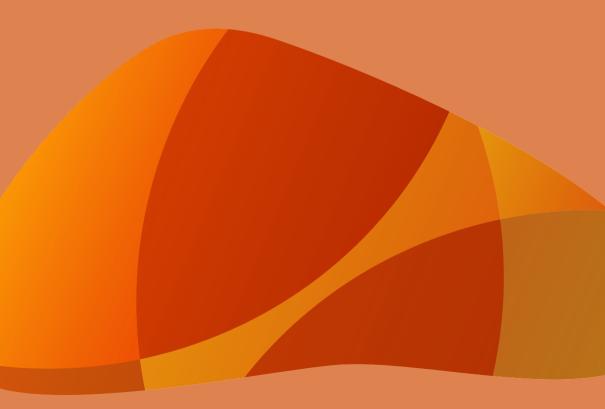


GUIDELINES ON HEPATITIS B AND C TESTING

FEBRUARY 2017







GUIDELINES ON HEPATITIS B AND C TESTING

FEBRUARY 2017

GUIDELINES

WHO guidelines on hepatitis B and C testing

ISBN 978-92-4-154998-1

© World Health Organization 2017

Some rights reserved. This work is available under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 IGO licence (CC BY-NC-SA 3.0 IGO; https://creativecommons. org/licenses/by-nc-sa/3.0/igo).

Under the terms of this licence, you may copy, redistribute and adapt the work for noncommercial purposes, provided the work is appropriately cited, as indicated below. In any use of this work, there should be no suggestion that WHO endorses any specific organization, products or services. The use of the WHO logo is not permitted. If you adapt the work, then you must license your work under the same or equivalent Creative Commons licence. If you create a translation of this work, you should add the following disclaimer along with the suggested citation: "This translation was not created by the World Health Organization (WHO). WHO is not responsible for the content or accuracy of this translation. The original English edition shall be the binding and authentic edition".

Any mediation relating to disputes arising under the licence shall be conducted in accordance with the mediation rules of the World Intellectual Property Organization.

Suggested citation. WHO guidelines on hepatitis B and C testing. Geneva: World Health Organization; 2017. Licence: CC BY-NC-SA 3.0 IGO.

Cataloguing-in-Publication (CIP) data. CIP data are available at http://apps.who.int/iris.

Sales, rights and licensing. To purchase WHO publications, see http://apps.who.int/ bookorders. To submit requests for commercial use and queries on rights and licensing, see http://www.who.int/about/licensing.

Third-party materials. If you wish to reuse material from this work that is attributed to a third party, such as tables, figures or images, it is your responsibility to determine whether permission is needed for that reuse and to obtain permission from the copyright holder. The risk of claims resulting from infringement of any third-party-owned component in the work rests solely with the user.

General disclaimers. The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by WHO in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by WHO to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall WHO be liable for damages arising from its use.

Printed in China

Design and layout: blossoming.it

CONTENTS

ACKNO	WLEDGEMENTS	х	
ABBRE	VIATIONS AND ACRONYMS	xiv	
GLOSS	GLOSSARY OF TERMS		
EXECU	TIVE SUMMARY	xxi	
SUMM	ARY ALGORITHMS	xxvi	
SUMM	ARY OF RECOMMENDATIONS	xxvii	
	1: BACKGROUND RODUCTION	1 2	
 1.1. 1.2. 1.3. 1.4. 1.5. 1.6. 	Current challenges in viral hepatitis testing Goals of viral hepatitis testing Why are testing guidelines needed? Goals and objectives of the guidelines Scope of the guidelines Target audience	2 3 4 5 5 6	
 1.7. 2. GUII 2.1. 2.2. 2.3. 2.4. 	Related WHO materials and guidelines DING PRINCIPLES Promoting human rights and equity in access to hepatitis testing The public health approach along the continuum of care The WHO "5 Cs" Accurate testing	6 8 8 9 9	
 3. MET 3.1. 3.2. 3.3. 3.4. 3.5. 3.6. 	HODOLOGY AND PROCESS OF DEVELOPING THE GUIDELINES WHO guideline development process Systematic reviews and additional background work Grading of quality of evidence and strength of recommendations Formulation of recommendations Declaration and management of conflicts of interest Updating, disseminating and monitoring implementation of the guidelines	10 10 11 14 15 15	
4.1. 4.1.1. 4.1.2. 4.1.3. 4.1.4. 4.1.5.	KGROUND – EPIDEMIOLOGY AND NATURAL HISTORY Hepatitis B infection Epidemiology of hepatitis B infection Transmission of hepatitis B infection Natural history of HBV infection Time course and interpretation of serological markers of HBV infection Preventing hepatitis B infection through vaccination Treatment of hepatitis B infection	16 19 20 20 21 24 24	

