

Expert meeting

27 januari 2016

Drs. Ingrid Augustin, bestuurder CIRO+ BV



“Het geïntegreerd en gepersonaliseerd diagnosticeren en behandelen van patiënten met hoog complexe chronische ziekten, in het bijzonder longziekten, en het innoveren van de behandelprogramma’s middels wetenschappelijk onderzoek”.





MISSION

CIRO+ contributes to fight the personal and societal burden of chronic diseases.

VISION

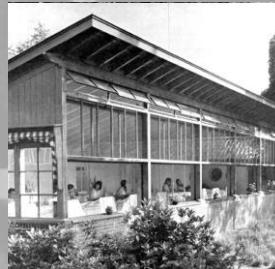
CIRO+ develops innovative diagnostic, preventive and therapeutic solutions and delivery systems for more responsive personalized medicine.



1921
Sanatorium
Hornerheide



1952
Longkliniek
(500 bedden)



1960
Sanatorium voor
niet-tuberculoze-
longziekten



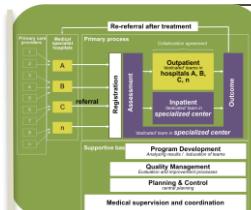
1970
De gevolgen
van roken



“Sanatorium „Hornerheide“ Horn

Sluiting kliniek chronische longziekten.
Erkenning astmacentrum en door samenwerking met
Maastricht internationale positionering.

Nieuwe naam geïntroduceerd met het oog op verbreding van producten.
Samenwerking met Maastricht wordt verder geïntensieveerd



Reorganisatie op basis van
sociotechnische principes met
program development, kwaliteit en
uitbreiding netwerk als integraal
onderdeel.

Omzet:
6.661.178 €
Medewerkers:
91 (69 fte's)



