

The Lasagna Plot

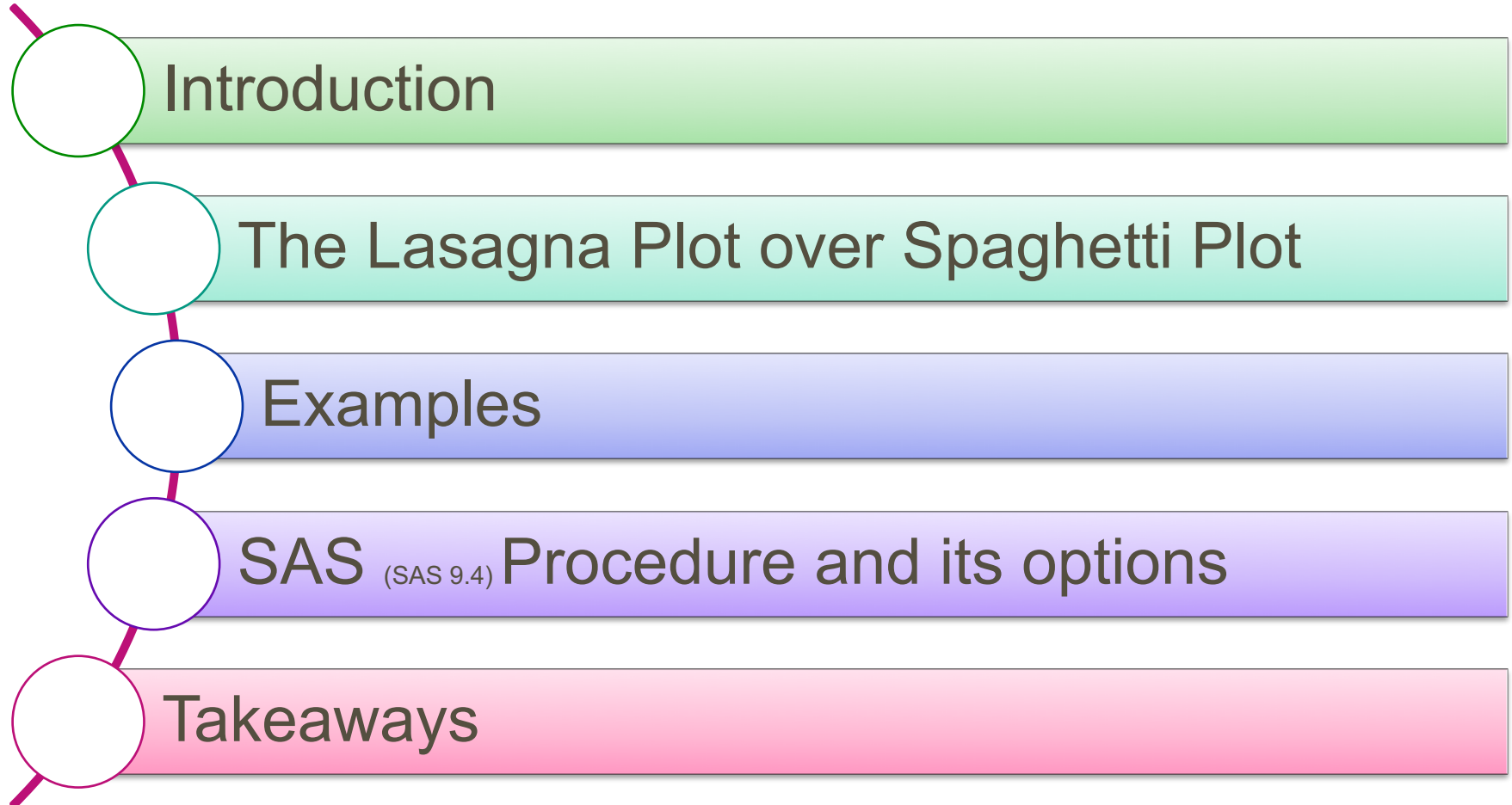
Soujanya Konda
Wednesday, 07 November 2018

Disclaimer!



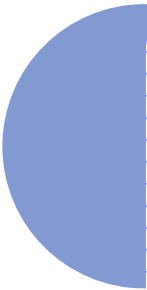
All opinions expressed in this presentation are the presenter's personal views, and do not reflect the views or opinions of GlaxoSmithKline or its subsidiary companies' policies and position.

