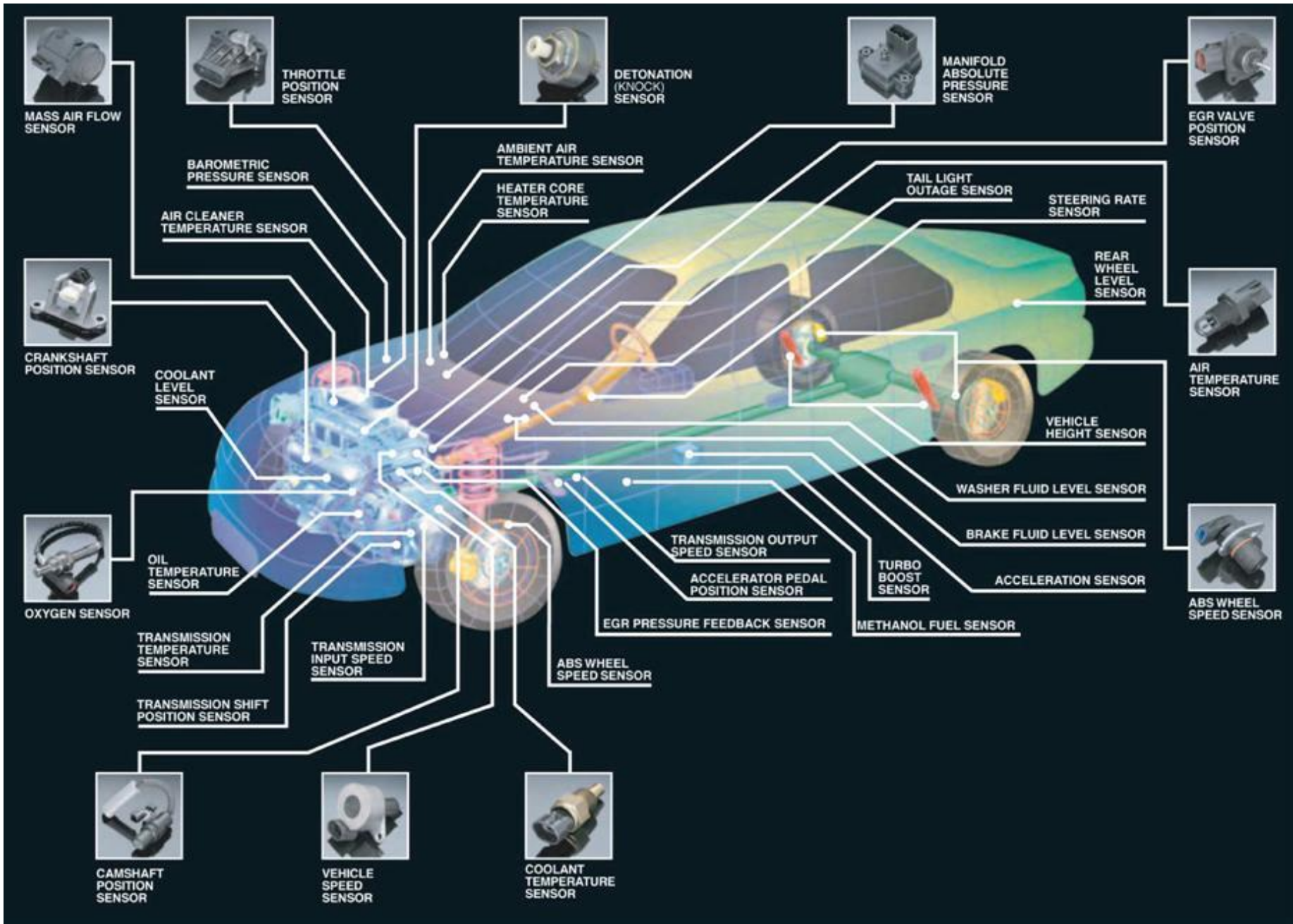


Disruptive changes in healthcare

Erno Duda

Béla





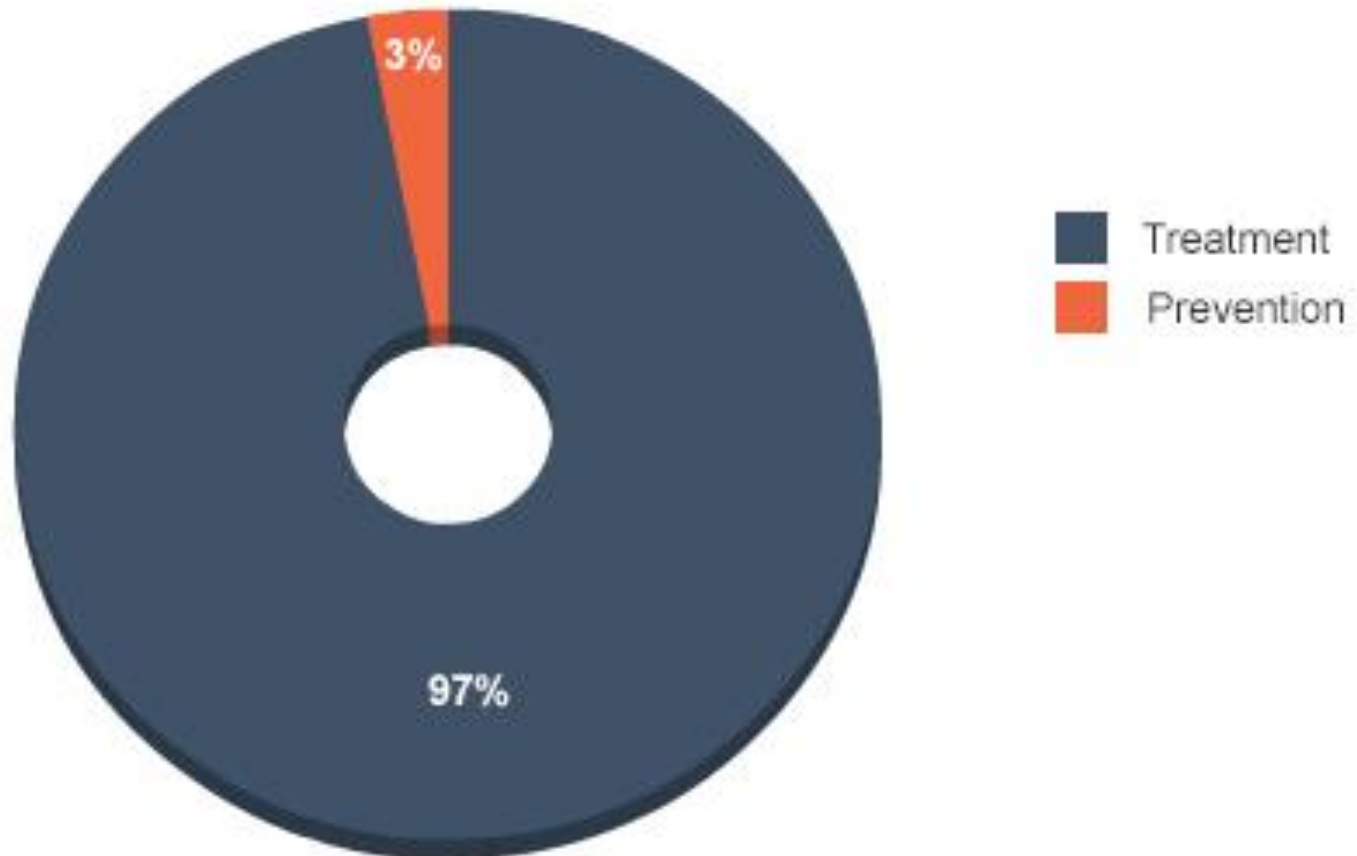
How is Béla?



