



Ministry of Health, Lao PDR.
Food and Drug Department



Antimicrobial Consumption (AMC) monitoring in Lao PDR

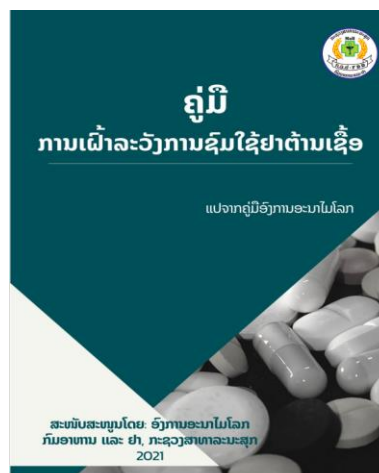
**Dr. Davone Duangdany, Chief of Drug and Medical
Device Control Division**

Food and Drug Department, MoH Lao PDR

Tel: 021 214 013-4

Fax: 021 214 015

website: www.fdd.gov.la





Ministry of Health, Lao PDR.
Food and Drug Department



Contents

- Background
- Organization Chart and Report System
- Implementation of AMC monitoring
- Some examples on results
- Challenges
- Future Plan



Ministry of Health, Lao PDR.
Food and Drug Department



Background

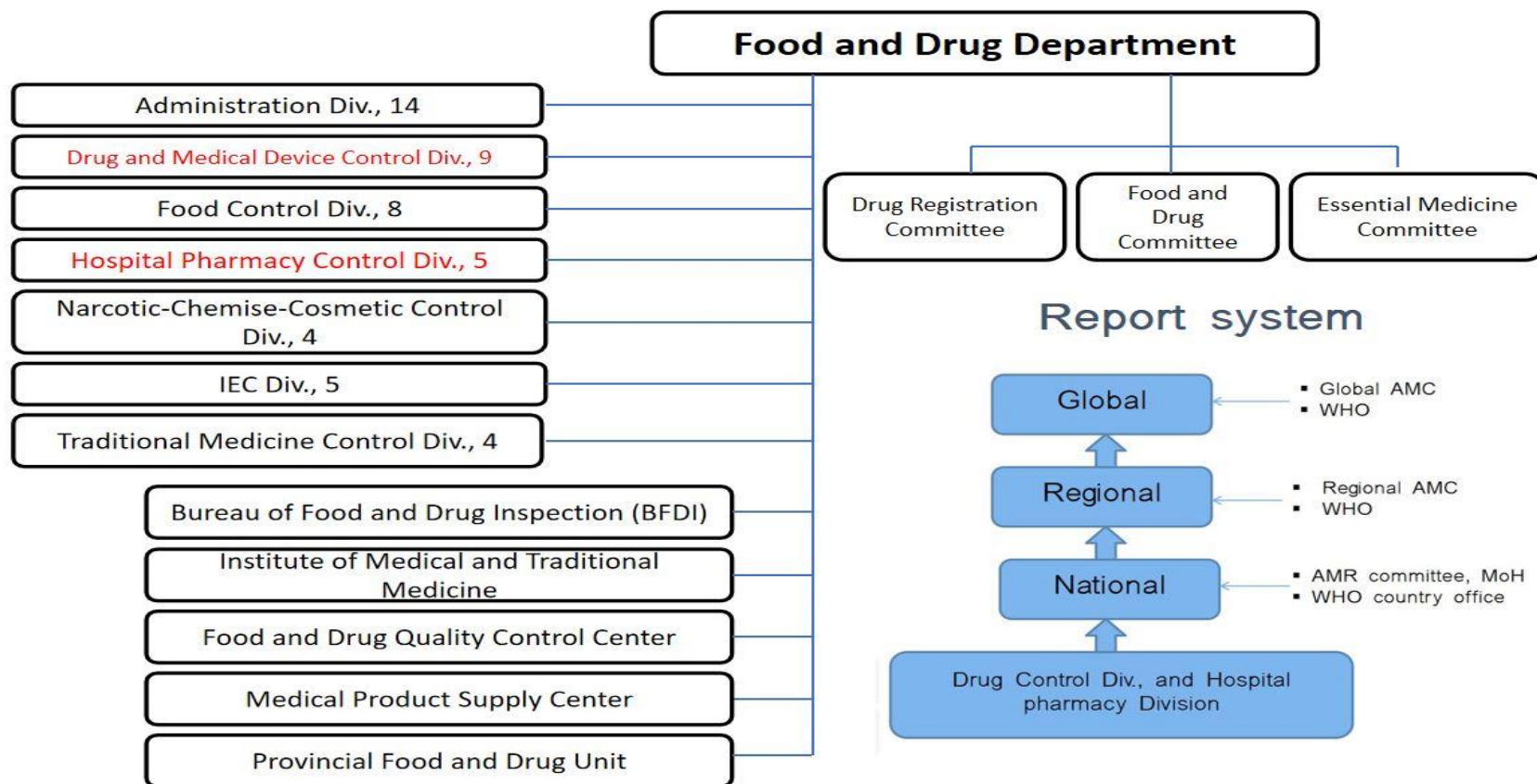
- The National Strategic Plan on AMR in Lao PDR (2019-2023) for AMR surveillance system in Lao PDR includes AMC and AMU
- National AMC Focal Point has been established
- Translation, Dissemination, and Distribution of the AMC Manual and Guidelines
- Provided 1 Computer to each participating hospital
- Main Funded by KOICA/WHO



