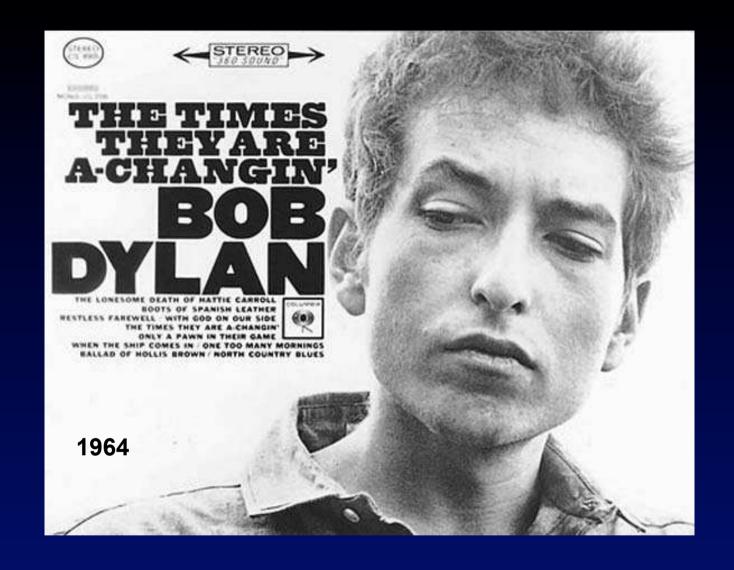
Increasing Collaboration in Health Services Management and Delivery in the Dutch-Caribbean

Prof. dr. A.J. Duits





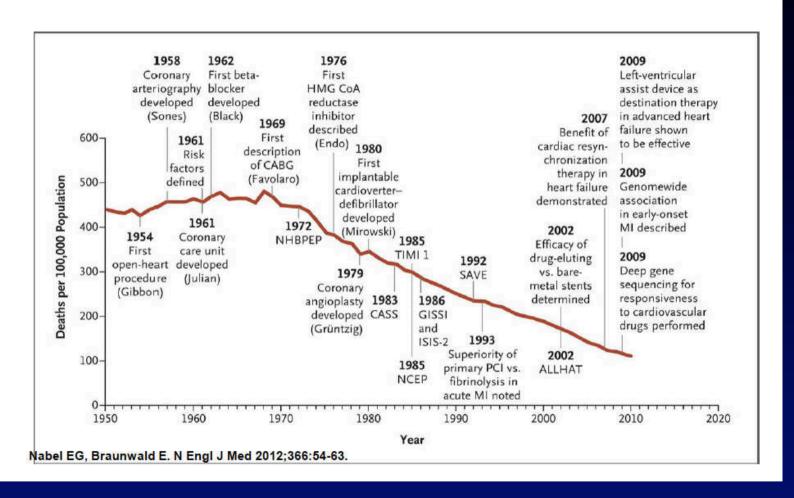
NOBEL PRIZE LITERATURE 2016

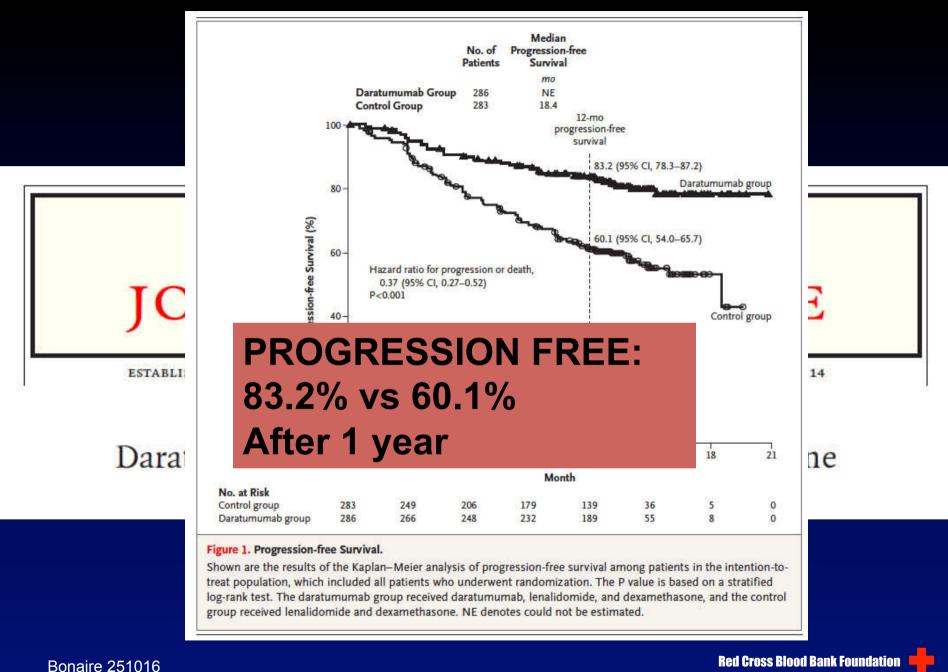
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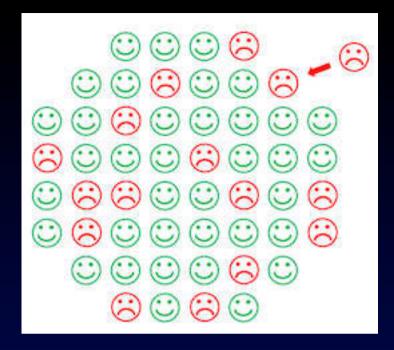
We Are Living in a Golden Age of Medicine