Omzet:
8.738.850 €

Aantal patiënten is
meer dan verdubbeld
t.o.v. 2005

1985
Astmacentrum Hornerheide
(behorende tot Stichting Hornerheide)



1996



2005



2006

2008

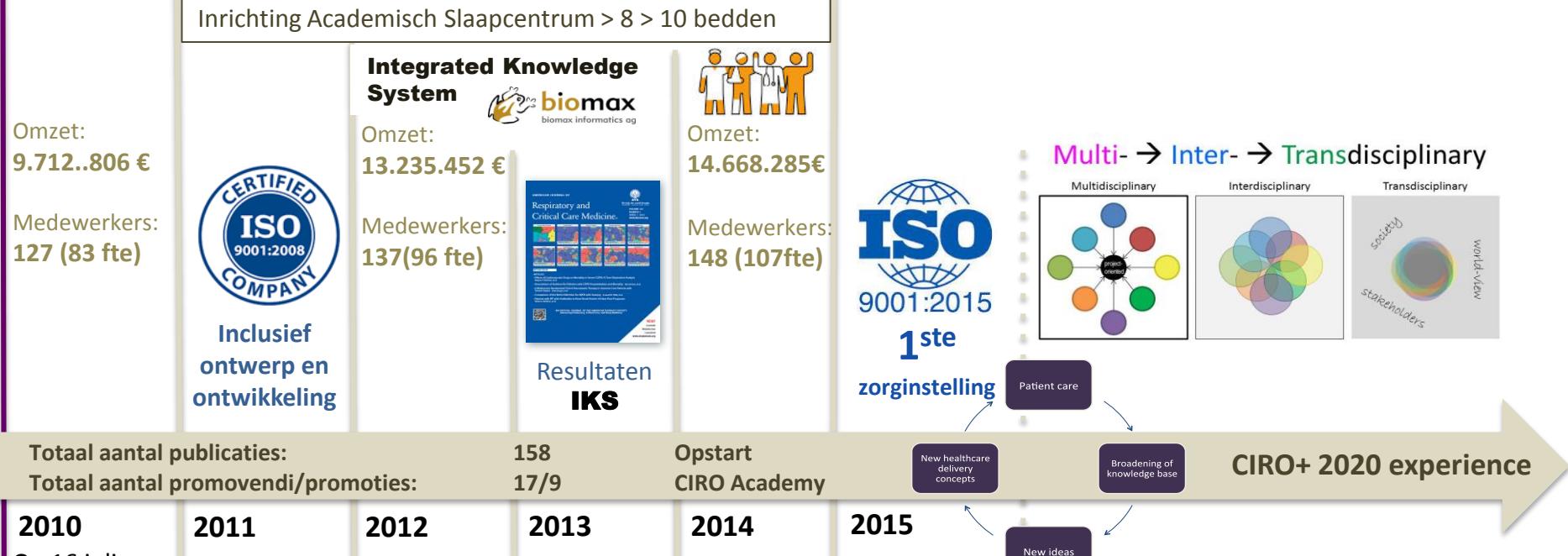
2009

Proteion-MUMC+
akkoord oprichting
CIRO+ BV

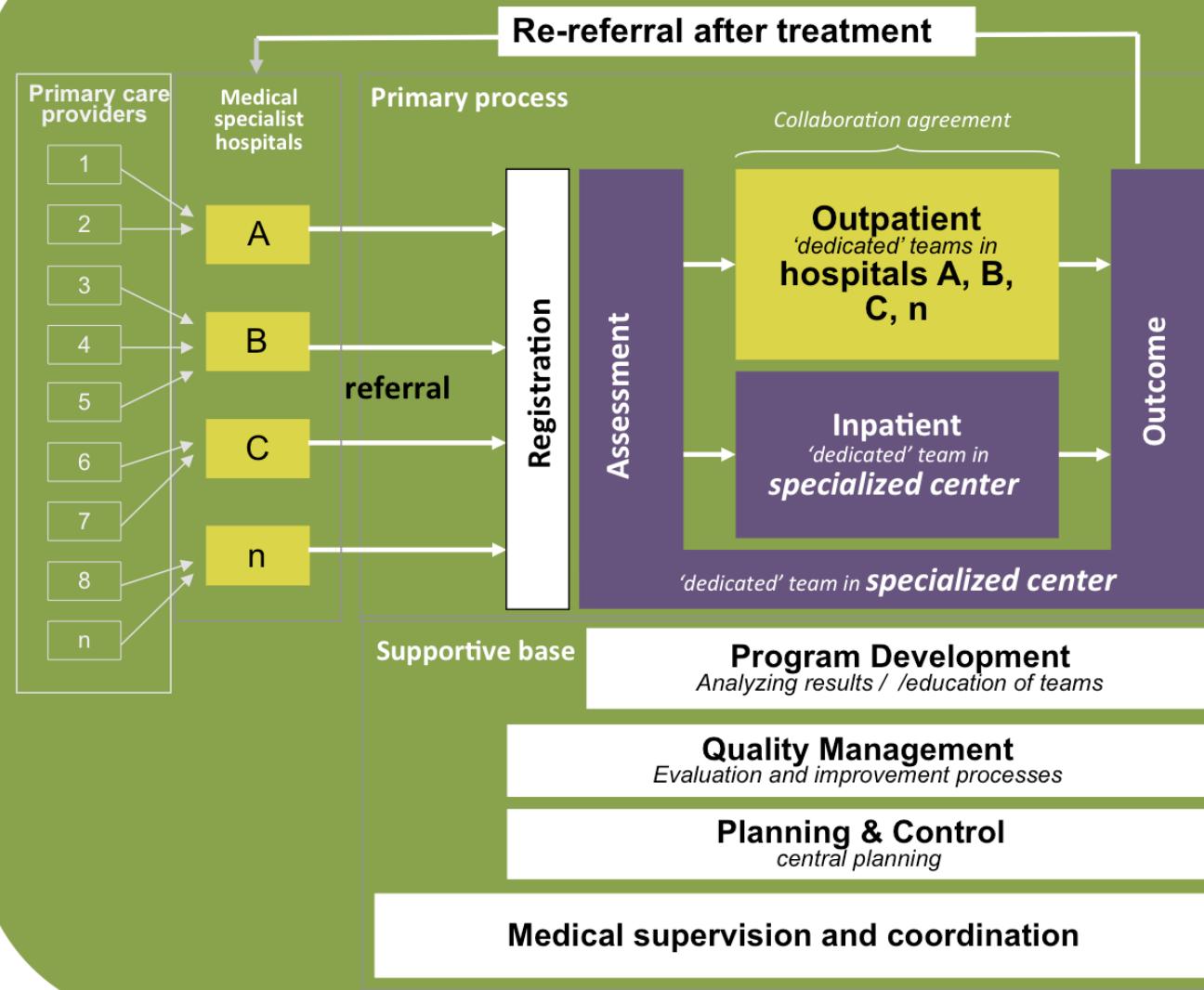


BV bouwt voort op bestaande zorgprocessen.
Datacentre wordt ingericht en Program
Development wordt verder gepositioneerd.

- Vervolg socio-technische inrichting:
management maakt plaats voor
resultaatverantwoordelijke teams
- Inrichting CIRO@care



Inriching processes



Baseline assessment

Determining degree of complexity

Respiratory impairment



Comorbidities

Symptoms

Adaptations

Shared decision making

Patient tailored programme

Determining the combination of treatment modules and consequently the required combination of therapies

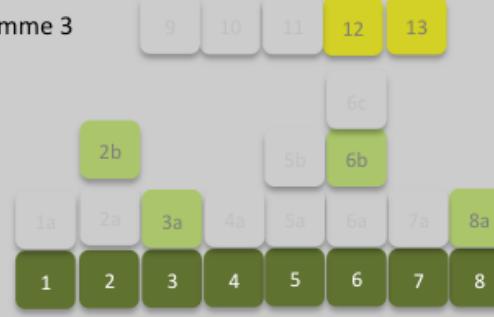
Programme 1
or



Programme 2
or



Programme 3
or



Programme ...
.....