Ministry of Health, Lao PDR.
Food and Drug Department



Organization Chart and Report System





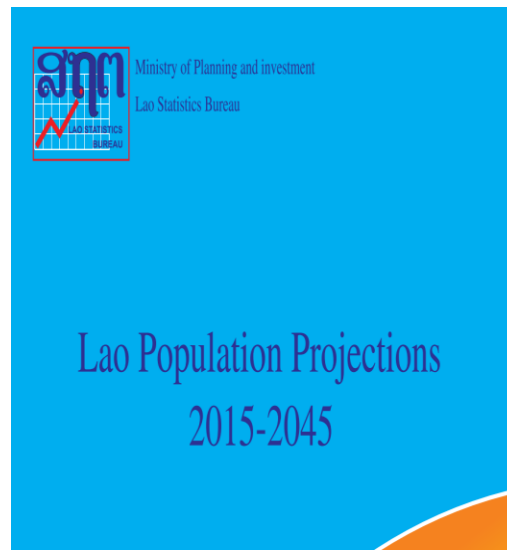
Ministry of Health, Lao PDR.
Food and Drug Department



Implementation of AMC monitoring (National Level)

➤ Data source and Method

- Importation and local production data
- Number of population
- WHO methodology

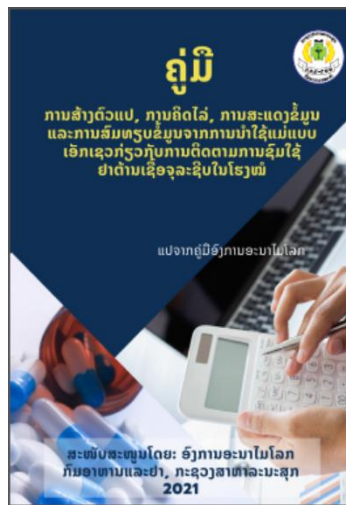




Ministry of Health, Lao PDR.
Food and Drug Department



AMC monitoring tools



<https://www.youtube.com/watch?v=Veya8h7Mwq8&t=79s>

ATC/DDD index	2021
Status	NA
Type of consumption data	Product Substance 1
Validate Consumption	Calculate Consumption
Macro	Availability Data Hospital Structure Hospital Activity Data Product Data Substance Data ATC DDD

AMC Result 2021 Hospital			
Overview			
Total Product	44		
Total Substance	25		
Non EML	14	% Non EML	31.8
Oral Drug	2795	WHO	2795
Inj Drug	2402	WHO	2402
Grand Total	5197	WHO	5197

ROUTE OF ADM. 2021	
Oral	77.11
Inj	22.89
Grand Total	100.0

Non EML	
1	Amoxicillin powder for suspension 250mg/5ml, 60ml
2	Amoxicillin/Clavulanic acid suspension 250mg/12.5mg
3	Amoxicillin/Clavulanic acid suspension 400mg/57mg/5ml
4	Cefixim-Lactic bacillus syrup 100mg/5ml, 60ml
5	Cefixim-Lactic bacillus syrup 50mg/5ml, 30ml
6	Cefotaxime injection 1g
7	Ceftriaxone 1000mg-Subacram 500mg
8	Cefuroxime pvd 125mg
9	Cefuroxime pvd 125mg/100ml
10	Cefuroxime pvd 125mg/5ml, 60ml
11	Cefuroxime pvd 125mg/5ml, 60ml
12	Meropenem injection 1g
13	Penicillin V syrup 100,000 UI/5ml, 60ml
14	Vancomycin injection 500mg



Ministry of Health, Lao PDR.
Food and Drug Department



Implementation of AMC monitoring (Hospital Level)

- First Workshop and training in 2018 to 5 Central Hospitals and 3 Provincial hospitals
- Start to collect National AMC data since 2018
- Conducted Close monitoring and on-site training for all participated sites
- As of 2023, the AMC monitoring training has been completed in all 17 provinces. AMC monitoring is currently conducted in 22 sites (5 central hospitals + 17 provincial hospitals).
- Calculation of AMC data Year 2018, 2019, 2020, 2021 and 2022 have already shared with the WHO WPRO for reporting to GLASS at the global level