- Blood sugar level: 12
- Coronary artery narrowed by 80%
- Venous Thromboembolism risk
- Atrial fibrillation
- Early stage colorectal cancer

Only 3% of total healthcare spending goes towards prevention

National health expenditure (in \$US billions) by source, 2011



Evidence Based Preventive Medicine is a Key Solution

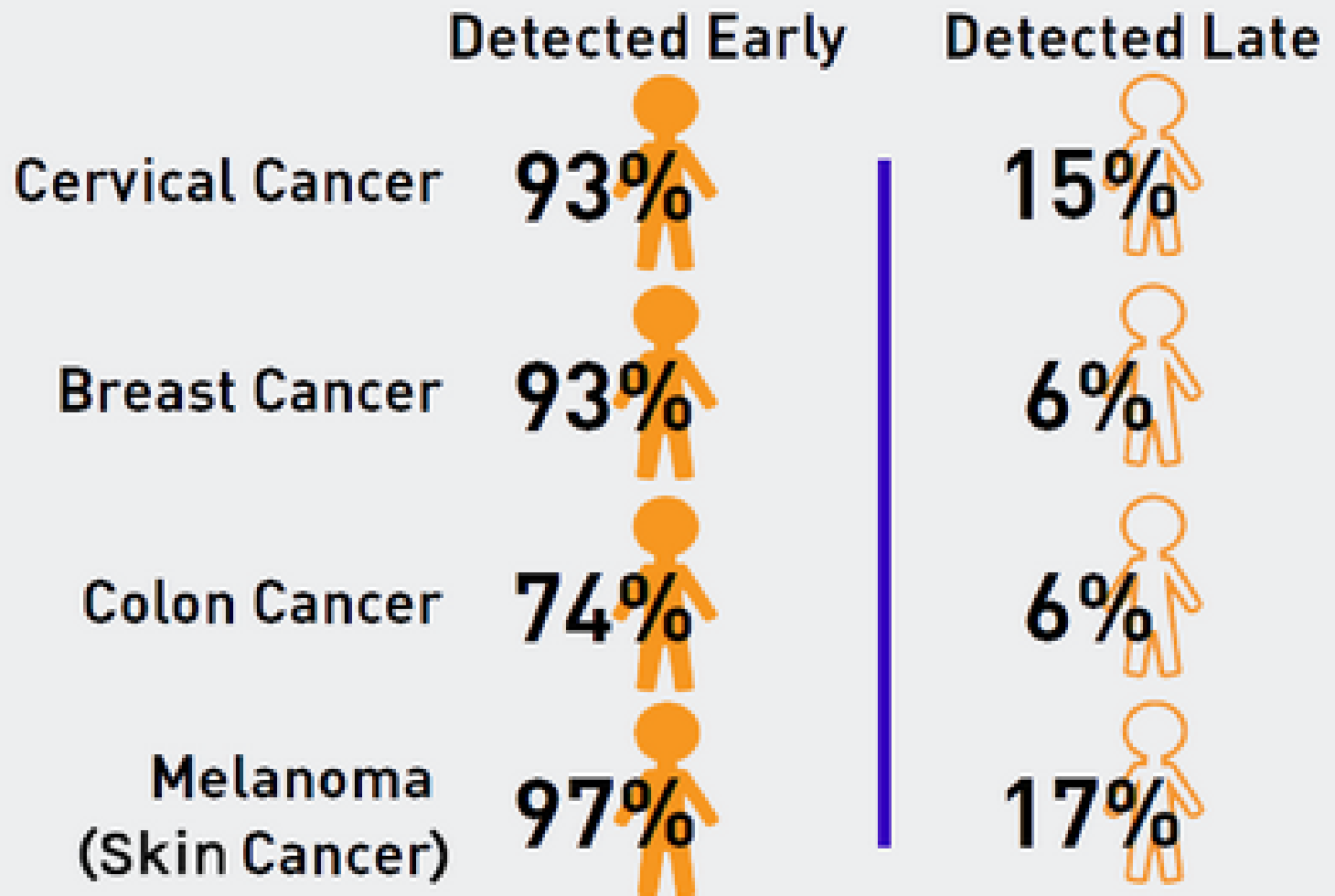
Centers for Disease Control and Prevention has found that:

↘ 80% of Heart Disease and Type II Diabetes as well as

↘ 40% of Cancer are ***Preventable***

- if people just:
 - » stopped smoking,
 - » ate healthy and
 - » exercised











Survival Rates



*Measured by 5 year survival rates
**Source: American Cancer Society

Health risk factors unknown to the „owner”

Elevated Risk ?

NAME	CONFIDENCE	YOUR RISK	AVG. RISK	COMPARED TO AVERAGE
Atrial Fibrillation	★★★★★	33.9%	27.2%	1.25x 
Prostate Cancer ♂	★★★★★	27.0%	17.8%	1.51x 
Age-related Macular Degeneration	★★★★★	14.1%	6.5%	2.15x 
Rheumatoid Arthritis	★★★★★	3.2%	2.4%	1.34x 
Restless Legs Syndrome	★★★★★	2.5%	2.0%	1.25x 
Multiple Sclerosis	★★★★★	0.47%	0.34%	1.37x 
Esophageal Squamous Cell Carcinoma (ESCC)	★★★★★	0.43%	0.36%	1.21x 
Stomach Cancer (Gastric Cardia Adenocarcinoma)	★★★★★	0.28%	0.23%	1.22x 
Scleroderma (Limited Cutaneous Type)	★★★★★	0.08%	0.07%	1.24x 
Esophageal Squamous Cell Carcinoma (ESCC)	★★★★★	0.43%	0.36%	1.21x 

ED

erno duda
Profile settings[add new kit](#)

Feed

[Your kits](#)[FAQ & support](#)[Order Kits](#)

gut

your gut data

[open sample dashboard](#) • 11 Feb 2015

Here is the overall makeup of your gut sample from kit 361-014-320, and how you compare to the average person in our dataset. Open the sample dashboard to explore!



Dashboard



Compare



Tree



Bacteria name	You	Average
<input type="radio"/> Firmicutes	54.3%	59.5%
<input type="radio"/> Bacteroidetes	41.3%	22.3%
<input type="radio"/> Cyanobacteria	2.04%	0.193%
<input type="radio"/> Actinobacteria	0.686%	2.43%
<input type="radio"/> Proteobacteria	0.597%	3.15%

showing bacteria at phylum-level

gut

we received your gut sample

[open sample dashboard](#) • 23 Jan 2015

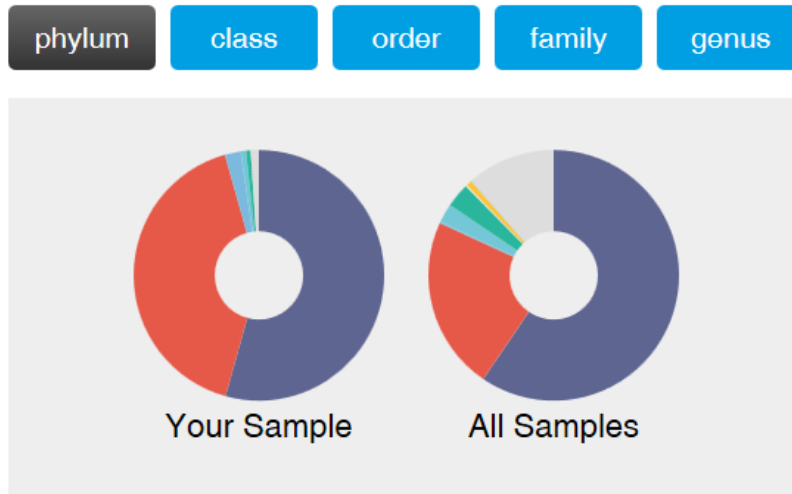
We received your gut sample from kit# 361-014-320 and it entered the processing pipeline.

[Contact us!](#)

Your Gut Sample

All samples

This chart shows how your sample compares to the selected group; we start by comparing you to all samples, but you can choose another comparison from the list on the right. We then show you all the bacteria in your sample at the selected level and how you compare. The bar next to each bacteria shows the normal range in green —about two thirds of people fall into this group. Your sample is marked with a gray line (white when hovering).



