HTA.BG

EVIDENCE MATTERS





VALUE BASED HEALTHCARE PERSPECTIVE FROM BULGARIA

Engine by Future Values

Dr. Slaveyko Djambazov

"A profound and powerful critique of America's health-care system."—*The Economist*

Michael E. Porter Elizabeth Olmsted Teisberg

Redefining Health Care

Creating Value-Based Competition on Results

HARVARD BUSINESS REVIEW PR

vices, and in local markets. Instead of rewarding good provider results with more patients, administrators make costly and ineffective attempts to micromanage care processes and second-guess provider decisions.

To reform health care, we must reform the nature of competition itself. Redefining Health Care describes how all participants—providers, health plans, employers, suppliers, consumers, and governmers—can redefine their strategies, operating practices, and organizational structures to unleash stuaning improvements in the health value delivered.

Porter and Teisberg shed new light on: Why decades of reform have only worsened the problem

How physicians and provider organizations have misunderstood their true business why current "solutions"--consumer-driven health care, integrated health systems, payfor-performance, electronic medical records, single-payer systems--will not suffice How each system participant can redefine its strategy to increase value Why mandatory measurement and reporting



Value Measurement for Health Care August 6 - 8, 2018 Harvard Business School



HARVARD BUSINESS SCHOOL Executive Education



Getting Unstuck: Transform to Value-Based System



Legacy System

1. Organized around specialties and departments

2. Measures processes, compliance and charges

3. Fee-for-service payments based on volume of services delivered

4. Each hospital or practice offers a full line of services

5. Providers service their geographic area

Value-Based System

1. Organized into Integrated Practice Units (IPUs)

2. Measure outcomes and costs for every patient

3. Move to bundled payments for cycle of care

4. Integrate care delivery systems

5. Expand geographic reach



systems for functions,

TI

Siloed

6.

and departments

services,

Public lectures (>20)





Future Values

University lectures (>10...)

VALUE MEASUREMENT FOR HEALTH CARE (VMHC) CERTIFICATE COURSE

Based on Harvard Business School (HBS) case studies

Lecturers



Dr. Slaveyko Djambazov, PhD Dr. Djambazov is a chief assistant at the Faculty of Pharmacy, he holds a PhD in HTA, MBA from AUBG, master of medicine and public health, certified for VMHC from HBS.

Adriana Dacheva

Apply nov

She has a postgraduate qualification in health management, specializes in Glasgow, Barcelona, Copenhagen. She is actively involved in managed entry agreements, innovative payment models. VMHC.



Yoanna Vutova, MPharm Master of Pharmacy, works in the field of scientific analysis, health policies, coordination of international health investment projects. She is actively involved in VMHC projects in Bulgaria.

What will you learn?

Through faculty presentations, work with case studies and dynamic discussions, students will explore innovative health care practices, value initiatives and prepare to implement similar effective value system across healthcare

units.	EDUCATIONAL FORMAT				
. Using case studies from HBS and sharing cases from our local practice.	- Self-training with 5 HBS case studies before the course				
. Appropriate for 5th and 6th year students of medicine. . Students receive certificate after finishing this course.	- Lectures - Presentations and workshops based on case studies				
*This course requires prior self-preparation, which will be coordinated by the faculty.					

For more information REGISTRATION until October 31st, 2021 at Student's Office, Faculty of Medicine, MU-Pleven, yoanna@hta.bg Phone: 064 800 001, E-mail: ele_edu@mu-pleven.bg; fm_edu@mu-pleven.bg

Main Topics

Creating and leading a value-based delivery organiza-

Measuring outcomes and costs Delivering care based on outcomes Measuring health-related and patient-related outcomes

Measuring costs, Time-driven activity-based costing (TDABC) Mapping the processes of care and associated costs

using the TDABC methodology Integrated practice units - re-organize care around medical conditions

Aligning payment with value Bundle payments VMHC in out-patient care







Field Projects Value-Based Healthcare

- Ophthalmology clinics MD, Cataract, Glaucoma
- Cardiology clinics CAD, Arrhythmia, HF

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- Cancer clinics lung cancer
- Primary care
- Dental care