Some images taken here are freely available from the Internet for a diagrammatic representation of the content.

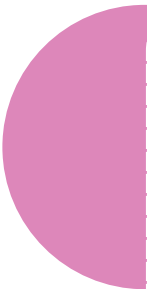


A solid green semi-circle on the left side of the first box.

Representation of trends & patterns

A solid blue semi-circle on the left side of the second box.

The Lasagna Plot (Heatmap)

A solid pink semi-circle on the left side of the third box.

Variability & Missing data pattern

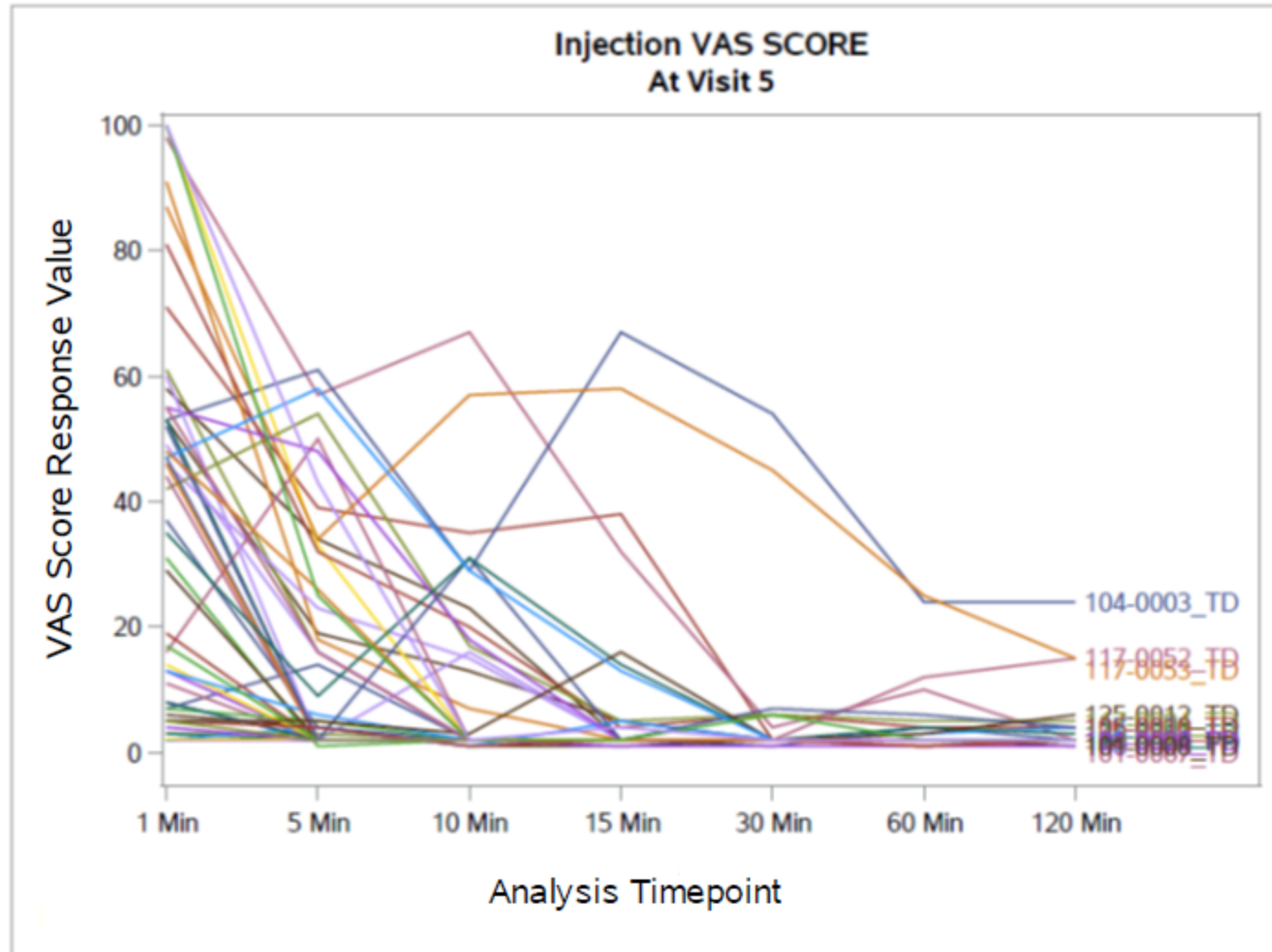
The Lasagna Plot over Spaghetti Plot