Outcome

Quality-of-life measurement

Symptom evaluation

Depression and anxiety

Functional Status

Exercise performance

Physical activities

Knowledge and Self-efficacy

Outcomes in severe disease

Review Article

Understanding Complexity of Chronic Non-Communicable Diseases: An Integrated Approach for Personalized Management of Patients with Copd

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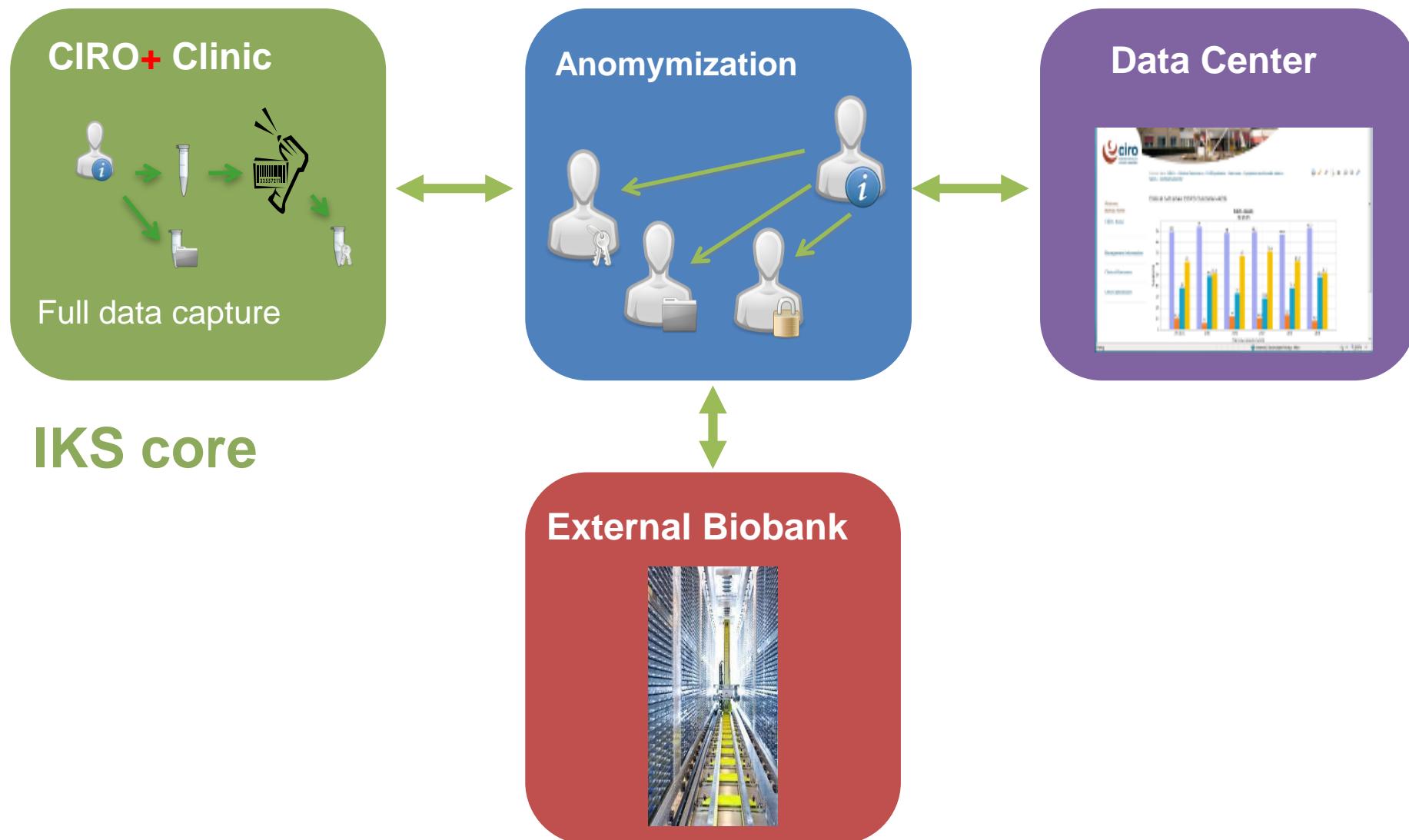
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OPEN ACCESS

Keywords

- COPD management
- Complexity
- Personalized medicine
- Pulmonary rehabilitation
- Organization of care

CIRO+ Integrated Knowledge System (IKS)





Biomax News • Biomax News • Biomax News •

FOR IMMEDIATE RELEASE

*CIRO+ and BIOMAX announce the first Data Center
enabling patient stratification and targeted medicine in
COPD*