TDABC CROMs PROMs IPU principles Trainings

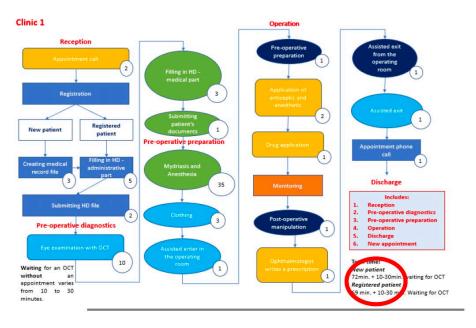


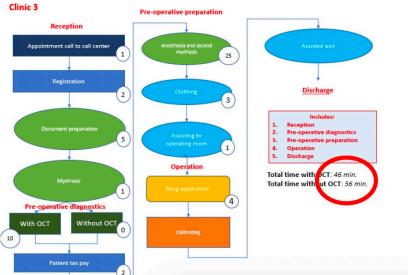
Ophthalmology clinics

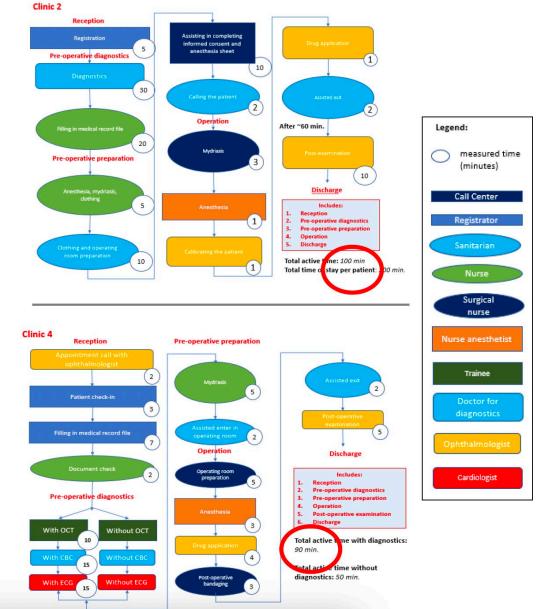


TDABC









Future Values

TDABC



Up to 50% optimization of the capacity

Total time before optimization:

New patient 72min. + 10-30min. waiting for optical coherence tomography (OCT)

Registered patient 69 minutes + 10-30 minutes waiting for OCT

Total time after optimization:

With OCT:

New patient 51min.

Registered patient 48 minutes.

Without OCT: 43 min.



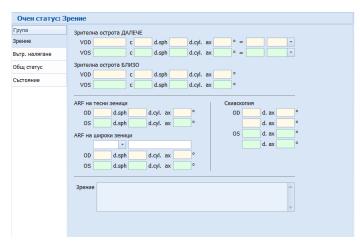
Health Outcomes

Entering eye indicators in the software

- a) measurement of visual acuity entered only in numerical value;
- b) introduction of OCT test results expressed as central thickness of retina entered only in numerical values

Change in the way of entering information provides an opportunity for detailed reference on patient level, reflecting the changes in both health indicators.

		0	0	1	
рупа	Поле	Дясно	Ляво		
рение	: Обективно с	ъстояние			
ьтр. налягане	Клепачи				
	Слъзен апара	IT			
бщ статус	Очна ябълка				
ьстояние	Конюнктива				
	Роговица	A			
	Склера	-			
	Предна камер	ba			
	Зеница				
	Ирис				
	Увея				
	Леща				
	Стъкловидно	тяло			
	Ретина				
	Зрителен нер	B			
	Глаукома				
	Страбизъм				
	Очно дъно - /	дзн			
	Макула				
	Съдове				
	Периферия				







Patient-Related Outcome Measurement



Original Paper | Published: 19 August 2020

EQ-5D-5L Bulgarian population norms

Marta Encheva 🖂, <u>Slaveyko Djambazov</u>, <u>Toni Vekov</u> & <u>Dominik Golicki</u>

 The European Journal of Health Economics
 21, 1169–1178 (2020)
 Cite this article

 916
 Accesses
 9
 Citations
 2
 Altmetric
 Metrics

Abstract

National Eye Institute Visual Functioning Questionnaire -(VFQ-25)

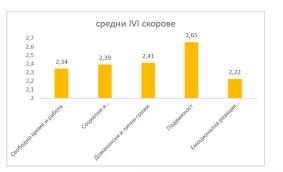
version 2000

(SELF-ADMINISTERED FORMAT)

Objectives

The present study aimed to provide normative data for the EQ-5D-5L questionnaire in Bulgaria, based on a nationally representative sample.

6. Резултати от пилотното проучване за качество на живот при пациенти с макулна дегенереция



Средни стойности на скоровете от IVI въпросника при отделните домейни свободно време и работа; социални и потребителски взаимоотношения; домакински и лични грижи; подвижност и емоционална реакция към загубата на зрение

EVIDENCE MATTERS

Данни за EQ-5D индекс, VAS скор и IVI скор по пол при пациенти с макулна дегенерация Impact of Vision Impairment (IVI) Questionnaire

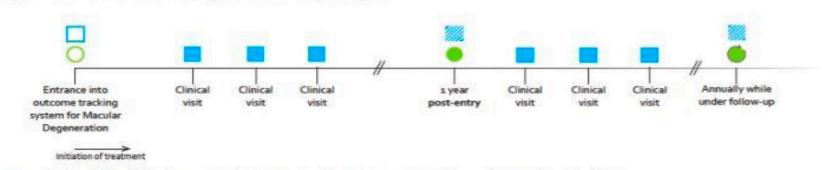
Baseline Patient-Reported Form Patient and institutional identifying information



