GMP-Z Hoofdstuk 4 – Documentatie

Inleiding

Het hoofdstuk 'Documentatie' uit de GMP-richtsnoeren is in zijn algemeenheid goed toepasbaar in de ziekenhuisapotheek. Verschil met de industriële GMP is dat de bereidingen in de ziekenhuisapotheek niet geregistreerd zijn, zodat er geen registratiedossier is maar een productdossier. Daarnaast wordt doorgaans vrijgegeven door een ziekenhuisapotheker en niet door een 'Qualified person. Voor de rest gaat het om accentverschillen, gerelateerd aan de relatief kleine charges, de korte procesgang en het beperkt aantal personen dat zich met een bereiding bezig houdt in vergelijking met de industrie.

GMP item	Gewijzigd richtsnoer GMP-Z	Toelichting
Principle	GMP	
(= Good documentation constitutes an		
essential part of the quality assurance system		
and is key to operating in compliance with		
GMP requirements. The various types of		
documents and media used should be fully		
defined in the manufacturer's Quality		
Management System.		
Documentation may exist in a variety of forms,		
including paper-based, electronic or		
photographic media. The main objective of the		
system of documentation utilized must be to		
establish, control, monitor and record all		
activities which directly or indirectly impact on		
all aspects of the quality of medicinal products.		
The Quality Management System should		
include sufficient instructional detail to facilitate		
a common understanding of the requirements,		
in addition to providing for sufficient recording		
of the various processes and evaluation of any		
observations, so that ongoing application of		
the requirements may be demonstrated.		
There are two primary types of documentation		
used to manage and record GMP compliance:		
instructions (directions, requirements) and		
records/reports. Appropriate good		
documentation practice should be applied with		
respect to the type of document. Suitable		
controls should be implemented to ensure the		

accuracy, integrity, availability and legibility of documents. Instruction documents should be free from errors and available in writing. The term 'written' means recorded, or documented on media from which data may be rendered in a human readable form.

Required GMP documentation (by type):

Site Master File: A document describing the GMP related activities of the manufacturer. *Instructions (directions, or requirements) type:* Specifications: Describe in detail the requirements with which the products or materials used or obtained during manufacture have to conform. They serve as a basis for quality evaluation.

Manufacturing Formulae, Processing, Packaging and Testing Instructions: Provide detail all the starting materials, equipment and computerised systems (if any) to be used and specify all processing. packaging, sampling and testing instructions. Inprocess

controls and process analytical technologies to be employed should be specified where relevant, together with acceptance criteria.

Procedures: (Otherwise known as Standard Operating Procedures, or SOPs), give directions for performing certain operations. Protocols: Give instructions for performing and recording certain discreet operations. Technical Agreements: Are agreed between contract givers and acceptors for outsourced

activities.

Record/Report type:

Records: Provide evidence of various actions taken to demonstrate compliance with instructions, e.g. activities, events, investigations, and in the case of

Voor SMF zie GMPz part III GMP gerelateerde documenten

	T
GMP	
4.2-Z	Bij de bereiding in de ziekenhuisapotheek is er
Documenten moeten met zorg worden	geen registratiedossier maar een
ontworpen, opgesteld, herzien en verspreid.	productdossier. Het productdossier bevat veel
	Documenten moeten met zorg worden

should comply with the relevant parts of Product Specification Files, Manufacturing and Marketing authorisation dossiers, as appropriate (etc.).	De documentatie van de bereiding in een ziekenhuisapotheek dient evenals de documentatie van de overige apotheekfuncties een samenhangend geheel te vormen. Het beheer van de documenten moet zijn vastgelegd.	verwijzingen naar minder specifieke documenten. In het documentbeheersysteem wordt met de samenhang en de hiërarchie van deze documenten rekening gehouden
4.3 t/m 4.6 4.3 Documents containing instructions should be approved, signed and dated by appropriate and authorised persons. Documents should have unambiguous contents and be uniquely identifiable. The effective date should be defined. 4.4 Documents containing instructions should be laid out in an orderly fashion and be easy to check. The style and language of documents should fit with their intended use. Standard Operating Procedures, Work Instructions and Methods should be written in an imperative mandatory style. 4.5 Documents within the Quality Management System should be regularly reviewed and kept up-to-date. 4.6 Documents should not be hand-written; although, where documents require the entry of data, sufficient space should be provided for such entries.	GMP	
Good documentation Practices		
 4.7 Handwritten entries should be made in clear, legible, indelible way. 4.8 Records should be made or completed at the time each action is taken and in such a way that all significant activities concerning the manufacture of medicinal products are traceable. 4.9 Any alteration made to the entry on a document should be signed and dated; the alteration should permit the reading of the 	GMP	