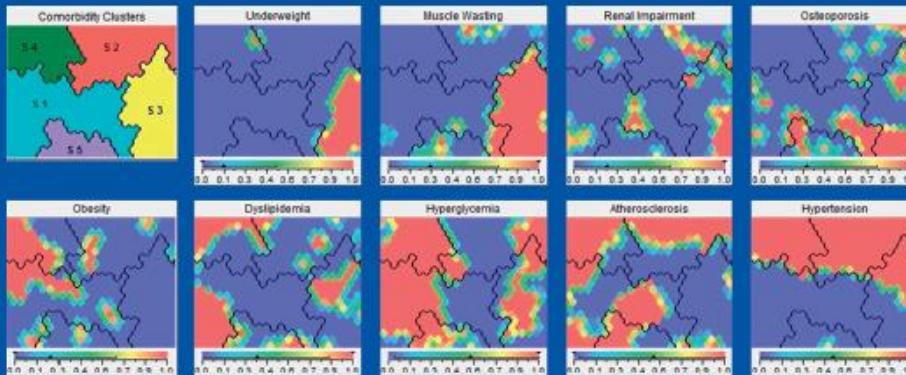
22 February 2012

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PULMONARY • CRITICAL CARE • SLEEP

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- Associations of Ambient Air Pollution with COPD Hospitalization and Mortality
Wen Qi Gan, et al.
- A Multicenter Randomized Trial of Atorvastatin Therapy in Intensive Care Patients with Severe Sepsis
Peter Kruger, et al.

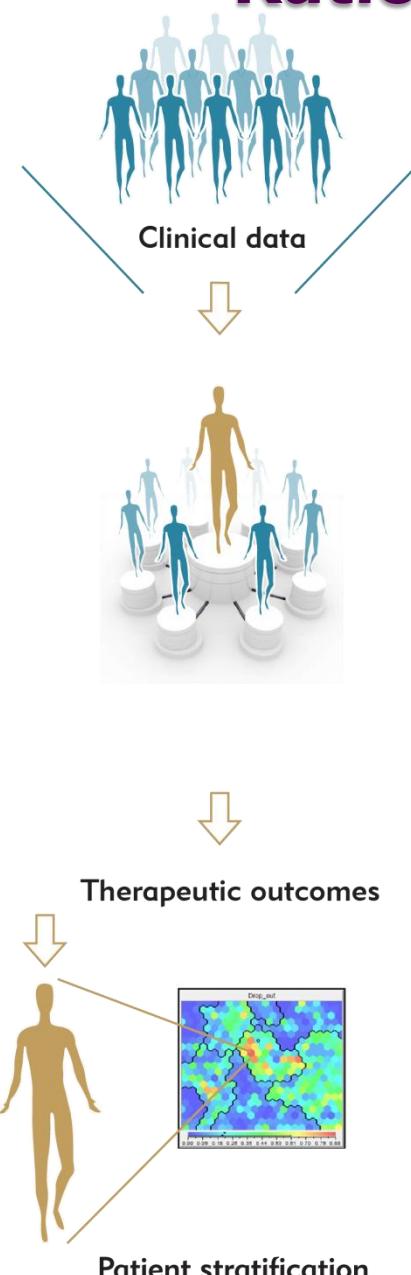
Aantal citaties
januari 2016: 181

Clusters of Comorbidities Based on Validated Objective Measurements and Systemic Inflammation in Patients with Chronic Obstructive Pulmonary Disease

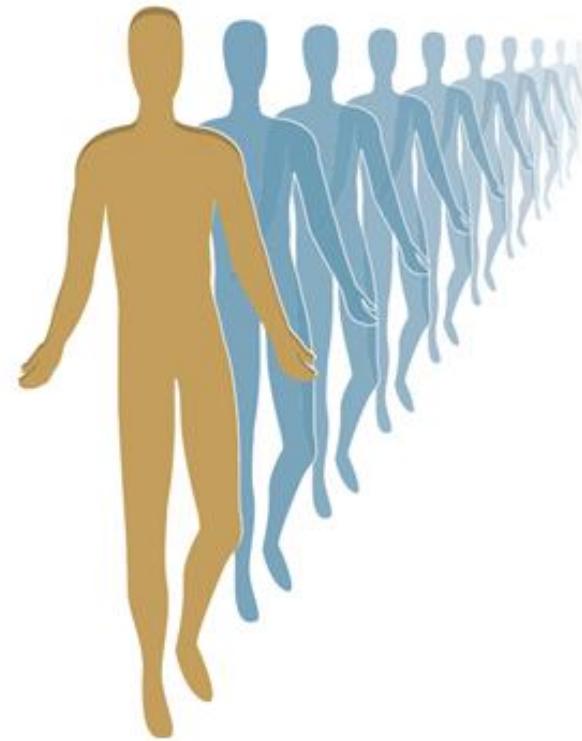
Lowie E. G. W. Vanfleteren^{1,2}, Martijn A. Spruit¹, Miriam Groenen¹, Swetlana Gaffron³, Vanessa P. M. van Empel^{1,4}, Piet L. B. Bruijnzeel⁵, Erica P. A. Rutten¹, Jos Op 't Roodt⁶, Emiel F. M. Wouters^{1,2}, and Frits M. E. Franssen^{1,2}



Rationale of the CIRO+ Integrated Knowledge System (IKS)