Bacteria name

▼ You

Average

Compare

Firmicutes



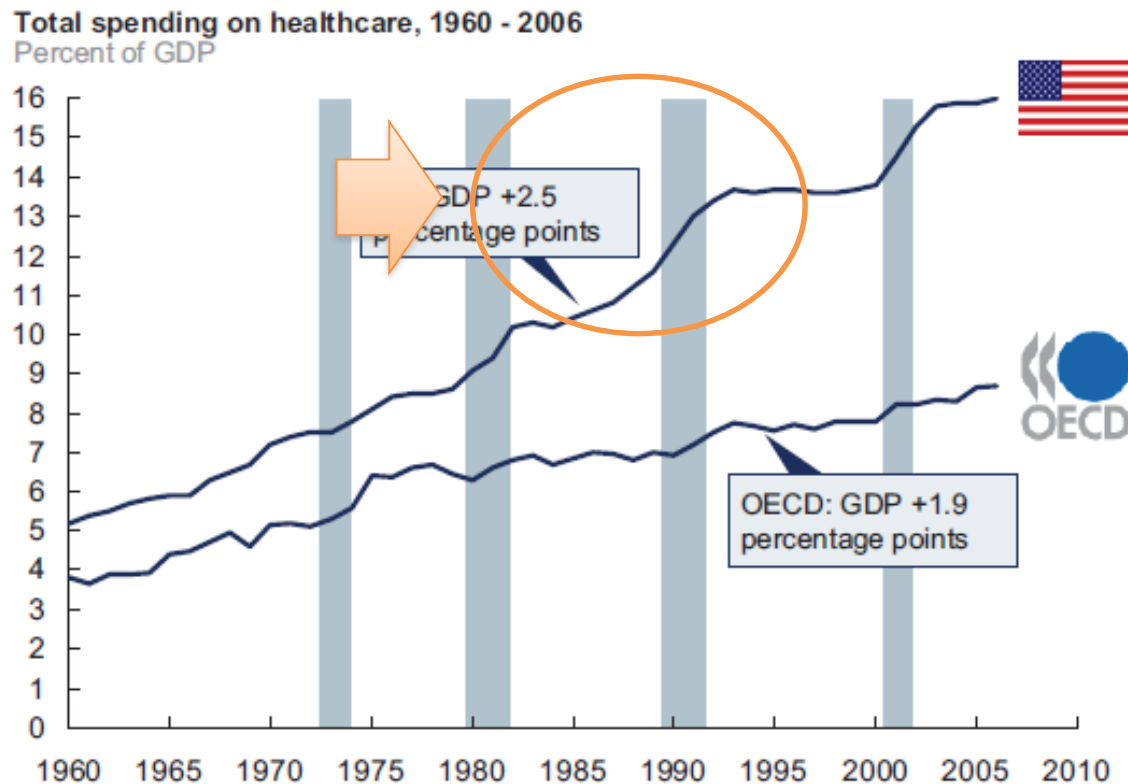
Bacteroidetes



- Vegetarians
- Paleo Diet
- Healthy Omnivores
- Vegans
- Heavy Drinkers
- Weight Loss
- Weight Gain
- Antibiotics
- All Samples

Healthcare Spending is Unsustainable

OECD countries have seen healthcare growth exceed GDP by nearly 2 percentage points a year, with the US as a clear outlier



Greenspan, HIMSS2009 Annual Conference & Exhibition

- "Healthcare spending is unsustainable in the current economic climate"
- "If you cannot solve the overall funding problem, the [global] competitive issue will be quite secondary"
- "There's going to be a clash invariably because resources are not going to be as ample as they have been."

¹ OECD median excluding US; sample size increased from 12 countries in 1960 to 29 in 2006

SOURCE: OECD Health Data 2008

If the trend continues, healthcare will consume an ever-growing and unsustainable proportion of the developed nations' wealth



Projected healthcare spend
Percent of GDP¹

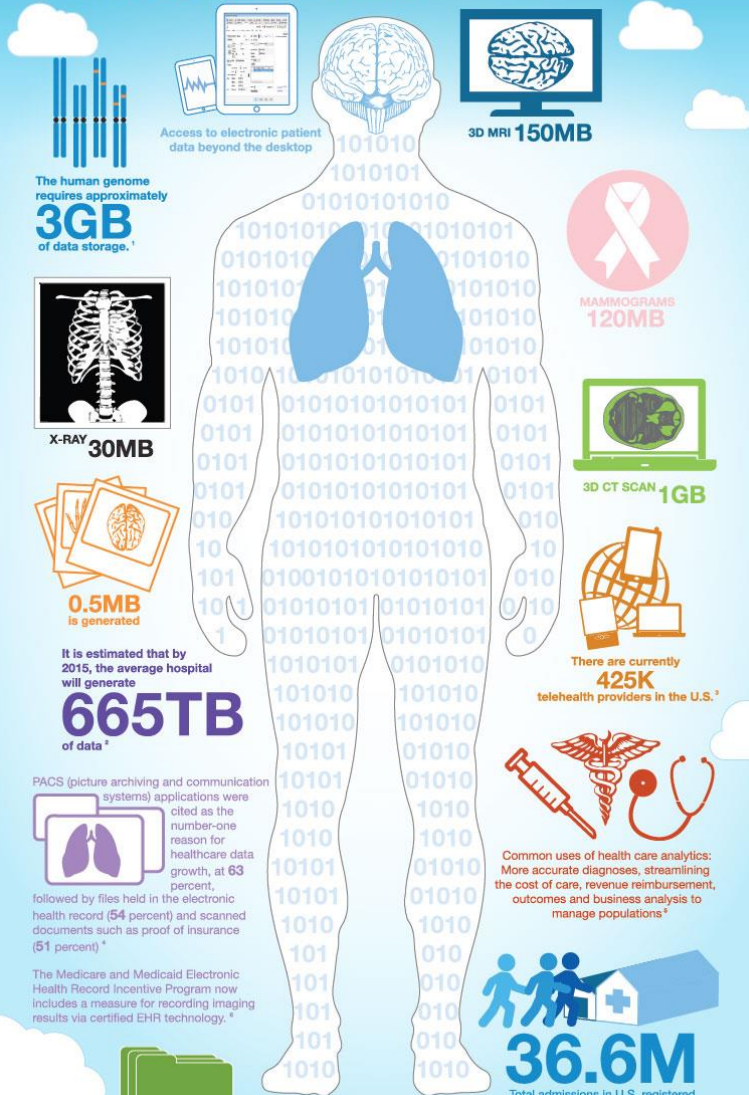
OECD countries	2005	2030	2050	2070
▪ US	15.3	24.9	36.7	65.6
▪ Switzerland	11.6	18.8	27.8	49.8
▪ France	11.1	18.0	26.6	47.6
▪ Germany	10.7	17.4	25.6	45.9
▪ Greece	10.1	16.4	24.2	43.3
▪ Canada	9.8	15.9	23.5	42.0
▪ Netherlands	9.2	14.9	22.0	39.5
▪ Denmark	9.1	14.8	21.8	39.0
▪ Italy	8.9	14.5	21.3	38.2
▪ UK	8.3	13.5	19.9	35.6
▪ Turkey	7.6	12.3	18.2	32.6
▪ Mexico	6.4	10.4	15.3	27.5

¹ Linear extrapolation; assumes healthcare continues to grow at +2.0 percentage points above GDP

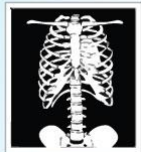
SOURCE: Forecast model assuming real GDP growth of 2.0%, healthcare spend growing at 0.95/1.9 percentage points above; OECD Policy Implications of the New Economy 2000 - 2050 (2001); Global Insight WMM 2000 - 2037

The Body as a Source of Big Data

Today data storage is essential for healthcare providers to see a patient's complete story of care, make the most informed decisions and enhance treatment and outcomes.



The human genome requires approximately **3GB** of data storage.*



X-RAY **30MB**



0.5MB is generated

It is estimated that by 2015, the average hospital will generate

665TB of data*

PACS (picture archiving and communication systems) applications were

cited as the number-one reason for healthcare data growth, at 63 percent, followed by files held in the electronic health record (54 percent) and scanned documents such as proof of insurance (51 percent)*

The Medicare and Medicaid Electronic Health Record Incentive Program now includes a measure for recording imaging results via certified EHR technology.*



Medical image archives are increasing by **20-40%** annually*



Access to electronic patient data beyond the desktop



3D MRI **150MB**



MAMMOGRAMS **120MB**



3D CT SCAN **1GB**



There are currently **425K** telehealth providers in the U.S.*



Common uses of health care analytics: More accurate diagnoses, streamlining the cost of care, revenue reimbursement, outcomes and business analysis to manage populations*



36.6M Total admissions in U.S. registered hospitals, according to the American Hospital Association*

