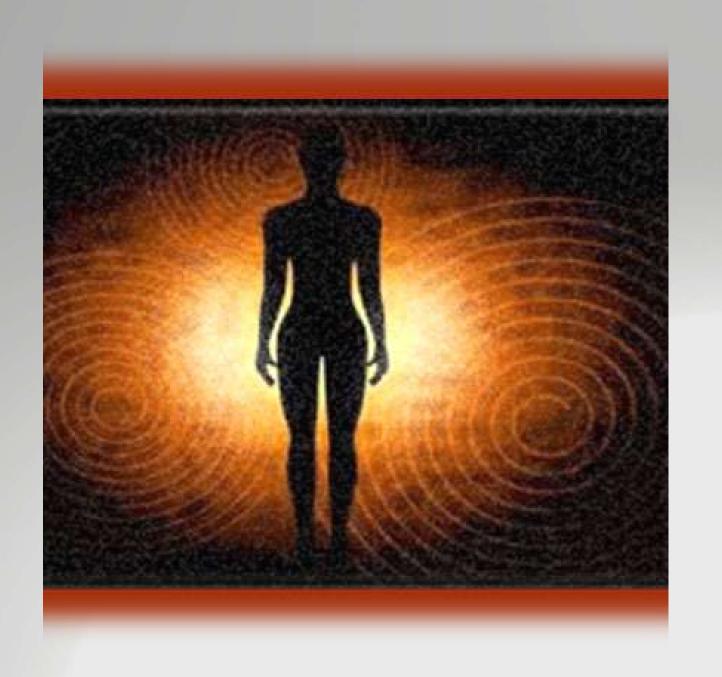


CULTURAL CHANGE IN CLINICAL RESEARCH PATIENT PARTICIPATION

Ms Nidhi Swarup

changing physical issues



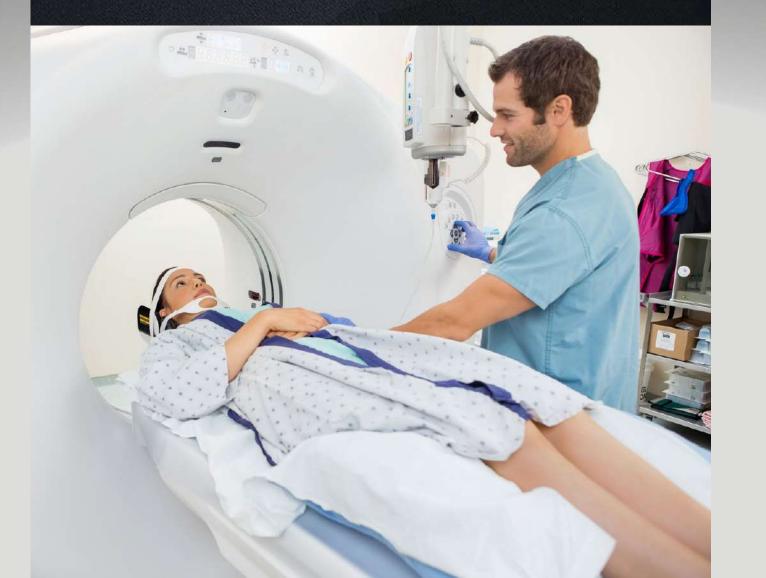
TWO YEAR JOURNEY 2009 -11

- Severe Headaches
- Dizziness
- Extreme Fatigue
- Weight loss
- Sensitive skin
- Very Dry Eyes
- Palpitations
- Diarrhea



