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GAP ANALYSIS SURVEY COMPOUNDING NONSTERILE PREPARATIONS (2012)

©International Journal of Pharmaceutical Compounding 122 N. Bryant Edmond, Oklahoma 73034 Loyd V. Allen, Jr., PhD, RPh

Note: The purpose of this form is to conduct a preliminary assessment of the pharmacy to determine compliance with USP Chapter <795> Pharmaceutical Compounding—Nonsterile Preparations.

Outline

Introduction

Definitions

Categories of Compounding

Description of Categories

Responsibilities of the Compounder

General Principles of Compounding

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Criteria When Compounding Each Drug Preparation

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Stability Criteria and Beyond-use Dating

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Master Formulation Record

Compounding Record

Standard Operating Procedures

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Quality Control

Compounding Controls

Patient Counseling

Training

Compounding for Animal Patients

INTRODUCTION

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Is the pharmacy familiar with "Good				
Compounding Practices" as				
presented in <i>USP</i> General Chapter				
<795>?				

Is the pharmacy aware of the			
requirement to compound			
preparations of "acceptable strength,			
quality, and purity"?			
Is the pharmacy licensed and in			
good standing with the state board of			
pharmacy?			
Is the pharmacy licensed to handle			
controlled substances?			
Are all controlled substances records			
up to date and complete?			
Has the pharmacy been inspected by			
the State Board as a compounding			
pharmacy?			
Are any actions pending by the state			
board of pharmacy?			
Has the pharmacy been inspected by			
the FDA?	_		
If so, was a "483" issued?	_		
Does the pharmacist understand the			
difference between compounding,			
repackaging, and manufacturing?			
Are all compounded prescriptions			
dispensed pursuant to a prescription			
from a valid, licensed prescriber?			

DEFINITIONS

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Is the pharmacy aware of the <i>USP</i>				
definition of a "preparation"?				
Is the pharmacy aware of the <i>USP</i>				
definition of a "compounder"?				
Is the pharmacy aware of the <i>USP</i>				
definition of an "active				
pharmaceutical ingredient"?				
Is the pharmacy aware of the <i>USP</i>				
definition of "added substances"?				
Is the pharmacy aware of the				
synonyms of "added substances"?				
Does the pharmacy know the				
difference between compounding				
and manufacturing?				
Does the pharmacy know the criteria				
for designating a drug as a				

"hazardous drug"?		

CATEGORIES

Description of Categories

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Is the pharmacy familiar with the				
criteria used to determine the				
different categories of				
compounding?				
Is the pharmacy involved in "Simple				
Compounding?"				
Is the pharmacy involved in				
"Moderate Compounding?"				
Is the pharmacy involved in				
"Complex Compounding?"				

RESPONSIBILITIES OF THE COMPOUNDER

General Principles of Compounding

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Is documentation available that				
compounding is only done by				
individuals that are appropriately				
trained and validated?				
Is documentation available that				
designated compounding				
pharmacists are capable and				
qualified to compound?				
Is documentation available that				
designated compounding pharmacy				
technicians are capable and qualified				
to compound?				
Is documentation available that all				
ingredients used have their expected				
identity, quality, and purity?				
Are all bulk component containers				
appropriately labeled with OSHA				
hazard communication labels?				
Are MSDSs available for all drugs				
and chemicals?				
Is all equipment clean, properly				
maintained, and appropriately used?				
Is the compounding area suitable for				
its intended purpose?				
Are procedures in place to prevent				

cross-contamination and the		
handling of ingredients requiring		
special consideration?		
Are only authorized personnel		
allowed in the immediate area where		
compounding occurs?		
Is documentation available that all		
preparations are packaged and		
labeled appropriately?		
Is documentation available that all		
preparations are compounded in		
accordance with good compounding		
practices (<i>USP</i> Chapter <795>),		
official standards, and relevant		
scientific data and information?		
Is documentation available that all		
processes are consistent and under		
control?		
Are compounding conditions and		
procedures adequate for preventing		
errors?		
Do adequate procedures and records		
exist for investigating and correcting		
failures or problems in		
compounding, testing, or in the		
preparation itself?		

