	16-Jan-19	

Display Type	Display Number	Display Title	Program Name	Prod Actual Datetime	Prod Date in Tracker	QC Actual Datetime	QC Date in Tracker	Differences found:
Table	1.0	Summary of Demographic Characteristics	demog.sas	06JAN19:13:38:01	06-Jan-19	09JAN19:15:31:03	09-Jan-18	QC date in the tracker for program qc_demog.sas is 09JAN2018, but this program was run on 09JAN2019.
Table	2.0	Summary of Adverse Events	ae.sas	14JAN19:16:43:11	14-Jan-19	20JAN19:16:14:46	20-Jan-19	Production program name in the tracker is "ae.sas" but the actual name of the program is different, please update the tracker.
Table	3.0	Summary of Important Protocol Deviations	dv.sas	14JAN19:13:38:13	14-Jan-19	11JAN19:15:10:57	11-Jan-19	Program dv.sas was run on 14JAN19:13:38:13 which has a later date than the QC program qc_dv which was run on 11JAN19:15:10:57.
Table Listing	4.0	Summary of Vital Signs	vs.sas	13JAN19:13:38:23	13-Jan-19	20JAN19:16:41:54	20-Jan-19	vs.sas was run on 13JAN19:13:38:23, which is before the rundate of ADVS(14JAN19:09:41:48).
	5.0	Listing of Adverse Events						

Summary

- QC tracker tool allows us to quickly check for errors in the program names and dates
- Provides summaries so we can easily track study progress



Questions?