Decline in Deaths from Cardiovascular Disease in Relation to Scientific Advances









Zika Infection May Bring Future Immunity: Study









MINISTERIE VAN GEZONDHEID, MILIEU & NATUUR



01-02-2016: 800 platelet units pooled (pools of 4).

- Curacao
- Aruba
- Sint Maarten
- Bonaire

Hemovigilance:

- No adverse effects reported
- Neonatal/UV treatment
- Pediatric Tx







Dutch Caribbean

AFTER 10-10-2010



CAS

Aruba: 100.000

Sint Maarten: 40.000

Curacao: 150.000

Bonaire: 17.000



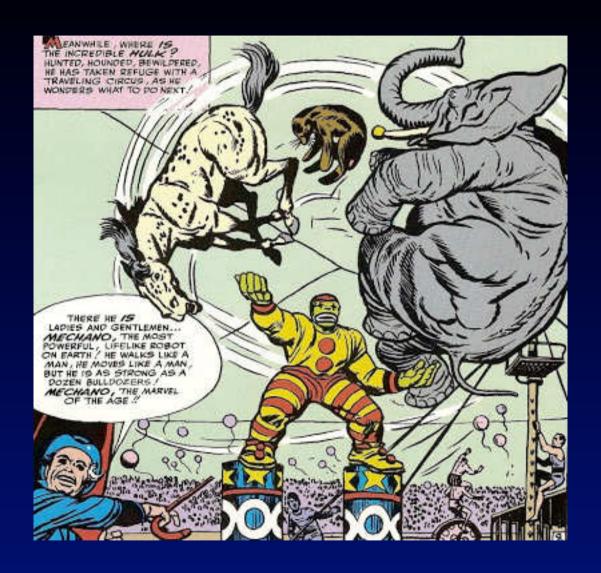






MEDISCHE SPECIALISTEN **USONA** WERKOMSTANDIGHEDEN EN INFRASTRUCTUUR **GMN CBV** OFICINA'S **OFICINA'S** MS HNO **ZIEKENHUIS:** ٧ **ZIEKENHUIS:** V GMSB/WERKGEVER VMSC **WET** В **FACILITEREND** В Н Н **FINAN SVB** C C WETGEVING +BIG WETGEVING **CIEN** +DECLARATIEWET FTE **HONORARIUM: HONORARIUM:** WORK **ADVENT** BUDGET **FEE FOR SERVICE SEHOS** AGE **GEEN ONDERNEMERSRISICO ONDERNEMERSRISICO** CHV PRIMAIRE EN SECUNDAIRE ARBEIDSVOORWAARDEN **PAT**

HUISARTSEN



Increasing Collaboration in Health Services Management and Delivery in the Dutch-Caribbean

Sounds of Success

RED CROSS BLOOD BANK FOUNDATION









DONORS: 100% VOLUNTARY NON-REMUNERATED

BLOOD PRODUCTS: 100% LEUKOREDUCED

SEROLOGY (HIV, HCV, HTLV, SYPH, HBV)

NAT (HIV,HCV,HBV) WNV

QUALITY: GMP (EU/AABB)



IDT:





