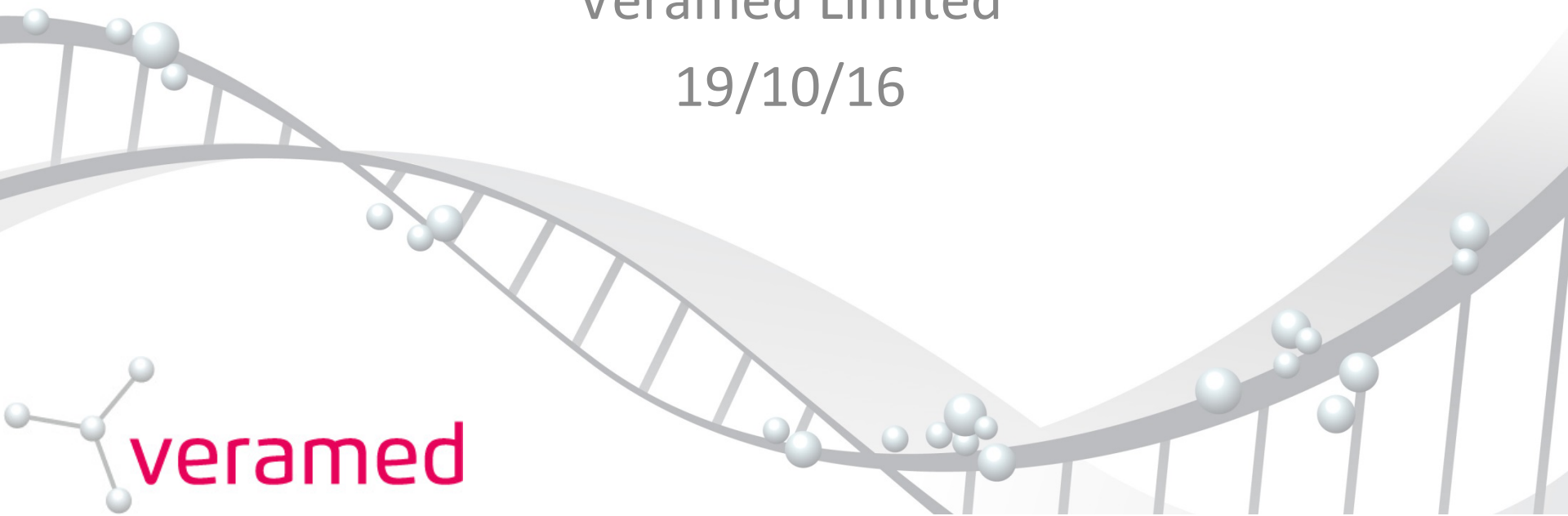


Colour me useful

Roberto de Gois

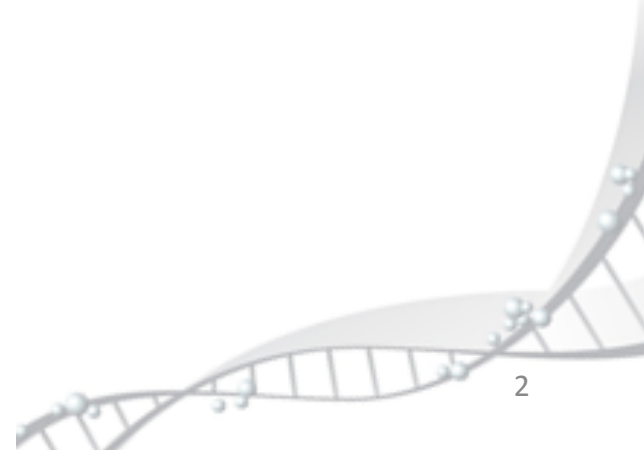
Veramed Limited

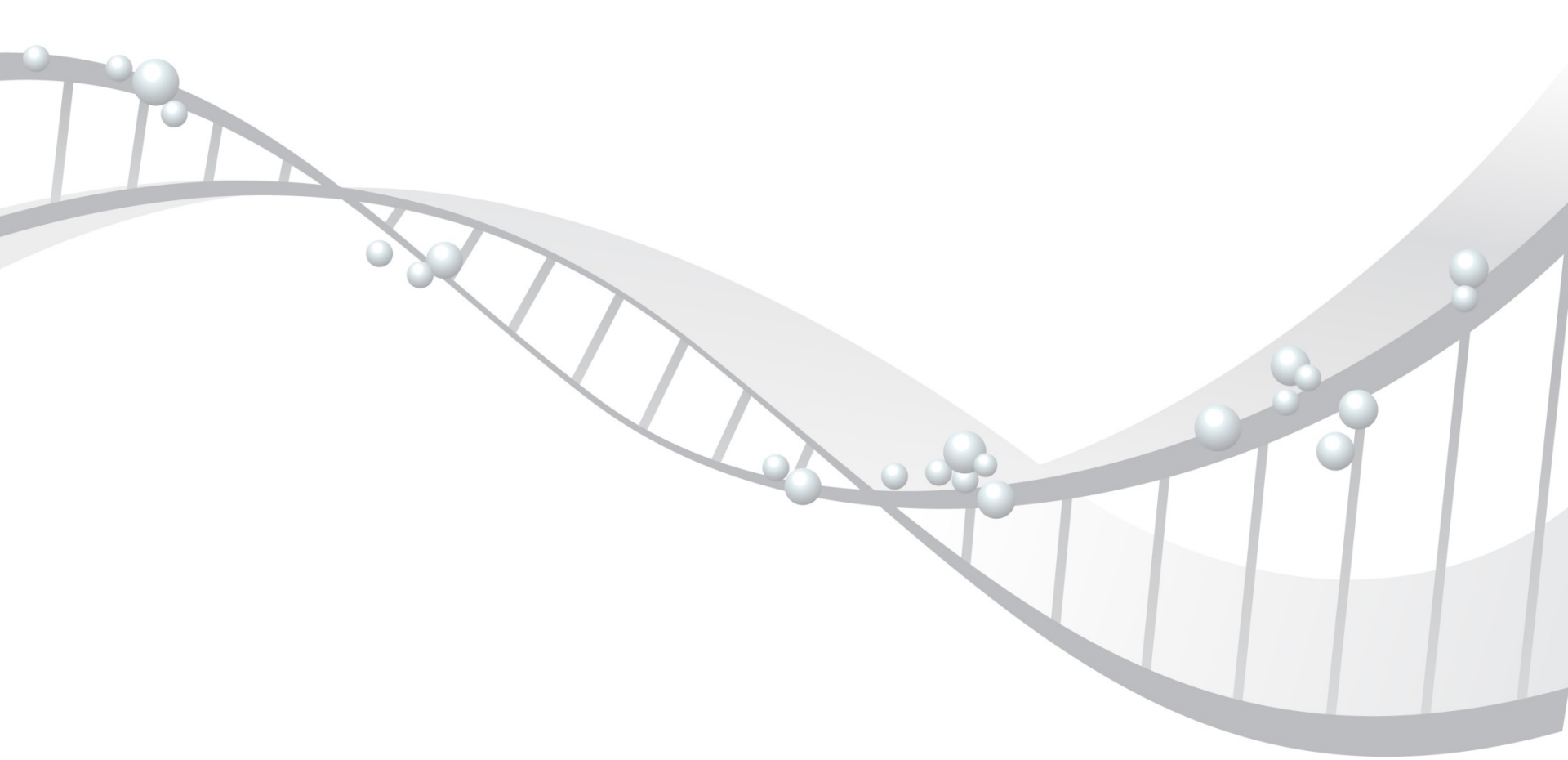
19/10/16