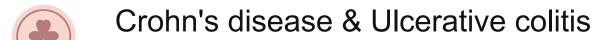
NUMEROUS
EXPERTS
CONSULTED

LOOKING FOR ANSWERS

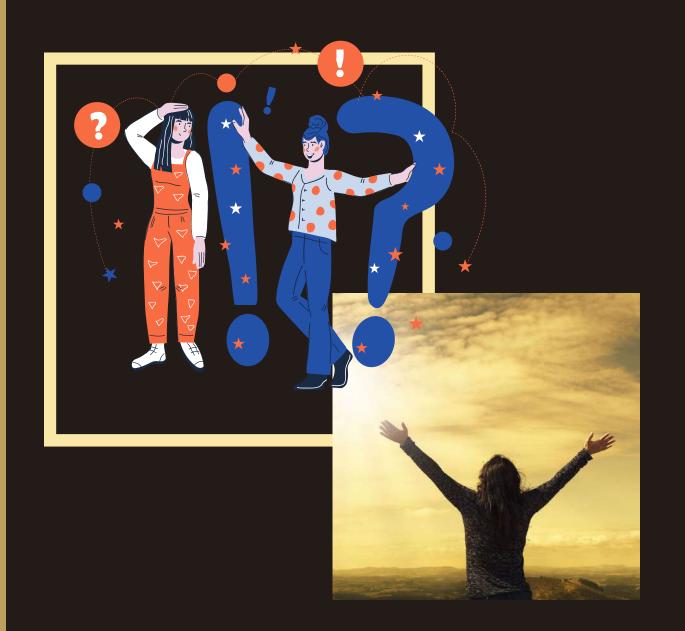


- 1. ENT
- 2. Neuro surgeon
- 3. Neurologist
- 4.Psychiatrist
- 5.Im m un o logist
- 6.Cardiologist
- 7.Ophthalmologist
- 8.Derm atologist
- 9.Gynecologist
- 10. Gastroenterologist
- 11.Rheum atologist





- Two main types of Inflam matory Bowel Disease (IBD)
- In flam matory Bowel Disease (IBD) are non-infectious lifelong illnesses that can be painful, debilitating and sometimes lead to life-threatening complications
- As of 2023 Singapore Population 5.92 Million
 - Estimated 3,000 IBD patients
 - Estimated 300 children
- Tremendous increase in newly diagnosed IBD patients the last 15-20 years



MIXED EMOTIONS

SAD, UPSET, CONFUSED

- NOT curable
- Cause unknown
- Can be debilitating

RELIEVED, HAPPY

- Not a term in al illness
- Not infectious
- Can be managed with meds



















M U L T I P L E D I A G N O S I S

- 1. Crohn's Disease | GASTROENTEROLOGIST
- 2. Fibrom yalgia | RHEUMATOLOGIST
- 3. Eczem a | DERMATOLOGIST
- 4. Sm all Fibre Neuropathy | NEUROLOGIST
- 5. Sleep Apnoea | SLEEP PHYSICIAN
- MENOPAUSE | GYNAECOLOGIST