COMPOUNDING PROCESS

Criteria When Compounding Each Drug Preparation

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Are the 15 Compounding Process	1. Evaluation of the			
criteria followed to minimize errors	dose, safety and			
and maximize the prescriber's	intended use of			
intent?	the preparation			
	for the patient?			
	2. Creation of a			
	Master			
	Formulation			
	Record the first			
	time before			
	compounding a			
	new preparation?			
	Also, the			
	creation of a			
	Compounding			

		1	ı	Τ
	Record for each			
	compounded			
	preparation?			
2				
3.	Ingredients have			
	been checked to			
	confirm they			
	have their			
	expected			
	identity, quality,			
	and purity?			
4.	Compounding is			
	done in clean and			
	sanitized			
	dedicated area?			
5.	Only one			
	preparation at a			
	time is			
_	compounded?			
6.	Equipment is			
	appropriately			
	selected and			
	inspected for			
	cleanliness,			
	proper			
	functioning and			
	is properly used?			
7.	An appropriate			
, .	beyond-use date			
	is established for			
	the finished			
	preparation?			
8.	Compounding			
٠.	personnel			
	maintain good			
	hand hygiene			
	and wear clean			
	and appropriate			
	clothing for the			
	compounding			
	being performed			
	and also is			
	appropriate for			
	their protection?			
9.	The preparation			
٦.				
	is compounded			
	in accordance			

*****	th IICD <705>		
	th <i>USP</i> <795>		
	ndards?	 	
10. Cri	itical	 	
pro	ocesses		
(we	eighing,		
	easuring, and	 	
	xing) are	 	
Vei	rified so they	 	
	ll result in	 	
	nsistent		
pre	eparations?		
11. As	appropriate,		
	final		
	mpleted		
	eparation is	 	
	sessed for:		
	/eight?		
	lixing?		
	larity?	 	
•O	dor?		
•Co	olor?		
	onsistency?		
•pI			
	trength?		
	e finished		
	eparation is	 	
	propriately		
	ckaged?		
	e labeling on		
	finished		
pre	eparation		
	eets the	 	
	plicable state		
app	d federal laws?		
	e Master		
	rmulation		
	cord and the		
cor	mpounding		
Re	cord have		
	en reviewed		
	the		
	mpounder to		
	sure it is error		
fre			
	e preparation		
is c	dispensed to	 	

the patient or		
caregiver with		
appropriate		
consultation?		

COMPOUNDING FACILITIES

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
For the type and amount of				
compounding done, is sufficient				
space available?				
Is the space orderly arranged with				
proper placement of equipment and				
materials to prevent mix-ups				
between:				
•Ingredients?				
•Containers?				
•Labels?				
•In-process materials?				
•Finished preparations?				
Is the space arranged to prevent				
cross-contamination?				
Is the compounding area well-				
lighted?				
Are heating, ventilation, and air				
condition systems controlled to				
avoid decomposition of chemicals?				
Is constant temperature maintained				
24 hours per day, 7 days per week?				
Is the bulk storage area adequately				
arrange?				
Is the proper temperature and				
humidity maintained and suitably				
controlled in the bulk storage area?				
In the compounding area, are the				
following available:				
•Hot and cold potable water?				
•Soap or detergent?				
•Air driers or single-service				
towels?				
Are the compounding areas				
maintained in a clean and sanitary				
condition?				
Is the bulk storage area maintained				
in a clean and sanitary condition?				
Is trash disposed of in a safe,				

sanitary, and timely manner?		
Are hazardous drugs appropriately		
stored, prepared, and handled by		
appropriately trained personnel		
under conditions that protect them?		
Are hazardous drugs appropriately		
disposed of in accordance with		
applicable federal and state		
regulations?		

