



## Belarus Health System Modernization Project (P156778)

EUROPE AND CENTRAL ASIA | Belarus | Health, Nutrition & Population Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2017 | Seq No: 9 | ARCHIVED on 23-Dec-2020 | ISR41784 |

Implementing Agencies: Ministry of Health, Republic of Belarus

### Key Dates

#### Key Project Dates

Bank Approval Date: 18-Nov-2016

Effectiveness Date: 19-May-2017

Planned Mid Term Review Date: 09-Dec-2019

Actual Mid-Term Review Date: 13-Dec-2019

Original Closing Date: 31-May-2022

Revised Closing Date: 31-Dec-2023

### Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The proposed project development objective (PDO) is to contribute to improving selected aspects of the quality of health care delivery in the Republic of Belarus. This PDO is expected to be achieved through the: (a) establishment of e-Health system and adoption of ICT-based clinical decision-support tools for quality improvement; (b) improvement of clinical competencies of health care providers in non-communicable disease (NCD) management; and (c) modernization of neonatal care provision at the Republic Center of Mother and Child (RCMC).

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

### Components Table

Name

Establishment of E-Health and clinical decision support systems:(Cost \$65.20 M)  
Improvement of clinical competencies of health care providers in NCD management:(Cost \$46.20 M)  
Modernization of neonatal care at the RCMC:(Cost \$11.60 M)  
Project management, monitoring and evaluation:(Cost \$2.00 M)

### Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Moderately Unsatisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Risk Rating	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial

### Implementation Status and Key Decisions

Overall the Project progress under each component is assessed as Moderately Satisfactory. Taking into account the global COVID-19 outbreak and its negative impact on all spheres, including project implementation (through disruption of bidding processes, equipment supplies and cancellation of training events), and, based upon a request from the Government of Belarus for a project extension and the World Bank technical assessment of project implementation to date the closing date has been extended until December 31, 2023 to ensure proper and timely implementation of the planned project activities. These include the complex design and implementation of the central platform under e-health, delivery of simulation equipment, construction of a new Intensive Care Unit building for RSPC "Mother and Child" and procurement of the medical equipment for it.



## Risks

### Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	☐ Substantial	☐ Substantial	☐ Substantial
Macroeconomic	☐ Substantial	☐ Substantial	☐ Substantial
Sector Strategies and Policies	☐ Moderate	☐ Substantial	☐ Substantial
Technical Design of Project or Program	☐ Substantial	☐ Substantial	☐ Substantial
Institutional Capacity for Implementation and Sustainability	☐ Substantial	☐ Substantial	☐ Substantial
Fiduciary	☐ Substantial	☐ Substantial	☐ Substantial
Environment and Social	☐ Moderate	☐ Moderate	☐ Moderate
Stakeholders	☐ Substantial	☐ Substantial	☐ Substantial
Other	--	--	--
Overall	☐ Substantial	☐ Substantial	☐ Substantial

## Results

### PDO Indicators by Objectives / Outcomes

Improvement of health care delivery quality through establishment of e-health				
▶ Number of oblasts using e-prescription (cumulative) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.00	7.00	7.00	7.00
Date	26-Oct-2016	02-Dec-2019	09-Dec-2020	31-May-2022
▶ Percentage of selected health facilities (PHC centers/ambulatories, polyclinics, hospitals, and diagnostic centers) that can electronically exchange patient summaries (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	100.00
Date	26-Oct-2016	02-Dec-2019	09-Dec-2020	31-May-2022



Comments:

An integrated electronic medical record will be placed in the central medical information repository on the central software platform. This will be possible after the development and commissioning of the central software platform in 2022.