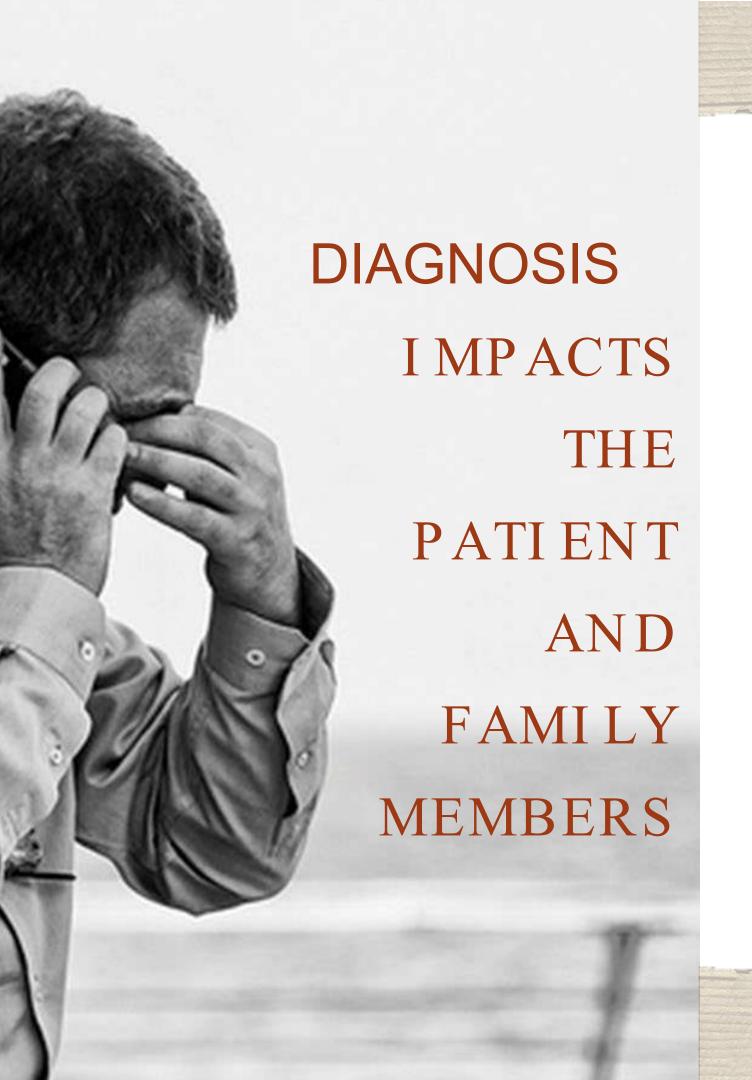


- TCM
- ACUPUNCTURE
- MEDICAL QIGONG
- NATUROPATHY
- HOMEOPATHY
- MEDITATION

a l t e r n a t iv e m e d ic in e

REFERENCE | WHO TECHNICAL REPORT | MEDICATION SAFETY IN POLYPHARMACY

LONG-TERM & LATENT EFFECTS | POST MARKETING SURVEILLENCE | HERB-DRUG, DRUG-FOOD INTERACTIONS



PHYSICAL

"For months I have been so sick and fatigued. I had so many tests, scans and biopsies. I must take medicines for the rest of my life?"

FINANCIAL

"I don't have insurance. Each injection is \$2,000 after subsidy. Are biosimilars effective? I don't want to burden my family."

EMOTIONAL

"I have this chronic illness that I have never heard of before. Now if I take these medicines, there are so many risks. I am confused."

SOCIAL

"My family and friends don't understand how tired I feel. I have bloody diarrhea 5 -6 times everyday. How can I go out?"

PATIENT JOURNEY MAP

ADULT PATIENT | MULTIPLE DIAGNOSIS

GP VISIT

Infectious illnesses considered | Treated, rule-out | Weeks-tomonths | Referral to Specialist



SPECIALISTS' CLINIC

Consultation | Numerous blood, urine, fecal tests | CT Scan, X-Ray, Colonoscopy, MRI ++| Getting Appointments | Waiting for Results



HOSPITALIZATION

Acute episode | A&E | Tests, Scans | Admission & Diagnosis | Unheard of illness| Surgery | Post-procedure care

03.

TREATMENT OPTIONS

Multiple Prescriptions | Online info overwhelming | Inadequate options to clarify doubts | Side effects



FOLLOW-UP

Monitoring each illness | Food, Feelings, Symptoms Diary | Report to Specialist after x#weeks

CO-MORBIDITIES

Repeat Steps 1,2,3 | Medications, Diet, Postdischarge care | IMPACT on Career, Finances & Family Life | Appointments Calendar



PALLIATIVE CARE

Patient and Family Education | Institutional vs Home Care | Mental Wellness | Caregiver Support

DISCHARGE/HOME CARE

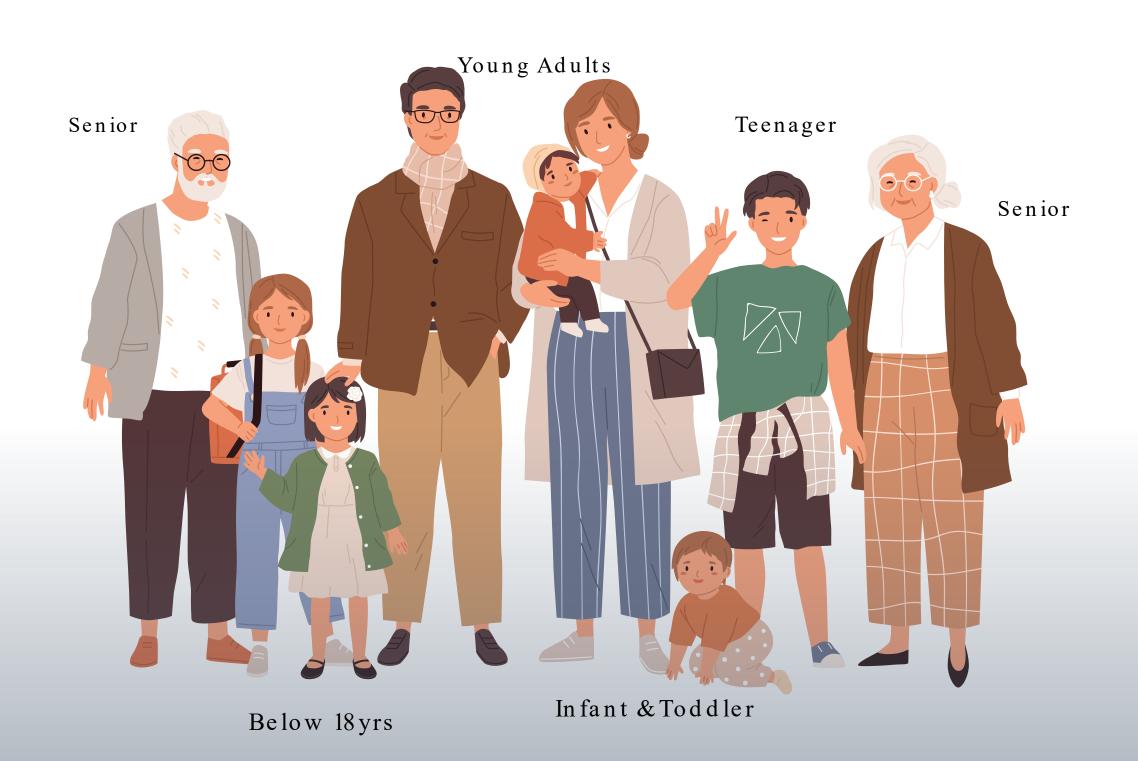
Mobility, Diet, Exercise | Safety, Numerous Medicines, Mental Health



