

AMR STG MOBILE APP USER MANUL

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STG MOBILE APP USER MANUAL

Design and Development of Infectious Disease Standard Treatment Guideline Mobile Application for the Communicable Disease Control Program, DGHS, MoHFW, Bangladesh



June 2024 Version 1.2

REVISION HISTORY

Date	Version	Description	Author
11-05-2022	1.0	Drafted the first version.	JBRSOFT
10-12-2022	1.1	Revised version	JBRSOFT
03-06-2024	1.2	Added cover image	JBRSOFT

ACRONYMS AND ABBREVIATIONS

STG	Standard Treatment Guideline
API	Application Programming Interface
MTaPS	Medicines, Technologies, and Pharmaceutical Services
DGHS	Directorate General of Health Services
CDC	Communicable Disease Control
WHO	World Health Organization

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INTRODUCTION

1.1 About the Project

MTaPS/Bangladesh supported CDC, DGHS for developing national STGs for common infectious diseases. In Bangladesh, MTaPS first reviewed the common disease patterns in the country to identify the important infectious diseases based on their burden. CDC, DGHS established a small core working group, MTaPS assisted to formulate a methodology for developing the STGs with common infectious diseases and antibiotics list based on the last three editions 2016, 2017, and 2018 of Health Bulletins and existing hospital antibiotic guidelines and incorporate in WHO AWaRe classification. Then the template was distributed to a core working group comprising experts from different disciplines to designate their present practices of both preferred and alternative drugs according to WHO AWaRe classification for the treatment of included infectious diseases and STG developed. Finally, all chapters are reviewed by different senior professional associations. Then CDC, DGHS finalized the STG.

MTaPS will support CDC, DGHS to develop a publicly available web-based platform to facilitate dissemination of AMR information, and an app version of the STG in accordance with the developed STG for common infectious diseases, also transforming from mobile phone app to nationally recognized STG app and building capacity of practitioners to increase the use of WHO AWaRe classification.

1.2 Objectives

This mobile app will help on the following areas:

- To recommend treatment for common clinical infections requiring antibiotic therapy.
- To promote "AWaRe" classification and approach at all levels before prescribing an antibiotic.
- To promote rational use of antibiotics.
- To serve as a tool of antimicrobial stewardship in the hospitals.

1.3 Users

• BMDC Registered MBBS and BDS doctors from different hospitals, diagnostic centers and laboratories.

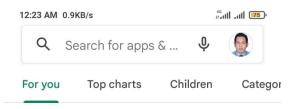
1.4 Offline compatibility

This app will work both online and offline. You must have an internet connection to register and login. The app will download all of the content and make it available for offline access while you are logged in.

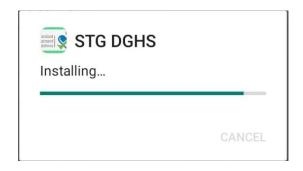
INSTALLATION AND CONFIGURATION

2.1 Download and Installation

Search for 'stg mobile app' in the Google Play Store (play.google.com). Double-click to download and install the app.

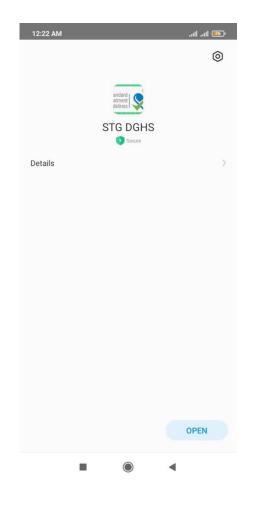


Once you double click it will start installation process:



Note: When installing an app on your phone, you may be asked for permission to do so.

Complete Installation:



After you've installed the app, you'll get the following screen for logging in and creating an account.

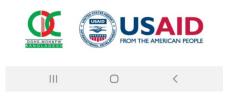


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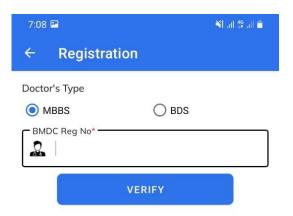








2.2 Account creation: If you are a new user, click the red 'Register Now' text to see the following verification window; otherwise, click the Login button to login with your existing access credentials.



For verification, you should now submit your BMDC/BDS registration number. Click the "VERIFY" button after entering the registration number. If your registration number is valid and verified, you'll see the registration screen below.

÷	18:33 🖸 Registration	n	•20
Ooctor's Type O MBBS BDS			
2	BMDC Reg No	*	
	V	'ERIFY	
8	Full Name*		
	Date	e of Birth	
() м	ale	O Female	
198	Designation*		
Select	Department*		
Sele	ect Department		•
	Institution*		
	Mobile*		
iΞ	PDS Code		
	\triangleleft	0	

You won't have to type your name because you'll be able to see it only. Fill in the following details:

- Full name
- Date of birth
- Sex
- Designation: Enter your current job title.
- Department: Pick a department to work in.
- Current affiliation: Specify your current affiliation.
- Mobile: Type in your 11-digit phone number.
- Division: Select a division to get a list of districts within that division.
- District: Select a district, and upazilas will appear under that district.
- Upazila: Choose an Upazila.
- Username as Email: As the app's username, type your email address.
- Password: Use a secure password.