original information. Where appropriate, the		
reason		
for the alteration should be recorded.		
Retention of documents		
4.10 It should be clearly defined which record	GMP	
is related to each manufacturing activity and		
where this record is located. Secure controls		
must be in place to ensure the integrity of the		
record throughout the retention period and		
validated where appropriate.		
4.11 Specific requirements apply to batch		
documentation which must be kept for one		
year after expiry of the batch to which it relates		
or at least five years after certification of the		
batch by the Qualified Person, whichever is		
the longer. For investigational medicinal		
products, the batch documentation must be		
kept for at least five years after the completion		
or formal discontinuation of the last clinical trial		
in which the batch was used. Other		
requirements for retention of documentation		
may be described in legislation in relation to		
specific types of product (e.g. Advanced		
Therapy Medicinal Products) and specify that		
longer retention periods be applied to certain		
documents.		
4.12 For other types of documentation, the		
retention period will depend on the business		
activity which the documentation supports.		
Critical documentation, including raw data (for example relating to validation or stability),		
which supports information in the Marketing		
Authorisation should be retained whilst the		
authorization remains in force. It may be		
considered acceptable to retire certain		
documentation (e.g. raw data supporting		
validation reports or stability reports) where the		
data has been superseded by a full set of new		
data.		
Justification for this should be documented		

and should take into account the requirements for retention of batch documentation; for example, in the case of process validation data, the accompanying raw data should be retained for a period at least as long as the records for all batches whose release has been supported on the basis of that validation exercise. The following section gives some examples of required documents. The quality management system should describe all documents required to ensure product quality and patient safety.		
The following section (4.13 t/m 4.32) gives some examples of required documents. The quality management system should describe all documents required to ensure product quality and patient safety.	GMP	Voor de bereidingsdocumenten worden in de ziekenhuisfarmacie deels andere termen gebruikt. Zie de lijst Begrippen.
Specifications	OUP.	
 4.13 There should be appropriately authorised and dated specifications for starting and packaging materials, and finished products. <i>Specifications for starting and packaging materials</i> 4.14 Specifications for starting and primary or printed packaging materials should include or provide reference to, if applicable: a) A description of the materials, including: - The designated name and the internal code reference; - The reference, if any, to a pharmacopoeial monograph; - The approved suppliers and, if reasonable, the original producer of the materials; - A specimen of printed materials; b) Directions for sampling and testing; c) Qualitative and quantitative requirements with acceptance limits; d) Storage conditions and precautions; 	GMP	Specificaties zijn vastgelegde kenmerken en criteria die dienen om de kwaliteit (van grondstoffen, verpakkingsmaterialen en producten) te kunnen beoordelen. In de ziekenhuisapotheek zijn de specificaties voor grondstoffen, tussen- en eindproducten veelal opgenomen in de onderzoeksvoorschriften. Specificaties voor verpakkingsmaterialen zijn opgenomen in de onderzoeksvoorschriften voor verpakkingsmateriaal.

e) The maximum period of storage before re- examination. Specifications for intermediate and bulk products 4.15 Specifications for intermediate and bulk		
products should be available for critical steps or if these are purchased or dispatched. The specifications should be similar to specifications for starting materials or for		
finished products, as appropriate. Specifications for finished products 4.16 Specifications for finished products should include or provide reference to: a) The designated name of the product and		
the code reference where applicable; b) The formula; c) A description of the pharmaceutical form		
and package details;d) Directions for sampling and testinge) The qualitative and quantitative		
requirements, with the acceptance limits; f) The storage conditions and any special handling precautions, where applicable; g) The shelf-life.		
Manufacturing formula and processing instructions		
4.17 The Manufacturing Formula should	GMP	Deze informatie maakt in de
include: a) The name of the product, with a product reference code relating to its specification; b) A description of the pharmaceutical form,		ziekenhuisapotheek in de regel deel uit van het Bereidingsvoorchrift.
strength of the product and batch size; c) A list of all starting materials to be used,		
with the amount of each, described; mention should be made of any substance that may		
disappear in the course of processing; d) A statement of the expected final yield with		
the acceptable limits, and of relevant intermediate yields, where applicable		
4.18 The Processing Instructions should		