Today,

80% of data is unstructured, such as images, video and email.*

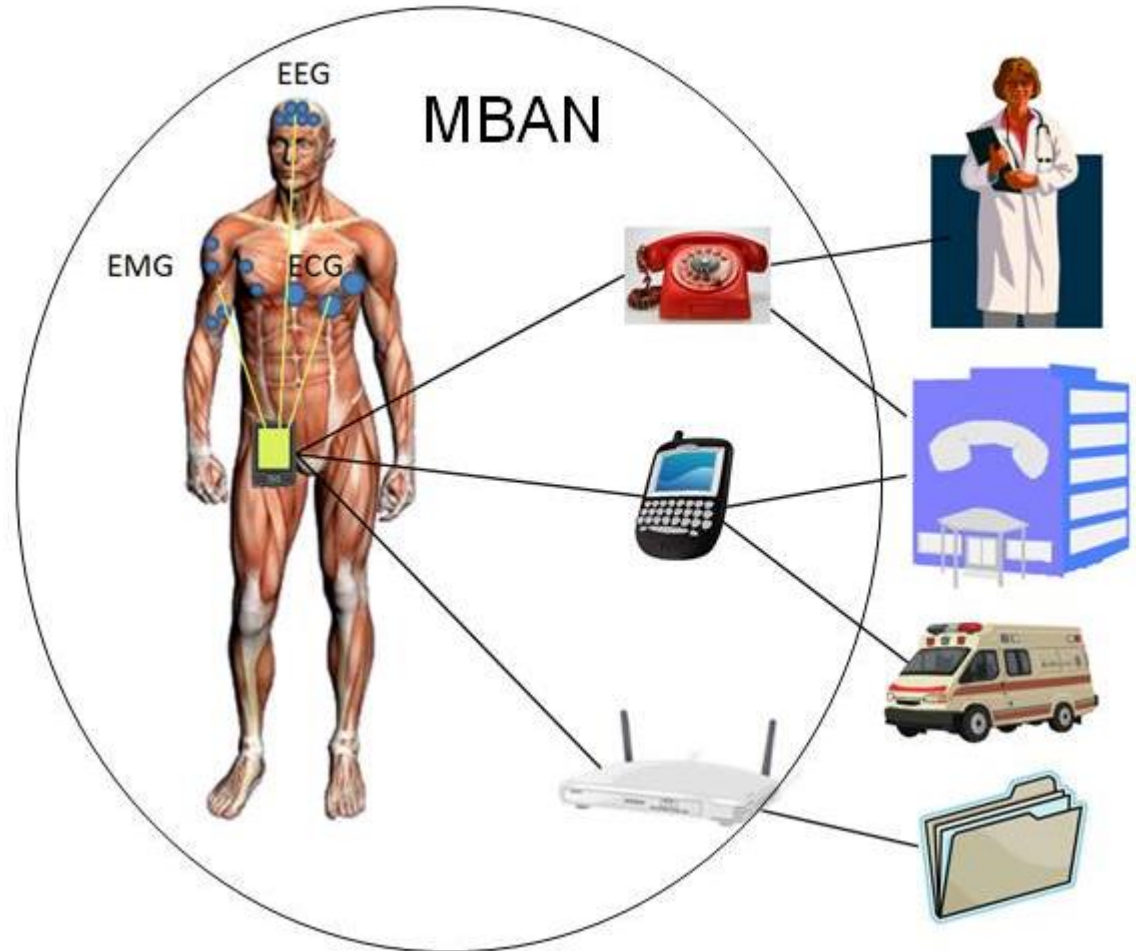
Wearable Medical BAN Applications

- **Bio-Medical**

- EEG Electroencephalography
- ECG Electrocardiogram
- EMG Electromyography (muscular)
- Blood pressure
- Blood SpO2
- Blood pH
- Glucose sensor
- Respiration
- Temperature
- Fall detection

- **Sports performance**

- Distance
- Speed
- Posture (Body Position)
- Sports training aid





i-calQ has developed the world's first smartphone-based point-of-care integrated mobile diagnosis and decision support system



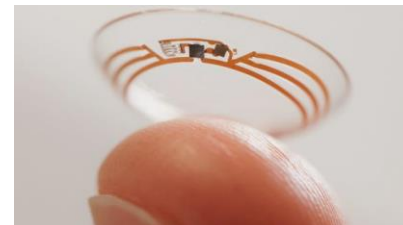
General Practitioner Toilet, gives you a full health report based on a urine sample it collects from the basin.



Biomeme is end-to-end mobile platform to isolate DNA



blood glucose "tattoo"



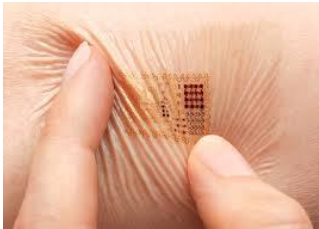
Google unveiled a prototype "smart" contact lens to monitor blood glucose levels



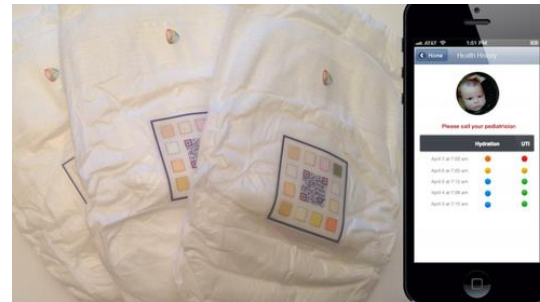
Biopatch is a wearable sensor for continuous monitoring by measuring ECG.



Emotiv Insight is a sleek, 5-channel, wireless headset that records your brainwaves and translates them into meaningful data you can understand.



BioStamp is a collection of sensors within collect data such as body temperature, heart rate, brain activity, and exposure to ultraviolet radiation.



Smart Diapers work with our app to keep track of your child's health

MobiSante's smartphone-based ultrasound



MobiUS

proteus
DIGITAL HEALTH



HEALTHCARE MONITORING

The FDA approval could foster the development and approval of other ingestible sensors





Bluetooth Low Energy



Waterproof



USB Connectivity



Charger



Electrodermal Activity



Temperature












Gyroscope



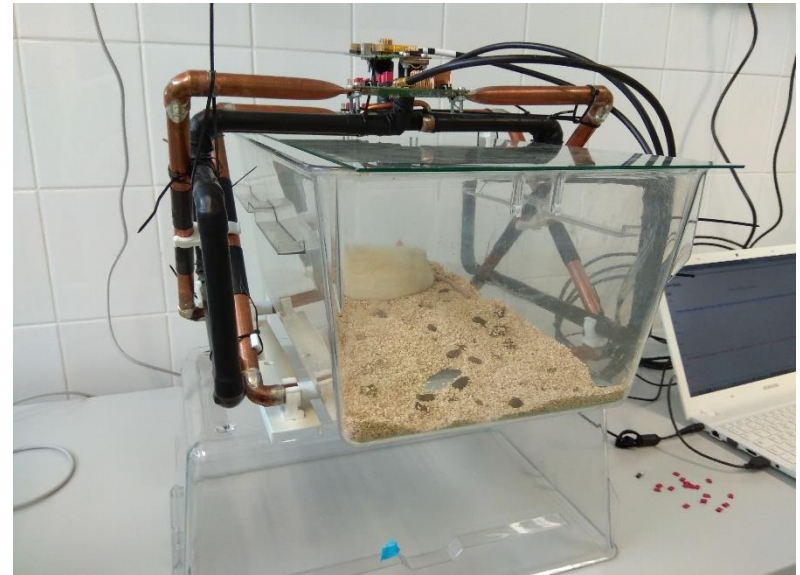
Accelerometers



Okoscucc.hu

 <p>-27%</p>	 <p>-30%</p>	 <p>-30%</p>	 <p>-17%</p>	 <p>-30%</p>
Xiaomi Mi Band 2	DZ09 fekete	DZ09 szürke	GT08 okosóra - ezüst fekete szíjjal	DZ09 fehér
10 990 Ft 7 999 Ft	6 590 Ft 4 590 Ft	6 590 Ft 4 590 Ft	5 990 Ft 4 990 Ft	6 590 Ft 4 590 Ft
Részletek Kosárba	Részletek Kosárba	Részletek Kosárba	Részletek Kosárba	Részletek Kosárba
 <p>-34%</p>	 <p>-41%</p>	 <p>-50%</p>	 <p>-29%</p>	 <p>-42%</p>
GT08 okosóra - rózsaszín fekete szíjjal	GT08 okosóra - ezüst fém szíjjal	A1 okosóra - ezüst óra fekete szíjjal	GT08 okosóra - fekete	GT08 okosóra - fekete fém szíjjal
6 990 Ft 4 590 Ft	11 900 Ft 6 990 Ft	7 990 Ft 3 990 Ft	6 990 Ft 4 990 Ft	11 990 Ft 6 990 Ft
Részletek Kosárba	Részletek Kosárba	Részletek Kosárba	Részletek Kosárba	Részletek Kosárba