COMPOUNDING EQUIPMENT

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Is the equipment generally of				
appropriate design and size for the				
compounding that is performed?				
Is all equipment of appropriate				
design such that the surfaces that				
contact pharmaceutical components,				
in-process materials, or finished				
preparations is not reactive, additive,				
or adsorptive?				
Is all equipment inspected for				
cleanliness and proper functioning				
prior to each use?				
Is all equipment thoroughly cleaned				
promptly after use to avoid cross-				
contamination?				
Is equipment used for allergenic				
ingredients appropriately handled,				
cleaned, and stored immediately				
after use?				
Are all items of equipment				
inspected, maintained, and validated				
at appropriate intervals?				
If disposable equipment or supplies				
are used, are they disposed of				
appropriately?				

COMPONENT SELECTION, HANDLING, AND STORAGE

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Sources				
Are <i>USP</i> - or <i>NF</i> -grade substances				
used, if available?				
If <i>USP</i> - or <i>NF</i> -grade substances are				

not available, is another high-quality source used?		
If so, what determines the grade of substances purchased and used in compounding?		
Is the "purity" scale considered and appropriately used?		
Are drug substances purchased from an FDA-registered facility?		
Are Certificates of Analysis obtained for these substances?		
Are other means used of establishing purity and safety?		
If so, describe the means that are used:		
•Lot analysis		
•Manufacturer's reputation •Reliability of source		
Do all substances have a complete label, batch control numb, and future expiration date on the container?		
For substances without an expiration		
date assigned by the manufacturer or supplier, does the pharmacy have an		
SOP to assign a conservative expiration date on the substance and is it followed?		
When manufactured products are used for compounding, do the labels		
contain a batch control number and a future expiration date?		
When manufactured products are used for compounding, are all the		
other excipients in the product considered relative to the		
compounded preparation to be		
made? Are any preparations made or in an adjuste was displayed that arrespondent the		
ingredients used that appear on the FDA list of drug products		
withdrawn or removed from the market for safety reasons?		
Does the pharmacy compound		

dietary or nutritional supplements?		
If so, does the pharmacy adhere to		
<i>USP</i> <795> standards for their compounding?		
If components are used that are		
derived from ruminant animals, does		
the pharmacy receive written		
assurance that the component is in		
compliance with all federal laws governing processing, use, and		
importation?		
Are all components stored:		
•In a clean area?		
•Under appropriate temperature		
and humidity conditions?Off the floor?		
•Handled as well as stored to		
prevent contamination?		
Are all components properly		
rotated?		

STABILITY CRITERIA AND BEYOND-USE DATING

General Guidelines for Assigning Beyond-use Dates

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Does the pharmacy understand the				
difference between an "expiration				
date" and a "beyond-use date"?				
Is every formulation evaluated for				
incompatibilities and the potential				
for an ineffective or even potentially				
toxic preparation?				
Are BUDs assigned based on <i>USP</i>				
<795>?				
Are BUDs assigned from the day of				
preparation?				
Are preparations stored properly				
prior to dispensing based upon				
conditions upon which the BUD was				
assigned?				
Are preparations labeled properly				
based upon conditions upon which				
the BUD was assigned?				
Is documentation maintained in the				
pharmacy upon which extended				

BUDs are assigned?		
Is every preparation examined		
immediately after preparation and		
immediately prior to dispensing for		
any signs of instability?		
Is a maximum 6-month BUD used		
for all compounded preparations?		
If not, why?		
Is the BUD assigned according to		
the source of the active ingredient?		
As appropriate, are microbiological		
preservatives used?		
If not, are instructions to refrigerate		
provided?		
Are BUDs placed on the label		
affixed to the prescription?		
If repackaging drug products, are the		
BUDs assigned according to the		
USP General Notices, USP General		
Chapters <681> and <1136>?		

PACKAGING AND DRUG PREPARATION CONTAINERS

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Is the pharmacy aware of the <i>USP</i>				
standards for glass and plastic				
containers?				
Is the pharmacy aware of the <i>USP</i>				
standards for unit-dose containers?				
Are suitable containers used for the				
compounded preparations in the				
pharmacy?				
Are the containers and closures				
stored off the floor?				
Are the containers and closures				
handled and stored to prevent				
contamination?				
Are the containers and closures				
properly rotated?				