- Improve patient care
- Better management of treatment costs



TREAT THE INDIVIDUAL WITH THE KNOWLEDGE OF ALL

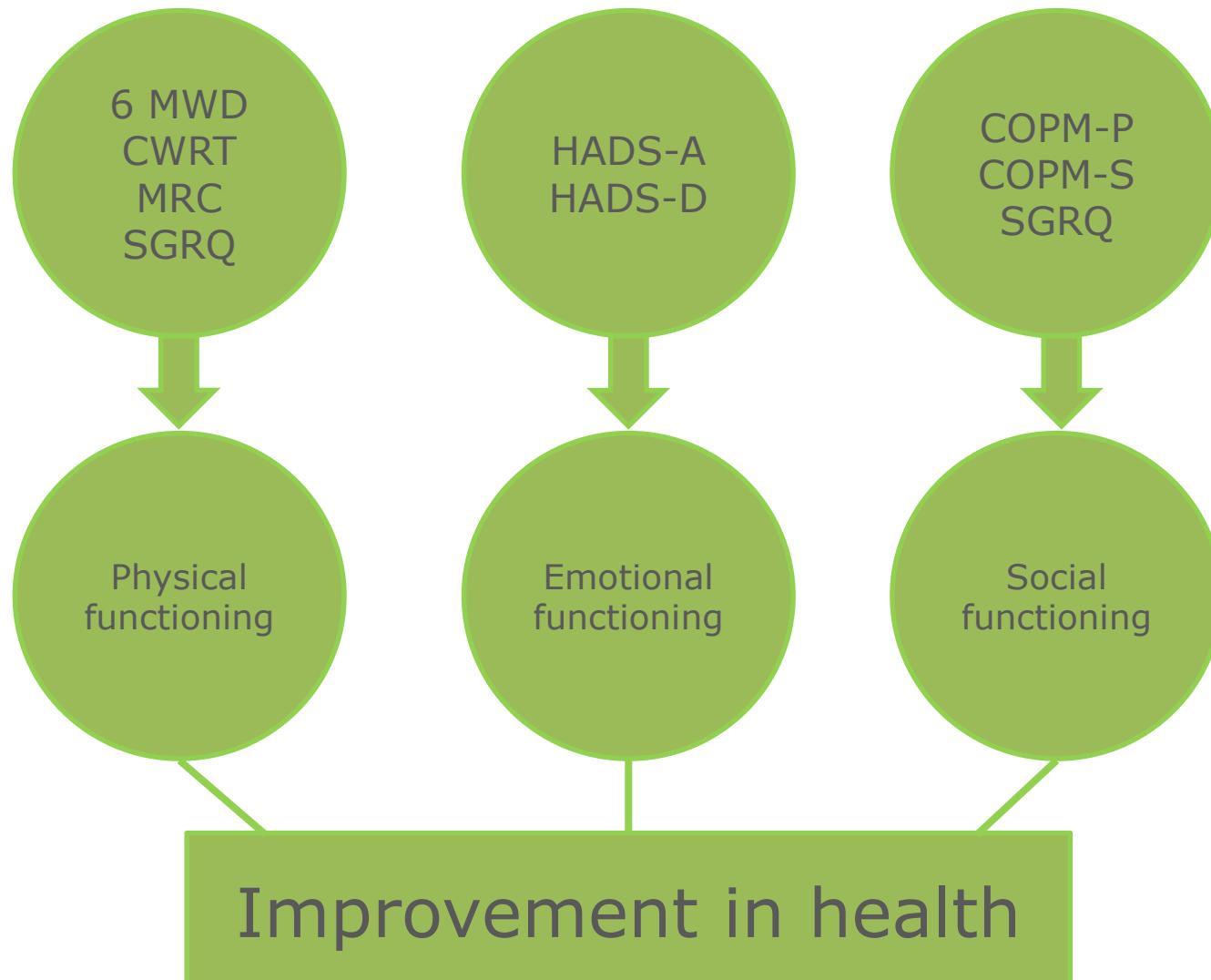


Differential response to pulmonary rehabilitation in COPD: multidimensional profiling

Martijn A. Spruit¹, Ingrid M.L. Augustin¹, Lowie E. Vanfleteren¹, Daisy J.A. Janssen¹, Swetlana Gaffron², Herman-Jan Pennings³, Frank Smeenk⁴, Willem Pieters⁵, Jan J.A.M. van den Bergh⁶, Arent-Jan Michels⁷, Miriam T.J. Groenen¹, Erica P.A. Rutten¹, Emiel F.M. Wouters^{1,8} and Frits M.E. Franssen¹ on behalf of the CIRO+ Rehabilitation Network

Affiliations: ¹Dept of Research & Education, CIRO+, Center of Expertise for Chronic Organ Failure, Horn, The Netherlands. ²Viscovery Software GmbH, Vienna, Austria. ³Dept of Respiratory Medicine, St. Laurentius Hospital, Roermond, The Netherlands. ⁴Dept of Respiratory Medicine, Catharina Hospital, Eindhoven, The Netherlands. ⁵Dept of Respiratory Medicine, Elkerliek Hospital, Helmond, The Netherlands. ⁶Dept of Respiratory Medicine, St. Jans Gasthuis, Weert, The Netherlands. ⁷Dept of Respiratory Medicine, St Anna Hospital, Geldrop, The Netherlands. ⁸Dept of Respiratory Medicine, Maastricht University Medical Center (MUMC+), The Netherlands.