RatBand



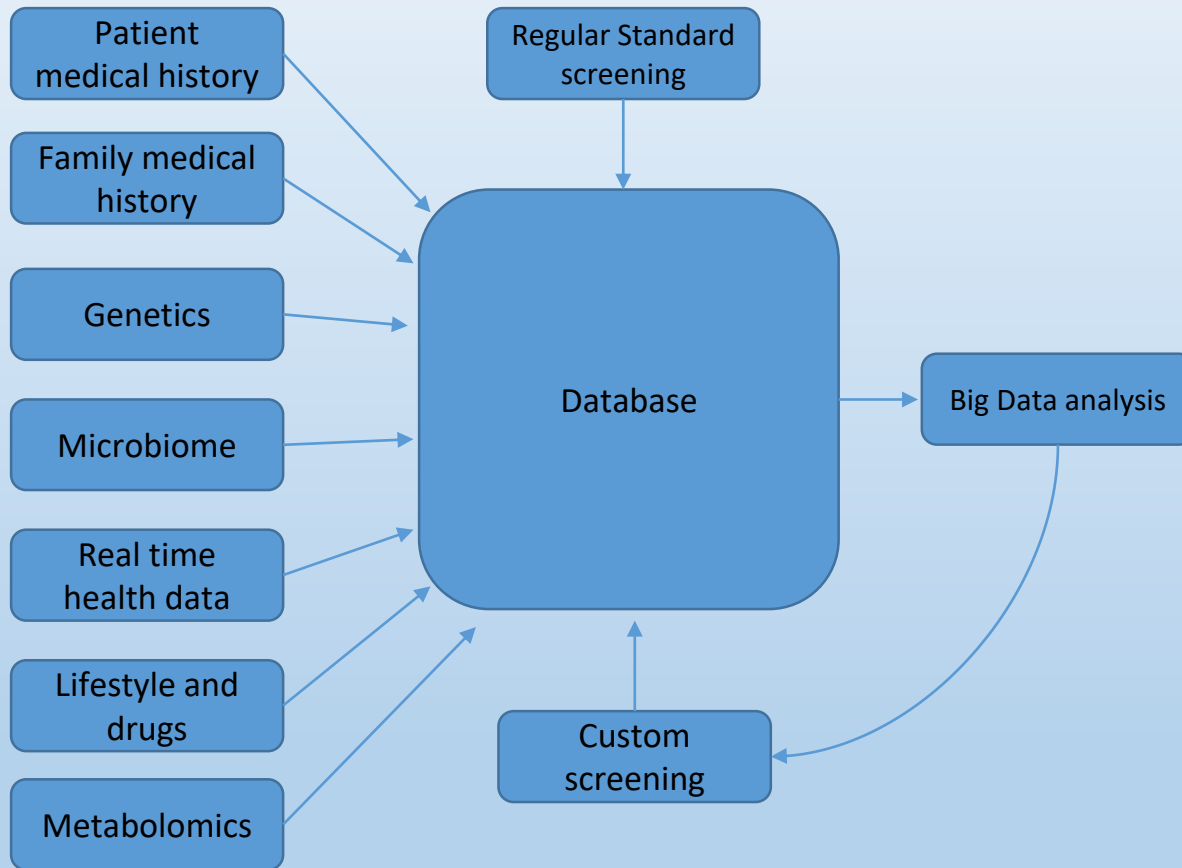


MEDIPREDICT

What are the issues?

- Doctors are trained (and compensated) to cure disease, not to prevent it
- Doctors are highly specialized (100+ specializations)
- ~30.000 known diseases of which ~8.000 are rare diseases
- Medline has 26m+ publications
- We don't have really good biomarkers (yet)
- Most diagnostics procedures are still weak on specificity and selectivity
- AI is successfully used in specific areas, such as Watson in oncology

Software



Separated databases



Processing medical history

With consent from the client, we collect medical history results about the individual (hospitals, clinics, outpatient clinics, general practitioners, private clinics, etc.). Data that is currently in different locations and formats needs to be standardized and merged into a single database in order to be interpretable for our medical team as well as the artificial intelligence.

Zárójelentés

Név: [REDACTED] TAJ: [REDACTED]
Született: [REDACTED]
Anyja neve: [REDACTED]
Lakhely: [REDACTED]
Érv. biztosítás orsz.: (HUN) Magyarország

Felvételi adatok: Felvételi ideje: 2014.07.23 16:14 Törzsszám: 2014-17417
Beküldő: 010924511 ESZSZK Merényi G. Kh. Addiktológiai Szakambu.

Távozási adatok: Távozás ideje 2014.07.26 08:07 (3) otthonháza bocsátva

Status pr.:
Belsővizsg. kp. fejlett és táplált férfibeteg. Látható nyálkahártyák kp.vérteltek. Icterus, cyanosis oedema nincs. Garatképletek békések. Nyirokcsomók ném tapinthatók. Pajzsmirigy norm. tap. Rekeszek mko. szimmetrikusan kitermek. tüdők felett sejtles alaplégzés. Tiszta, rímusos szívhangok. RR: 130/80 Hgmm, P: 72/min. Has puha, betapintható, fájdalom, nyomásérzékenység nincs. Vesetájak ütögetésre nem érzékenyek. Mőzgásszervek alakilag és funkcionálisan épek.
Neurologiailag- meningeális izgalmi jelek nincsenek. Pupillák kerekék, egyenlőek, fényre jól reagálnak. Vezetett szemmozgások szabadok. Nystagmus nincs. Agyidegek területén körjelző ellérés nincs. Izmok ereje, trophijája megtartott. Paresis, latens paresis nincs. Sajátreflexek szimmetrikusak, élénkek. Kóros reflex nincs. Sensoros és vegetatív funkciók intáktak
Pszichés: Megjelenése apott, rendezett. Magatartását nyugtalanság jellemzi de konvencionális, együttműködő. Térben, időben, auto- és allopszichésen orientált.
Fügyelme nehezebben felkelthető, dekoncrrált, hypovigil, hypertenax, állapotára, panaszaira centrált.
Megjéző és megórzó emlékezete főleg a közelműt eseményeire károsodott. Percopciózavart negál, erre utaló jel a vizsgálat során nem figyelhető meg. Pszichomotoriuma gyorsult. Gondolkodása alakilag ép, kóros tartalom, doxasma nem helyenként paranoid attitűd explorálható. Hangulata felhangott. Intellektuális teljesítménye korának, iskolázottságának megfelelő. Elalvás és átalvászavar, étvágya rendben. Suicid szándékot negal

Kórelőfolyás:
A beteg a fenti elözmények után vettük fel. állapota a bipoláris zavar kevert fázisának tüneteit mutatta, mint a fokozott beszédképzés, nyugtalanság, pszichomotoros nyugtalanság, álmatlanság jellemezte az osztályunkon valamint heteroanamnézis (feleség) szerint már a bekerülése előtti napokban is hasonló állapot fent állt. Az alkalmazott gyógyszeres terápia (i.v Rivotril és Haloperidol illetve Risperidon oldat) hatására álvása rendeződött, nyugodtabbá irányíthatóvá vált. A betegségének megfelelően fázisprofilaktikus (Quetiapine illetve Carbamazepin) kezelést kezdünk, mivel a beteg a kórházi kezeléssel mindvégig ambivalens volt, valamint a betegné a gyógyszerek szedésével kapcsolatban a compliance kérdése, rendszeres gondozása javasolt.

Diagnózis:

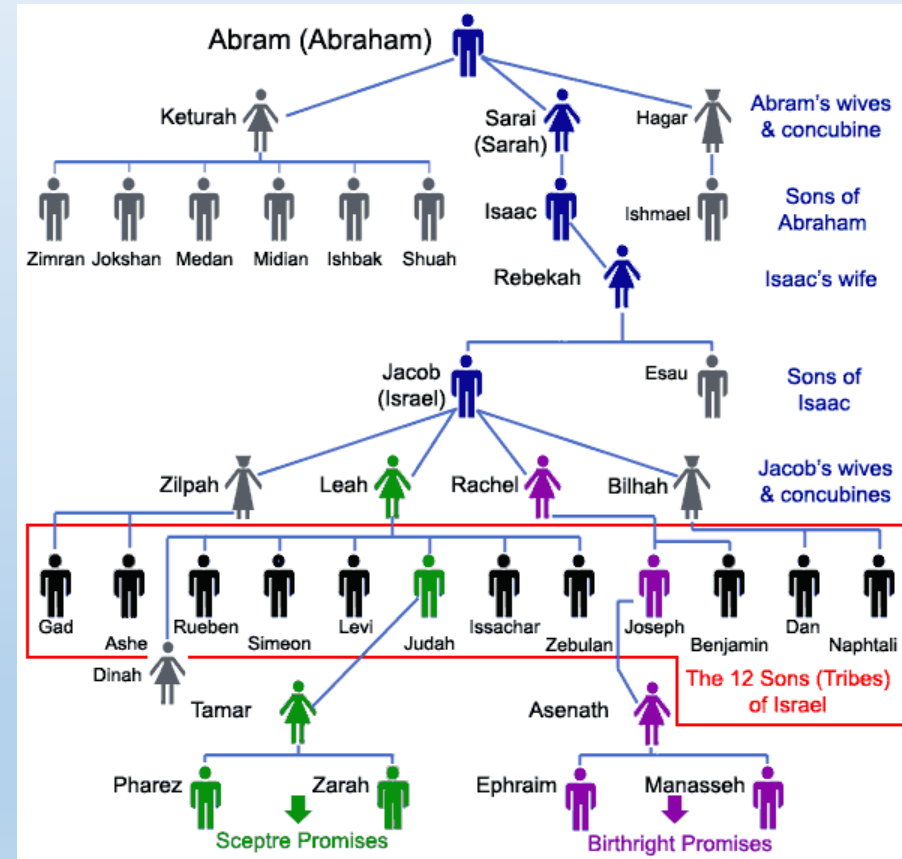
1/ 1. oldal

The screenshot shows a software interface for managing reference sets. The main window displays a list of reference set members for the 'Non-human simple reference set'. The list includes various medical terms and their status (active or inactive). A right-hand pane shows the details for the selected reference set, including a list of synonyms and properties.