Improvement of clinical competencies of health care providers in NCD management

► Percentage of trained PHC doctors in clinical skills at BelMapo Simulation Training Center and at Medical Universities skills labs according to standards (emergency services among others)-cumulative (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	97.27	96.90	50.00
Date	26-Oct-2016	02-Dec-2019	09-Dec-2020	31-May-2022

► Percentage of diabetes patients who received A1C blood sugar test once a year (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	30.00	99.37	81.38	80.00
Date	26-Oct-2016	02-Dec-2019	01-Oct-2020	31-May-2022

Comments:

As of October 1, 2020, it is 81.38%. The percentage will increase by the end of the year.

Modernization of neonatal care

► Percentage increase in survival rate of newborns at the Intensive Neonatal Department of the RCMC (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	78.00	78.00	81.00	86.00
Date	26-Oct-2016	10-Jun-2019	09-Dec-2020	31-May-2022

Intermediate Results Indicators by Components

Establishment of E-Health and clinical decision support systems

► Establishment of CHIS implementation unit at the RSPC MT and fully functional (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	1.00
Date	26-Oct-2016	10-Jun-2019	09-Dec-2020	31-May-2022

Comments:

Achieved one year earlier than the target year. CHIS implementation unit was established at the RSPC MT and staffed pursuant to the RSPC MT order No. 31 dated May 19, 2017 and is fully functional.



<b>► Central database operational (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	26-Oct-2016	10-Jun-2019	05-Nov-2020	31-May-2022
<b>► Percentage of PHC doctors in selected health facilities using clinical decision making tools (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	100.00
Date	26-Oct-2016	10-Jun-2019	09-Dec-2020	31-May-2022
<b>► Increase in patients' satisfaction with e-prescription (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.00	66.00	24.20	70.00
Date	26-Oct-2016	15-Nov-2019	09-Dec-2020	31-May-2022
Comments:	<p>Two surveys are planned in the middle and at the end of the project. Current value 24.20% is based on a survey on the degree of satisfaction with the electronic prescription system conducted from November 12, 2019 to November 22, 2019 on the website of the Ministry of Health. The intermediate target for the indicator is 20%. The previous value was 66.0% based on the results of a sociological survey among the population on health issues, which was conducted by the National Academy of Sciences in 2019. The project has proceeded with three CE activities: (1) The beneficiary survey (questionnaire completed, procured and fieldwork currently underway) and a GRM (the GRM is staffed and functioning, although no complaints have been received). (2) During the first 12 months, the MoH conducted public consultations on the E-health concept from September 4-14, 2018. The contacts of the PIU were made available for any additional feedback. Based on the received responses changes were made to the E-concept note, and finalized through necessary Government channels by February 2019. This led to finalization of technical documents that were published on MOH website as well as on international platform for bidding for potential consulting firms that would design the central platform for E-health system. (3) Similar public consultations were held before the procurement of simulation equipment for medical universities and colleges on the website of Belmedtechnica from December 12-22, 2018.</p>			
<b>► Percentage of PHC doctors in selected health facilities receiving patients' summaries from specialists after hospital discharge (report on all relevant health information sent from specialists to PHC) (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	21.70	100.00
Date	26-Oct-2016	10-Jun-2019	09-Dec-2020	31-May-2022
<b>Improvement of clinical competencies of health care providers in NCD management</b>				
<b>► BelMapo Simulation Center constructed and equipped (Number, Custom)</b>				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	26-Oct-2016	10-Jun-2019	05-Nov-2020	31-May-2022
Comments:	The indicator is on track: all preparatory activities (necessary permits, feasibility study, contracting of services for development of project and bidding documentation) are being implemented according to schedule.			
<b>► Percentage of participants in training institutions: BelMapo new Simulation Center, medical universities and medical colleges satisfied with the technical effectiveness and quality of training (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	80.00
Date	26-Oct-2016	10-Jun-2019	09-Dec-2020	31-May-2022
<b>► Training modules for core specialties at BelMapo new Simulation Center developed and approved by MoH (GP, ER, surgery, obstetrics-gynecology, dentistry, anesthesiology, neonatal) (Text, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	11 approved	11 modules developed and approved	7 approved and implemented
Date	26-Oct-2016	10-Jun-2019	09-Dec-2020	31-May-2022
Comments:	On track. Three modules -Surgery, Dentistry, Neonatology-developed in 2017 are approved by MoH on April 6 2018. Eight modules -anesthesiology and resuscitation, ob/gyn, emergency medical care, general practice, laparoscopy and thoracoscopy; angiography, traumatology and orthopedics, ophthalmology- approved by the MOH on August 22 2018			
<b>► Number of departments in each of the training institutions (BelMapo, medical universities and medical colleges) offering trainings on reproductive health (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2.00	31.00	34.00	22.00
Date	26-Oct-2016	10-Jun-2019	09-Dec-2020	31-May-2022
Comments:	On track.			
<b>► Clinical skill labs in (a) Medical Universities; and (b) Colleges rehabilitated and equipped (Text, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	a) 0; b) 0	a) 0; b) 0	a) 0; b) 0	a) 4; b) 17
Date	26-Oct-2016	10-Jun-2019	05-Nov-2020	31-May-2022
Comments:	Renovation works completed in 16 medical colleges, BSMU and Gomel SMU. Intensity and percentage of implementation of this indicator is: a) 45%; b) 85%			