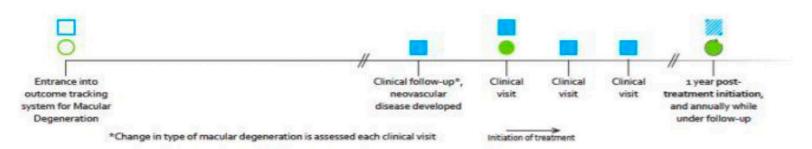
Patient-Related Outcome Measurement



Example 1: Patient with neovascular disease, receives treatment post diagnosis



Example 2: Patient with dry AMD, does not receive treatment and develops neovascular disease after certain period of time



The following questionnaires should be administered at the indicated time points:







Gamo nlan

Training of young ophthalmologists

Future Values

10200

• Epidemiology and biostatistics

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- Health outcome measurement
- PROMs
- VBHC
- Scientific writing

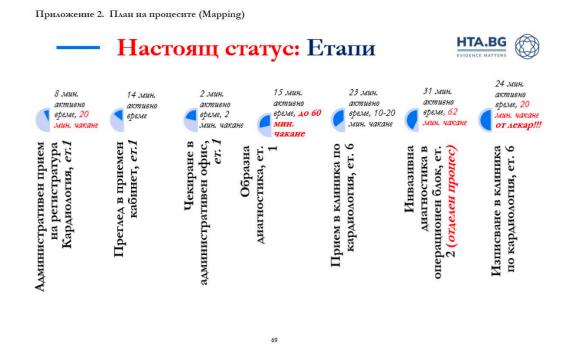
	Курс "Млади Офталмолози" 19-20 февруари, Велико Търново							
	ден 1							
	Тема	Времетраене	Детайли	Лектор				
3:00-13:15	Welcome and introduction to the course	15 min						
3:15- 14:15	А. Епидемиологични изследвания 1. Въведение в епидемиологична на епидемиологични дани за пациенти с макулна про детенерация и заболявания на ретината							
4:15 - 15:15	Лекция 2 + WS: Обработка и анализ на данни от епидемиологични изследвания	1h	А. Анализ на данни	проф. Пламен Димитров				
5:15 - 15:35	Кафе пауза	20 min						
15:35 - 16:20	 Лекция 3: Литературни прегледи: Систематичен литературен дергия (SLR) А. Определяне обхвата на литературния преглед 45 min А. Определяне обхвата на литературния преглед С. Селекция и оценка качеството на клиничните проучвании 							
16:20 - 17:05	20 - 17.65 Лекция 4: Обединяване на данни чрез методологията на 45 min В. Интерпретация на резултатите Ге							
7:05 - 17:20			Q&A					
	ДЕН 2							
	Тема	Времетраене	Детайли	Лектор				
.30-8.45	Wrap-up of day 1;	15 min						
.45 - 9.30	WS: Метаанализ	45 min		Георги Славчев, PhD Екатерина Павлова				
9:30 - 10:15	Лекции 5: Здравеопазване, основано на ползите (Value-Based Healthcare) - концепция		Курсистите ще се запознаят с концепцията на VBHC, разработена за първи път в Harvard Business School. Концепцията ще бъде представена и опагледена с примену от CAUL и Върола. Ще бъдат представени последищите от всичко това върху фармацеятичните продукти	а и д-р Славейко Джамбазс PhD				
10:15-10:35	Кафе пауза	20 min						
10:35 - 11:20	Лекция 6: Качество на живот (QoL) на пациенти с макулна дегенерация и придържане към лечението с Eylea.	45. min	А. Анализ и оптимизиране на броя на приложенията с цел подобряване както на адравето, така и на резултати, докладвани от пациента (PROs)					
1:20 - 12:20	Лекция 7: Изготвяне на научна публикация (научна статия, постер). Добри практики при представяне на научна статия	60 min	 А. Изготвяне на научна публикация Б. Добри практики при представяне на научна статия 	Екатерина Павлова				
12:20 - 12:35 Q& A								

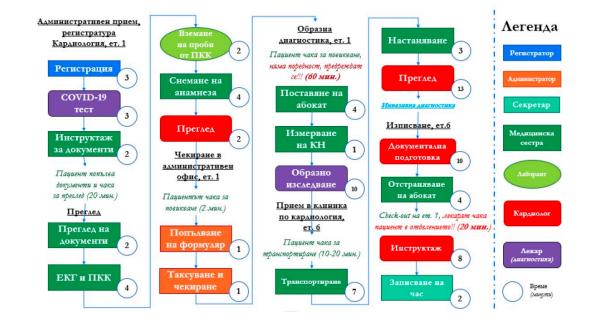
Future

Heart Care

TDABC CROMs PROMs IPU principles Trainings National Stroke Program VBHC Introducing FFR in stenting **TDABC**