END OF LIFE

Asian Culture | Role of Family Members | Advanced Medical Directive | Critical Care Decisions

DECISION-MAKING BY PATIENTS IN SINGAPORE



MENTAL HEALTH

The WHO defines mental health as "more than the absence of mental disorders. It is a state of well-being in which the individual realizes his or her own abilities, can cope with the normal stresses of life, can work productively and fruitfully, and is able to make a contribution to his or her community."

The prevalence of diabetes among Singapore residents aged 18 to 74 years was 9.5%

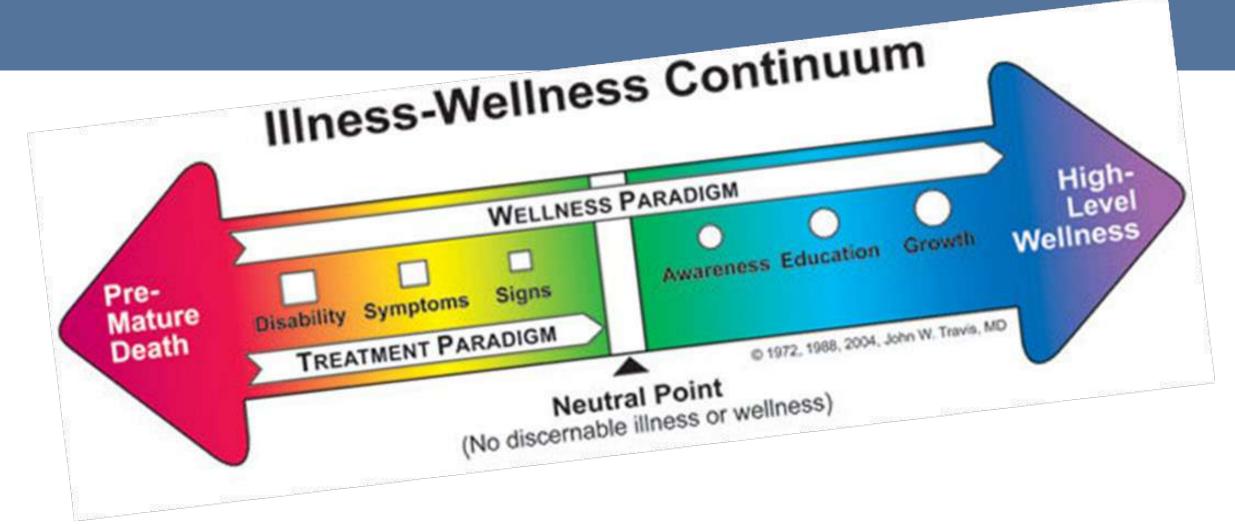
The prevalence of poor mental health as measured by GHQ-12 among Singapore residents aged 18 to 74 years was 13.4%



Younger adults aged 18 to 29 years 21.5% had the highest proportion with poor mental health.