PE 005-3 25 September 2007

Guide to the preparation, use and quality assurance of **BLOOD** COMPONENTS



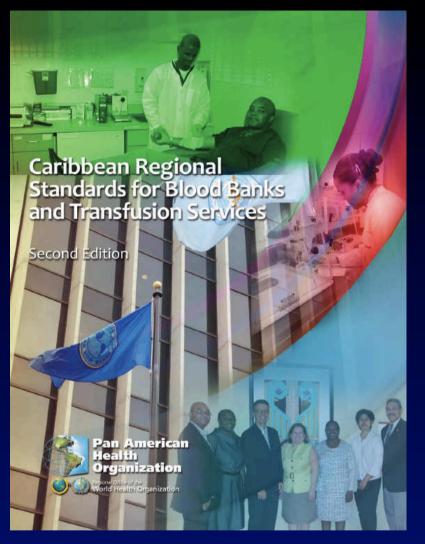
(CD-P-TS)

SUSTAINABLE SMALL SCALE **BLOOD BANKS** COMPLYING WITH EU QUALITY

PIC/S GMP GUIDE FOR

BLOOD ESTABLISHMENTS

NORMS





Ministry of Health

\mathcal{N} ATIONAL \mathcal{B} LOOD TRANSFUSION \mathcal{S} ERVICE



STRATEGIC

PLAN

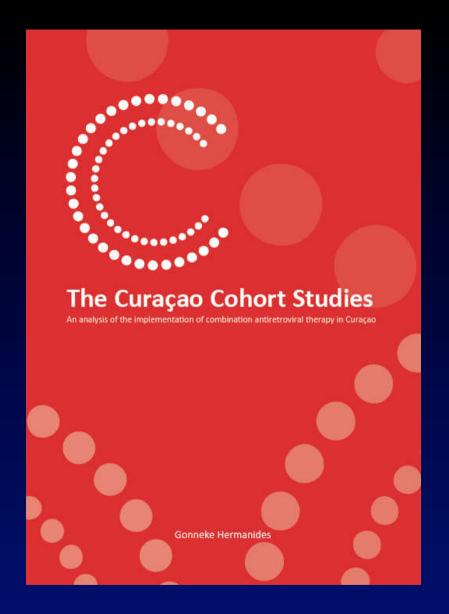
2013-2017



Dutch Caribbean labile blood provision



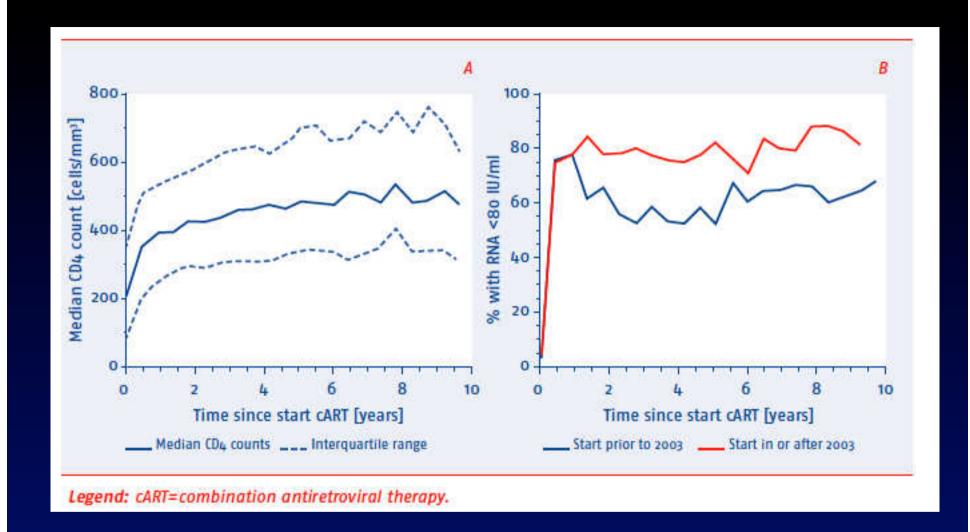
PAHO TRAINING GEORGETOWN GUYANA 19-21/09/2016





PREVENTION OF TRANSMISSION





CHARACTERISTICS OF HIV INFECTED POPULATION IN CURAÇÃO

"The HIV-1 Epidemic Amongst Men Having Sex With Men in the Netherlands is Dispersed Amongst a Large Number of Self-sustaining and Persistent Transmission Clusters: A Combined Mathematical and Phylogenetic Study on Observational Data" (PMEDICINE-

by Daniela Bezemer, Ph.D.; Anne Cori; Oliver Ratmann; Ard van Sighem; Gonneke Hermanides; Bas E. Dutilh; Luuk Gras; Nuno Rodrigues Faria; Rob van den Hengel; Ashley Duits; Peter Reiss; Frank de Wolf; Christophe Fraser



Accepted for publication



HIV:

- SHM (Netherlands)
- SRKB/SEHOS (Curacao)
- FMD (Bonaire)

Treating physicians/infectiologists:

- SXM/Aruba/Bonaire/Curacao
- DATA sharing!
- Training personnel

Neurosurgery (Aruba and Curacao)

Intensive care (Bonaire and Aruba)

NICU (Curacao, Bonaire and Aruba)

Oncology (Curacao, Bonaire, Sint Maarten)

Rheumatology (Curacao, Bonaire)

Infectious Diseases (Curacao, Aruba, Bonaire)

Public Health (Curacao, Bonaire)



GLOBAL HEALTH: LOCAL PUBLIC HEALTH

- DISEASES
- MULTI-CULTURAL SOCIETY

Infectious (

Globalizati leading to notion that single-han must rely t response.