Reference component	Status
Abdominal air sac	active
Abdominal mammary region	active
Abdominal skin pouch	active
Abomasal atony	active
Abomasal bloot	active
Abomasal contents	active
Abomasal dilatation	active
Abomasal rupture	active
Abomasal torsion	active
Abomasal trichobezoar	active
Abomasal ulcer	active
Abomasal ulcer, type I	active
Abomasal ulcer, type II	active
Abomasal ulcer, type III	active
Abomasal ulcer, type IV	active
Abomasectomy	active
Abomasitis	active
Abomasoscopy	active
Abomasoscopy by flank approach	active
Abomium	active
Accessory lobe bronchus	active
Acquired cartilage anomaly of third eyelid	active
Acral lick dermatitis	active
Actinobacillosis of rumenoreticulum	active
Acute bovine pulmonary emphysema AAD oedema	active
African horse sickness	active
African swine fever	active
Air sacs	active
Ascaricuffs	active
Star fold of nostril	active
Alimentary toxic aleukia	active
Allergic dermatitis due to bite of Ctenocephalides canis	active
Amputation by disarticulation of stifle joint	active
Amputation of corneal process	active

Family medical history

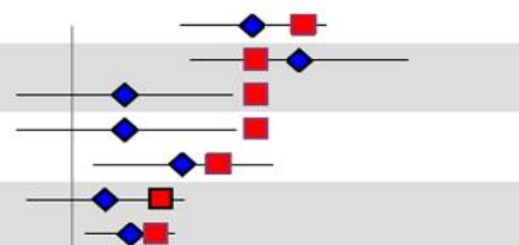
With the same procedure as in the case of the individual, we process the available medical history of the family (mainly the ascendants and siblings).



Genetics

The next step is the analysis of genetic risk factors. If the client has already had a genetic test, the results are recorded in our database. If the client has not had any type of genetic testing done, we will arrange such tests as well, through our contracting partners.

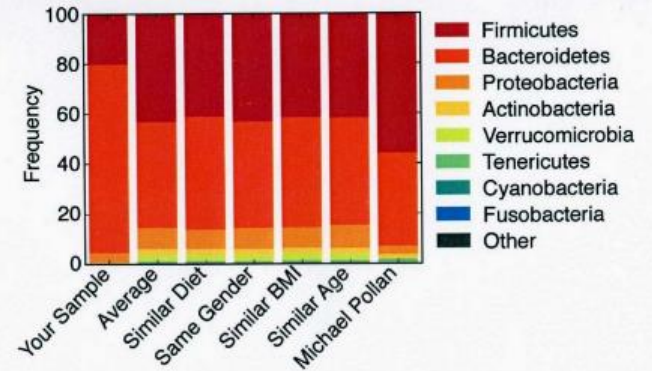
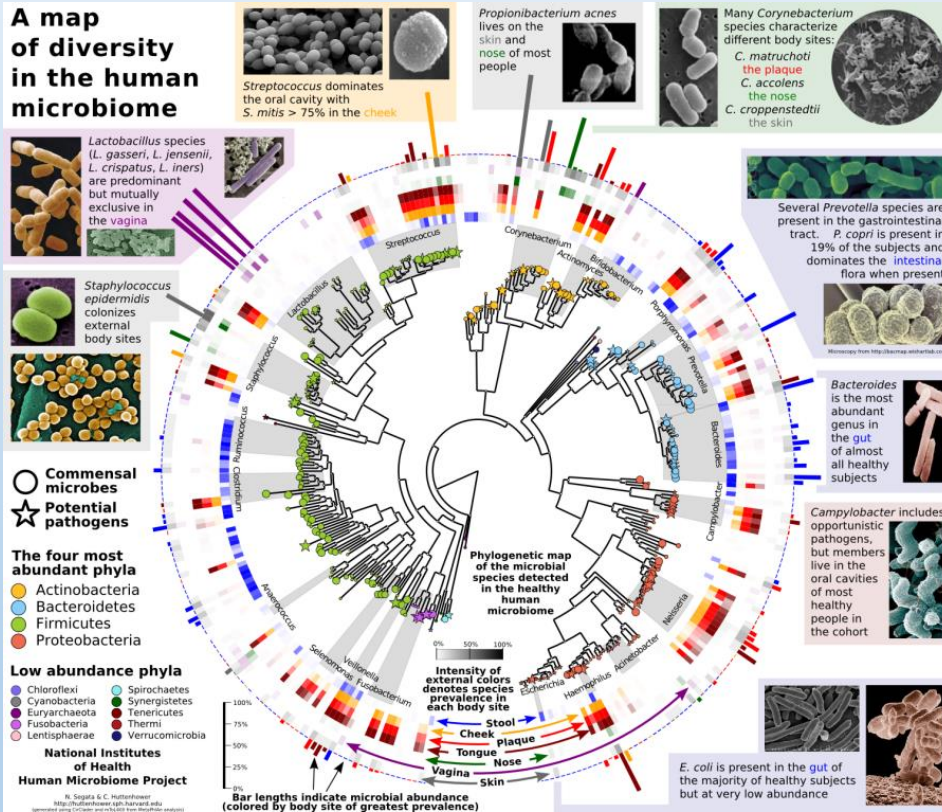
disease	marker	gene / region	number needed	number identified
RA	rs6457620	Intergenic Chr. 6	75	138
MS	rs3135388	DRB1*1501	108	61
RA	rs6679677	RSBN1	238	134
RA	rs2476601	PTPN22	238	134
AF	rs2200733	Chr. 4q25	292	147
CD	rs11805303	IL23R	493	107
T2D	rs4506565	TCF7L2	503	532



#Chr	Position	Ref	Alt	Depth	Zygoty	Effect	Gene_Name	HGVS.c	HGVS.p	dbSNP142	1000G_EUR
chr3	121976253	G	A	9	HOM	intron_variant	CASR	c.492+19G>A	.	rs9869985	0.9632
chr3	122000871	C	T	54	HOM	intron_variant	CASR	c.1609-59C>T	.	rs4678174	0.6839
chr3	122003045	G	C	166	HOM	synonymous_variant	CASR	c.2274G>C	p.Pro758Pro	rs2036400	1
chr3	122003832	G	C	123	HOM	missense_variant	CASR	c.3061G>C	p.Glu1021Gln	rs1801726	0.9632
chr3	122004098	A	T	15	HOM	3_prime_UTR_variant	CASR	c.*60A>T	.	rs4677948	0.9632
chr19	3110349	T	G	81	HET	intron_variant	GNA11	c.321+18T>G	.	rs11085000	0.4245
chr19	3113305	G	C	26	HET	intron_variant	GNA11	c.322-23G>C	.	rs1682811	0.8638
chr19	3119184	T	G	24	HET	intron_variant	GNA11	c.736-20T>G	.	rs308046	0.8638
chr19	3119239	C	T	50	HET	synonymous_variant	GNA11	c.771C>T	p.Thr257Thr	rs4900	0.4324

Microbiome

A map of diversity in the human microbiome



Your most abundant microbes:

Taxonomy	Sample
Genus <i>Bacteroides</i>	45.7%
Family Rikenellaceae	16.1%
Genus <i>Paraprevotella</i>	6.0%
Family Ruminococcaceae	5.2%

Your most enriched microbes:

Taxonomy	Sample	Population	Fold
Genus <i>Paraprevotella</i>	6.0%	0.39%	15x
Family Barnesiellaceae	5.1%	0.63%	8x
Family Rikenellaceae	16.1%	1.81%	9x
Family Oxalobacteraceae	0.1%	0.01%	20x