Health outcomes and PROs

Atrial Fibrillation Effect on QualiTy-of-life (AFEQT) Questionnaire

Section 1. Occurrence of atrial fibrillation

Name or ID:

Are you currently in atrial tibrillation? Yes No If No, when was the last time you were aware of having had an episode of atrial fibrillation? (Please check <u>one</u> answer which best describes your situation) _____earlier today ______time than 1 year ago ______twest have a week ______twest having atrial fibrillation

Section 2. The following questions refer to how atrial fibrillation affects your quality of life. On a scale of 1 to 7, over the <u>cast 4 weeks</u>, as a result of your atrial fibrillation, how much were you bothered by: (Please circle one number which best describes your situation)

		Not at all bothered Or I did not have this symptom	Hardly bothered	A little bothered		Quite a bit bothered		E.dsmely bothered
1.	Palpitations: Heart fluttering, skipping or racing	1	2	3	4	5	6	7
2	Imegular heart beat	1	2	3	4	5	6	7
3	A pause in heart activity	1	2	3	4	5	6	7
4	Lightheadedness or dizziness	1	2	3	4	5	6	7

On a scale of 1 to 7, over the past 4 weeks, have you been limited by your atrial fibrillation in your: (Please circle one number which best describes your situation)

		Not at all insted	Hardly Inteled	Althe	Moderately limited	Culle a bit Imited	Very Imited	Externely imited
5	Ability to have recreational pastimes, sports, and hobbies	1	2	3	4	5	6	7
6.	Ability to have a relationship and do things with friends and family	1	2	3	4	5	6	7

On a scale of 1 to 7, over the past 4 weeks, as a result of your atrial fibrillation, how much difficulty have you had in: (Please circle one number which best describes your situation)

		No difficulty stall	Hardy any difficulty	A little officulty	Moderate	Quite a bit of difficulty	A lot of difficulty	Extreme officulty
7.	Doing any activity because you felt tired, fatigued, or low on energy	1	2	3	4	5	6	7
8	Doing physical activity because of shortness of breath	1	2	3	4	5	6	7
9	Exercising	1	2	3	4	5	6	7
10.	Walking briskly	1	2	3	4	5	6	7
11.	Walking briskly uphill or carrying groceries or other items, up a flight of stairs without stopping	1	2	3	4	5	6	7
12.	Doing vigorous activities such as lifting or moving heavy furniture, running, or participating in sheruous sports like tennis or necovitibal	1	2	3	4	5	6	7

Version 1.0 © 2009 St. Jude Medical, Inc. All Rights Reserved License Required for Use Developed by AFEQT Core Trans-John Sportse, MD, Mid America Heart Institute, Kansa City, MO, Pad Dorian, MD, St. Michaels Hospital, Toronto, ON Rosemary Bubien, RN, University of Alabama, Birmingham, AL; Caroline Bark, Phane D. M.S; Staven Lewis, PhD; Doma Godejahn, RSN, St. Jude Modrad, St. Padl, MN.

EuroHeart Failure Survey Form 2 2 Screening for heart failure This form should be completed on death or at discharge for all admissions to medical, cardiology or cardiac surgery wards, or wards for the care of the elderly (see the Screening Log Instructions for precise inclusion criteria). Regardless of the enrolment decision, this form should be returned to the EuroHeart Failure Centre as part of the study findings. Hospital code Country code Patient number Inclusion criteria: answer all questions 2.1 to 2.4 2.1 A clinical diagnosis of heart failure has been recorded during this Yes No admission (regardless of the primary reason for admission) 2.2 The patient has had a heart failure diagnosis recorded in the hospital Yes No notes at any time in the last 3 years 2.3 The patient has received a loop diuretic for any reason other than renal Yes No failure during the 24 hours prior to death or discharge 2.4 The patient has received treatment for heart failure or major ventricular Yes No dysfunction within the 24 hours prior to death or discharge (review the use of ACE-inhibitors, beta-blockers, all types of duratics, digitalis compounds and spironolactone during this period to determine the reason for administration) **Previous enrolment** 2.5 The patient has been enrolled previously in the EuroHeart Falure Study Yes No (check Patient Interview Log) Enrolment decision If the answer to any of the statements 2.1 to 2.4 is Yes and statement 2.5 is No, then the patient meets the study enrolment criteria. Record the decision in the Screening Log 2.6 This patient fulfils the enrolment criteria Yes No Other questions 2.7 Did this patient have an acute myocardial infarction on this admission Yes No 2.8 Did this patient have new onset or paroxysmal atrial fibrillation on this Yes No admission 2.9 Was the patient on insulin at discharge Yes No 2.10 Was this patient on an oral hypoglycaemic at discharge Yes No 2.11 Did the patient die during this admission Yes No