INTERNATIONAL

REGULATIONS

(2005)

SECOND EDITION

ealth threats, nce — the to address t instead nt an effective



INNOVATIVE EARLY WARNING SYSTEM

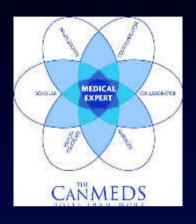


GP medical center/Surveillance center



Education





- Residents
- Interns
- Nurses
- Medical Specialists
- Medical professionals

Curacao, Aruba, Bonaire, Sint Maarten

TEACHING HOSPITAL UMCG AFFILIATE





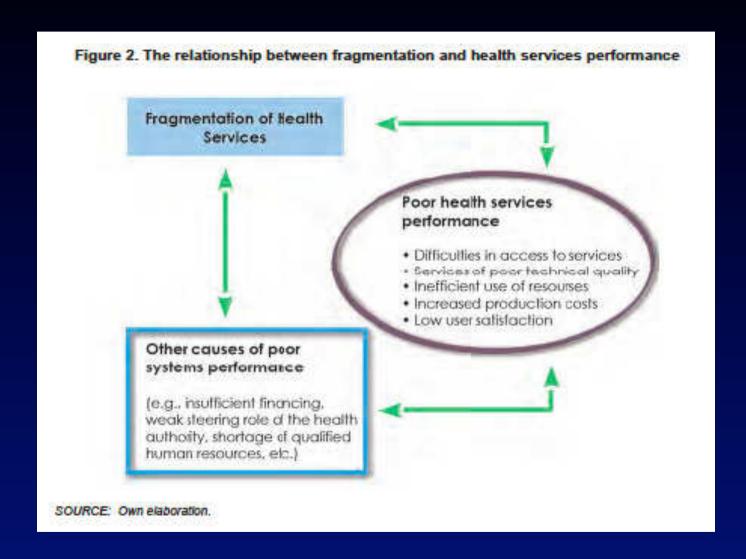


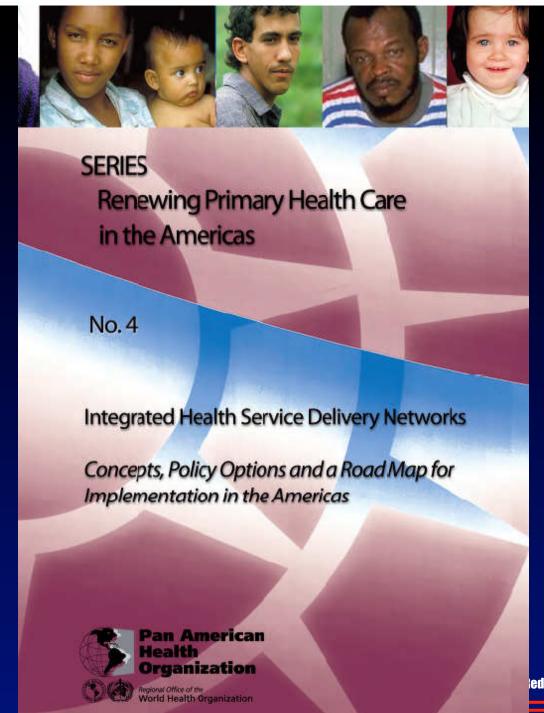


Increasing Collaboration in Health Services Management and Delivery in the Dutch-Caribbean

Under construction/design

HEALTHCARE SERVICES





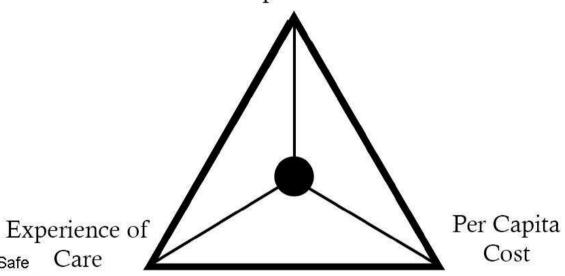




CURAÇAO HEALTH CARE SYSTEM

Integrated Health Services Delivery Networks (IHSDNs) a network of organizations that provides, or makes arrangements to provide, equitable, comprehensive and integrated health services to a defined population and is willing to be held accountable for its clinical and economic outcomes and the health status of the population served.