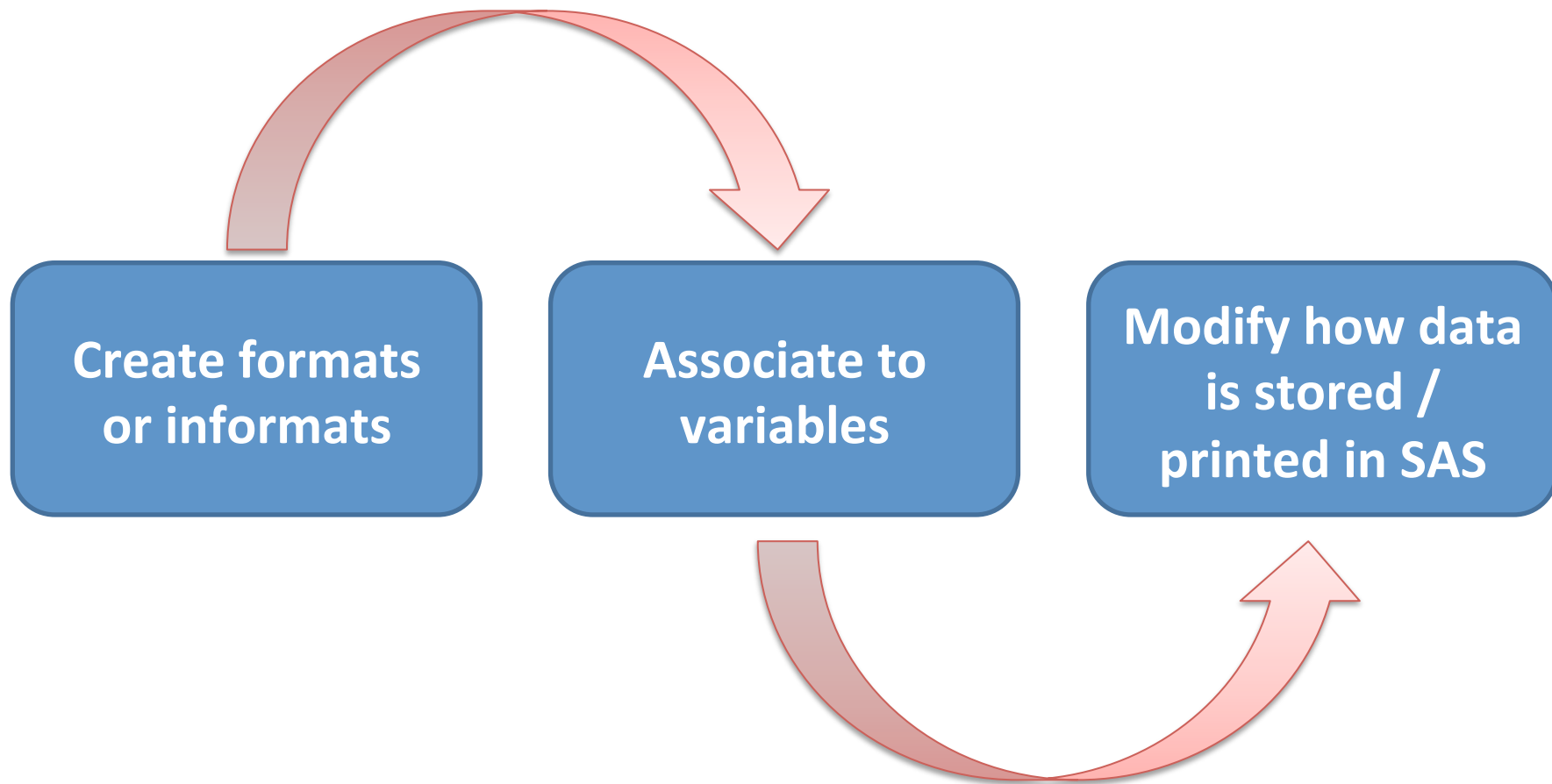
Agenda

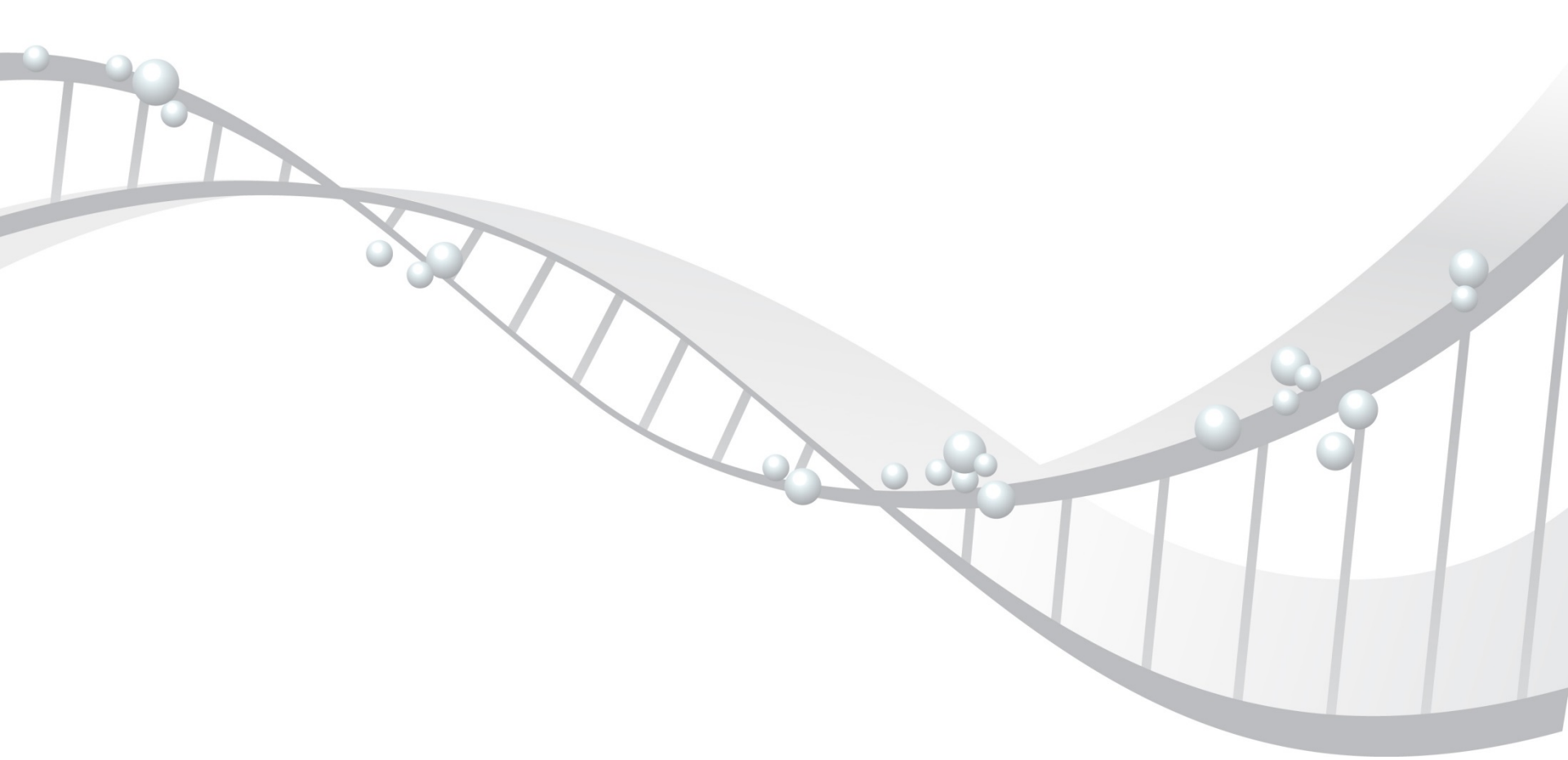
- What is Proc Format
- Colouring with a Format
- How it works
- Why use colour
- Conclusion





WHAT IS PROC FORMAT





COLOURING WITH A FORMAT



VIEWTABLE: Work.Test2

	subjid	stdate	enddate	days
1	1	2013-05-01	2014-05-01	 365
2	2	2013-05-02	2014-05-01	 364
3	3	2013-05-13	2014-03-01	 292
4	4	2013-05-10	2014-05-01	 356
5	5	2013-05-01	2013-05-01	 0
6	3	2013-05-01	2014-05-01	 365
7	7	2013-05-01	2014-05-02	 366
8	8	2013-05-01	2014-06-01	 396
9	9	2013-05-01	2014-05-01	 365
10	10	2013-05-01	2014-05-01	 365