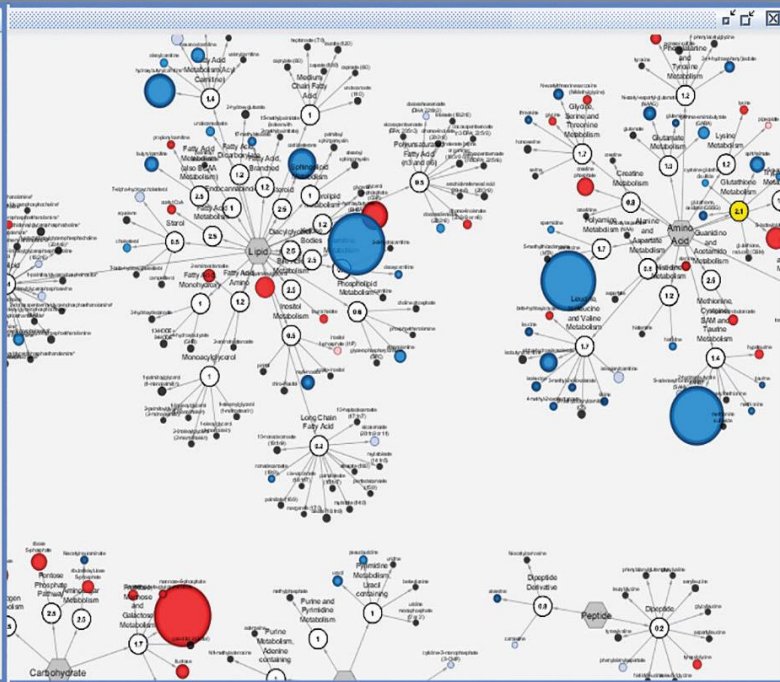
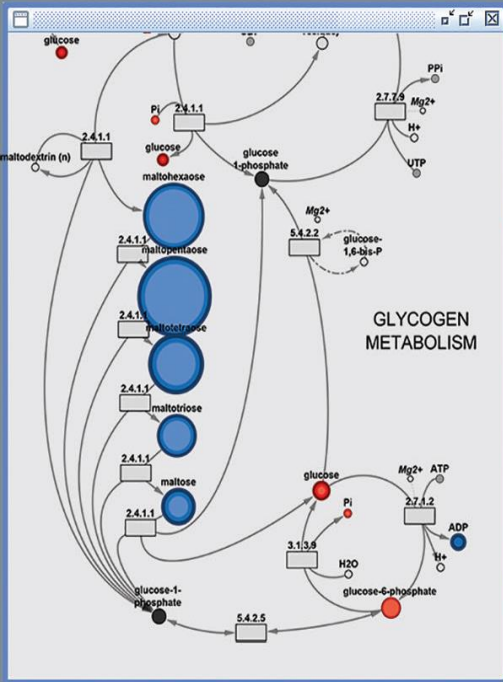
Your sample contained the following rare taxa: Genus *Stenotrophomonas*.

Metabolomics

Amino Acid Metabolism	Cofactor & Vitamin Metabolism	Nucleotide Metabolism	Microbiome Metabolism
<p>Amino Acid catabolism Bioactive intermediates & trace amines Glutathione metabolism Inflammatory mediators Microbiome metabolism Polyamines/ornithine metabolism Urea Cycle</p>	<p>Ascorbate metabolism CoA metabolism FAD metabolism Folate metabolism NAD/NADP metabolism PLP metabolism SAM metabolism Many other cofactors and vitamins (tocopherol, B12, Biotin)</p>	<p>Degradation of nucleotides Deoxyribonucleotides DNA damage FAD metabolism Modified nucleotides Nucleotide Coenzymes Purine and pyrimidine de novo synthesis Purine and pyrimidine salvage synthesis Ribose metabolism</p>	<p>2o Bile acids Aromatic amino acids Energy Choline/carnitine Xenobiotics Fatty acids/short chain & medium chain Vitamins Polyamines</p>
Carbohydrate Metabolism	Energy Metabolism	Lipid Metabolism	Novel Metabolites
<p>Gluconeogenesis Glucose metabolism Glycogen metabolism Glycosylation pathways Metabolism of other carbon sources Metabolism of sugars (fructose, galactose) Polyol metabolism Pyruvate metabolism</p>	<p>Acyl-carnitines Beta-oxidation Creatine metabolism FAD metabolism Glycolysis Mitochondrial function Pentose phosphate pathway</p>	<p>Bile acids Bioactive lipids Cholesterol Fatty acids Sphingosine Inflammatory mediators Lysolipids Sterols Oxidized lipids (COX, LOX)</p>	<p>Novel drug metabolites Novel xenobiotics Novel microbiota metabolites Novel by-products of non-canonical host metabolism</p>

Metabolomics

File Edit View Select Layout Plugins Help Metabolom



Results Panel

Projects Pathway Classification Pathway Library Compounds Search

Enrichment

Highlights Data Table Enrichment Plot

Category	-log(pValue)	Enrichment	Count
Fructose, Mannose and Gala...			1
Polyunsaturated Fatty Acid (n...			3
Urea cycle, Arginine and Prol...			3
Purine Metabolism, (Hypo)Xa...			1
Tryptophan Metabolism			3
Pyrimidine Metabolism, Uraci...			1
Glycolysis, Gluconeogenesis...			4
Leucine, Isoleucine and Vali...			2
Food Component/Plant			2
Glutathione Metabolism			1
Long Chain Fatty Acid			2

Data Panel

Options

Filter Study Table based on current pathway. Coordinate Omics Rendering

Render Experiment

<< Previous >> Next

Animate Renderings

Play Loop once Continuous Loop

Statistical Tests Heat Map Rendering Options

Pathway Sort Order	Super Pathway	Sub Pathway	Biochemical Name	Group Status	Treatment	Group Status x Treatment Int...	Group A TX / / Group A VEH	Group B TX / / Group B VEH	Group B VEH / / Group A VEH	Group B TX / / Group A TX
1	Amino Acid	Glycine, Serine and Threonin...	glycine	1.00	1.00	1.00	1.32	1.38	0.67	0.70
4	Amino Acid	Glycine, Serine and Threonin...	sarcosine (N-Methylglycine)	1.00	1.00	1.00	0.84	1.51	0.71	1.27
9	Amino Acid	Glycine, Serine and Threonin...	serine	1.00	1.00	1.00	1.46	1.03	1.12	0.79
14	Amino Acid	Glycine, Serine and Threonin...	threonine	1.00	1.00	1.00	1.46	0.74	1.61	0.81
15	Amino Acid	Glycine, Serine and Threonin...	N-acetylthreonine	1.00	1.00	1.00	0.74	0.55	1.38	1.02
18	Amino Acid	Glycine, Serine and Threonin...	homoserine	1.00	1.00	1.00	1.07	1.34	1.16	1.46
24	Amino Acid	Alanine and Aspartate Metab...	alanine	1.00	1.00	1.00	0.86	1.60	0.66	1.22
27	Amino Acid	Alanine and Aspartate Metab...	aspartate	1.00	1.00	1.00	0.78	0.88	1.20	1.36

Node Attribute Browser Edge Attribute Browser Network Attribute Browser Metabolomics Data

Regular check-ups

We perform frequent regular checkups (blood- and urine tests, EKG, internal medicine, neurological, sensory, dermatologic screenings, etc.), at time and location specified by the client.



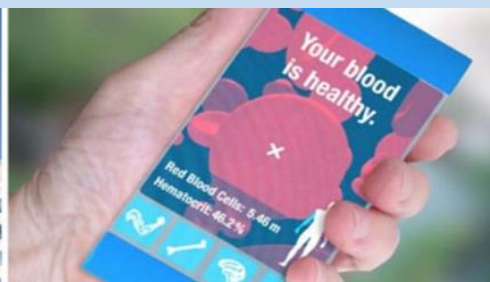
Wearable data

If our client owns a digital medical device (blood pressure monitor, blood glucose monitor, etc.) or wearable medical device that tracks or monitors health data (smart watch, fitness band), then data recorded is synchronized with formerly collected data contained in our database.



