Management of COPD Primary Healthcare¹

List of indicators

General care indicators:

- 1. Availibility of PHC organizations that currently provide preventive services
- 2. Availibility of testing for COPD management in primary care
- 3. COPD prevalence
- 4. COPD incidence
- 5. COPD coverage

Process indicators:

- 1. COPD symptoms assessed based on CAT and mMRC tests;
- 2. COPD Diagnosis and pulmonary function monitoring based on Pulmonary Function Test;
- 3. COPD patients who are smokers and were offered specific help or information to quit smoking.
- 4. COPD treatment adjusted/reviewed based on disease assessment using ABCD tool;
- 5. Support for Self-Management and education of patients with COPD

Outcome indicators:

Indicator 1

- 6. COPD exacerbations
- 7. Acute Health Services Use—Hospitalizations for COPD exacerbations.

General structure indicators

Description/Definition	Name of indicator	Availibility of PHC organizations that currently provide preventive services
	Description of Indicator	Percentage of primary health care (PHC) organizations that currently provide a range of PHC services
Data elements	Which elements of data needed?	PHC Center Survey, Health facility database
	Are data items collected/used currently?	No
Calculation	Nominator	 Number of organizations in the denominator that report currently offering the following services: Management of care for an emergent but minor health problem; Non-urgent routine care; Prevention and health promotion and/or education services; Rehabilitation services; Care for chronic conditions (Diabetes CVD, Hypertension, Asthma, COPD) Having Patients registers (general and for chronic conditions)
		Inclusions
		× Organization is in the denominator
		× Organization respondent reported
		currently providing follow-up for
		management of care for an emergent
		but minor health problem

		v. Organization recoondant renerted
		× Organization respondent reported
		currently providing follow-up for non-
		urgent routine care
		 Organization respondent reported
		currently providing follow-up for
		prevention and health promotion
		and/or education services
		× Organization respondent reported
		currently having rehabilitation services
		× Organization respondent reported
		currently having Care for chronic
		conditions (Diabetes, CVD,
		Hypertension, Asthma, COPD)
		× Organization respondent reported
		currently having Patients registers
		(general and for chronic conditions)
		× Organization respondent reported
		currently having guidelines and protocols
		for providing range of PHC services
	Denominator	Number of DLC organization respondents
	Denominator	Number of PHC organization respondents. Inclusions
		× PHC organization
		Exclusions
		None
Indicator 2	•	•

Indicator 2

Description/Definition	Name of indicator	Availibility of testing for COPD management in primary care
	Description of Indicator	Percentage of primary health care (PHC)
		organizations that currently provide tests
		for management of COPD
Data elements	Which elements of data needed?	PHC Center Survey, Health facility database
	Are data items collected/used currently?	No
Calculation	Nominator	Number of facilities in the denominator that have available and functional the medical equipment on-site or the specimen can be collected at the facility and sent out by the
	Denominator	Number of PHC organization respondents. Inclusions × PHC organization
		Exclusions
		None
Indicator 3		
Description/Definition	Name of indicator	COPD prevalence