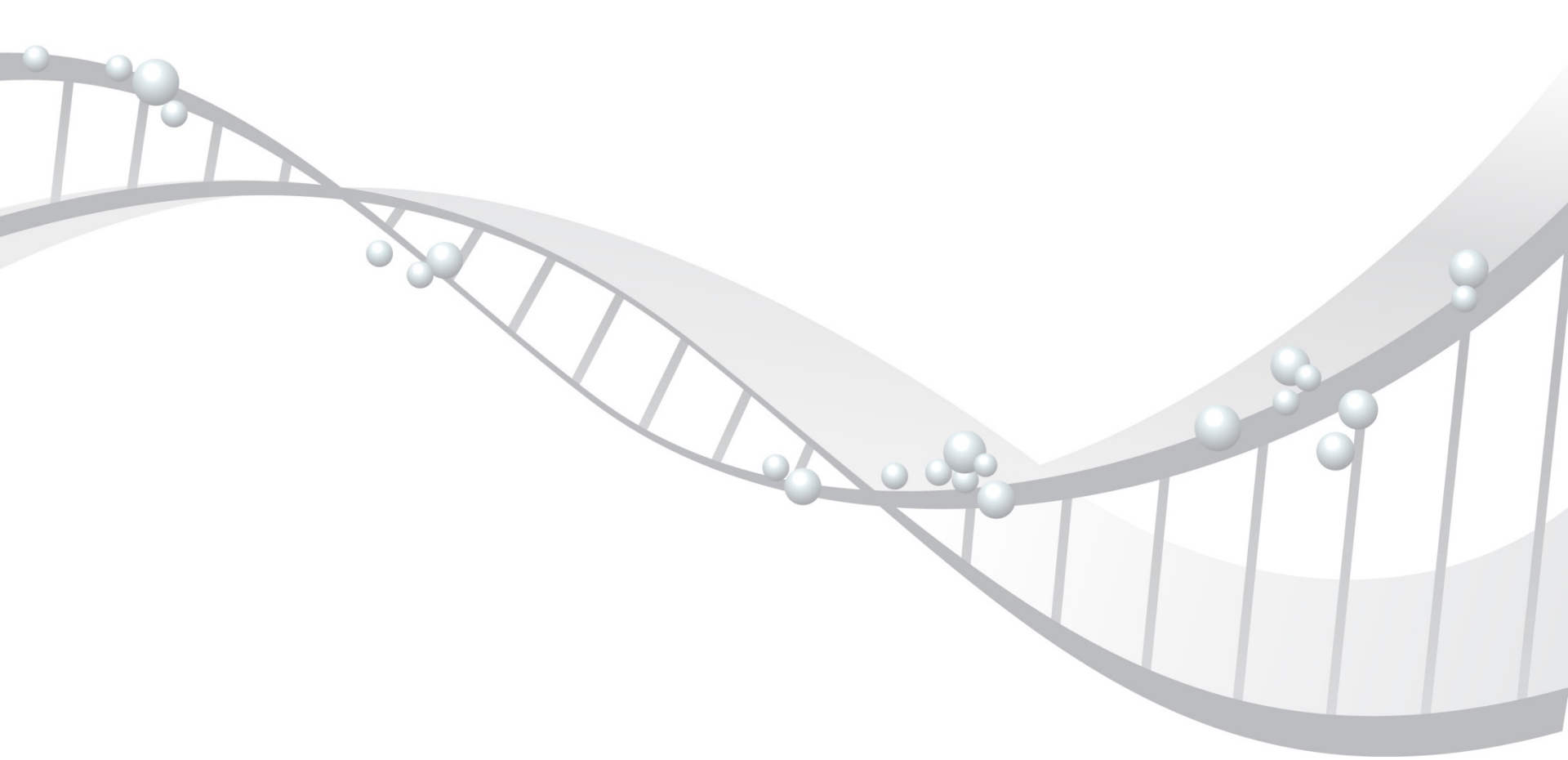
Which observations have a value of 365 in the days variable?

Which observations have a +/- 1 deviation from 365 in the days variable?

Which observations have a value less than 363 or greater than 367 in the days variable?

Without subsetting the dataset the same queries can be highlighted in an output

Obs	subjid	stdate	enddate	days
1	1	2013-05-01	2014-05-01	365
2	2	2013-05-02	2014-05-01	364
3	3	2013-05-13	2014-03-01	292
4	4	2013-05-10	2014-05-01	356
5	5	2013-05-01	2013-05-01	0
6	3	2013-05-01	2014-05-01	365
7	7	2013-05-01	2014-05-02	366
8	8	2013-05-01	2014-06-01	396
9	9	2013-05-01	2014-05-01	365
10	10	2013-05-01	2014-05-01	365



HOW IT WORKS

```
proc format;  
  value check  
    364,366 = "yellow"  
    365      = "green"  
    other    = "red"  
;  
run;
```