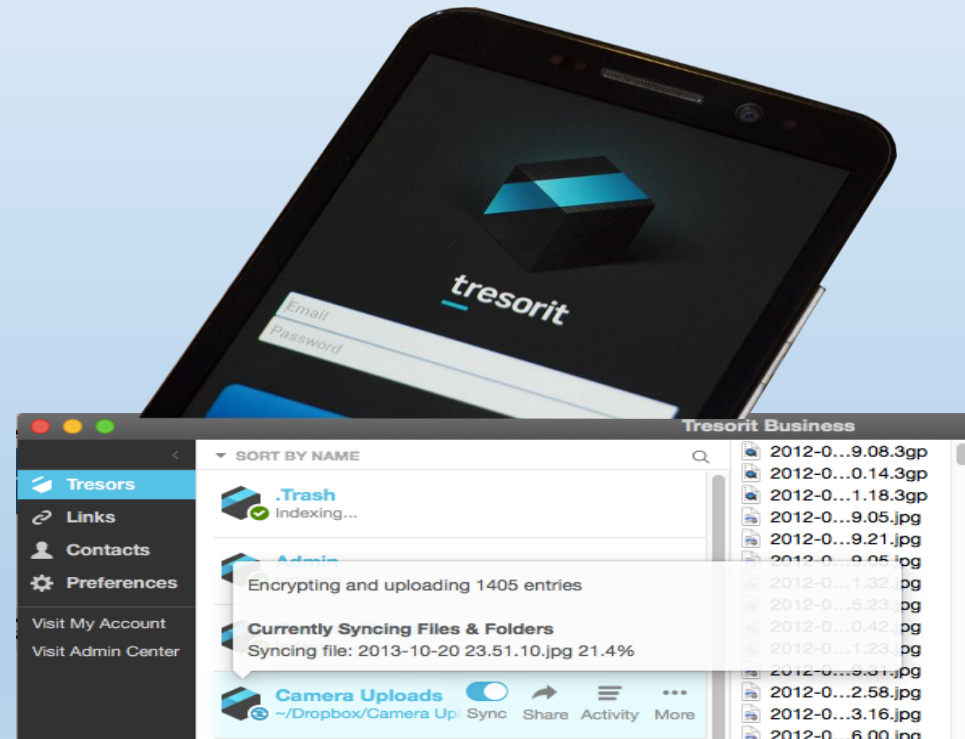
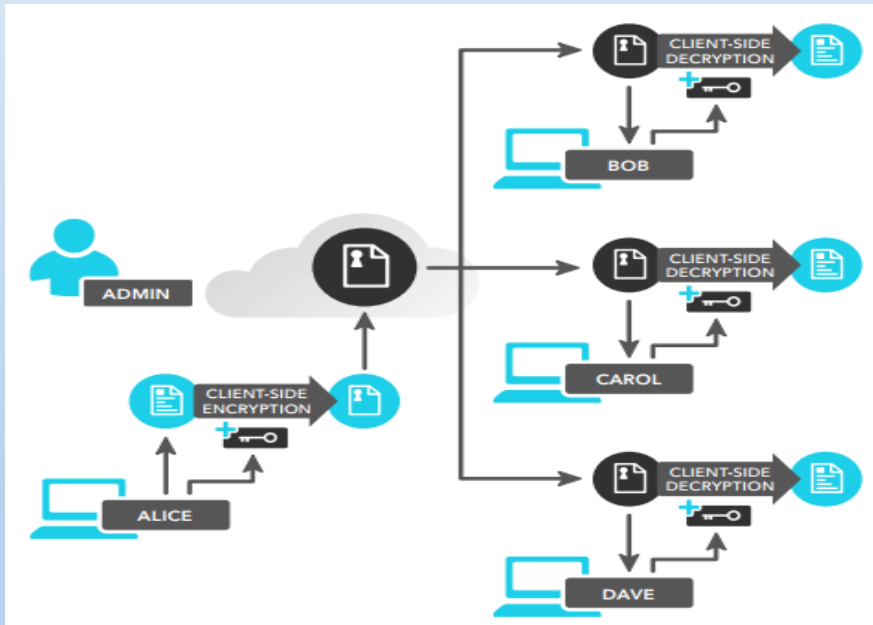
البيانات الشخصية والبيانات الصحية التي يتم تسجيلها من خلال الأجهزة القابلة للارتداء والبيانات الصحية التي يتم تسجيلها من خلال الأجهزة القابلة للارتداء والبيانات الصحية التي يتم تسجيلها من خلال الأجهزة القابلة للارتداء

070,341", "055,512", "9,32,224,15", "125,853", "808,639,2", "0,40,0,60", "البيانات الشخصية
 675,407", "417,995", "6,34,"105,24", "892,493,1", "701,383,4", "3,33,7,66", "البيانات الشخصية
 327,280,1", "371,974", "8,34,"342,36", "698,254,2", "478,580,6", "8,56,2,43", "البيانات الشخصية
 670,56", "839,307", "8,22,"743,6", "509,364", "713,629,1", "5,15,5,84", "البيانات الشخصية
 566,113", "378,209", "2,37,"354,4", "944,318", "773,868", "6,35,4,64", "البيانات الشخصية
 825,382", "583,737", "0,32,"143,21", "328,120,1", "351,965,3", "2,34,8,65", "البيانات الشخصية
 689,83", "248,466", "7,38,"054,13", "937,549", "278,454,1", "2,15,8,84", "البيانات الشخصية
 841,40", "779,133", "0,26,"512,3", "620,174", "809,685", "4,23,6,76", "البيانات الشخصية
 316,26", "116,44", "7,30,84", "432,70", "388,232", "4,37,6,62", "البيانات الشخصية
 911,518", "219,631", "5,11,"013,21", "130,150,1", "798,719,3", "1,45,9,54", "البيانات الشخصية
 866,6", "157,12", "6,29,328,"023,19", "487,65", "1,36,9,63", "البيانات الشخصية
 393,6", "237,70", "5,36,863,"630,76", "495,212", "3,8,7,91", "البيانات الشخصية
 975,76", "235,179", "4,36,"435,3", "210,256", "963,713", "0,30,0,70", "البيانات الشخصية
 999,380", "374,364", "0,34,"951,14", "373,745", "898,236,2", "1,51,9,48", "البيانات الشخصية
 201,139", "506,442", "0,28,"176,14", "707,581", "688,127,2", "9,23,1,76", "البيانات الشخصية
 842,43", "861,184", "7,38,"800,1", "903,147", "522,387", "6,29,4,70", "البيانات الشخصية
 210,59", "806,486", "2,35,"441,12", "180,544", "694,379,1", "5,10,9,89", "البيانات الشخصية
 390,155", "704,760", "5,34,"165,23", "894,916", "947,718,2", "0,17,0,83", "البيانات الشخصية
 939,5", "687,40", "9,32,665,"626,46", "584,143", "7,12,3,87", "البيانات الشخصية
 578,81", "353,85", "0,38,"238,2", "931,166", "322,445", "9,48,1,51", "البيانات الشخصية
 517,126", "829,467", "4,25,"320,13", "546,993", "672,393,2", "3,21,7,78", "البيانات الشخصية
 238,14", "726,50", "6,30,949,"964,64", "618,215", "9,21,1,78", "البيانات الشخصية
 809,512", "488,468", "9,33,"596,18", "497,980", "656,948,2", "2,52,8,47", "البيانات الشخصية
 710,509", "975,663", "2,36,"883,16", "691,193,1", "790,347,3", "4,44,6,55", "البيانات الشخصية
 687,265", "755,818", "7,33,"505,18", "442,084,1", "930,276,3", "5,24,7,75", "البيانات الشخصية
 560,187", "994,360", "6,29,"992,8", "554,548", "232,886,1", "2,34,8,65", "البيانات الشخصية
 396,45", "820,149", "7,22,"691,3", "416,194", "740,872", "3,23,7,76", "البيانات الشخصية
 686,83", "795,160", "0,42,"926,1", "481,244", "491,586", "2,34,8,65", "البيانات الشخصية
 101,061,6", "911,693,10", "9,32,"395,303", "812,755,16", "866,918,51", "2,36,8,63", "البيانات الشخصية



Data security & safety

We protect our clients' data with high-level encryption. Clients can view their own data through our secure website or mobile app, and the client may also grant access to their own data to family members or doctors.



[Dashboard](#)

GENERAL

[Health status](#)[Risks](#)[Notifications](#)[Suggestions](#)

INFORMATION

[Medical history](#)[Mobile doctor](#)[Genetics](#)[Microbiome](#)[Charts](#)

Home • Risks

Your average daily sleep is more than 30% below optimal

2 weeks ago

Your average daily sleep has decreased significantly in the last two months. This level of sleep deprivation causes severe memory problems and significantly increases the risk for a number of diseases including diabetes, cardiovascular diseases and also some forms of cancer.

Your risk for colorectal cancer is higher than normal at your age

A month ago

We suggest you should get a colonoscopy examination within the next year.

[Click here to get help with scheduling an examination](#)

Your blood tests show an increased level of Hemoglobin A1C

2 months ago

This could be an indication of a prediabetic condition. We suggest a glucose tolerance test which could be done at the time of your next mobile doctor visit.

Dashboard

GENERAL

Health status

Risks

Notifications

Suggestions

INFORMATION

Medical history

Mobile doctor

Genetics

Microbiome

Charts

Home • Suggestions

Schedule a colonoscopy examination

2 weeks ago

[Read more about risks](#)

Increase your daily sleep by at least 2 hours

3 weeks ago

[Read more about risks](#)

Increase your weekly exercise time to at least 3 occasions and total over 2 hours/week

A month ago

High risk of Macula Degeneration – always wear sunglasses in case of strong sunlight

2 months ago

Conclusions

- Focus is on predicting and preventing disease + early diagnosis
- Target group is healthy people
- This service is NOT cost effective and not meant to be
- Technological development will decrease the price
- Accuracy will constantly improve as database grows + additional data sources are included

Thank you for your attention

www.medipredict.com