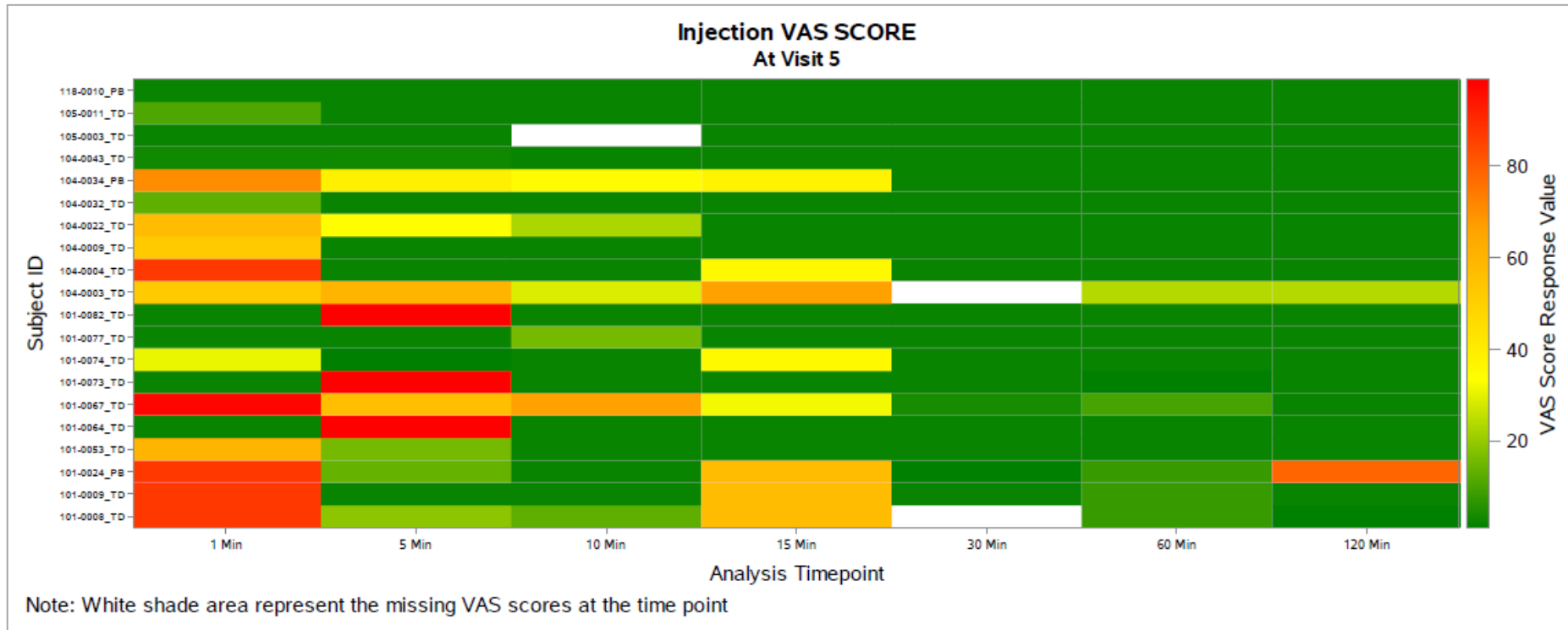
SAMPLE DATA

SUBJID	TRTA	AVISITN	ATPT	ATPTN	PARAM	AVAL
101-0099	Test Drug	5	1 Min	1	Injection Site Pain VAS Score	98
101-0099	Test Drug	5	5 Min	2	Injection Site Pain VAS Score	4
101-0099	Test Drug	5	10 Min	3	Injection Site Pain VAS Score	2
101-0099	Test Drug	5	15 Min	4	Injection Site Pain VAS Score	58
101-0099	Test Drug	5	30 Min	5	Injection Site Pain VAS Score	2
101-0099	Test Drug	5	60 Min	6	Injection Site Pain VAS Score	6
101-0099	Test Drug	5	120 Min	7	Injection Site Pain VAS Score	2