If you provide an invalid registration number, you will see the following message:

Doctor's Type	0.000	
MBBS BMDC Reg No*	O BDS	ר
8765222	8	
	VERIFY	
× Invalid B	MDC Registration Number	

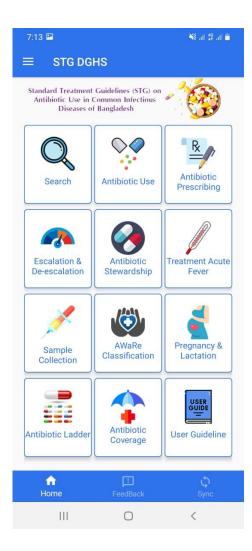
2.3 Login: After successfully creating your account, it will redirect to the login window.



It will successfully log you in if you enter the correct username as email, and password, otherwise it will show you invalid access credentials.

2.4 Dashboard: Once you've successfully logged in, you'll see the dashboard below. The dashboard is composed of the following elements:

- Search: You can search disease and infection details.
- Antibiotic use: It will provide you the ...
- Antibiotic prescribing:
- Escalation and De-escalation:
- Antibiotic stewardship:
- Treatment acute fever:
- Sample collection:
- AWaRe Classification:
- Pregnancy & lactation:
- Antibiotic ladder:
- Antibiotic coverage:



INFORMATION USE

3.1 Keyword searching: To search for keywords, go to the Dashboard and click the 'Search' box. If you type any text into the search box, the results will appear immediately. See the final results by clicking on the appropriate search result.

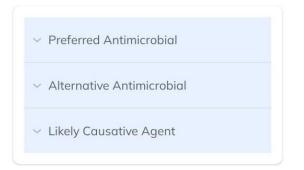
O Disease	Infection Category
n	nen
Bacterial Meningitis CNS Infections	
Meningitis [Post neu Penetrating head tr CNS Infections	
Meningitis [with bas CNS Infections	silar skull fractures]
Bacterial Meningitis infant [Paediatrics] Infections in Paedia	in Children and Young trics

The search results will be displayed on the next screen, which will include the following sections:

• Preferred Antimicrobials: Access, Watch, and Reserve are the three categories of preferred antimicrobials.

• Alternative Antimicrobials: Alternative antimicrobials are divided into three categories: Access, Watch, and Reserve.

• Likely causative agent: This panel contains information about the likely causative agent.



The Preferred Antimicrobial tab will be expanded by default, and you can access the other tabs by clicking on them.

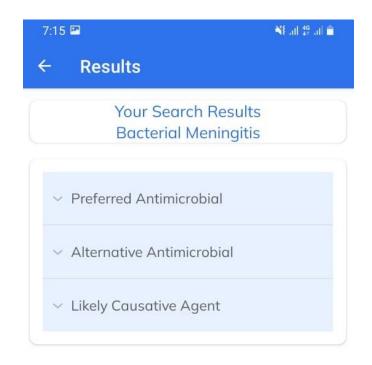
7:14 🖼 📲	¥€ .ul ∯ .ul 🔒	
← Results		
Your Search Results Bacterial Meningitis		
 Preferred Antimicrobial 		
Preferred Access		
•Penicillin G 20MU IV 4 hourly •Gentamicin 1mg/kg IV 8 hourly for 14 days Or, •Amikacin 0.5- 1 gram IV 8-12 hourly Duration: 14 days		
Preferred Watch		
•Ceftriaxone (2gm) 12 hourly IV for 14 days Or, •Cefotaxime (2gm) IV 6 hourly		
Patients with a clear history of anaphylaxis to Beta lactams:		
•Vancomycin (1gm) IV 12 hourly Plus •Chloramphenicol (25mg/kg) IV 6 hourly (Acces	ss)	
Preferred Reserve		
Alternative Antimievebial		
III O <		

3.2 Specific disease search

If you want to search for Antimicrobials more specifically, select the Infection radio box, and the following list of infection type and diseases will appear.