	Description of Indicator	Percentage of population, age 18 and older, who have currently COPD
Data elements	Which elements of data needed?	PHC Center Patients' data registry
Data elements	Are data items collected/used currently?	No
Calculation	Nominator	Number of individuals in the denominator who have the diagnosis of COPD
	Denominator	Patients aged 18 and older Inclusions × PHC client/patient × Age of individual is at least 18 years
		Exclusion None
Indicator 4		None
Description/Definition	Name of indicator	COPD incidence
	Description of Indicator	Percentage of population, age 18 and older with newly diagnosed COPD
Data elements	Which elements of data needed?	PHC Center Patients' data registry
	Are data items collected/used currently?	No
Calculation	Nominator	Number of individuals in the denominator in whom COPD is diagnosed within past 12 months
	Denominator	Patients aged 18 and older Inclusions × PHC client/patient × Age of individual is at least 18 years
		Exclusion None
Indicator 5		Exclusion None
	Name of indicator	None
Indicator 5 Description/Definition	Name of indicator Description of Indicator	None COPD coverage Percentage of population, age 18 and older with COPD who were seen by their PHC
		None COPD coverage Percentage of population, age 18 and older with COPD who were seen by their PHC provider PHC Center Patients' data registry, EMR,
Description/Definition	Description of Indicator	COPD coverage Percentage of population, age 18 and older with COPD who were seen by their PHC provider PHC Center Patients' data registry, EMR, Reporting Forms, Outpatient and Home Visit
Description/Definition	Description of Indicator Which elements of data needed?	None COPD coverage Percentage of population, age 18 and older with COPD who were seen by their PHC provider PHC Center Patients' data registry, EMR, Reporting Forms, Outpatient and Home Visit Registration Journals, Specific Flowsheets No Number of individuals in the denominator
Description/Definition Data elements	Description of Indicator Which elements of data needed? Are data items collected/used currently?	None COPD coverage Percentage of population, age 18 and older with COPD who were seen by their PHC provider PHC Center Patients' data registry, EMR, Reporting Forms, Outpatient and Home Visit Registration Journals, Specific Flowsheets No Number of individuals in the denominator who were seen by their PHC provider within
Description/Definition Data elements	Description of Indicator Which elements of data needed? Are data items collected/used currently? Nominator Denominator Definition of terms × A PHC client/patient is an individual when	None COPD coverage Percentage of population, age 18 and older with COPD who were seen by their PHC provider PHC Center Patients' data registry, EMR, Reporting Forms, Outpatient and Home Visit Registration Journals, Specific Flowsheets No Number of individuals in the denominator who were seen by their PHC provider within past 12 months Patients aged 18 and older Inclusions × PHC client/patient × Age of individual is at least 18 years × Patient diagnosed with COPD Exclusion None
Description/Definition Data elements Calculation	Description of Indicator Which elements of data needed? Are data items collected/used currently? Nominator Denominator Definition of terms × A PHC client/patient is an individual when	None COPD coverage Percentage of population, age 18 and older with COPD who were seen by their PHC provider PHC Center Patients' data registry, EMR, Reporting Forms, Outpatient and Home Visit Registration Journals, Specific Flowsheets No Number of individuals in the denominator who were seen by their PHC provider within past 12 months Patients aged 18 and older Inclusions × PHC client/patient × Age of individual is at least 18 years × Patient diagnosed with COPD Exclusion None

Data source		Medical records, Reporting Forms,
	Name of data source	Outpatient and Home Visit Registration Journals, Specific Flowsheets, Health
		database surveys
	Format of data source	Paper based, or electronic medical record (EMR)
	Limitation of data source (e.g. could be	Use of EMR only after implementation of
	used only after several years)	HMIS system locally
		Medical records, outpatient and home visit registration journals are approved by the
	Is data source used currently?	Ministry Order №01-41/n and are
		maintained uniformly by all outpatient
		service providers in accordance with this Order
Data quality	Limitations of data used (e.g. based on age, diagnosis etc.)	Patients aged 18 years and older with diagnosis of COPD
	Checking of data quality	By the Quality Improvement team of the medical facility
Monitoring	Date of creation	-
	Date of updating	-
Organizations/Departments/Staff	Organization who owns/creates the data	Name of Medical Organization
involved	Organization submitting indicator report	Quality Improvement team of the medical facility, Family doctors/Nurses/Managers

Process/outcome indicators

ndicator 1		
Description/Definition	Name of indicator	COPD symptoms assessed based on CAT and mMRC tests
	Description of Indicator	Percentage of patient population with diagnosis of COPD whose symptoms were assessed based on validated test (CAT and mMRC)
Data elements	Which elements of data needed?	Surveillance data of patients with the diagnosis of COPD
	Are data items collected/used currently?	No
Calculation	Nominator	Number of primary health care (PHC) clients/patientswith the diagnosis of COPD whose symptoms wereassessed using COPD Assessment Test andbreathlesness assessed based on mMRC test withinthe past 12 months.Inclusions×Individual is in the denominator×Individual has CAT and mMRC tests performed
	Denominator	within the past 12 months Exclusions None Number of PHC clients/patients with COPD Inclusions
		 PHC client/patient Individual has a diagnosis of COPD