Health of a Population



Care Safe

- Effective
- Patient centered
- Efficient
- Timely
- Equitable



Better care for individuals, better health for populations, lower per capita costs

CAS



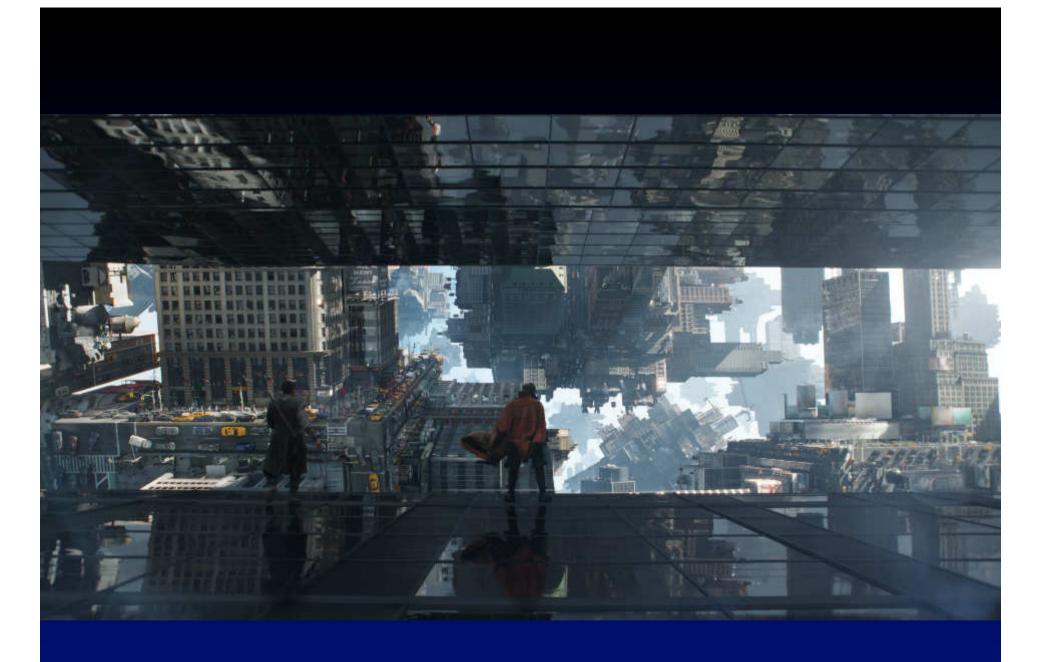


BEFORE 10-10-2010:

Healthcare: island responsibility

AFTER 10-10-2010:

- CAS: Healthcare: island responsibility
- BES: Healthcare: Holland responsibility



Graph 2. List of essential attributes of IHSDNs according to principal domain

List of essential attributes of IHSDNs

		Coar culturation of the population for stary consisted and accomplise become days of the best to medicant preferences of the population, of all the entire the supply of health serves.	1
	Model of care	An autonomy network of health care facilities that offer, health principles dispase prevention dispase transported from the transported from and peliative surround that integrates programs trajecting specific dispases with and populations, as well as personal and public health services.	2
		A multi-deceptinary first level of care that covers the or tire propulation, serves as a geneway to the system and integrates and coordinates health dare, in addition to meeting most of the population's health meets.	3
		Delivery of specialized services at the most appropriete facation, preferably in non-hospital settings	d
		toistence of mechanisms to coordinate health care throughout the health service continuum.	
1		Care that is person, family- and community-centered and that takes into account cultural and gender-related characteristics and diversity	
Principal domains	Governance and strategy	A unified system of governance for the entire network	7
		Broad social participation	
		Intersectoral action that addresses wider determinants of health and equity in health.	
	Organization and management	эторы kid тахырынын 6 ситем эфективурынын орункы салын хүркев.	10
		Sufficient, competent and committed human recourses for health that are valued by the increase.	11
		An integrated information system that links all network members with data disaggregated by sex, ago, place of residence, where origin, and other pertinent variables	12
	°	Results-based management	
	Financial allocation and incentives	Advances Functing and Financial incentives aligned with network goals	14