include: a) A statement of the processing location and the principal equipment to be used; b) The methods, or reference to the methods, to be used for preparing the critical equipment (e.g. cleaning, assembling, calibrating, sterilising); c) Checks that the equipment and work station are clear of previous products, documents or materials not required for the planned process, and that equipment is clean and suitable for use; d) Detailed stepwise processing instructions [e.g. checks on materials, pre-treatments, sequence for adding materials, critical process parameters (time, temp etc)]; e) The instructions for any in-process controls with their limits; f) Where necessary, the requirements for bulk storage of the products; including the		
container, labeling and special storage conditions where applicable;		
g) Any special precautions to be observed.		
Packaging instructions	OMB	
4.19 Approved Packaging Instructions for each product, pack size and type should exist. These should include, or have a reference to, the following:	GMP	Verpakkingsinstructies maken in de regel deel uit van het Bereidingsvoorschrift.
 a) Name of the product; including the batch number of bulk and finished product b) Description of its pharmaceutical form, and strength where applicable; c) The pack size expressed in terms of the 		
number, weight or volume of the product in the final container; d) A complete list of all the packaging		
materials required, including quantities, sizes and types, with the code or reference number		
relating to the specifications of each		

nackaging material		
packaging material 4.19 e There should be formally authorised packaging instructions for each product, pack size and type. These should normally include, or have a reference to, the following: e) where appropriate, an example or reproduction of the relevant printed packaging materials, and specimens indicating where tot apply batch number references, and shelf life of the product. 4.19 f) Checks that the equipment and work station are clear of previous products, documents or materials not required for the planned packaging operations (line clearance), and that equipment is clean and suitable for use. g) Special precautions to be observed, including a careful examination of the area and equipment in order to ascertain the line clearance before operations begin; h) A description of the packaging operation, including any significant subsidiary operations, and equipment to be used; i) Details of in-process controls with	4.16 e-Z Voor elk product zijn formeel goedgekeurde verpakkingsvoorschriften vereist. Deze moeten gewoonlijk het volgende bevatten (of verwijzen daarnaar): e) een voorbeeld of kopie van etiket(ten) waarop onder andere het chargenummer en de houdbaarheidstermijn van het produkt zijn weergegeven. GMP	In de ziekenhuisapotheek worden zelden voorbedrukte verpakkingsmaterialen gebruikt. In plaats daarvan moet een exemplaar van het te gebruiken etiket aanwezig zijn. Te gebruiken etiketten voldoen aan de Richtlijn etikettering van apotheekbereidingen gevolgd (Werkgroep etikettering NVZA vigerende versie). Onderdeel is de etikettenverantwoording.
instructions for sampling and acceptance		
limits. Batch Processing Record		
4.20 A Batch Processing Record should be kept for each batch processed. It should be based on the relevant parts of the currently approved Manufacturing Formula and Processing Instructions, and should contain the following information: a) The name and batch number of the product; b) Dates and times of commencement, of significant intermediate stages and of completion of production; c) Identification (initials) of the operator(s) who performed each significant step of the process	GMP	

and, where appropriate, the name of any		
person who checked these operations;		
•		
d) The batch number and/or analytical control		
number as well as the quantities of each		
starting material actually weighed (including		
the batch number and amount of any		
recovered or reprocessed material added);		
e) Any relevant processing operation or event		
and major equipment used;		
f) A record of the in-process controls and the		
initials of the person(s) carrying them		
out, and the results obtained;		
g) The product yield obtained at different and		
pertinent stages of manufacture;		
h) Notes on special problems including details,		
with signed authorisation for any		
deviation from the Manufacturing Formula and		
Processing Instructions;		
i) Approval by the person responsible for the		
processing operations.		
Note: Where a validated process is		
continuously monitored and controlled, then		
automatically generated reports may be limited		
to compliance summaries and exception/ out-		
ofspecification (OOS) data reports.		
Batch Packaging Record		
4.21 A Batch Packaging Record should be	GMP	In de ziekenhuisapotheek maakt het
kept for each batch or part batch processed. It		verpakknigsprotocol in de regel deel uit van
should be based on the relevant parts of the		het Bereidingsprotocol.
Packaging Instructions. The batch packaging		Onderdeel is de etikettenverantwoording.
record should contain the following		Ondorded to de elikoloriverantweerding.
information:		
a) The name and batch number of the product,		
b) The date(s) and times of the packaging		
operations;		
c) Identification (initials) of the operator(s) who		
performed each significant step of the		
process and, where appropriate, the name of		
any person who checked these operations;		
d) Records of checks for identity and		
u) Necolus of checks for fuertility and		