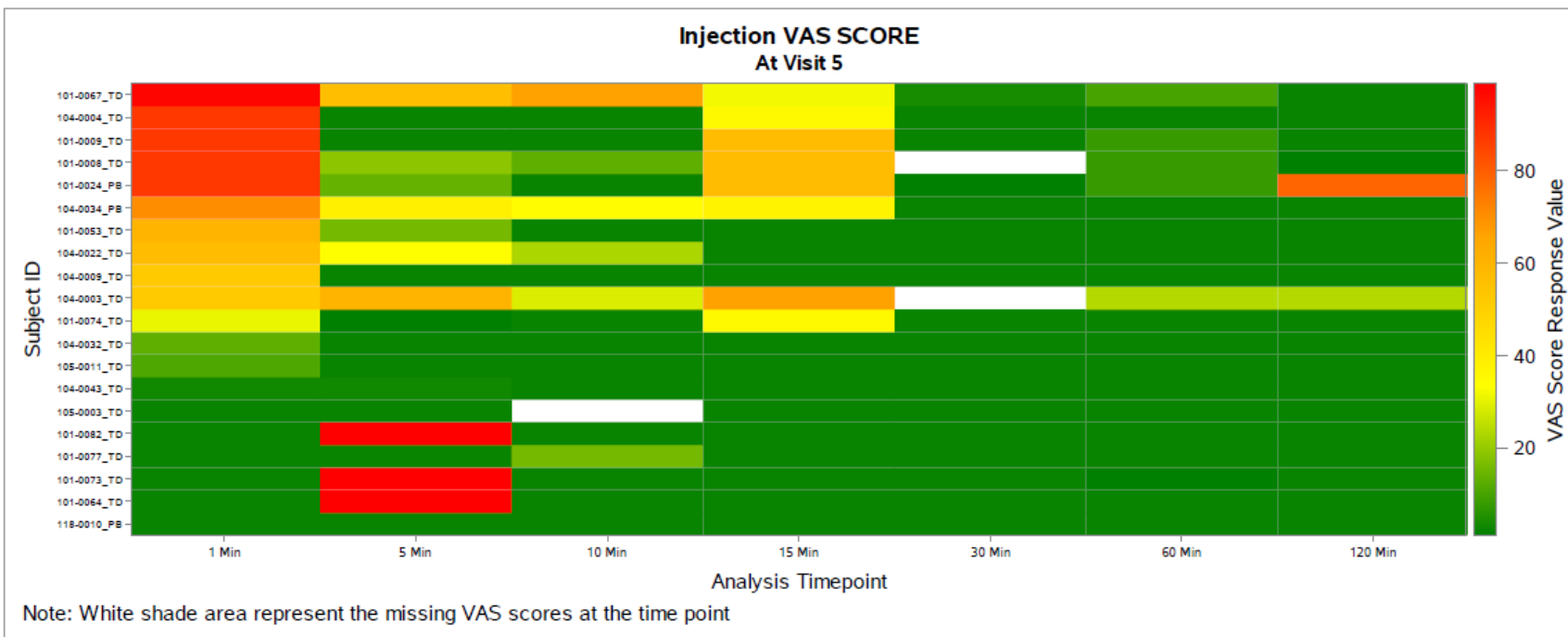
The Lasagna Plot over Spaghetti Plot



The Lasagna Plot over Spaghetti Plot



The Lasagna Plot – Dynamic Sorting



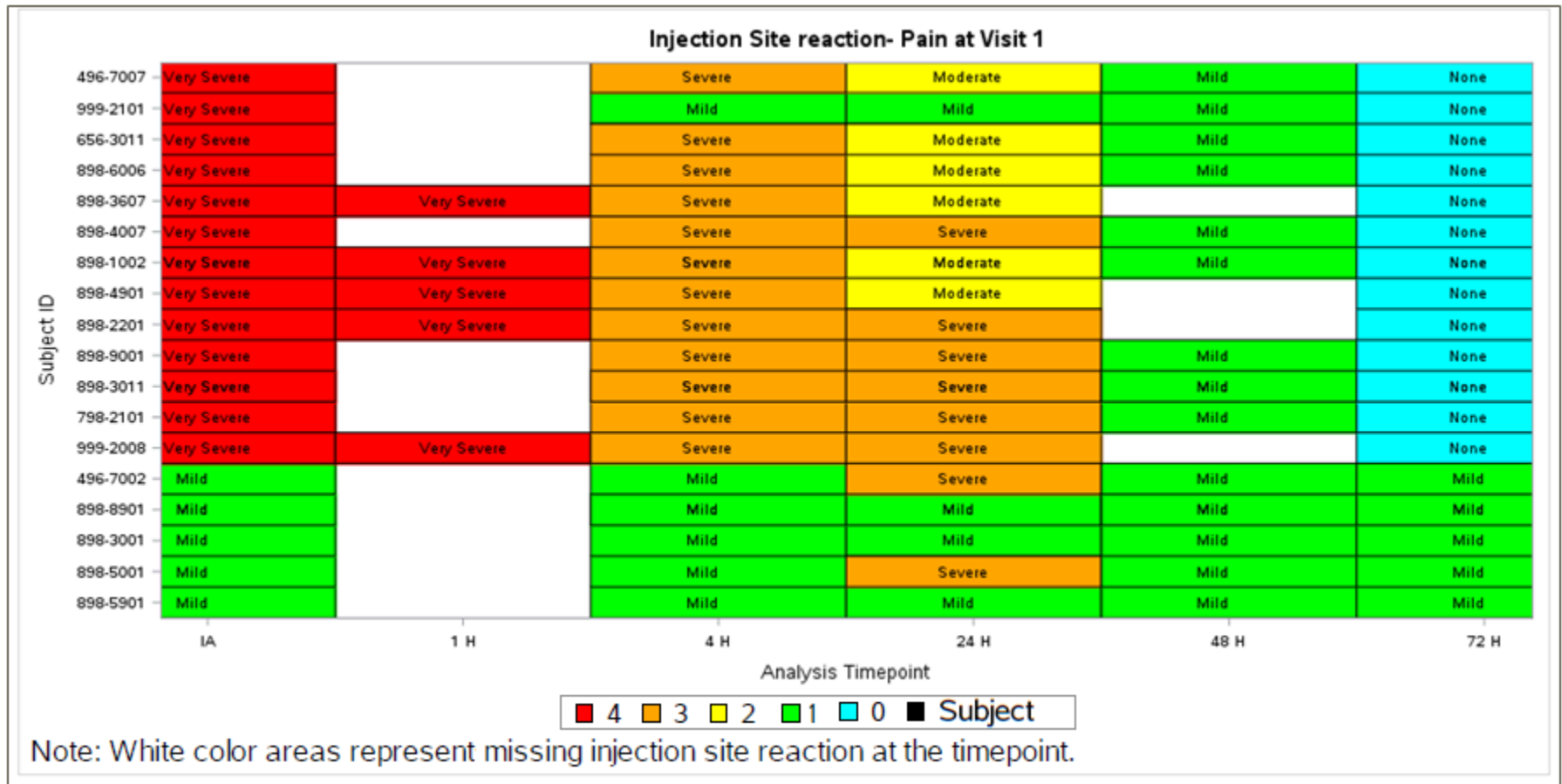
The Lasagna Plot – Categorical Data



SAMPLE DATA

SUBJID	AVISITN	ATPT	ATPTN	PARAM	AVAL	AVALC
999-2101	1	Immediately After Injection	1	Injection Site Reaction Pain	4	Very Severe
999-2101	1	1 Hour Post Injection	2	Injection Site Reaction Pain	4	Very Severe
999-2101	1	4 Hours Post Injection	3	Injection Site Reaction Pain	3	Severe
999-2101	1	24 Hours Post Injection	4	Injection Site Reaction Pain	3	Severe
999-2101	1	72 Hours Post Injection	6	Injection Site Reaction Pain	0	None

The Lasagna Plot – Categorical Data



```
proc sgplot data=;
```

```
Heatmap  x= y= / colorresponse= colormodel=  
(green yellow orange red);
```

```
Heatmapparm x= y= colorgroup= outline attrid=
```

```
tip=
```

```
text x=
```

```
valueattrs=
```

```
labelattrs;
```

```
label =;
```

```
footnote ;
```

```
run;
```

Advantages

- Comparison
- Missing data pattern
- Trend analysis
- Sorting
- Variability
- Visualization
- Categorical data
- No over plotting

Disadvantages

- Space
- Large number of subjects

Limitations

- Uniformly spaced data