Ministry of Health, Lao PDR.
Food and Drug Department



AMC monitoring workshops in South and North Provinces





Ministry of Health, Lao PDR.
Food and Drug Department



Supervision of AMC implementation

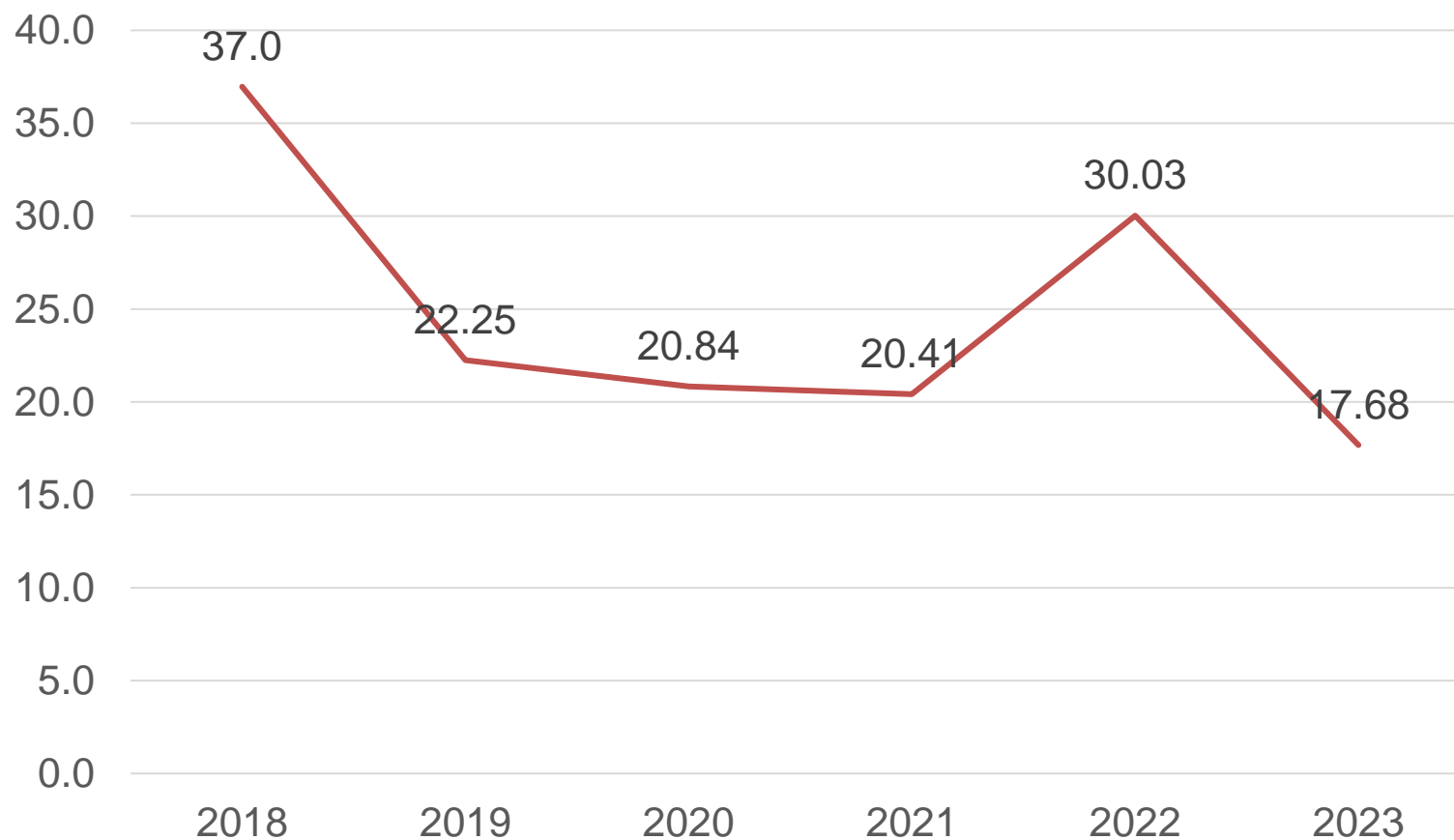




Ministry of Health, Lao PDR.
Food and Drug Department



ການຊົມໃຊ້ຢາ ຕໍ່ປະຊາກອນ 1000 ຄົນ ຕໍ່ວັນ (Define Daily Dose (DDD))/1000/day DID