Differential response to pulmonary rehabilitation



HEALTH



“The ability to adapt and manage one’s own wellbeing,
in light of the physical, emotional and social challenges of life”

Huber, BMJ 2011

Client Council

BOARD OF DIRECTORS

Employees Council

CIRO@Health
HIGH PERFORMANCE
INTERDISCIPLINARY TEAM
Medical coordinator +
interdisciplinary core team

CIRO@Care
HIGH PERFORMANCE TEAM
Medical coordinator +
team coordinator

CIRO@Sleep
HIGH PERFORMANCE TEAM
Medical coordinator +
team coordinator

Quality &
innovation
MANAGER

Research &
Education Center
SCIENTIFIC ADVISOR

*Personalized
Preventive
Predictive
Participatory
(P4) MEDICINE*

Innovation
Platform

Secretary
& PR

Planning
COORDINATOR

Financial
Control

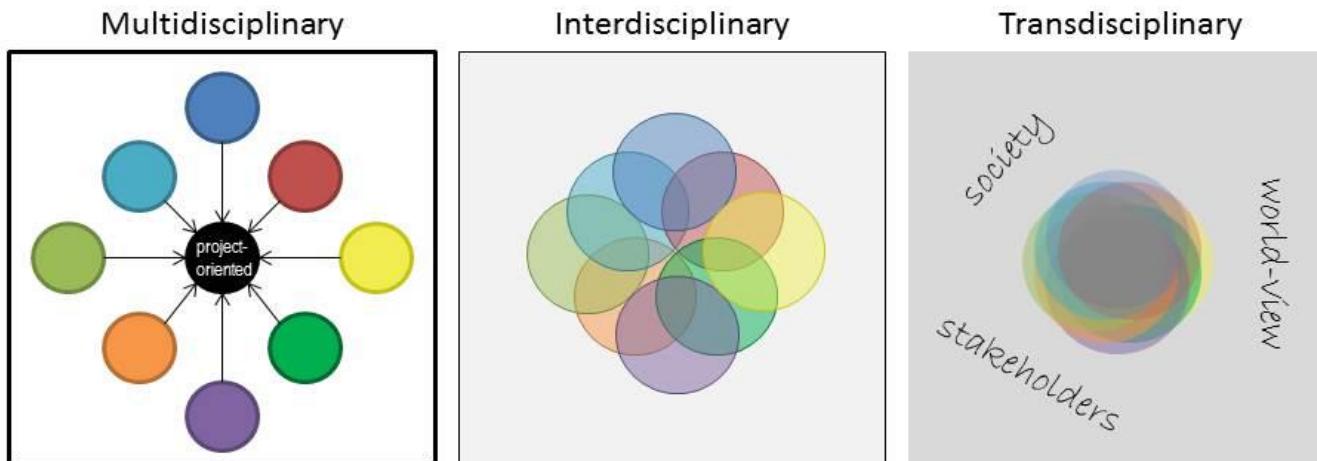
HRM
ADVISOR

network
COORDINATOR

Facility
COORDINATOR

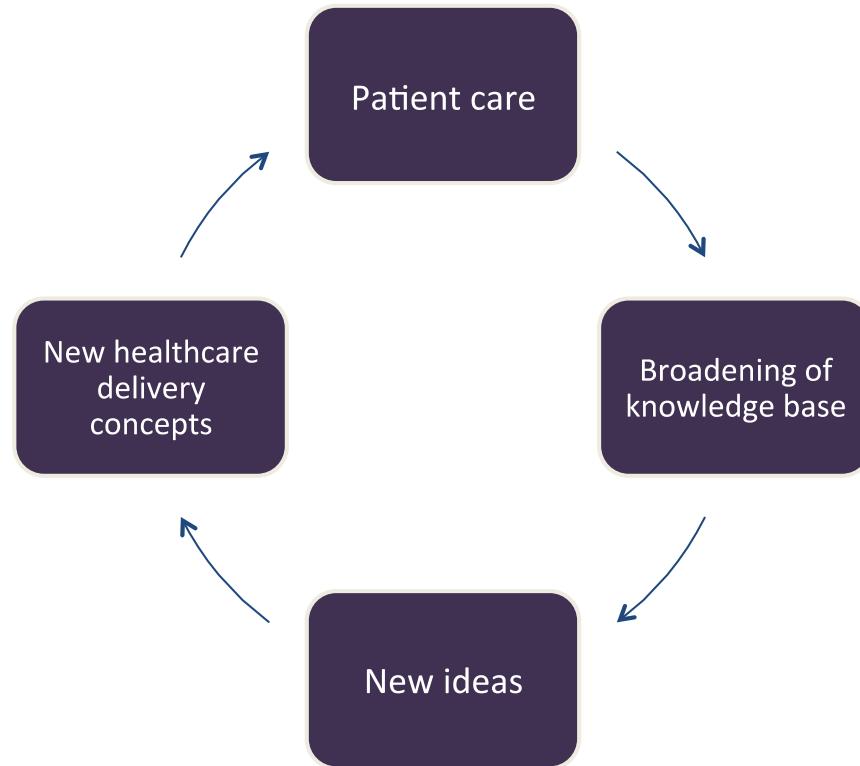
ICT COORDINATOR
Integrated Knowledge
System