Future Values

If the patient fulfils the enrolment criteria then proceed to Form 3





Bulgarian Society of Cardiology

• Introducing FFR for stenting

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- Stroke management national program (VBHC)
- Training young cardiologists
 - Epidemiology and biostatistics
 - CROMs and PROMs
 - Scientific writing





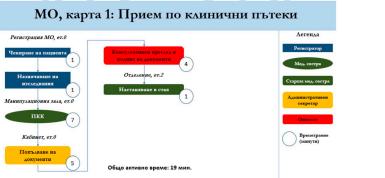


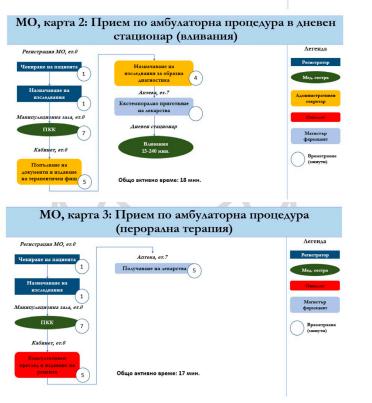
TDABC CROMs PROMs IPU principles Trainings



TDABC









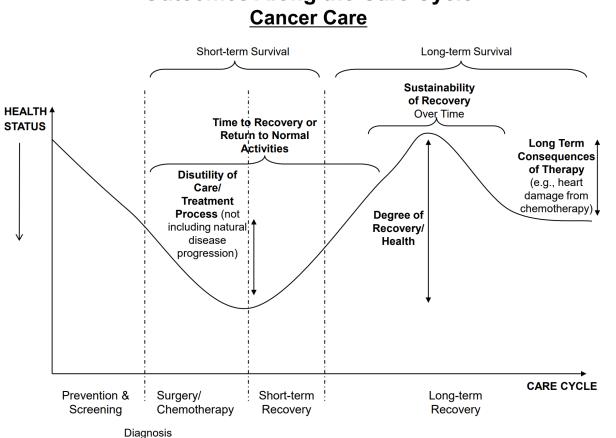


- Integrated cancer care
 - Medical oncology
 - Nuclear medicine
 - Radiotherapy



Health outcomes and PROs





Outcomes Along the Care Cycle

During the past week:	Not at	A	Quite	Very
	all	little	a bit	much
31. Have you coughed?	1	2	3	4
32. Have you coughed up blood?	1	2	3	4
33. Have you been short of breath when you rested?	1	2	3	4
34. Have you been short of breath when you walked?	1	2	3	4
35. Have you been short of breath when you climbed stairs?	1	2	3	4
36. Have you had a sore mouth or tongue?	1	2	3	4
37. Have you had problems swallowing?	1	2	3	4
38. Have you had tingling hands or feet?	1	2	3	4
39. Have you had hair loss?	1	2	3	4
40. Have you had pain in your chest?	1	2	3	4
41. Have you had pain in your arm or shoulder?	1	2	3	4
42. Have you had pain in other parts of your body?	1	2	з	4
43. Have you had allergic reactions?	1	2	3	4
44. Have you had burning or sore eyes?	1	2	3	4
45. Have you been dizzy?	1	2	3	4
46. Have you had splitting fingemails or toenails?	1	2	3	4
47. Have you had skin problems (e.g. itchy, dry)?	1	2	3	4
48. Have you had problems speaking?	1	2	3	4
During the past week:	Not at	A	Quite	Very
	all	little	a bit	much
49. Have you been afraid of tumor progression?	1	2	3	4
50. Have you had thin or lifeless hair as a result of your disease or treatment?	1	2	3	4
51. Have you worried about your health in the future?	1	2	3	4
52. Have you had dry cough?	1	2	3	4
53. Have you experienced a decrease in your physical capabilities?	1	2	3	4
54. Has weight loss been a problem for you?	1	2	3	4
Please answer the following questions	Not at	A	Quite	Very
only if you had surgery for lung cancer:	all	little	a bit	much
55. Have you had pain in the area of surgery?	1	2	3	4
56. Has the area of your wound been oversensitive?	1	2	3	4
57. Have you been restricted in your performance due to the extent of surgery?	1	2	3	4
58. Have you had any difficulty using your arm or shoulder on the side of the chest operation?	1	2	3	4
59. Has your scar pain interfered with your daily activities?	1	2	3	4
Were there any symptoms or problems that were not covered	Not at	A	Quite	Very
by the questionnaire, but were relevant for you in the past week?	all	little	a bit	much
60.	1	2	3	4
61.	1	2	3	4
62	1	2	3	4
© Copyright 2016 EORTC Quality of life Group. All rights reserved. Phase II completed.	1994	5 C		