		Exclusions
		None
Indicator 2		
Description/Definition	Name of indicator	COPD Diagnosis and pulmonary function monitoring
Description/Demittion		based on Pulmonary Function Test
	Description of Indicator	Percentage of population, with diagnosis of COPD
		who had measured pulmonary function for COPD
		diagnosis and disease monitoring
Data elements	Which elements of data needed?	Surveillance data of patients with the diagnosis of
		COPD
	Are data items collected/used currently?	No
Calculation	Nominator	Number of individuals with diagnosis of COPD who
		had measured FEV1 within the past 12 months
		Inclusions
		× Individual has a diagnosis of COPD
		× Individual has been measured pulmonary function
		within the past 12 months
		Exclusions
		None
	Denominator	Number of primary health care (PHC) clients/
		Patients who have diagnosis of COPD
		Inclusions
		× PHC client/patient
		× Patient is diagnosed with COPD
		Exclusions
		None
Indicator 3		None
Description/Definition	Name of indicator	COPD patients who are smokers and were offered
Description/Demittion		specific help or information to quit smoking
	Description of Indicator	Percentage of patient population with diagnosis of
		COPD who are smokers, who were offered specific
		I COPD WHO ALE SHIOKELS, WHO WELE OHELED SDECHL
		, , , , , , , , , , , , , , , , , , ,
Data elements		help or information to quit smoking.
Data elements	Which elements of data needed?	,
Data elements		help or information to quit smoking. Surveillance data of patients with the diagnosis of
Data elements Calculation	Which elements of data needed? Are data items collected/used currently? Nominator	help or information to quit smoking. Surveillance data of patients with the diagnosis of COPD
	Are data items collected/used currently?	help or information to quit smoking. Surveillance data of patients with the diagnosis of COPD No
	Are data items collected/used currently?	help or information to quit smoking.Surveillance data of patients with the diagnosis of COPDNoNumber of individuals in the denominator who were
	Are data items collected/used currently?	help or information to quit smoking.Surveillance data of patients with the diagnosis of COPDNoNumber of individuals in the denominator who were offered specific help or information to quit smoking
	Are data items collected/used currently?	help or information to quit smoking.Surveillance data of patients with the diagnosis of COPDNoNumber of individuals in the denominator who were offered specific help or information to quit smoking within the past 12 months.
	Are data items collected/used currently?	help or information to quit smoking.Surveillance data of patients with the diagnosis of COPDNoNumber of individuals in the denominator who were offered specific help or information to quit smoking within the past 12 months.Inclusions× Individual is in the denominator
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	Are data items collected/used currently?	help or information to quit smoking. Surveillance data of patients with the diagnosis of COPD No Number of individuals in the denominator who were offered specific help or information to quit smoking within the past 12 months. Inclusions × Individual is in the denominator × Individual was offered smoking cessation education
	Are data items collected/used currently?	help or information to quit smoking. Surveillance data of patients with the diagnosis of COPD No Number of individuals in the denominator who were offered specific help or information to quit smoking within the past 12 months. Inclusions × Individual is in the denominator × Individual was offered smoking cessation education
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	Are data items collected/used currently?	help or information to quit smoking. Surveillance data of patients with the diagnosis of COPD No Number of individuals in the denominator who were offered specific help or information to quit smoking within the past 12 months. Inclusions × Individual is in the denominator × Individual was offered smoking cessation education within the past 12 months Exclusions None Number of primary health care (PHC) clients/
	Are data items collected/used currently? Nominator	help or information to quit smoking. Surveillance data of patients with the diagnosis of COPD No Number of individuals in the denominator who were offered specific help or information to quit smoking within the past 12 months. Inclusions × Individual is in the denominator × Individual is in the denominator × Individual was offered smoking cessation education within the past 12 months Exclusions None Number of primary health care (PHC) clients/ Patients who have diagnosis of COPD.
	Are data items collected/used currently? Nominator	help or information to quit smoking. Surveillance data of patients with the diagnosis of COPD No Number of individuals in the denominator who were offered specific help or information to quit smoking within the past 12 months. Inclusions × Individual is in the denominator × Individual was offered smoking cessation education within the past 12 months Exclusions None Number of primary health care (PHC) clients/ Patients who have diagnosis of COPD. Inclusions
	Are data items collected/used currently? Nominator	help or information to quit smoking. Surveillance data of patients with the diagnosis of COPD No Number of individuals in the denominator who were offered specific help or information to quit smoking within the past 12 months. Inclusions × Individual is in the denominator × Individual is in the denominator × Individual was offered smoking cessation education within the past 12 months Exclusions None Number of primary health care (PHC) clients/ Patients who have diagnosis of COPD.
	Are data items collected/used currently? Nominator	help or information to quit smoking. Surveillance data of patients with the diagnosis of COPD No Number of individuals in the denominator who were offered specific help or information to quit smoking within the past 12 months. Inclusions × Individual is in the denominator × Individual was offered smoking cessation education within the past 12 months Exclusions None Number of primary health care (PHC) clients/ Patients who have diagnosis of COPD. Inclusions
	Are data items collected/used currently? Nominator	help or information to quit smoking. Surveillance data of patients with the diagnosis of COPD No Number of individuals in the denominator who were offered specific help or information to quit smoking within the past 12 months. Inclusions × Individual is in the denominator × Individual was offered smoking cessation education within the past 12 months Exclusions None Number of primary health care (PHC) clients/ Patients who have diagnosis of COPD. Inclusions × PHC client/patient
	Are data items collected/used currently? Nominator	help or information to quit smoking. Surveillance data of patients with the diagnosis of COPD No Number of individuals in the denominator who were offered specific help or information to quit smoking within the past 12 months. Inclusions × Individual is in the denominator × Individual was offered smoking cessation education within the past 12 months Exclusions None Number of primary health care (PHC) clients/ Patients who have diagnosis of COPD. Inclusions × PHC client/patient × Patient is diagnosed with COPD