Multi- → Inter- → Transdisciplinary



- **Integration:** Separated → Integrated → “Become One”
- **Perspective:** ≥ 2 disciplinary → include stakeholders+
- **Team’s Goals:** Project → Learning, New Ideas → Problem Oriented

Zorginnovatiecyclus:



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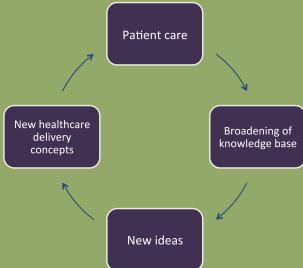
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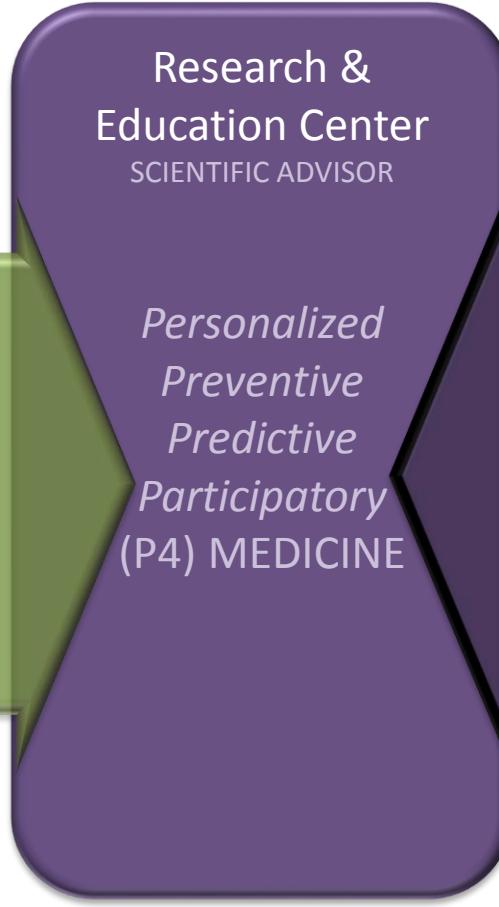
