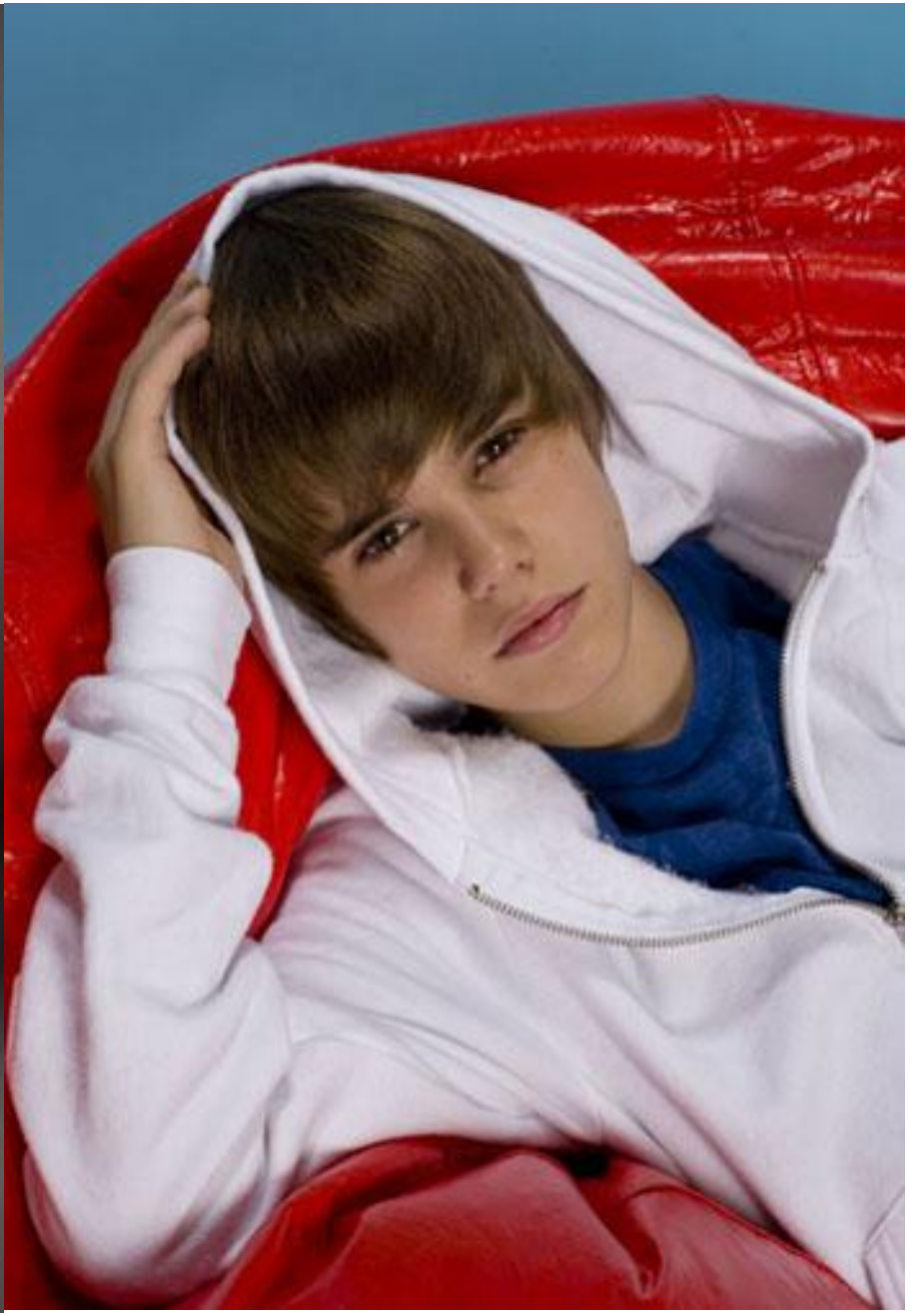


# Generate HTML File for Excel Reports: Use ODS With User Defined Table Template

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# How we generate reports?