			None	
ndicator 4				
Description/Definition	Name	of indicator		reatment adjusted/reviewed based on assessment using ABCD tool
	Descri	ption of Indicator	whose adjuste	tage of population, with diagnosis of COPD medications have been adequately ed/reviewed based on disease assessment BCD tool
Data elements	Which	elements of data needed?	Surveill COPD	ance data of patients with the diagnosis of
	Are da	ta items collected/used currently?	No	
Calculation	Nomir		have be LABA/L severity Inclusio × Indivi × Indivi × Indivi	idual is in denominator idual has a diagnosis of COPD idual has been prescribed/reviewed cation treatment based on ABCD assessment
	Denor	ninator	Patient Inclusic × PHC	client/patient nt is diagnosed with COPD
Indicator 5			None	
Description/Definitio	n	Name of indicator Description of Indicator		Support for Self-Management and education of patients with COPD Percentage of patient population, age 18 years and older, with COPD who received at least one of the following types of self- management support from their primary health care (PHC) provider: × Provided with a treatment plan; × Encouraged to use self-help groups or

Description/Definition	Name of indicator	Support for Self-Management and education of patients with COPD
	Description of Indicator	 Percentage of patient population, age 18 years and older, with COPD who received at least one of the following types of self-management support from their primary health care (PHC) provider: × Provided with a treatment plan; × Encouraged to use self-help groups or COPD education programs.
Data elements	Which elements of data needed?	Surveillance data of patients with COPD, COPD patinets' survey
	Are data items collected/used currently?	No
Calculation	Nominator	Number of individuals in the denominatorwho reported receiving at least one of thefollowing types of self-management supportfrom their PHC provider over the past 12months:×Provided with a treatment plan; and/or×Encouraged to use self-help groups orCOPD education programs.