- Introducing IPU principles
- Training young oncologists





Primary Care

Integrating Primary Care with Specialty Care

Disease specific

protocols and

training to shift

appropriate care

to lower cost

primary care

settings



Specialty IPUs

Telemedicine

consults to

efficiently

access

specialists

Embedded **Specialists** rotation in PC specialists in areas prevalent practices to in the population

Primary care for complex conditions embedded in specialty IPUs

Repeated relationships with affiliated specialists to facilitate efficient care integration

Primary Care Practices (Population Segmented)

Outpatient and Primary Care 2021; Future Values



enable

multidisciplinary

visits



VBHC case study



Specilaty IPU for kids with

- Asthma
- Infant hemangioma
- Obesity
- Premature babies
- Cystic fibrosis

Specialty IPU for adults with:

- Obesity
- Women'd health
- Dermatology

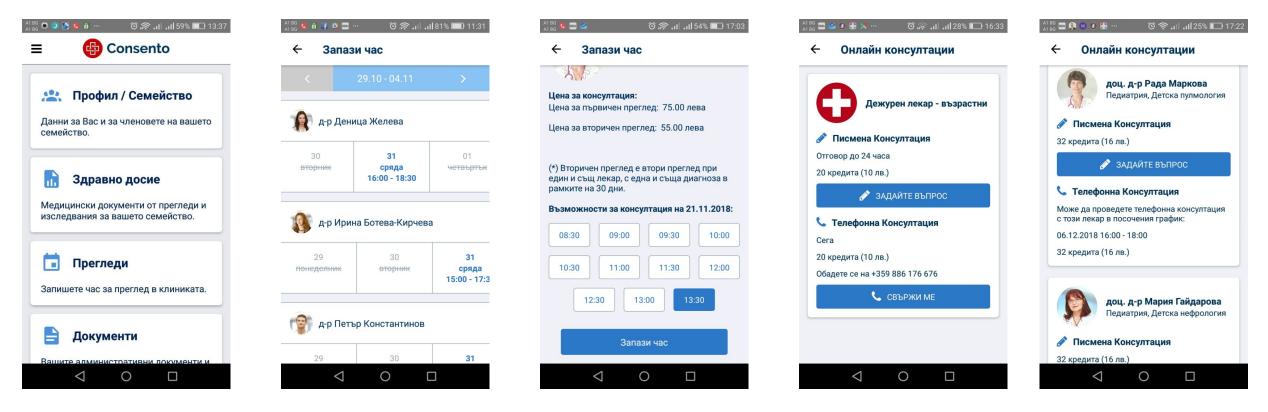
Integrated Primary Care with Specialty Care

- 24/7
- Primary & Specialty Care
- Laboratory
- Up to 48 hours stays
- Home care
- Pharmacy
- Telemedicine

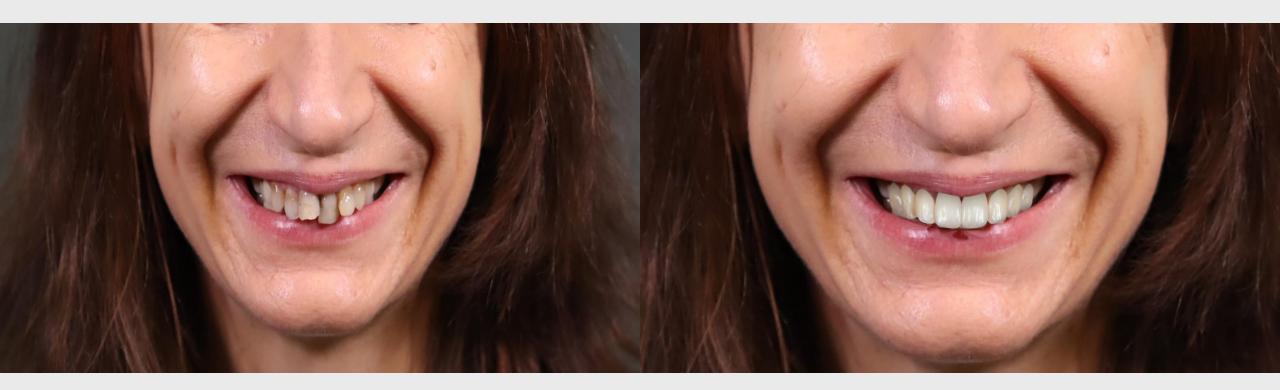
- Multidisciplinary team
- Clear leadership
- Single P&L
- IT platform for measuring results and processes
- Shared accountability for patients
- Patients from 0 to +100
 - Kids
 - Students
 - Working population
 - Elderly
 - Special populations