- Create a ready-to-report SAS dataset, which is a summarized data (meat of a report)
- Report procedures
  - Proc report/print
  - Proc tabulate (need raw individual data)
  - Proc export
  - Data \_null\_ with Put statement
  - Data \_null\_ with print statement and ODS
- Assist with ODS to generate output files
  - Rtf, PDF, listing
  - HTML – compatible to Excel
- Modify or make up within output files
- Put all files in one book if necessary (i.e. spreadsheets in workbook)

# Outline

- Review ODS
- Report procedure:
  - Data `_null_` with print statement applying ODS
- ODS
  - What can we define in a customized table template (instead of how)
  - Create HTML file
- Demonstrate three SAS programs with a sample data

# ODS 1: Overview

- **Output object:** A basic tabular or graphical representation of output.
- **ODS components**
  - **Data component:** Collection of raw numbers and strings
  - **Template components:** A set of instructions that describe how ODS should format and present the raw data.
    - **Table templates:** control data column order, column headers and footers, and data formatting.
    - **Style templates:** control the look and feel of the whole SAS job
- **Destinations:** RTF, HTML, PDF, LISTING

# ODS 2: Overview - Syntax

```
ODS html file='MyFileDirectory/FileName.html';
```

```
Proc print
```

```
Proc report
```

```
Proc freq/means/phreg
```

```
...
```

```
ODS html close;
```

# ODS 3: Generate ODS html file

```
ODS html file='MyFileDirectory/FileName.html' ;  
  Data _null_ ;  
    set DSN ;  
    .....MyAnyDataSteps..... ;  
    file print ods=(template=MyTampalte  
                    column =(generic dynamic=( ) )  
                    variables=( )  
                    ) ;  
    put _ods_ ;  
run ;  
Ods html close ;
```

# What report to generate?

Ideally, create ready-to-send report and minimize modifications in output files

- How?
  - Be descriptive and informative
    - Titles, sub-titles, footnotes
    - Headers, footers
    - Meaningful column names
    - Time and date
    - People names: PI, statistician, co-workers
    - Data and programs used and their locations
    - Others
  - Formatted with styles  
font size, bolded, highlight, background, special characters, etc.

Project : Use ODS html to generate reports (PI: Kathy Sykora)

Date: 30OCT2010 (Saturday) by L Yun.

Table 1: Med therapy and outcome by gender

Cohort: All analysts (age >20)

Exclude: those who left ICES >180 days

Variable Categories	Variables	Total n (%)	Female n (%) † †	Male n (%) †	P-value <sup>1</sup>
	Total	N=100	N=58	N=42	
Med Therapy	med_ace	62 (62.0%)	31 (53.4%)	31 (73.8%)	0.038
	med_diu	51 (51.0%)	28 (48.3%)	23 (54.8%)	0.522
	med_beta	69 (69.0%)	29 (50.0%)	40 (95.2%)	<.001
Outcomes	death	39 (39.0%)	18 (31.0%)	21 (50.0%)	0.055

<sup>1</sup> P-value from Chi-square test

<sup>2</sup> Diuretics excluding DIN=12345678

# ODS 4: Define table template (proc template)

- Header and footer
  - Table titles and footnotes
  - Macro variables: **CHANGEABLE**
- Column headers
  - Variable labels
  - Dynamic: **CHANGEABLE**
- Columns (variables)
  - Generic: one template definition for multiple variables/columns - **CHANGEABLE**
- Allow: superscript/subscript, dagger, split text of column header

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# Reporting and ODS Learning Resources

- SAS on-site courses
  - [SAS Report Writing 1: Using Procedures and ODS](#) (Level3)
- SAS live-web courses
  - [Advanced Output Delivery System Topics](#) (Level 4)
- Books
- SUGI papers

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Thanks and Questions

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