**Define the colours to be used
for each selection criterion.
Hexadecimal numbers or actual
colour names can be used**

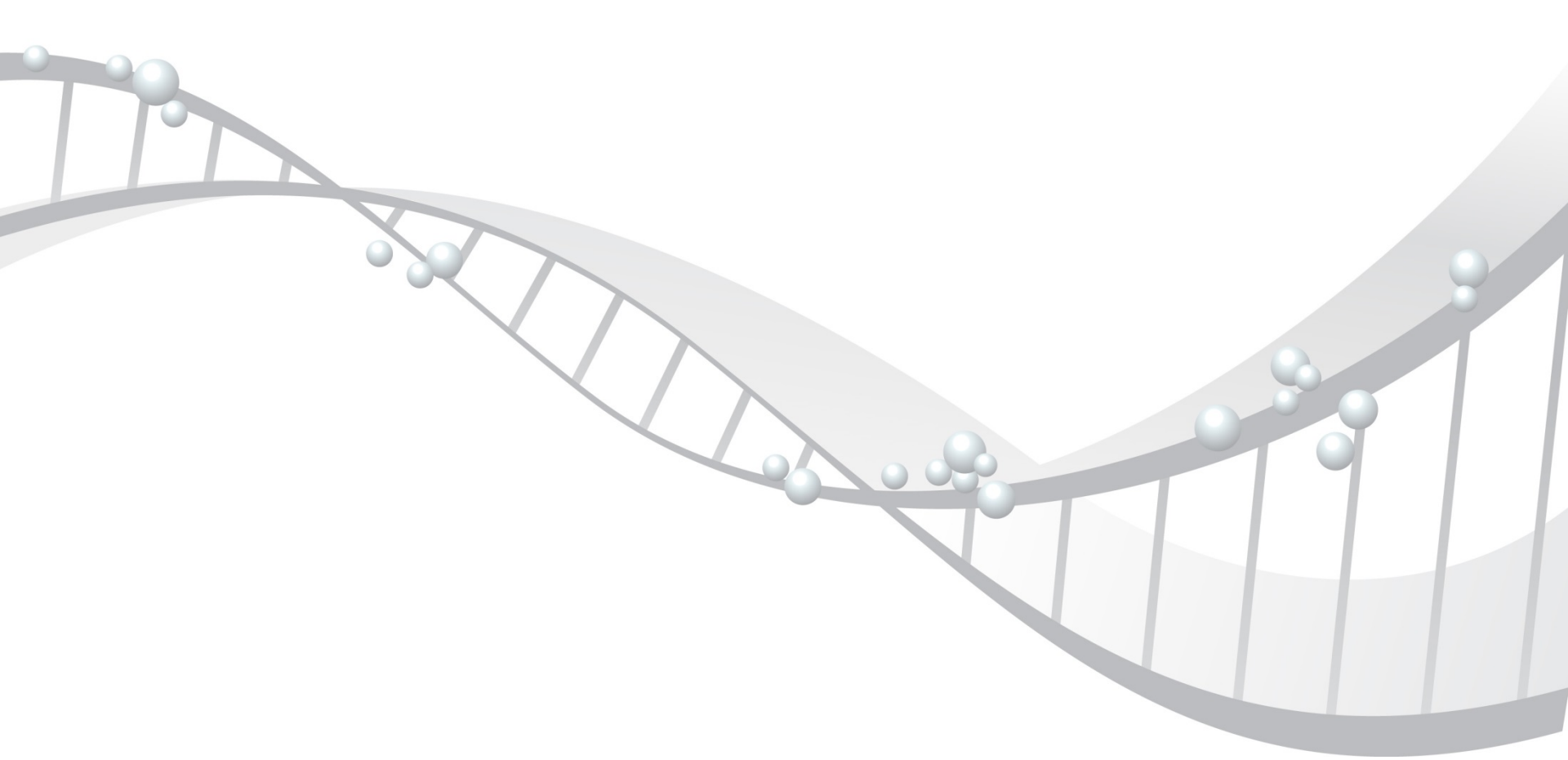
```
proc print data=test2;  
  var subjid stdate endate;  
  var days / style=[background = check.];  
run;
```

The **STYLE** option is called for the variables that are defined in the **VAR** statement

The style attribute being modified is the **BACKGROUND**

The format **check.** is being used. This will enable a conditional background colour.