conformity with the packaging instructions,		
including the results of in-process controls;		
e) Details of the packaging operations carried		
out, including references to equipment and the		
packaging lines used;		
f) Whenever possible, samples of printed		
packaging materials used, including		
specimens of the batch coding, expiry dating		
and any additional overprinting;		
g) Notes on any special problems or unusual		
events including details, with signed		
authorisation for any deviation from the		
Packaging Instructions;		
h) The quantities and reference number or		
identification of all printed packaging materials		
and bulk product issued, used, destroyed or		
returned to stock and the quantities of		
obtained product, in order to provide for an		
adequate reconciliation. Where there are there		
are robust electronic controls in place during		
packaging there may be justification for not		
including this information		
i) Approval by the person responsible for the		
packaging operations		
Procedures and records		
4.22 There should be written procedures and	GMP	
records for the receipt of each delivery of each		
starting material, (including bulk, intermediate		
or finished goods), primary, secondary and		
printed packaging materials.		
4.23 The records of the receipts should		
include:		
a) The name of the material on the delivery		
note and the containers;		
b) The "in-house" name and/or code of		
material (if different from a);		
c) Date of receipt;		
d) Supplier's name and, manufacturer's name;		
e) Manufacturer's batch or reference number;		
f) Total quantity and number of containers		

received; g) The batch number assigned after receipt; h) Any relevant comment. 4.24 There should be written procedures for the internal labeling, quarantine and storage of starting materials, packaging materials and other materials, as appropriate. Sampling 4.25 There should be written procedures for sampling, which include the methods and equipment to be used, the amounts to be taken and any precautions to be observed to avoid contamination of the material or any deterioration in its quality. Testing 4.26 There should be written procedures for testing materials and products at different stages of manufacture, describing the methods and equipment to be used. The tests performed should be recorded.		
4.27 Written release and rejection procedures should be available for materials and products,	4.24-Z Er is een schriftelijke procedure voor de vrijgifte en afkeur van materialen en producten	
and in particular for the certification for sale of the finished product by the Qualified	door de verantwoordelijke ziekenhuisapotheker	
Person(s). All records should be available to the Qualified Person. A system should be in		
place to indicate special observations and any changes to critical data		
4.28 Records should be maintained for the distribution of each batch of a product in order	GMP	
to facilitate recall of any batch, if necessary. 4.29 There should be written policies,		
procedures, protocols, reports and the		
associated records of actions taken or conclusions reached, where appropriate, for		
the following examples:		
- Validation and qualification of processes,		
equipment and systems; - Equipment assembly and calibration;		
Equipment assembly and calibration,		

- Technology transfer;
- Maintenance, cleaning and sanitation;
- Personnel matters including signature lists, training in GMP and technical matters, clothing and hygiene and verification of the effectiveness of training.
- Environmental monitoring;
- Pest control;
- Complaints;
- Recalls:
- Returns:
- Change control;
- Investigations into deviations and nonconformances:
- Internal quality/GMP compliance audits;
- Summaries of records where appropriate (e.g. product quality review);
- Supplier audits.
- 4.30 Clear operating procedures should be available for major items of manufacturing and test equipment.
- 4.31 Logbooks should be kept for major or critical analytical testing, production equipment, and areas where product has been processed. They should be used to record in chronological order, as appropriate, any use of the area, equipment/method, calibrations, maintenance, cleaning or repair operations, including the dates and identity of people who carried these operations out.
- 4.32 An inventory of documents within the Quality Management System should be maintained.