BE AWARE

Tool for visual inspection of medicines

A checklist for visual inspection of medicines in order to identify suspicious products for further examination.

This tool is designed to help health professionals carry out a visual inspection of medicines for signs of counterfeiting such as improper packaging, labelling, description of dosage, etc. All suspicious drugs with incorrect labels, missing information about the strength, dosage, or expiration date should be reported to the appropriate authority.



1. Packaging

Any drug should be packaged in a container, which can be anything from a glass bottle to a blister pack, to a tube of glass, plastic or metal. A folding carton bearing the label very often protects the container. Check the type of packaging and compare it to known containers for the same drug from the same manufacturer. The packaging and the labelling of pharmaceutical products is a very complex and expensive business. Thus, the process and the quality of packaging material are very difficult to counterfeit. This is why a thorough visual inspection could be an important screening step for drug quality control. However, producers of counterfeit drugs are quick to copy special labelling and holograms.

	Yes	No	Other observations
1.1 Container and closure			
Do the container and closure protect the drug from the outside environment e.g. properly sealed?			
Do they assure that the drug will meet the proper specifications throughout its shelf life?			
Are the container and the closure appropriate for the drug inside?			
Is the container safely sealed?			
1.2 Label The information written on the label is ver label adhered to the container, or printed directly on legible and indelible.			•
If there is a carton protecting the container, does the label on the carton match the label on the container?			
Is all information on the label legible and indelible?			
1.2.1 The trade name			
Is the trade name spelled correctly?			
Is the drug (trade name) registered in the country by the DRA (drug regulatory authority)?			
Is the drug legally sold in the country?			
Does the symbol ® follow the trade name?			
1.2.2 The active ingredient name (scientific name)			
Is the active ingredient name spelled correctly?			
Do the trade name and the active ingredient name correspond to the registered drug?			
1.2.3 The manufacturer's name and logo			
Are the manufacturer's name and logo legible and correct?			
Does the logo or hologram (if applicable) look authentic?			
Does it change colour when viewed from different angles?			
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	Yes	No	Other observations
1.2.4 The manufacturer's full address All manufacturer their complete address on the label. Many companies have a traceable address on the label.		-	•
Is the manufacturer's full address legible and correct?			
Has the company or its agent registered the drug in the country?			
1.2.5 The drug strength (mg/unit)			
Is the strength - the amount of active ingredient per unit - clearly stated on the label?			
1.2.6 The dosage form (e.g., tablet/capsule)			
Is the dosage clearly indicated?			
Is the indicated drug under this dosage form is registered and authorized for sale in the country?			
1.2.7 The number of units per container			
Does the number of tablets listed on the label match the number of tablets stated on the container?			
1.2.8 The batch (or lot) number Drugs under the same in a continuous process, a batch corresponds to a de or quantity. Drugs from the same batch number show processing, packing, and coding. All drug quality continuous processing.	fined puld have	ortion o	of the production, based on time nme history of manufacturing,
Does the numbering system on the package correspond to that of the producing company?			
1.2.9 The date of manufacture and the expiry date any circumstances.	An exp	red dru	ig should not be sold under
Are the manufacture and expiry dates clearly indicated on the label?			
1.3 Leaflet or package insert All drug packages sho content, the adverse affects, the drug actions, and ho are where the packaging includes all the information is the package insert printed on the same coloured or same quality paper as the original?	w the c	rug sho	ould be taken. The only exceptions
Is the ink on the package insert or packaging smudge-proof?			

2. Physical characteristics of tablets/capsules

All types of medicines can be and have been counterfeited from cough syrups to injections. As mentioned in Section 1, it is important to check the packaging of these drugs. Additionally, medicines in the form of tablets or capsules can be checked for signs of moisture, dirty marks, abrasion erosion, cracks, or any other adulteration.

	Yes	No	Other observations
2.1 Uniformity of shape			
Are the tablets/capsules uniform in shape?			
2.2 Uniformity of size			
Are the tablets/capsules uniform in size?			
2.3 Uniformity of colour			
Are the tablets/capsules uniform in colour?			
2.4 Uniformity of texture Tablets can be film-coate	ed, suga	ar-coate	ed or enteric-coated.
Do the tablets have a uniform coating?			
Is the base of the tablets fully covered?			
Are the tablets uniformly polished, free of powder, and non-sticking?			
2.5 Markings (scoring, letters, etc)			
Are markings uniform and identical?			
2.6 Breaks, Cracks and Splits			
Are the tablets/capsules free of breaks, cracks, splits or pinholes?			
2.7 Embedded surface spots or contamination			
Are the tablets/capsules free of embedded surface spots and foreign particle contamination?			
2.8 Presence of empty capsules in the case of a s	ample	of caps	ules
Is the sample examined free of empty capsules?			
2.9 Smell			
Does the medicine smell the same as the original?			

Reporting counterfeit medicines

If, after carrying out the above visual inspection, you suspect you have discovered a counterfeit medicine, you should report this immediately to your local health authority. Alternatively, you can contact WHO's Department of Quality Assurance and Safety of Medicines (QSM):

Quality Assurance and Safety of Medicines (QSM)
Department of Essential Medicines and Policy (EDM)
World Health Organization, CH-1211 Geneva 27, Switzerland
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