Source: National Population Health Survey 2020, MOH Singapore

c o p in g w it h d ia g n o s is





EFCCA survey: People with IBD Aged 60 and Over

Preliminary results

Stockholm, 22 February 2024









Design of the Survey

- Initiated and developed by EFCCA In collaboration with Leiden University Medical Center, The Netherlands
- Online, web-based survey (Paper copies available in several countries)
- Available in 21 languages and 46 countries
- From 19 May (World IBD day) to 30 November 2023
- Distributed through national IBD associations



EFCCA





To study in the global, older (≥ 60 years) **IBD** population:

- The epidemiology of IBD
- The impact of IBD on Quality of Life (QoL)
- Reported therapy goals
- Self-reported comorbidity and frailty



PRELIMINARY RESULTS FEBRUARY 2024 STOCKHOLM, SWEDEN ~2,000 RESPONSES







IBD Medication

Crohn's disease

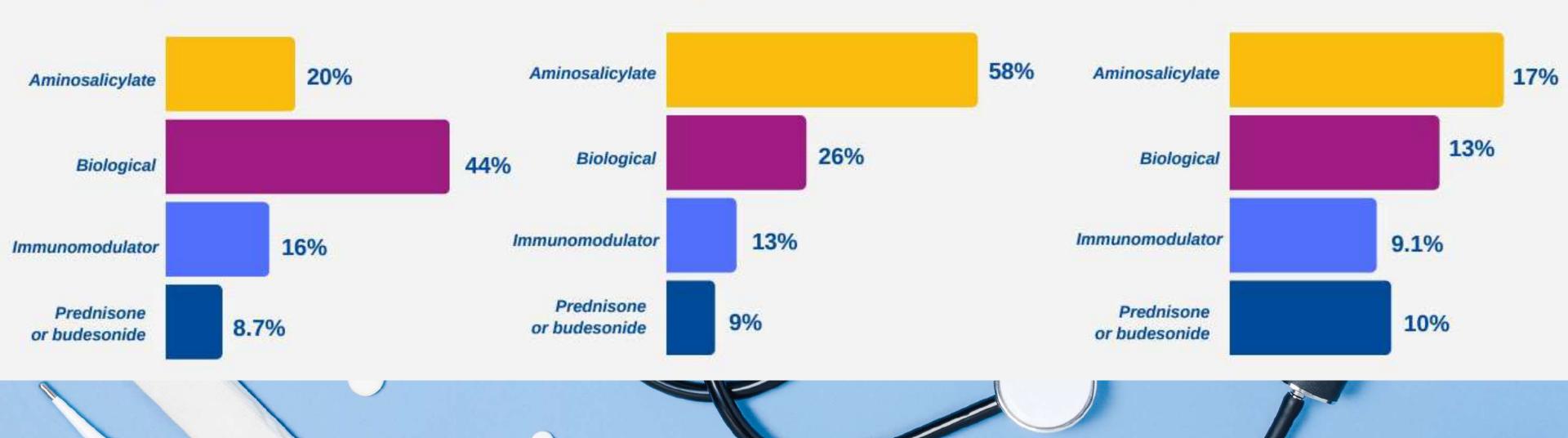
Any medication: 79%

Ulcerative colitis

Any medication: 89%

IBD-U

Any medication: 48%







Therapy goals





Preserve / restore my good mood (feeling relaxed, free of tension)



56%

Not feeling fatigued



32%

Decrease diarrhea/incontinence (going less to the toilet / not experiencing urgency)





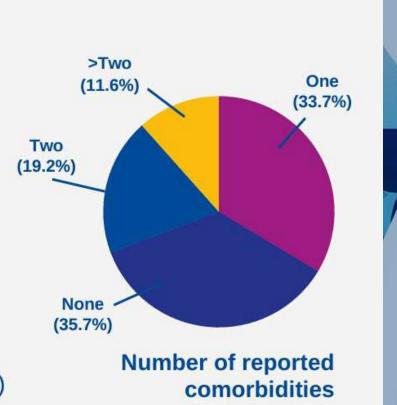




· Patients were asked to report their comorbidities from a 13-item list (incl. one open question)

Top 5 reported comorbidities

- 1. Arthritis (29%)
- 2. Asthma (13%)
- 3. Heart disease (10%)
- 4. Diabetes (9.5%)
- 5. Cancer, in last 3 years (6.4%)