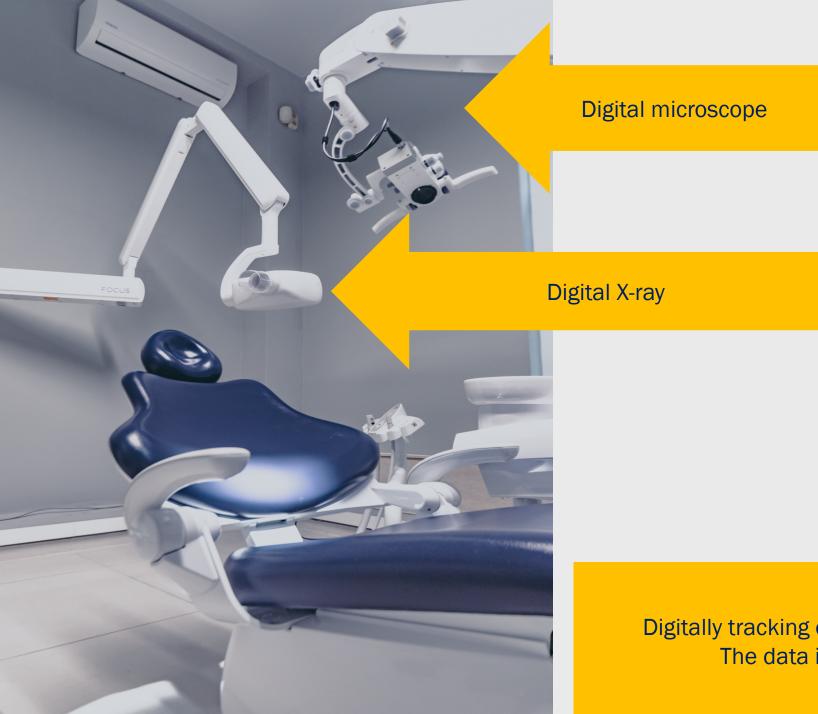






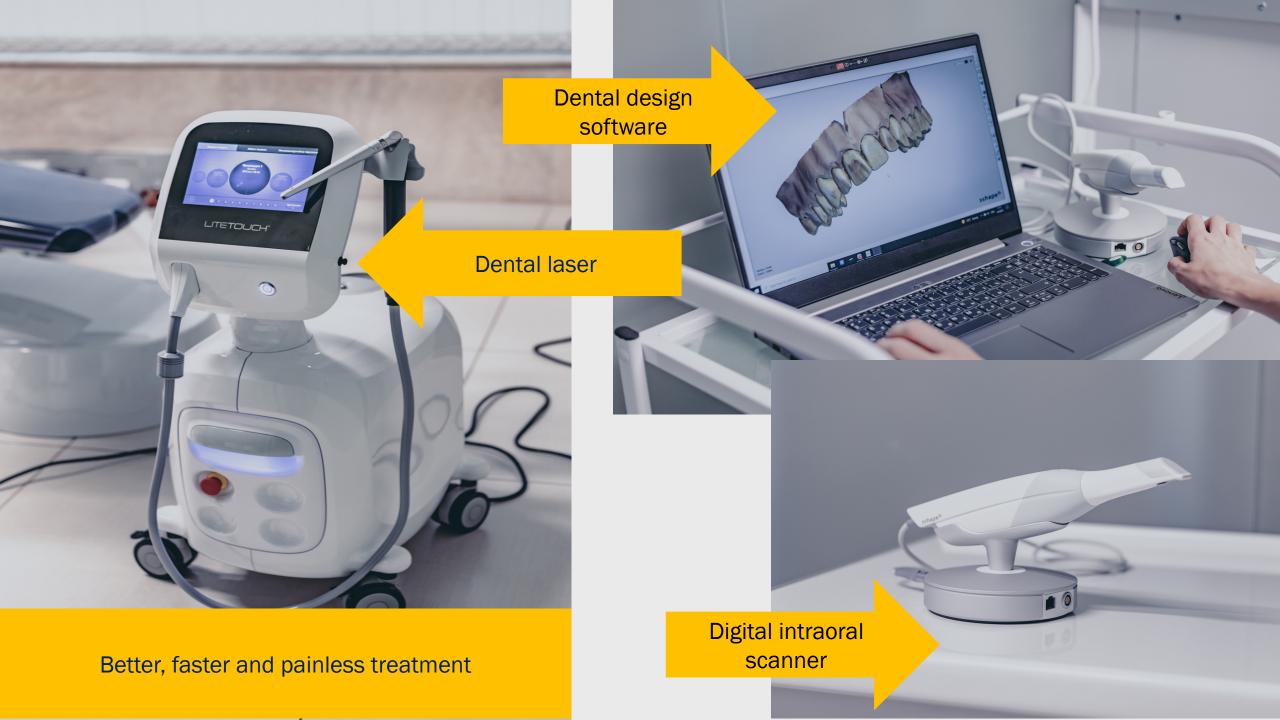
Dental Care







Digitally tracking outcome and progression of treatment. The data is stored in a cloud-based EMR.