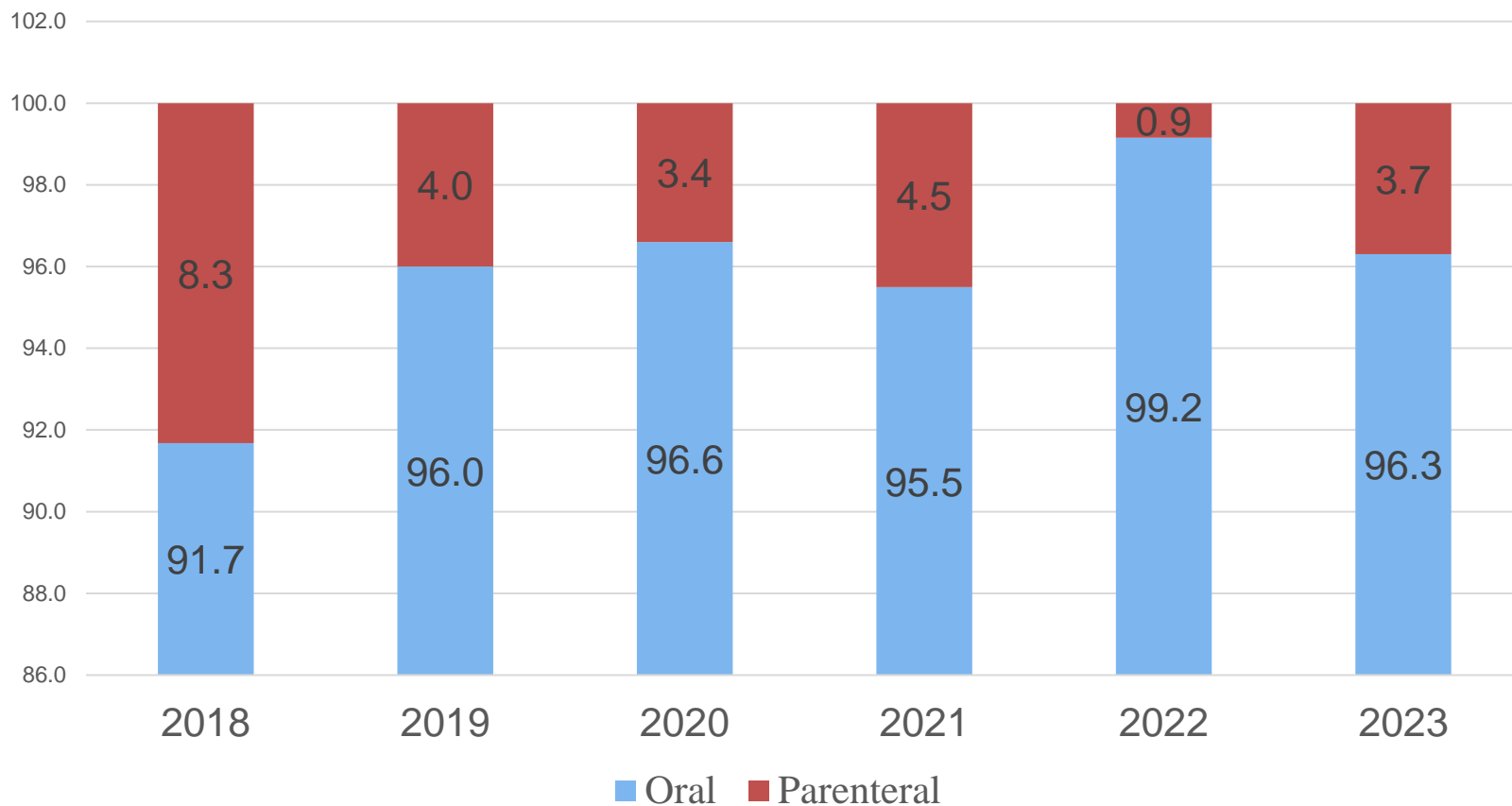


Ministry of Health, Lao PDR.
Food and Drug Department



ເປີເຊັນຮູບແບບຢາຈັດຕາມຊ່ອງທາງການນຳໃຊ້ຢາ Oral ແລະ Parenteral

Route of Adm.

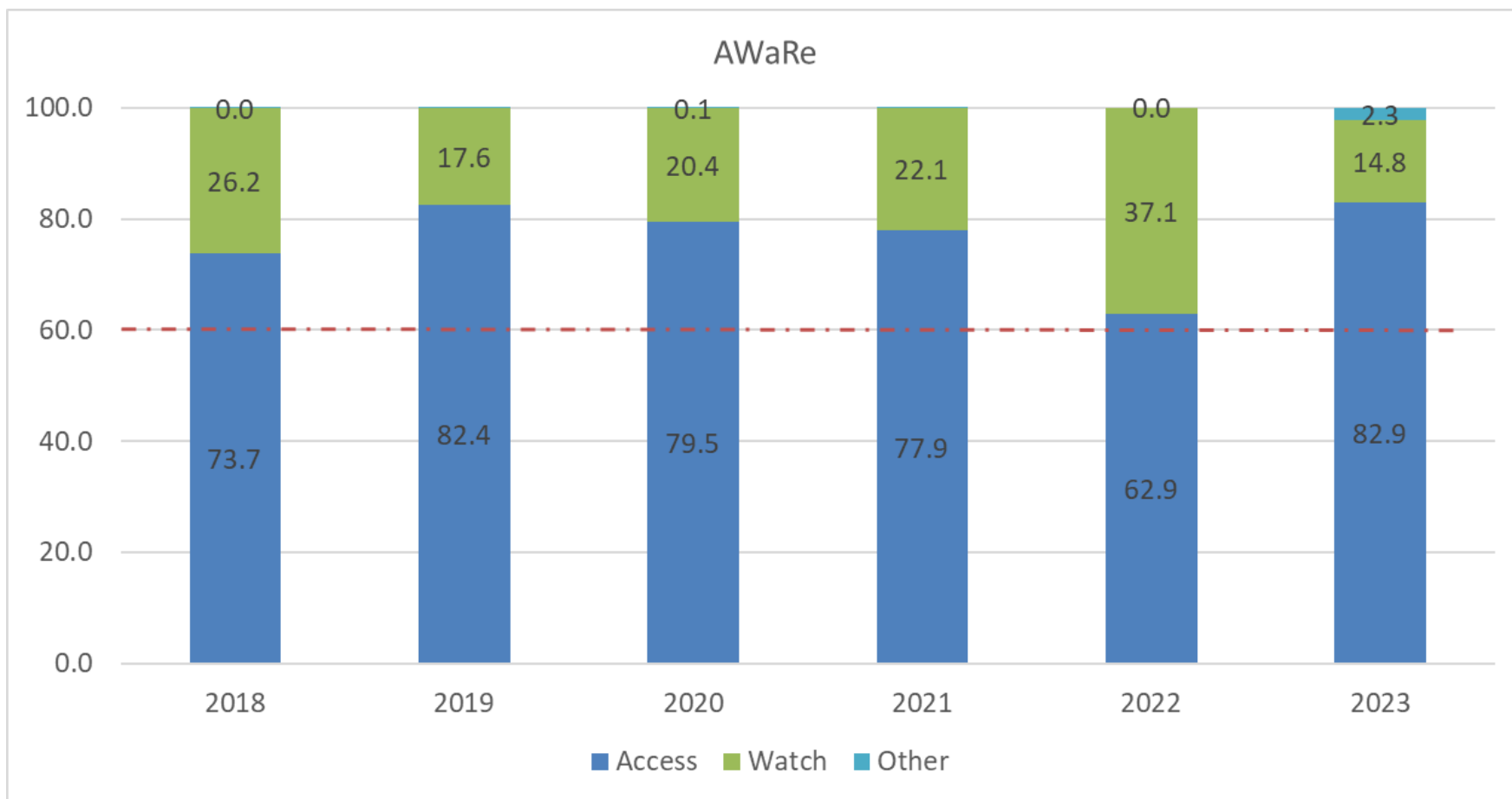




Ministry of Health, Lao PDR.
Food and Drug Department



ເປີເຊັນຕົວຢ່າງທີ່ຈັດຕາມລະດັບການຄຸ້ມຄອງ (Access; Watch; Reserve and Other)