	Denominator	Inclusions × Individual is in the denominator × Individual reported at least one of the following over the past 12 months: ! Was helped in making a treatment plan ! Was encouraged to go to a specific group or class to help to cope with COPD ! Was encouraged to attend programs in the community that could help him or her care for his or her chronic condition(s) Exclusions None Number of patients aged 18 years and older
		with diagnosis of COPD Inclusions × PHC client/patient × Age of individual is at least 18 years × Individual is diagnosed with COPD Exclusion × None
Indicator 6		
Description/Definition	Name of indicator	COPD exacerbations
	Description of Indicator	Percentage of population, with diagnosis of COPD
Data elements	Which elements of data needed?	who had exacerbations Surveillance data of patients with the diagnosis of COPD
	Are data items collected/used currently?	No
Calculation	Nominator	Number of individuals with diagnosis of COPD who had exacerbations within the past 12 months. Inclusions × Individual is in denominator × Individual has a diagnosis of COPD × Individual had COPD exacerbation within the past 12 months Exclusions None
	Denominator	Number of primary health care (PHC) clients/ Patients who have diagnosis of COPD Inclusions × PHC client/patient × Patient is diagnosed with COPD Exclusions None
Indicator 7		
Description/Definition	Name of indicator	Acute Health Services Use—Hospitalizations for COPD exacerbation

