Patient perspective on Big Data

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Why big data?

Because we are way too slow and inefficient to learn to understand and tackle 200+ different cancers effectively

Silos are for farms, not for pharma!



Why do we think Big Data is a promising approach to tackle cancer?

Key issues of relevance for patients:

- Break down the silos: get clinicians and clinical groups, different industry players, HTA agencies, patients to collaborate
- Rapid sharing, consolidation and learning from data: detecting signals from analysing multi-source complex data sets
- Improve characterization of cancers in order to improve treatment strategies
- Re-define treatment goals based on individualized risk assessments and outcome measures
- Build some basic evidence for the design of innovative clinical studies
- Involve the patient perspective in the definition of relevant outcomes

Big data is in infancy, but happening: IMI2 HARMONY

HARMONY

- Pan-European IMI project, 2017-2022
- Goals
 - Speed up drug development, access pathways
 - Improve diagnosis and patient stratification
 - Optimize therapeutic choices and predict efficacy and toxicity of certain treatments
 - Provide robust data on therapeutic value
- Largest Public Private Partnership in hematology 40 M€, 51 public-private partners, 11 European countries
- Patient orgs are involved in consortium and as partners









The patient community is part of HARMONY



WP1: Project Management (IBSAL, NOVARTIS, CELGENE, HULAFE)
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MM Sonneveld San Miguel Palumbo	AML Ossenkoppele Huntly Lo Coco	ALL Gökbuget Dombret Ribera	CLL Ghia Pospisilova Bosch	NHL Salles Dreyling Montoto	MDS Fenaux Kuendgen Santini	Child HM Moorman Reinhardt Locatelli
		EFPIA experts in HM				
Co-operative Working Groups (CWG)						
EU hospitals & Academic partners						

WP3: Data Access (GMV, JANSSEN, BAYER)
WP4: Data Platform (ELN, JANSSEN)
Participants: KOLs, UoY, EORTC, EBMT

WP5: Data Analytics for therapies valuation (UNIBO, MENARINI, JANSSEN)
Participants: KOLs, Academic Groups (UH, VIB, AP-HP, SANGER), UoY, EORTC, EBMT, SMEs (MS, MLL),
CWG

WP7: Dissemination, Communication & Training (EHA, NOVARTIS, TAKEDA)

Participants: KOLs, ELN, LeukaNET

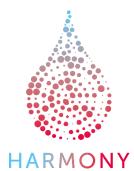
WP8: Legal, Ethics and Governance (MUW, AMGEN, BAYER)
Participants: UNIBO, LeukaNET, EHA, IBSAL, HULAFE

Expert Advisory Panel

(EAPM, CELGENE, JANSSEN)

ants: NICE, UoY, AEMPS, BfArM, LeukaNET, EHA

The patient community is part of HARMONY



Acute Leukemia Advocates Network

MDS Alliance

Myeloma Patients Europe

Childhood Cancer Int'l

Lymphoma Coalition

CLL Advocates Network Co-lead of WP6: Address evidence gaps delaying decision-making by regulators, HTA, payers

- Clinical Value Framework
- Access Evidence Framework
- Stakeholder Forum

FFPIA experts in HM

Contribute to WP2: Feedback on research projects and outcomes, definition of Core Outcome Sets

Contribute to WP7: Communication about BIG DATA and project results to patients and the public,

WP3: Data Access (GMV, JANSSEN, BAYER)

WP8: Patient perspective on legal and ethical challenges of BIG DATA relating to privacy protection, de-identification mechanisms, informed consent, as well as research and clinical ethics

Dissemination, Communication & Training (EHA, NOVARTIS, TAKEDA)

Participants: KOLs, ELN, LeukaNET

WP8: Legal, Ethics and Governance (MUW, AMGEN, BAYER)
Participants: UNIBO, LeukaNET, EHA, IBSAL, HULAFE

Patient Involvement

Expert Advisory Pane

Data protection: Paralysis by analysis

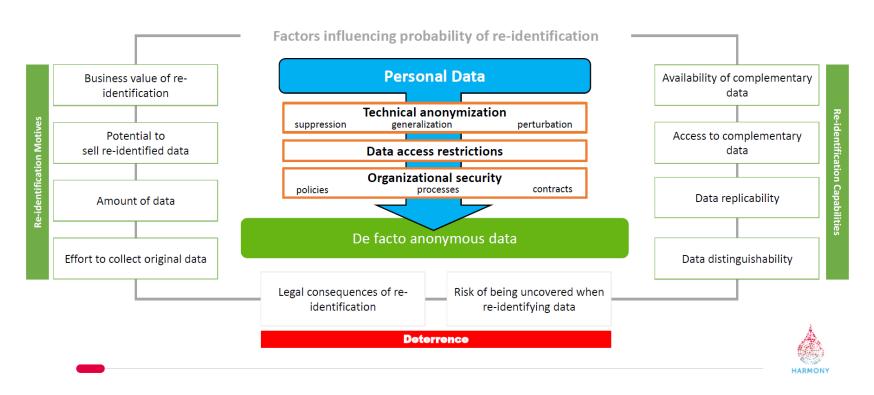


- The GDPR has only unified fines – up to 5% of your revenues!
- "Media/NGO can get us"
- "Anonymization (with genomics) is impossible"



- "this is for the advancement of medicine"
- "no one wants to identify patients"
- "there must be valid exceptions"
- "Anonymization renders data useless"

Data protection: Paralysis by analysis ... and how we've helped tackle it



- Sufficient anonymity is reached if identification would require an unreasonable effort
- HARMONY Anonymization Concept complies with applicable data protection laws including GDPR



- Big Data can largely influence rapid learning, outcomes, treatments
 - which is what matters to patients
- It requires leaving the silos of academia, industry, regulators, patients
- Patients need to be fully involved still a lot of ignorance around there