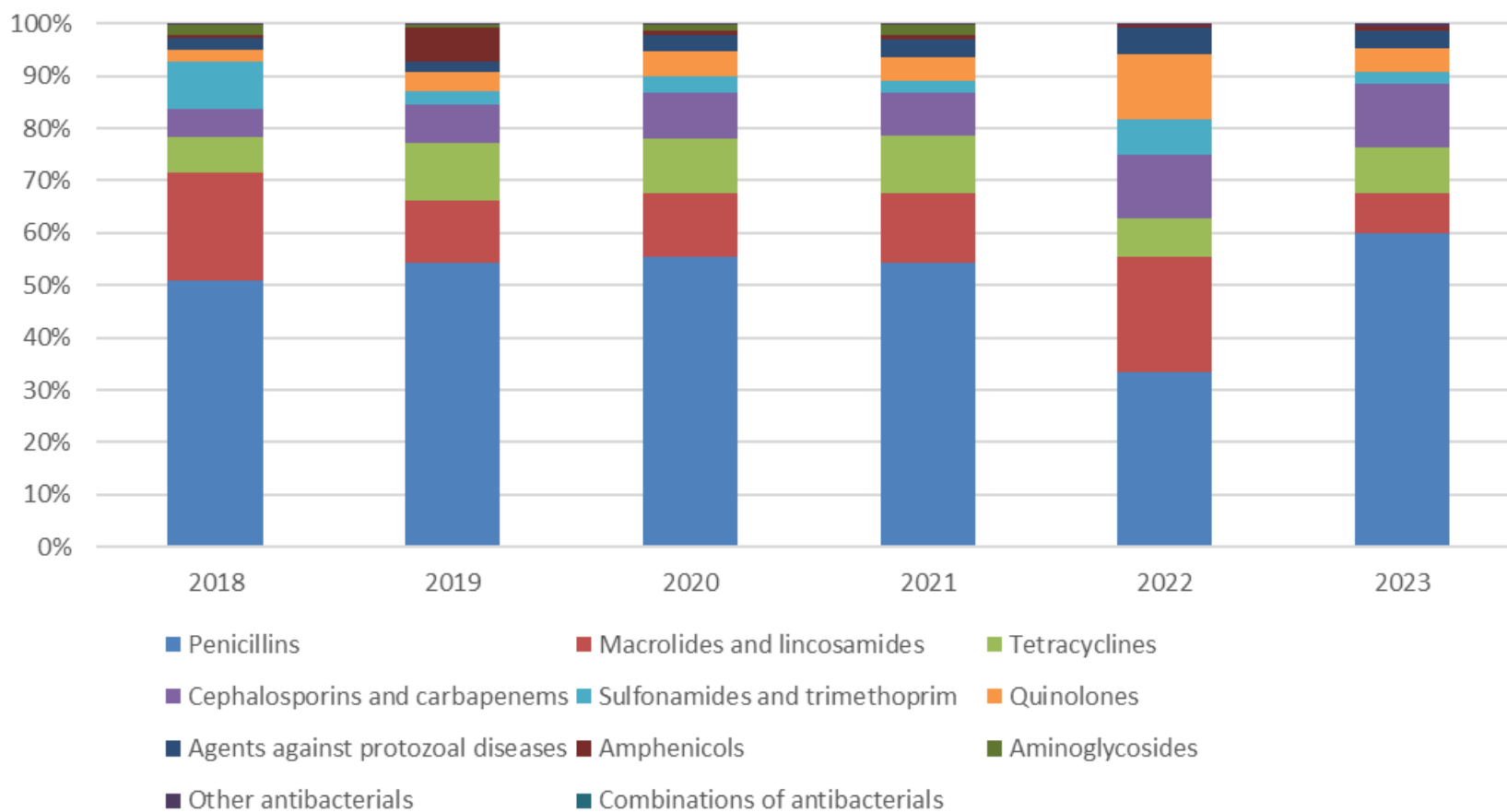


Ministry of Health, Lao PDR.
Food and Drug Department



ການຊົມໃຊ້ຢາ ຕາມກຸ່ມຢາຕ້ານເຊື້ອ

Annual antibiotic consumption rates by class