COLONOSCOPY PREPERATION IN SINGAPORE COST + PATIENT EXPERIENCE = VALUE



WATER | The Institute of Medicine of the National Academies recommends drinking

- 2.7 liters (or 91 ounces or 11 cups) for adult women a day
- 3.7 liters (or 125 ounces or 15 cups) for men

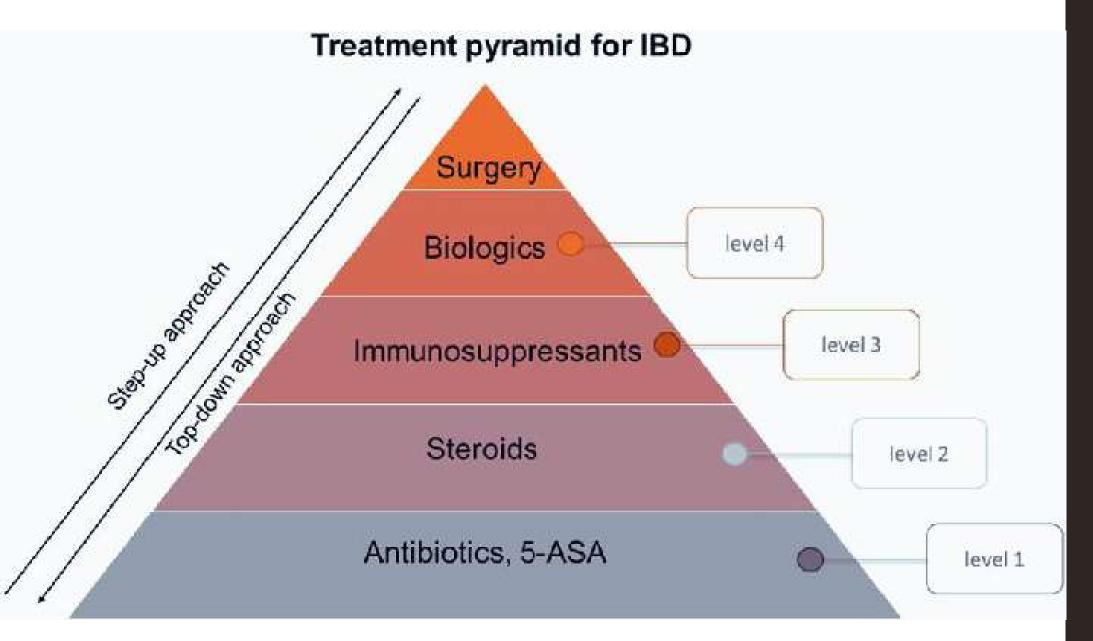
FORBES HEALTH, 2 April 2024

PRESS RELEASE 2016

Ferring Pharmaceuticals announces approval of new tailored dosing regimen in the PICOPREP® (sodium picosulfate, magnesium oxide, citric acid) label in MRP countries in Europe

Ferring Pharmaceuticals has successfully finalised a Mutual Recognition Procedure (MRP) submitted in Europe on 28 October 2015 with the UK as a Reference Member State (RMS).





SOURCE Schnur, S., Wahl, V., Metz, J.K. et al. Inflammatory bowel disease addressed by Caco-2 and monocyte -derived macrophages: an opportunity for an in vitro drug screening assay. In vitro models 1, 365 –383 (2022). https://doi.org/10.1007/s44164 -022-00035-8

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WHEREAREYOURPATIENTS

CLINICS | HOSPITALS | NURSING HOMES | COMMUNITY HOSPITALS | HOSPICE CARE







RESEARCH
PARTICIPANT
Contribute with
DNA, cells etc. for
clinical trials

SIX POTENTIAL ROLES OF PATIENTS

DRIVING FORCE
Owns or collaborates
as a partner in projects
with POs or Industry,
influencing policy &
implementation

INSIGHT PROVIDER
Provides general or
disease specific info
about a patient
population

ADVISOR
Member of clinical
research prog
committee, HTA,
disease specific
workshop

REVIEWER
Various patient
related content eg
brochures, videos,
awareness
campaigns

CO-DESIGNER
Research results,
product brochures &
clinical material into
patient friendly
information