oss Blood Bank Foundation 🛑

CARIBBEAN PERSPECTIVE

Box 1. "Shared Services" in Caribbean Countries

A special case of health services integration is that of "shared services," which relates to arrangements for the purchase of services, particularly at the third level of care, among some small Caribbean countries. From the historical standpoint, cooperation and integration efforts in this region have been present since the end of the nineteenth century and include the creation of the Caribbean Free Trade Association (CARIFTA) in 1968 and the Caribbean Community (CARICOM) in 1974. There are also agreements for the purchase of services among some countries in the region (e.g., Dominica purchases services from Martinique, Guadeloupe, Barbados and the USA). Several countries in the region such as Barbados and the Eastern Caribbean countries (Anguilla, Antigua and Barbuda, British Virgin Islands, Dominica, Grenada, Montserrat, St. Kitts and Nevis, St. Lucia, and St. Vincent) continue to be interested in expanding existing exchange agreements. Within this framework, arguments in favor of the implementation of shared services are usually made in the case of small populations (e.g., Montserrat has only 4,800 inhabitants), limited development of the health services infrastructure, budget constraints, geographic proximity, existence of good transportation links between the islands, and similar epidemiological and health profiles. In the past, related efforts have included services for surgery and anesthesia, medicine, obstetrics, gynecology, pediatrics, psychology and mental health, laboratory, radiology, and equipment maintenance. At present, unmet needs also include services for traumatology, neurosurgery, orthopedics, heart surgery, pediatric surgery, oncology, clinical laboratory, and pathology. Other areas of potential collaboration include chronic diseases, mental health, dialysis, rehabilitation, health worker training, and shared databases.





ESSENTIAL = TRUST

- OPEN COMMUNICATION
- SHARING RELEVANT DATA/INFORMATION
- SHARED VISION
- LESSONS LEARNED SUCCESSFULL COLLABORATIONS







Shared infrastructure:

Volume, quality and costs

- Dedicated facilities
- Single Island Hospital location

FACILITIES:

- Redundant
- Cooperation in teams!
- Patient population
- Costs
- Volume
- Availability





79.1 km Distance from Curação to Bonaire



CP/EP



MYTHS DEBUNKED



Relationship between volume and quality in healthcare

Tijd voor een brede benadering



CONSORTIUM ONDERZOEK KWALITEIT VAN ZORG

REDACTIE

Teun Zuiderent-Jerak

Tijn Kool

Jany Rademakers

2012



Policy of collaborative efforts should focus on quality optimization of organization and delivery of healthcare and not focus unilaterally on a so-called sufficient quantity of patients

For high-risk complicated surgical interventions volume-quality rate influenced by:

- surgical expertise
- Support by the hospital organization
- Multidisciplinary collaboration

Other factors:

- Diagnostic and supporting service teams
- Staff composition
- Information system supporting pre- and postoperative processes

Other crucial factor:

* Obtaining and maintaining expertise of medical professionals

Volume-quality debate:

- Different evaluation criteria from different perspectives
- Society perspective
- Organizational perspective
- Professional' perspective
- Patient' perspective

Society perspective:

- Volume initiatives contribute to quality, accessibility and affordability healthcare

Organizational perspective:

- Efficient organization of healthcare, strategic positioning, collaboration and competition

Professional perspective:

- Sufficient expertise
- Multidisciplinary collaboration
- Career development

Patient perspective:

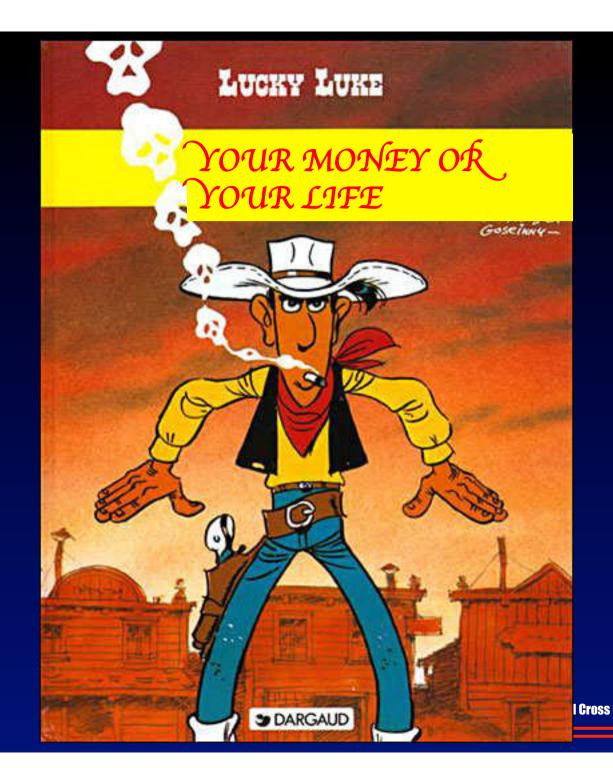
- Individual results
- Freedom of choice
- Geographical accessible care

LEAST DISCUSSED!