	Description of Indicato	who	entage of population, with diagnosis of COPD have been hospitalized due to COPD erbation	
Data elements	Which elements of data needed?		Surveillance data of patients with the diagnosis of	
		СОР	D	
Calculation	Are data items collect Nominator		ber of individuals with diagnosis of COPD who	
	Denominator	have with Inclu × Inc × Inc × Inc Exclu Non Patie Inclu × Pl	e been hospitalized due to COPD exacerbation in the past 12 months. Isions dividual is in denominator dividual has a diagnosis of COPD dividual has been hospitalized due to COPD acerbation within the past 12 months	
			usions	
Note	Definitions of		-	
	× A PHC client/		has had contact with the provider at least once	
Disaggregation	in the past year where we want the past year where the past of the	(patient is an individual who ear and has a record with th disaggregation (separation)	Man/women;	
Disaggregation Data source	in the past ye	/patient is an individual who ear and has a record with th disaggregation (separation) needed)?	e provider dating back at least two years. By individual Family Doctor; Man/Women; Age: 18-39; 40-49; 50-59; 60-69; 70-79; 80+ Medical records, Reporting Forms, Outpatient and Home Visit Registration	
	in the past ye What levels of are needed (if	/patient is an individual who ear and has a record with th disaggregation (separation) needed)?	e provider dating back at least two years. By individual Family Doctor; Man/Women; Age: 18-39; 40-49; 50-59; 60-69; 70-79; 80+ Medical records, Reporting Forms,	
	in the past ye What levels of are needed (if Name of data s Format of data	/patient is an individual who ear and has a record with th disaggregation (separation) needed)? source source ata source (e.g. could be	 By individual Family Doctor; Man/Women; Age: 18-39; 40-49; 50-59; 60-69; 70-79; 80+ Medical records, Reporting Forms, Outpatient and Home Visit Registration Journals, Specific Flowsheets Paper based, or electronic medical record (EMR) Use of EMR only after implementation of HMIS system locally 	
	in the past ye What levels of are needed (if Name of data s Format of data Limitation of d used only after	/patient is an individual who ear and has a record with th disaggregation (separation) needed)? source source ata source (e.g. could be	 By individual Family Doctor; Man/Women; Age: 18-39; 40-49; 50-59; 60-69; 70-79; 80+ Medical records, Reporting Forms, Outpatient and Home Visit Registration Journals, Specific Flowsheets Paper based, or electronic medical record (EMR) Use of EMR only after implementation of HMIS system locally Medical records, outpatient and home visit registration journals are approved by the Ministry Order №01-41/n and are maintained uniformly by all outpatient service providers in accordance with this 	
	in the past year What levels of are needed (if Name of data se Format of data Limitation of d used only after Is data source	/patient is an individual who ear and has a record with th disaggregation (separation) needed)? source source ata source (e.g. could be several years)	 By individual Family Doctor; Man/Women; Age: 18-39; 40-49; 50-59; 60-69; 70-79; 80+ Medical records, Reporting Forms, Outpatient and Home Visit Registration Journals, Specific Flowsheets Paper based, or electronic medical record (EMR) Use of EMR only after implementation of HMIS system locally Medical records, outpatient and home visit registration journals are approved by the Ministry Order №01-41/n and are maintained uniformly by all outpatient service providers in accordance with this Order 	
Data source	in the past year What levels of are needed (if Name of data se Format of data Limitation of data used only after Is data source of Limitations of data	<pre>/patient is an individual who ear and has a record with the disaggregation (separation) needed)? source ata source ata source (e.g. could be several years) used currently? data used (e.g. based on age data used (e.g. based on age</pre>	By individual Family Doctor; Man/Women; Age: 18-39; 40-49; 50-59; 60-69; 70-79; 80+ Medical records, Reporting Forms, Outpatient and Home Visit Registration Journals, Specific Flowsheets Paper based, or electronic medical record (EMR) Use of EMR only after implementation of HMIS system locally Medical records, outpatient and home visit registration journals are approved by the Ministry Order №01-41/n and are maintained uniformly by all outpatient service providers in accordance with this Order Patients aged 18 years and older with diagnosis of COPD By the Quality Improvement team of the	
Data source	in the past years of are needed (if Name of data set of data set of data set only after Is data source of diagnosis etc.)	<pre>/patient is an individual who ear and has a record with the disaggregation (separation) needed)? source ata source ata source (e.g. could be reveral years) used currently? data used (e.g. based on age ta quality</pre>	By individual Family Doctor; Man/Women; Age: 18-39; 40-49; 50-59; 60-69; 70-79; 80+ Medical records, Reporting Forms, Outpatient and Home Visit Registration Journals, Specific Flowsheets Paper based, or electronic medical record (EMR) Use of EMR only after implementation of HMIS system locally Medical records, outpatient and home visit registration journals are approved by the Ministry Order №01-41/n and are maintained uniformly by all outpatient service providers in accordance with this Order Patients aged 18 years and older with diagnosis of COPD	
Data source	in the past year What levels of are needed (if Name of data se Format of data Limitation of d used only after Is data source of diagnosis etc.) Checking of da	<pre>/patient is an individual who ear and has a record with the disaggregation (separation) needed)? source ata source ata source (e.g. could be several years) used currently? data used (e.g. based on age ta quality n</pre>	By individual Family Doctor; Man/Women; Age: 18-39; 40-49; 50-59; 60-69; 70-79; 80+ Medical records, Reporting Forms, Outpatient and Home Visit Registration Journals, Specific Flowsheets Paper based, or electronic medical record (EMR) Use of EMR only after implementation of HMIS system locally Medical records, outpatient and home visit registration journals are approved by the Ministry Order №01-41/n and are maintained uniformly by all outpatient service providers in accordance with this Order Patients aged 18 years and older with diagnosis of COPD By the Quality Improvement team of the	
Data source	in the past years of are needed (if are needed (if Name of data second data second data). Format of data Limitation of dused only after a ls data source of diagnosis etc.) Checking of data Date of creatio Date of updating data second data for the	<pre>/patient is an individual who ear and has a record with the disaggregation (separation) needed)? source ata source ata source (e.g. could be several years) used currently? data used (e.g. based on age ta quality n</pre>	By individual Family Doctor; Man/Women; Age: 18-39; 40-49; 50-59; 60-69; 70-79; 80+ Medical records, Reporting Forms, Outpatient and Home Visit Registration Journals, Specific Flowsheets Paper based, or electronic medical record (EMR) Use of EMR only after implementation of HMIS system locally Medical records, outpatient and home visit registration journals are approved by the Ministry Order №01-41/n and are maintained uniformly by all outpatient service providers in accordance with this Order Patients aged 18 years and older with diagnosis of COPD By the Quality Improvement team of the	

¹ Global Initiative for Chronic Obstructive Lung Disease, 2021: <u>https://goldcopd.org/</u>