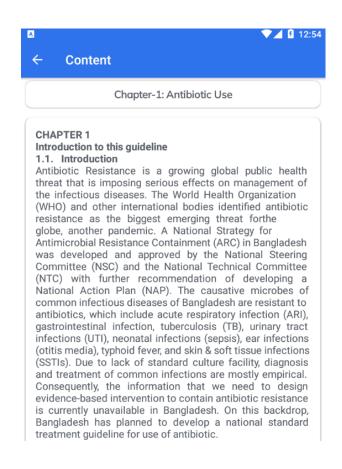
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← Search Ant	ibacterial Treatment	
O Disease	Infection	
CNS Infections	•	
Bacterial Meningitis	•	
Find Antibiotic		

Select the type of infection and disease, then click the Find Antibiotic button. The end result is as follows:



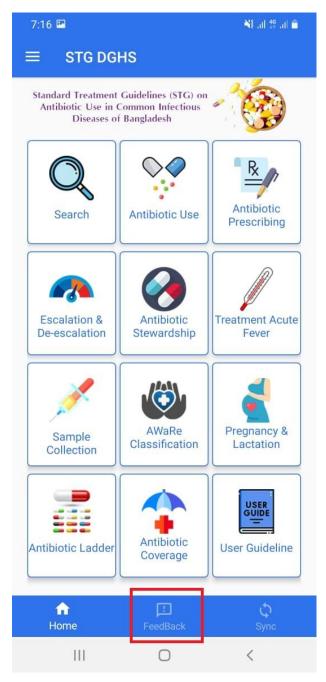
7:16 🖻	🃲 all 👯 all 🗎
← Results	
Your Search Results Bacterial Meningitis	
 Preferred Antimicrobial 	
Preferred Access	
 Penicillin G 20MU IV 4 hourly Gentamicin 1mg/kg IV 8 hourly for 14 c Or, Amikacin 0.5- 1 gram IV 8-12 hourly Duration: 14 days 	lays
Preferred Watch	
•Ceftriaxone (2gm) 12 hourly IV for 14 d Or, •Cefotaxime (2gm) IV 6 hourly	ays
Patients with a clear history of anaphyla Beta lactams:	axis to
•Vancomycin (1gm) IV 12 hourly Plus •Chloramphenicol (25mg/kg) IV 6 hourly	(Access)
Preferred Reserve	
. Alternative Astimicrobial	
III O	<

If you want to see the details of chapter, then click the other icons from dashboard except "Search" and "User Guideline".

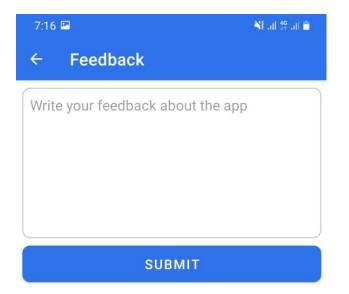


CHAPTER-4: USER PROFILE AND DATA SYNCHRONIZATION

4.1 User feedback: The bottom Feedback option on the app allows you to submit feedback.



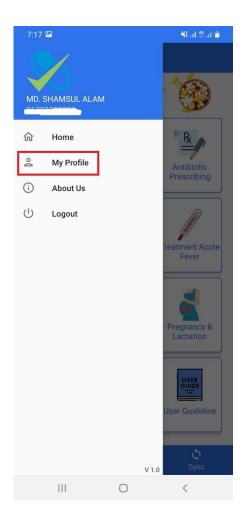
Click on the Feedback Menu and write your feedback:



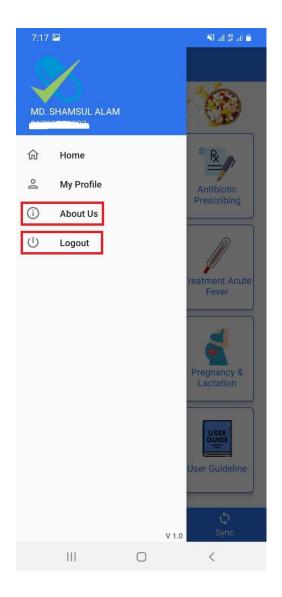
4.2 Content synchronization: By selecting Sync from the bottom menu, you can sync updated content. When you click on the menu, an alert will appear. Click Yes to update the contents of your app.

7:16 🖭		🕷 .al 🕸 .al 🗎		
\equiv STG DG	HS			
Antibiotic Use in (Guidelines (STG) on Common Infectious í Bangladesh	- '@		
Search	Antibiotic Use	Antibiotic Prescribing		
Update Do you really want to Update Data ?				
		NO YES		
Sample Collection	AWaRe Classification	Pregnancy & Lactation		
Antibiotic Ladder	Antibiotic Coverage	User Guideline		
Home	FeedBack	Ç Sync		
Ш	0	< Y		

4.3 Profile update: From the 'My Profile' drawer on the left side, you can update your profile at any moment.



4.4 About and Logout: You may learn more about the app and the team that works to enhance it. From the left sidebar, you can log out.



CONCLUSION

This guideline will assist users in using the STG mobile application by ensuring that standard procedures are followed.

If you need any technical assistance with the AMR portal, please email us at

management[@]jbrsoft.com.