Results: hernia, obstetrics, bariatric surgery, breast cancer and hemophilia

*organizational and professional perspective



Patient-Centered Perspective

Personal Health Care

Building a Relationship

- Preferred means of communication
- · Involving families and caregivers
- . Respect, Dignity, and Trust
- Continuity
- Provider/Team
- Clinical Management
- Information

Patient

Shared Decision Making

ZZ

MK

Preference centered health care choice made by the patient together with the provider

- Education
- Decision Support Tools
- Resources

Patient Participation

- Practice information
- New patient orientation
- Personalized handbook
- Patient advisory board
- Focus groups

Provider skills

- Cultural competency
- Motivational interviewing
- Enhanced communication skills
- Managing disagreement

Self Management

Patients, not health care providers, are the primary managers of their health conditions

- Education
- Support Tools
- Resources
- Home Telehealth, My HealtheVet, Other tools





4 perspectives:

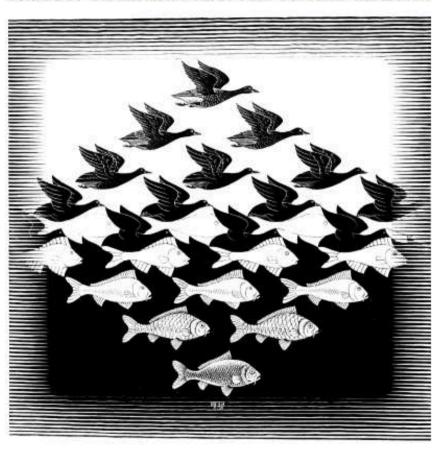
- Society
- Organizational
- Professional
- Patient

COLLABORATION IN HEALTH SERVICES

- SHARED RESPONSIBILITY
- SHARED OPPORTUNITY
- SCIENTISTS/PROFESSIONALS/INSTITUTES COLLABORATE
- GOVERNMENTS/ SHOULD FURTHER FACILITATE
 (IMPROVEMENT)
 Red Cross Blood Bank Foundation

CHANGING MINDSETS

STRATEGY ON HEALTH POLICY AND SYSTEMS RESEARCH









Call for proposals

Caribbean Research: a multi-disciplinary approach

2016 2nd call for proposals

HEALTHY LIFESTYLE: CURACAO & BONAIRE

INFECTIOUS DISEASES: CURACAO & ARUBA

CLINICAL GENETICS: CURACAO & ARUBA













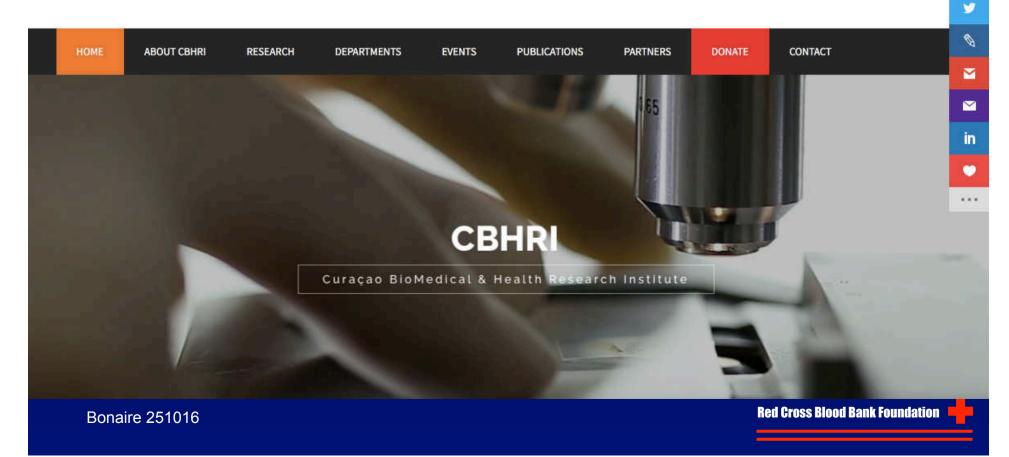


Santa Rosaweg 122-124 Willemstad, Curação

Tel: +5999 522 6613 Email: info@cbhri.com Hours: Monday - Friday 9:00 AM - 6:00 PM