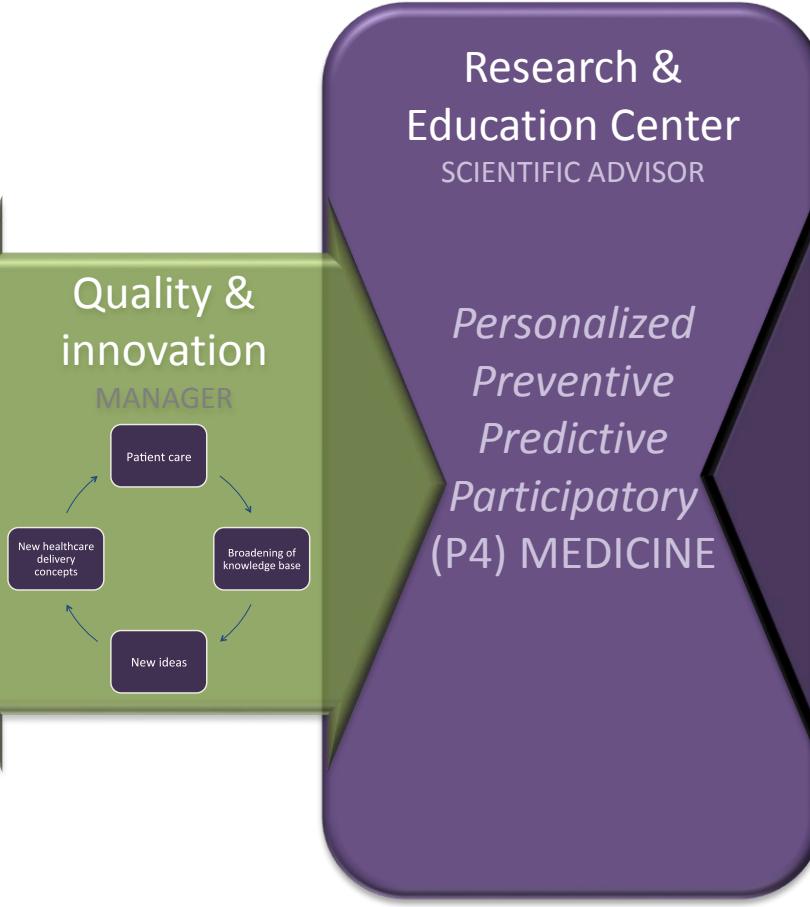
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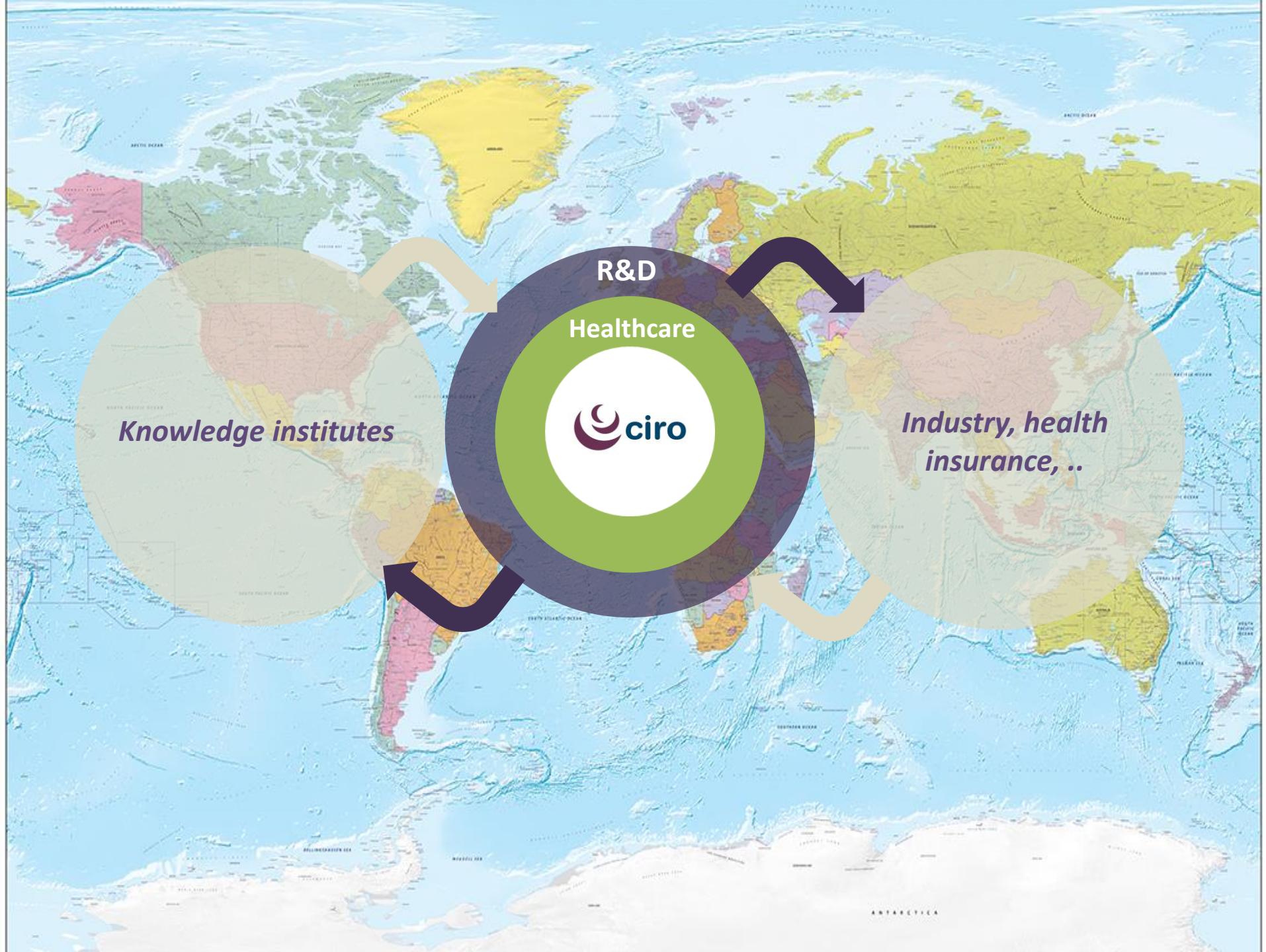
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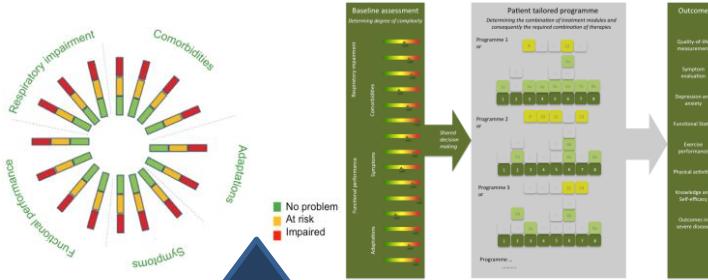


Knowledge institutes

R&D
Healthcare

ciro

*Industry, health
insurance, ..*



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