COMPOUNDING DOCUMENTATION

•Master Formulation Record

- Compounding RecordStandard Operating ProceduresMaterial Safety Data Sheets File

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Are the record-keeping requirements				
of the state followed?				
Are compounding records and				
documents maintained for the time				
period required by the state?				
Are the required records maintained				
in the pharmacy?				
•Master Formulation Record?				
•Compounding Record?				
•SOPs?				
•MSDSs?				
Master Formulation Record				
Is a detailed Formulation Record				
maintained for each compounded				
preparation?				
•Name, strength, and dosage				
form?				
•All necessary calculations?				
•All ingredients and their				
quantities?				
 Compatibility and stability 				
information?				
•Equipment used for the				
preparation?				
 Mixing instructions to include 				
order of mixing, temperatures,				
duration of mixing and other				
pertinent factors?				
•Assigned BUD?				
•Container used?				
•Sample labeling information?				
 Description of the finished 				
preparation?				
•Storage requirements?				
•Quality-control procedures?				
Compounding Record				
Is a detailed Compounding Record				
maintained for each compounded				
preparation?				
 Name and strength of the 				
preparation?				

	T		T
•Master Formulation record			
reference?		 	
•Sources and lot numbers of			
ingredients?		 	
•Total number of dosage units			
compounded?		 	
•Name of person compounding			
the preparation?		 	
•Date of compounding?		 	
•Assigned internal identification			
number or the prescription			
number?		 	
•Description of the final			
preparation?		 	
•Assigned BUD?		 	
•Results of quality-control			
procedures?		 	
If problems occur during			
compounding of an official USP			
monograph preparation, is this			
reported to the USP?			
Standard Operating Procedures			
Is every significant procedure in the			
compounding pharmacy addressed			
by a well-written and implemented			
SOP?			
Is each compounding personnel			
thoroughly familiar with the SOPs			
that govern their daily activities?			
Are the SOPs reviewed periodically			
and upgraded as needed?			
Material Safety Data Sheet File			
Are MSDSs readily accessible to all			
employees working with drug			
substances or bulk chemicals located			
on the compounding facility?			
•Print?		 	
•Electronic?		 	
Do employees know how to access			
the MSDSs?			

QUALITY CONTROLCompounding Controls

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Does the compounder review each				

PATIENT COUNSELING

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Is the patient properly counseled				
about the compounded preparation				
at the time of dispensing?				
•Proper use?				
•Storage?				
•Evidence of instability?				
•Disposal?				

TRAINING

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Is a training program in place for all				

personnel involved in compounding?		
Are all compounding personnel evaluated at least annually?		
Are all compounding personnel familiar with <i>USP</i> General Chapter <795>?		
Are personnel that handle hazardous drugs appropriately trained and evaluated?		
Are all training activities documented?		
Are compounding personnel prevented from compounding until they have been adequately trained and evaluated?		
Does the compounder realize they are solely responsible for the finished preparation?		

COMPOUNDING FOR ANIMAL PATIENTS

ITEM	REQUIREMENTS	YES	NO	COMMENT/SOP
Are all compounding personnel				
aware that preparations compounded				
for animal patients must meet the				
same standards as those for human				
patients?				
Do compounding personnel				
understand the issue of drug residues				
and the human food chain?				
Do compounding personnel				
understand drug withdrawal times?				
Are compounding personnel familiar				
with all appropriate laws and				
regulations governing compounding				
drugs for animal use?				
Are compounding personnel aware				
of the different physiological and				
biochemical aspects of animals as				
compared to humans and the effect				
on drug utilization and elimination?				

BUD = beyond-use date FDA = U.S. Food and Drug Administration MSDS = Material Safety Data Sheet NF = National Formulary

OSHA = Occupational Safety & Health Administration SOP = standard operating procedure USP = United States Pharmacopeia