► Number of health care specialists trained in emergency medical care at BelMapo, including using simulation equipment (cumulative) (disaggregated by gender) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4,084.00	7,332.00	7,500.00
Date	26-Oct-2016	10-Jun-2019	09-Dec-2020	31-May-2022
Comments:	4.084 health care specialists were trained in emergency medical care at BelMAPO and other 4 medical universities in using existing simulation equipment			

Modernization of neonatal care at the RCMC				
► Construction of a nursing and breast milk pumping room in the new neonatal department (y/n) (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	26-Oct-2016	10-Jun-2019	09-Dec-2020	31-May-2022
Comments:	On track. Preparatory activities are implemented according to schedule. Delivery of medical equipment is scheduled for May 2021.			

► Clinical decision making tool on quality of neonatal care developed and used (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	26-Oct-2016	10-Jun-2019	09-Dec-2020	31-May-2022
Comments:	Clinical decision making tool has been developed. The tool can be used once the e-Health system is operating.			

► Neonatal department constructed and equipped (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	26-Oct-2016	10-Jun-2019	05-Nov-2020	31-May-2022
Comments:	On track. Contract for construction works has been concluded.			

► Reduction in average length of stay of infants at the Intensive Neonatal Department (days) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	11.50	11.50	11.50	10.00
Date	26-Oct-2016	10-Jun-2019	09-Dec-2020	31-May-2022



Project management, monitoring and evaluation				
► Grievances registered related to delivery of project benefits addressed (%) (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	100.00
Date	26-Oct-2016	31-Oct-2019	01-Oct-2020	31-May-2022
Comments:	<p>The project has proceeded with three CE activities: (1) the beneficiary survey (questionnaire completed, procured and fieldwork currently underway) and a GRM (the GRM is staffed and functioning, although no complaints have been received). (2) During the first 12 months, the MoH conducted public consultations on the E-health concept from September 4-14, 2018. The contacts of the PIU were made available for any additional feedback. Based on the received responses changes were made to the E-concept note, and finalized through necessary Government channels by February 2019. This led to finalization of technical documents that were published on MOH website as well as on international platform for bidding for potential consulting firms that would design the central platform for E-health system. (3) Similar public consultations were held before the procurement of simulation equipment for medical universities and colleges on the website of Belmedtechnica from December 12-22, 2018.</p>			