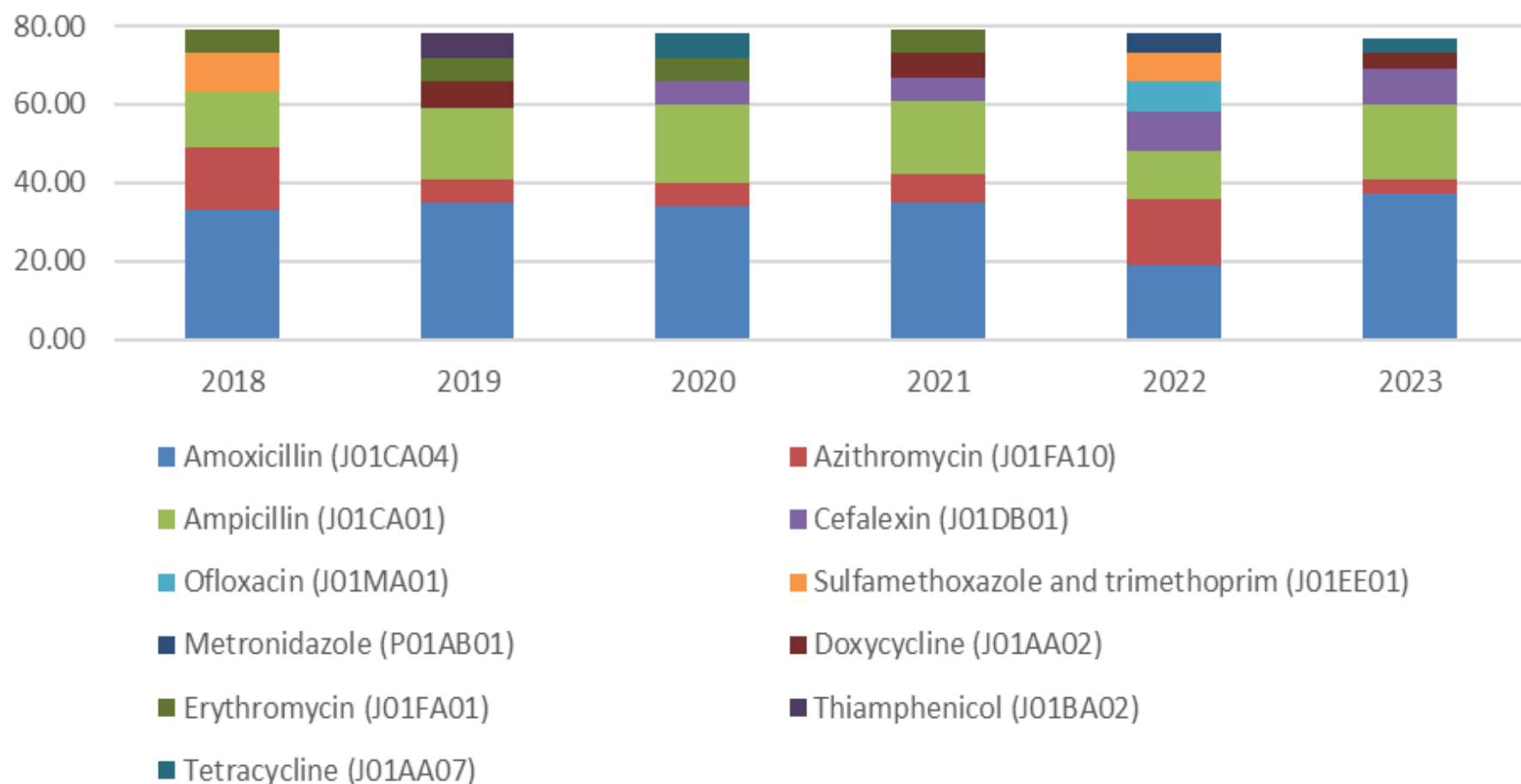


Ministry of Health, Lao PDR.
Food and Drug Department



ການຊົມໃຊ້ຢາຕ້ານເຊື້ອປະຈຳປີ ໂດຍແບ່ງຕາມຕົວຢາກິນ

DU75 of the oral administration (%)