VBHC domains

Re- organize care around patients conditions into IPU	Fully implemented	Our patients receive multidisciplinary treatment in the clinic.
Measure outcome and costs for every patient in the line of care	Partially implemented	Fully implemented in terms of costs. Partially implemented in terms of measuring outcomes.
Move to value based re- imbursed models and ultimately bundled payment for condition	Partially implemented	It's not done for all the conditions we treat.
Integrate and coordinate care across multisite cross-delivery systems	Still planning	
Expand services across geographically	Still planning	
Build an enabling information platform	Fully integrated	Fully digitalized working process implementing the available software.

Involvement of decision-makers



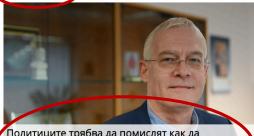






January 28th, 2022

ДЪРЖИМ БОЛНИЦИ НА ИЗКУСТВЕНО ДИШАНЕ 03-02-2022 06:30



Политиците трябва да помислят как да трансформираме тези, които не работят, НЗОК има възможност да плаща и за качество, казва проф. Петко Салчев Бюджетът на здравната каса за 2022 г. вече е в парламента и предстои да се разгледа от депутатите. Какви политики се залагат с него, намалени ли са бюджетите на болниците, ще има ли актуализация на цените на КП и с колко, защо скъпите лекарства са на отделен ред, попитахме проф. Петко Салче управител на НЗОК.

 Проф. Салчев, бюджетът на НЗОК за тази макрорамка е ясен, какви политики се зала
 НЗОК не може да задава политики, тя сам изпълнява. Ние се съобразяваме с така нај коалиционното споразумение, което бе ск/ се състави правителството. Затова новите

основно в областта на извънболничната медицинска помощ. Увеличени са средствата за тази дейност, защото неп казва, че тя е недофинансирана. Едно от предложенията в ПИМП, което е и в коалиционното споразумение, е за дец плаща потребителска такса от държавата, така че да помогнем лекарите, които се занимават с детско здравеопазва се, да се договорят и допълнителни стойности за дейностите на базата на наредбата на МЗ за диспансеризация и п - С какъв процент се обмисля да е увеличението на дейностите?

- Не мога да кажа, това ще се реши с преговорите, които ще води Надзорният съвет на НЗОК с БЛС. Другото, което м

Future Values is a non-governmental organization, an ambassador of the VBHC strategies from **Harvard Business School** for value-based healthcare delivery. Future Values aims to **implement innovative methodologies**, practices, experience and scientific achievements in the field of healthcare in medical practice, **education** of students, postgraduates and professionals in healthcare.



VALUE DRIVEN HEALTHCARE



GROWTH IS PAINFUL.

CHANGE IS PAINFUL.

BUT THERE IS NOTHING AS PAINFUL AS STAYING STUCK SOMEWHERE YOU DON'T BELONG.

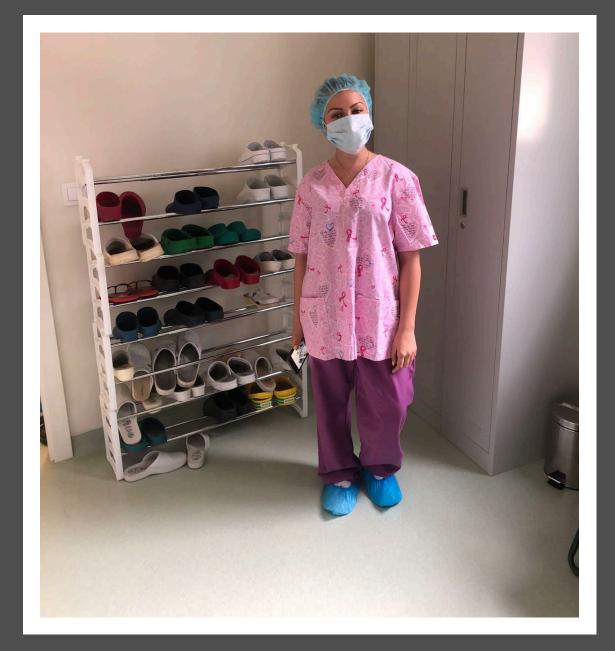
















Future Values

VALUE DRIVEN HEALTHCARE

Future values value driven healthcare

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EVIDENCE MATTERS