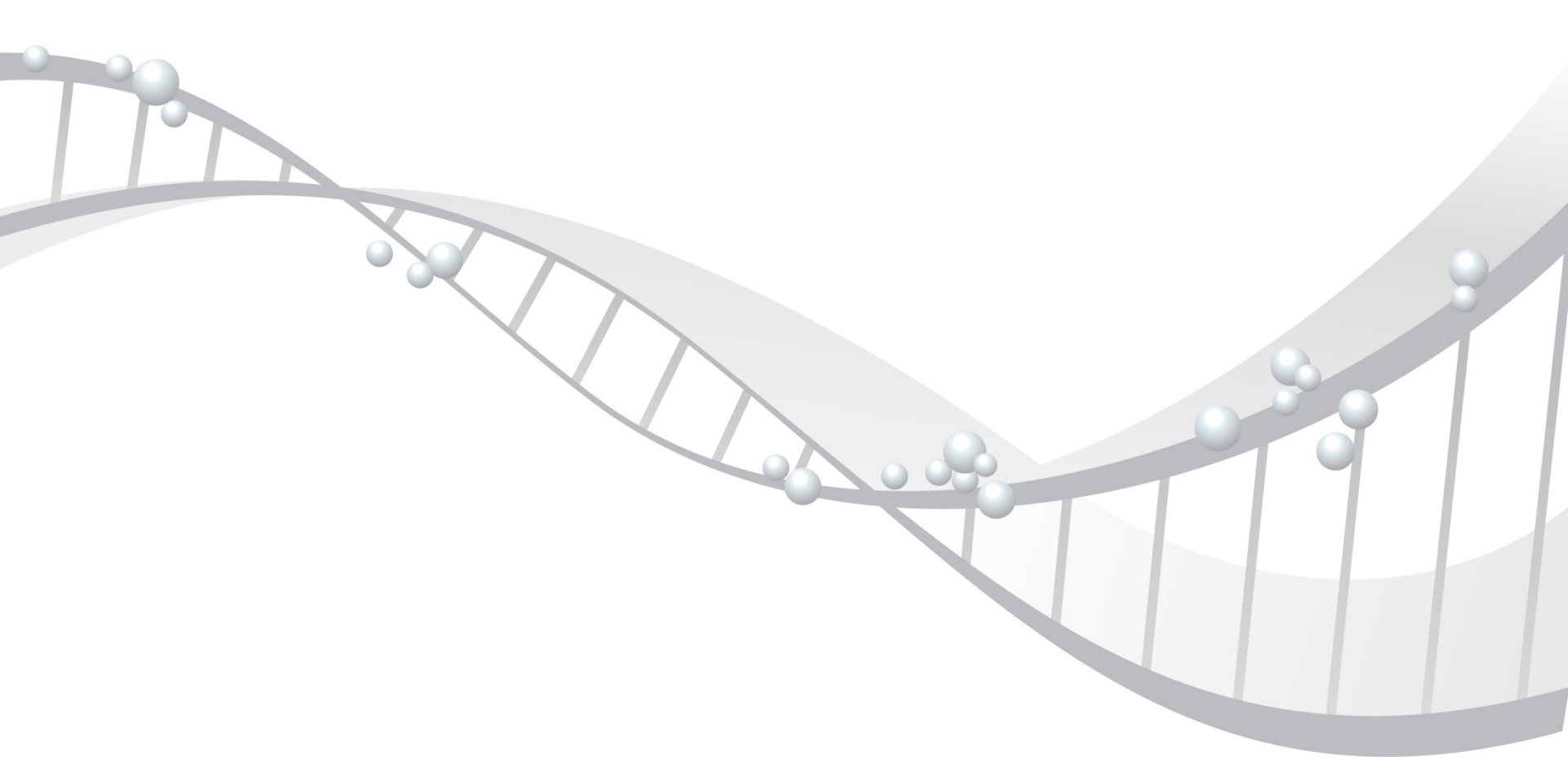
Obs	subjid	stdate	enddate	days
1	1	2013-05-01	2014-05-01	365
2	2	2013-05-02	2014-05-01	364
3	3	2013-05-13	2014-03-01	292
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6	3	2013-05-01	2014-05-01	365
7	7	2013-05-01	2014-05-02	366
8	8	2013-05-01	2014-06-01	396
9	9	2013-05-01	2014-05-01	365
10	10	2013-05-01	2014-05-01	365



WHY USE COLOUR

Why use a FORMAT to colour an output?

- ❑ Focus's the reader's attention on key results
- ❑ Enables “traffic light” review (good results=**green**, bad results=**red**, neutral results=**yellow**)
- ❑ Makes data review much quicker and easier
- ❑ Efficient



CONCLUSION

- ❑ PROC FORMAT allows creation of formats / informats that can be linked to variables using the format statement.
- ❑ A FORMAT can change how data is stored / printed in SAS but can also be used to change the colour of a variable attribute such as the background colour.
- ❑ To apply the conditional colouring in an output, the STYLE option must be used along with the ATTRIBUTE and FORMAT in the reporting procedure.
- ❑ Colouring an output can make data review easier, faster and more efficient.



Questions?