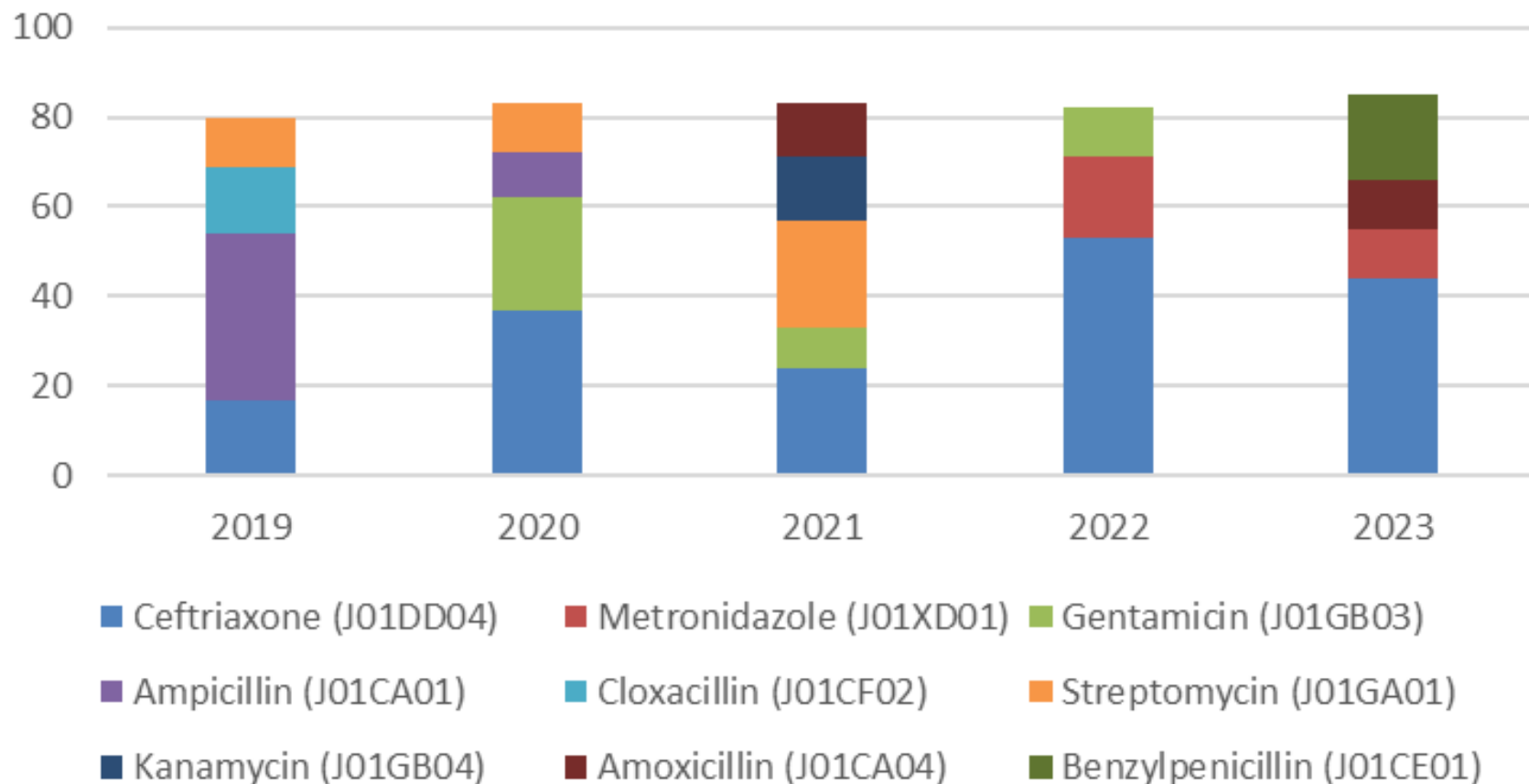


Ministry of Health, Lao PDR.
Food and Drug Department



ການຊົມໃຊ້ຢາຕ້ານເຊື້ອປະຈຳປີ ໂດຍແບ່ງຕາມຕົວຢາສັກ

DU75 of the Parenteral administration (%)



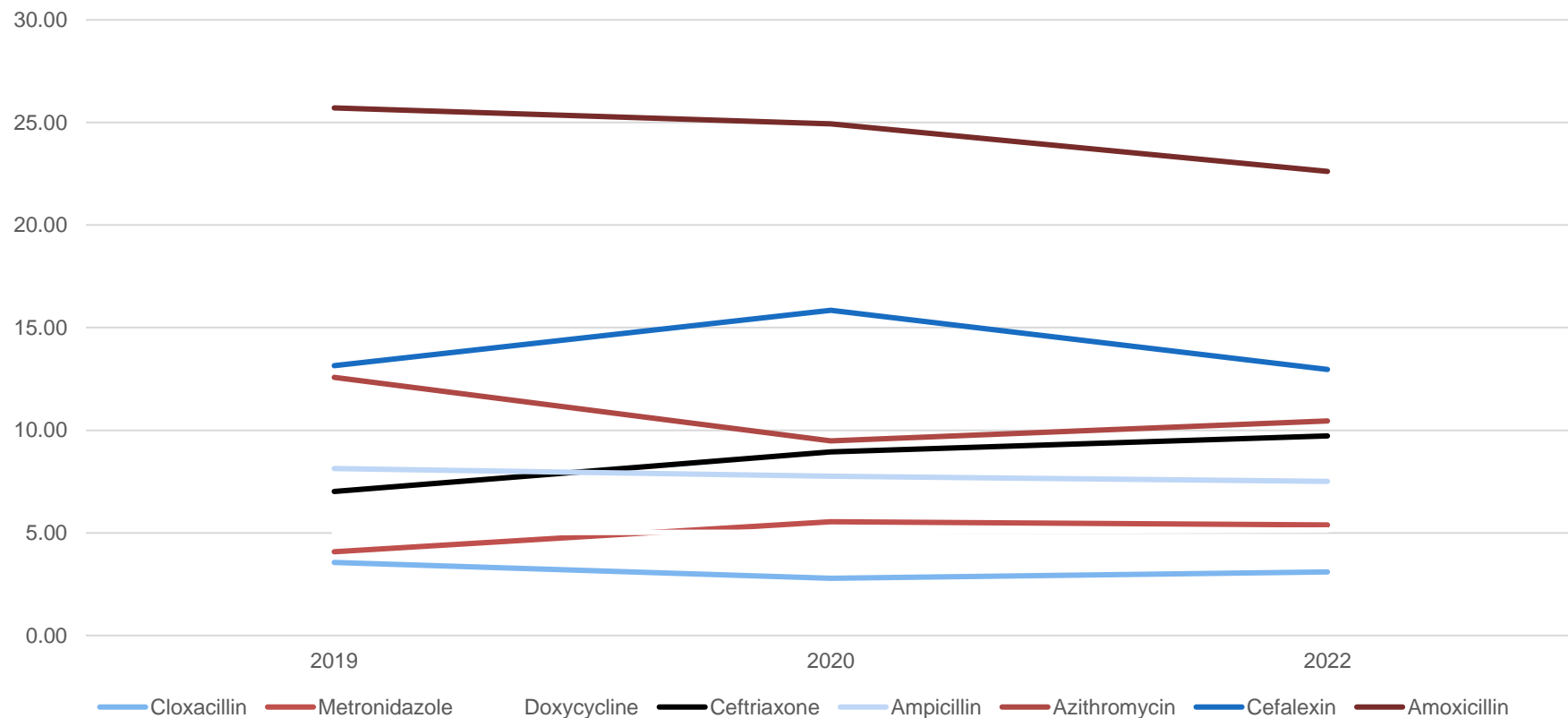


Ministry of Health, Lao PDR.
Food and Drug Department



Some examples on Monitoring results (Hospital Level)