4.2.2. 4.2.3. 4.2.4. 4.2.5.	Hepatitis C infection Epidemiology of hepatitis C infection Transmission of hepatitis C infection Natural history of hepatitis C infection Time course of serological markers for HCV infection Prevention of hepatitis C infection Treatment of hepatitis C infection	24 25 27 27 28 28
5. BAC	KGROUND – DIAGNOSTICS FOR TESTING FOR HEPATITIS B AND C INFECTION	30
5.1.	Types of viral hepatitis assays	30
5.2 5.3.	Serological assays	30 31
5.3. 5.4.	Nucleic acid testing (NAT) technologies Choice of serological assays	32
5.5.	Selection of a one or two assay serological testing strategy	32
PART	2: RECOMMENDATIONS	35
6. WHC	TO TEST FOR CHRONIC HEPATITIS B OR C INFECTION	
	esting approaches and service delivery	36
6.1. 6.2.	Recommendations	36
	Background	38
6A TES 6.3.	STING APPROACHES TO DETECT CHRONIC HEPATITIS B	40
6.4.	Summary of the evidence Rationale for the recommendations	40 41
	STING APPROACHES TO DETECT CHRONIC HEPATITIS C	45
6.5.	Summary of the evidence	4 5
6.6.	Rationale for the recommendations	46
6C SEF	RVICE DELIVERY OF HEPATITIS B AND C TESTING	49
6.7.	Rationale for the recommendations on community-based testing	49
6.8.	Rationale for the recommendations on facility-based testing	50
6.9.	Implementation considerations for HBV and HCV testing approaches	51
	TO TEST FOR CHRONIC HEPATITIS B INFECTION	
- с 7.1.	hoice of serological assay and testing strategy Recommendations	52 52
7.1.	Background	53
7.3.	Summary of the evidence	54
7.4.	Rationale for the recommendations on which assay to use	57
7.5.	Rationale for the recommendations on testing strategy	59

8. HO\	W TO TEST FOR CURRENT OR PAST HCV INFECTION (HCV EXPOSURE)	
- 0	choice of serological assay and testing strategy	61
8.1.	Recommendations	61
8.2.	Background	62
8.3.	Summary of the evidence	62
8.4.	Rationale for the recommendations on which assay to use	65
8.5.	Rationale for the recommendation for a one-serological assay testing strategy	67
8.6.	Implementation considerations for HBsAg and HCV antibody serological testing	68
9. DET	FECTION OF VIRAEMIC HBV INFECTION – to guide who to treat or not treat	70
9.1.	Recommendation	70
9.2.	Background	72
9.3.	Rationale for the recommendations (WHO 2015 HBV guidelines)	72
9.4.	Implementation considerations	73
10. M	ONITORING FOR HBV TREATMENT RESPONSE AND DISEASE PROGRESSION	74
10.1.	Recommendations	74
10.2.	Background – goals of monitoring	74
10.3.	Rationale for the recommendations (WHO 2015 HBV guidelines)	75
10.4.	Implementation considerations	76
	ETECTION OF VIRAEMIC HCV INFECTION – to guide who to treat	77
11.1.	Recommendations	77
11.2.	Background	77
11.3.	Summary of the evidence	78
11.4.		80
11.5.	Implementation considerations	81
	SSESSMENT OF HCV TREATMENT RESPONSE	83
12.1.	Recommendation	83
12.2.	5	83
12.3. 12.4.	Summary of the evidence Rationale for the recommendations	83 84
12.4. 12.5.		85
	Implementation considerations	60
	SE OF DRIED BLOOD SPOT SPECIMENS FOR SEROLOGICAL	~ ~
		86
13.1.	Recommendations	86 86
13.2. 13.3.	Background Summary of the evidence	86 87
13.4.	Rationale for the recommendations	89
13.5.	Implementation considerations	92

	IPROVING THE UPTAKE OF TESTING AND LINKAGE TO CARE		
A	ND PREVENTION	95	
14.1.	Recommendations	95	
14.2.	Background	95	
14.3.		96	
14.4.	Rationale for the recommendations	98	
14.5.	Implementation considerations	100	
	3: IMPLEMENTATION	101	
	IPLEMENTING LABORATORY TESTING SERVICES FOR VIRAL HEPATITIS	102	
15.1.	Key elements for national testing services	102	
15.2.	National framework for viral hepatitis testing	103	
15.3.	Building capacity for testing services	104	
15.4. 15.5.	Product selection Assuring the quality of testing services	106 109	
15.5. 15.6.	Assuring the safety of testing services	109	
15.7.	Other practical considerations for testing	111	
	RE-TEST AND POST-TEST COUNSELLING	114 114	
16.1. 16.2.	Promoting testing awareness	114 115	
16.2. 16.3.	Creating an enabling environment The WHO 5 "Cs"	115	
16.4.	Providing pre-test information	115	
16.5.	Post-test counseling and services	117	
	ERVICE DELIVERY APPROACHES TO VIRAL HEPATITIS TESTING		
	examples from the field	119	
17.1.	Health-care facility-based testing	120	
17.2.		123	
17.3.	,	127	
17.4.	Diagnostic innovations to promote access to testing	130	
18. TE	18. TESTING ISSUES IN SPECIFIC POPULATIONS		

预览已结束, 完整报告链接和二维码如下:



https://www.yunbaogao.cn/report/index/report?reportId=5_26564