

# Pharmaceutical Programming

Journal of the Pharmaceutical Users Software Exchange

```
%do i= 1 %to &ngrp;  
    retain %scan(&_freqpct,&i) %scan(&_grpvar,&i);  
    length %scan(&_freqpct,&i) $6;  
    %if %scan(&grpcolwd, %scan(&_grppos,&i)) > 12 %then  
        length %scan(&_grpvar,&i) $12;  
    %else length %scan(&_grpvar,&i) $ %scan(&grpcolwd, %scan(&_grppos,&i));  
    if first._fname_ then do;  
        if %eval(&freqpct eq NO) then %scan(&_freqpct,&i)= "";  
        else %scan(&_freqpct,&i)= put("",$_pctmis.);  
        %scan(&_grpvar,&i) = put("",$_num%scan(&_grppos,&i)m.);  
    end;  
    if %scan(&_actgrp,&i," ") = &group then do;  
        if %eval(&freqpct eq NO) then %scan(&_freqpct,&i)= "";  
        else %scan(&_freqpct,&i)= trim(put(_pname_&_pct.));  
        %scan(&_grpvar,&i) = trim(put(_nfname_&_num%scan(&_grppos,&i)n.));  
    end;  
%end;
```



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# Pharmaceutical Programming

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*Pharmaceutical Programming*, the journal of the Pharmaceutical Users Software Exchange (PhUSE), is an international journal with focus on programming in the regulated environment of the pharmaceutical and life sciences industry. The journal serves as a knowledge repository and a forum for exchange between programmers working around the world covering topics related to statistical programming, program and application development as well as current technologies, software and tools used for programming.

## EDITOR

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**Pharmaceutical Users Software Exchange (PhUSE)** is a non-profit membership society with the objective of educating programmers and their managers working in the pharmaceutical industry. Access to *Pharmaceutical Programming* is free for PhUSE members.

For more information please visit:

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## SCOPE

**Areas of interest include:**

- Fundamental programming techniques and macros
- Representation of clinical data
- Remote data capture and pharmacovigilance systems
- Electronic submission of laboratory and clinical data
- CDISC implementation
- Pharmacokinetic and pharmacodynamic programming
- Regulatory environments and the development of standards
- Software development lifecycle

## KEY ARTICLES

- Calculating medication compliance, adherence and persistence in administrative pharmacy claims databases, **Scott Leslie**
- Workflow: defining, designing and building a programming process and version control system, **Greg Silva**
- A concept for define.xml generated in SAS®, **Monika Kawohl and Dirk Spruck**
- Evolution and implementation of CDISC Study Data Tabulation Model (SDTM), **Tom Guinter and Fred Wood**
- Lessons learned: valuable (but hidden) SAS® details, **Dante di Tommaso and Benjamin Szilagyi**

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