In the Top 10 most prescribed antibiotics in central and provincial hospitals for 3 consecutive years

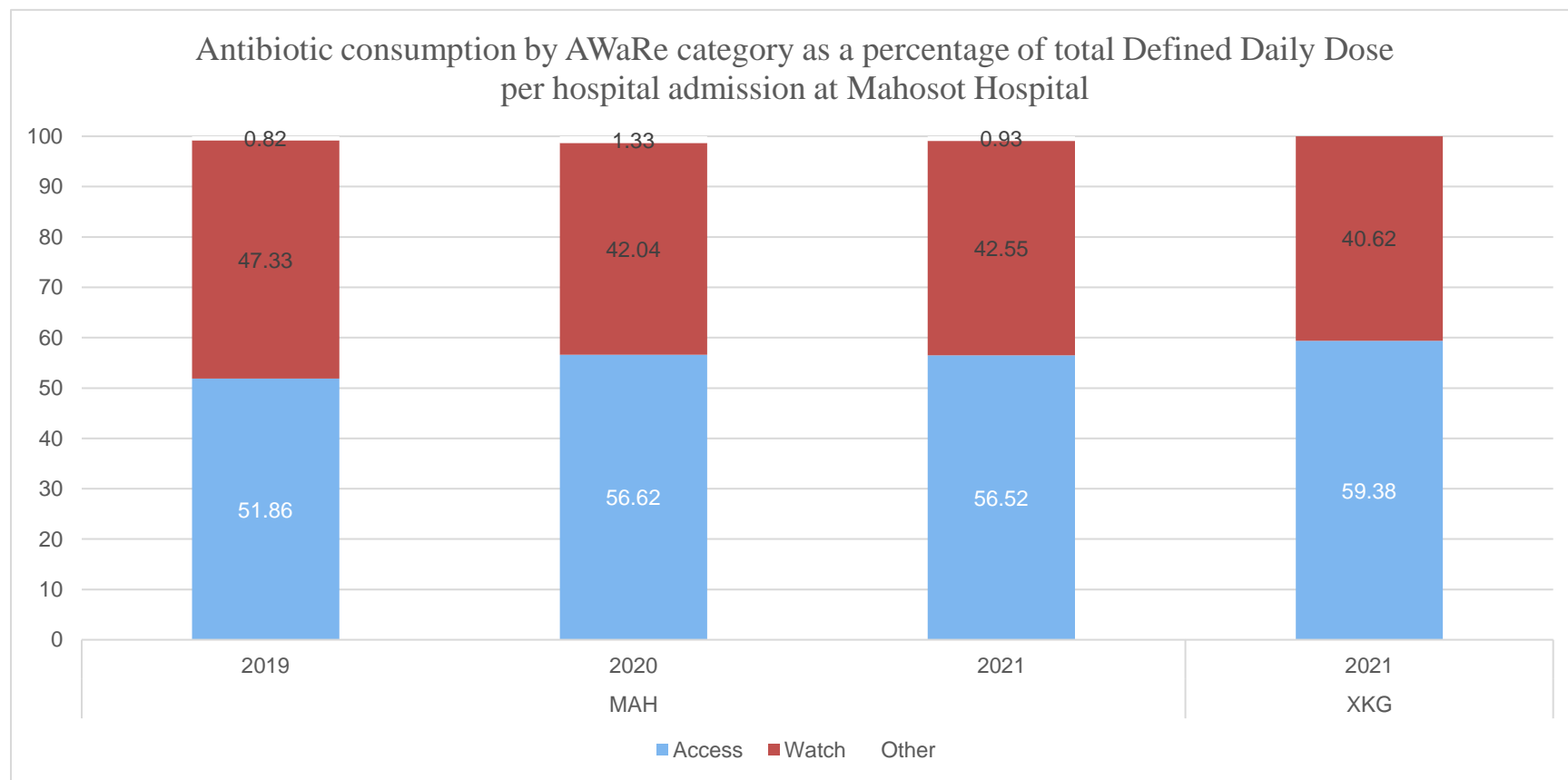




Ministry of Health, Lao PDR.
Food and Drug Department



Some examples on Monitoring results (Hospital level)





Ministry of Health, Lao PDR.
Food and Drug Department



Challenges

- Limited human resources
- Low Awareness of some Hospitals regarding to timeline of submission of AMC data
- Limited AMC data from private sectors
- Weak enforcement of the existing laws/regulations
- Limited support and motivation



Ministry of Health, Lao PDR.
Food and Drug Department



Future Plan

- Annual AMC workshop and back to back lessons learned workshop for Good Hospital Pharmacy Practices (GHPP)
- Integration AMC methodology compliance to GHPP
- Implement the project of Good Pharmacy Practice in private pharmacies in order to scale up the coverage of AMC data and mitigate the AMR regarding to inappropriate dispensing of AM
- Close monitoring of AMC data in subsequent years for further assess its impact of COVID-19
- Continuous capacity building by existing budget and mechanism
- Scale up AMC monitoring in private sectors.



Ministry of Health, Lao PDR.
Food and Drug Department



ຂອບໃຈ

?

THANK YOU
FOR
YOUR
ATTENTION
ANY QUESTIONS?