CBHRI Chamber of Commerce number: 139600





Clinical Review & Education

JAMA | Special Communication

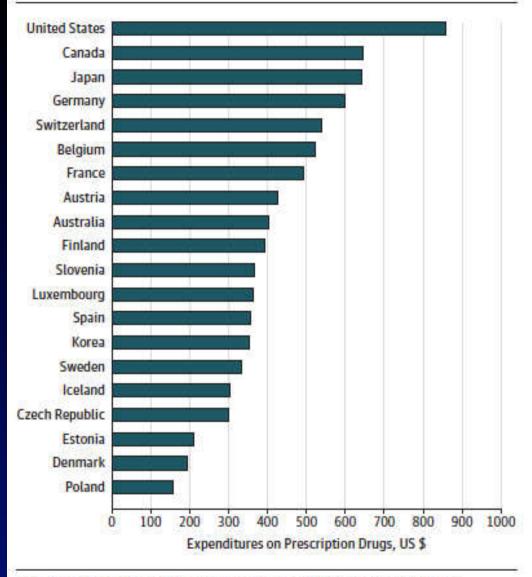
The High Cost of Prescription Drugs in the United States Origins and Prospects for Reform

Aaron S. Kesselheim, MD, JD, MPH; Jerry Avorn, MD; Ameet Sarpatwari, JD, PhD

JAMA. 2016;316(8):858-871. doi:10.1001/jama.2016.11237

Red Cross Blood Bank Foundation

Figure 1. Per Capita Spending on Prescription Pharmaceuticals



Data are derived from the Organisation for Economic Cooperation and Development (OECD), reflect expenditures in 2013 (or the nearest year), and include all countries for which values were reported. Data used with permission from OECD, Health at a Glance 2015: OECD Indicators, 2015.8

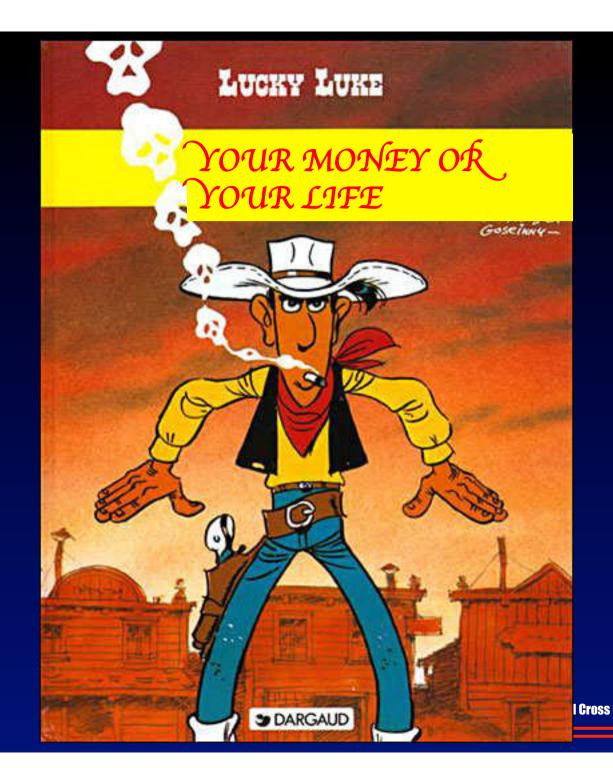
Table 1. Examples of Country-Specific Average Drug Prices for Top-Selling Drugs in 2015

	Monthly Price, US \$					
	United States		5			
Drug	Nondis- counted Price	Estimated Discounted Price	Canada	France	Germany	
Adalimumab (Humira), 40 mg biweekly	3430.82	2504.50	1164.32	981.79	1749.26	
Fluticasone/salmeterol (Advair), 250 µg, 50 µg daily	309.60	154.80	74.12	34.52	37.71	
insulin glargine (Lantus), 50 insulin units daily	372.75	186.38	67.00	46.60	60.90	
Rosuvastatin (Crestor), 10 mg daily	216.00	86.40	32.10	19.80	40.50	
Sitagliptin (Januvia), 100 mg daily	330.60	168.61	68.10	35.40	39.00	
Sofosbuvir (Sovaldi), 400 mg daily	30 000.00	17 700.00	14943.30	16 088.40	17 093.70	
Trastuzumab (Herceptin), 450 mg every 3 wk	5593.47	4754.45		2527.97	3185.87	

Source: Bloomberg Business report and SSR Health. 10

EPO: 50x more expensive!





Prof. dr. A.J. Duits