### Performance-Based Conditions

#### Data on Financial Performance

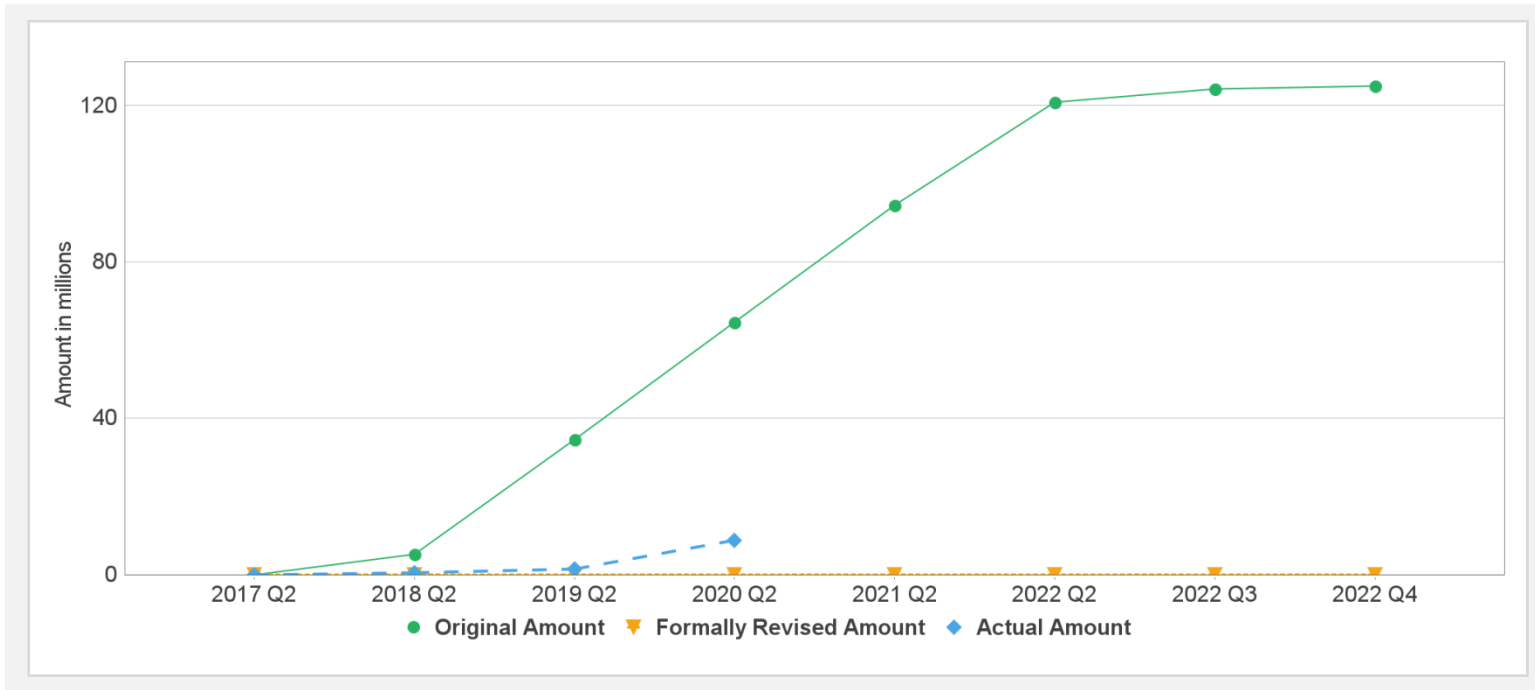
##### Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P156778	IBRD-86630	Effective	USD	125.00	125.00	0.00	14.00	111.00	11%

##### Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P156778	IBRD-86630	Effective	18-Nov-2016	25-Nov-2016	19-May-2017	31-May-2022	31-Dec-2023

### Cumulative Disbursements



### PBC Disbursement

PBC ID	PBC Type	Description	Coc	PBC Amount	Achievement Status	Disbursed amount in Coc	Disbursement % for PBC

### Restructuring History

Level Approved on 09-Jun-2020 ,Level 2 Approved on 10-Jun-2020

### Related Project(s)

There are no related projects.