FACTORS AFFECTING APAC Patient Engagement



Ol Accessibility & Ease of Access

02

Trust in Authority

03

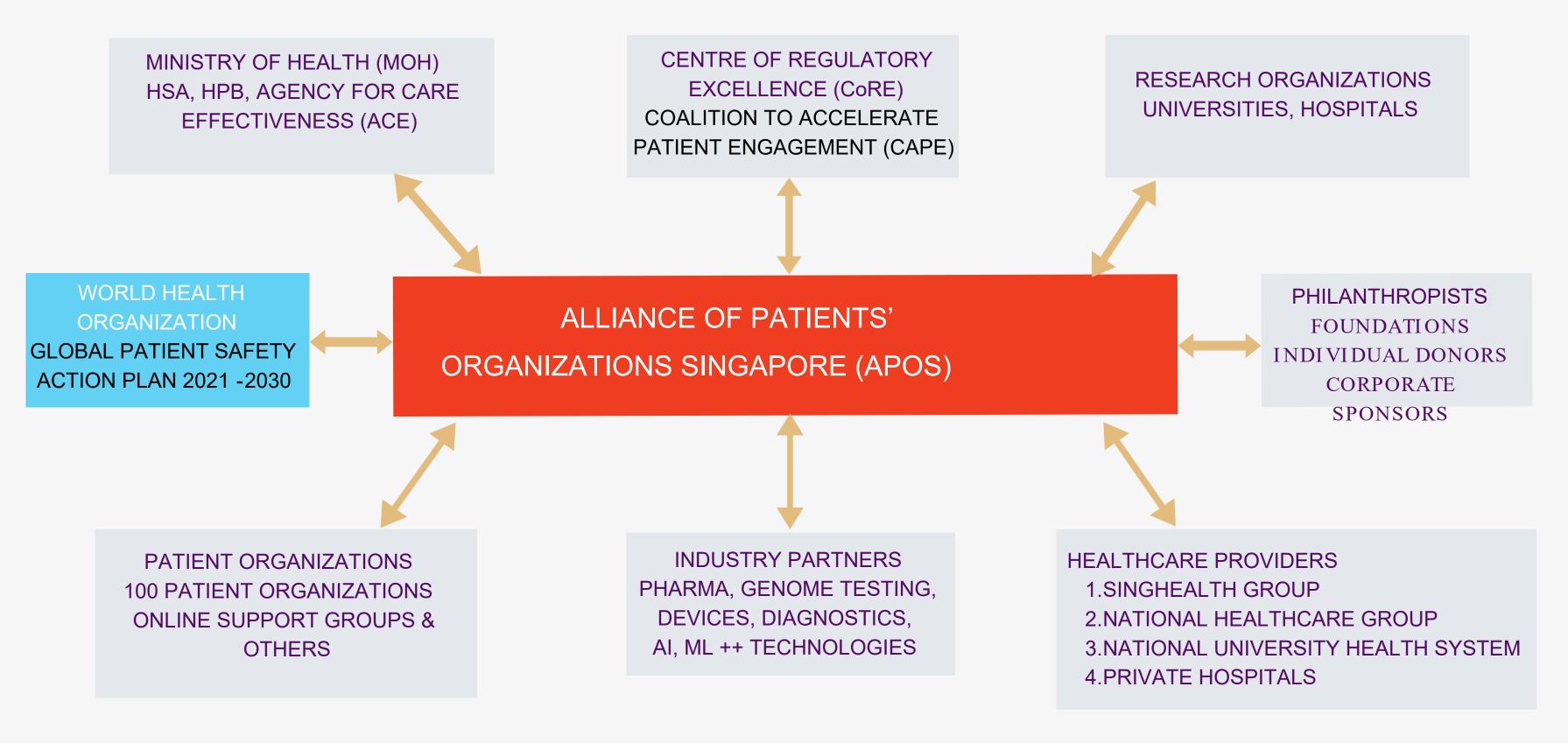
Culture

SOURCE: WORLD ECONOMIC FORUM
https://www.weforum.org/agenda/2022/11/asia-pacificpatient-engagement-healthcare/





MULTIPLE STAKEHOLDERS IN HEALTHCARE















Research, Innovation and Enterprise 2025 Plan

RIE2025 Structure

Our RIE2025 efforts will be organised along four strategic domains, supported by three cross-cutting horizontals.

2000 -2025 Manufacturing, Trade and Connectivity \$25 BILLION (MTC) Leveraging R&D to reinforce Singapore's INVESTMENT position as a global business and innovation hub for advanced manufacturing and connectivity **Urban Solutions** and Sustainability (USS) Renew and build a liveable, resilient, sustainable and economically vibrant city for tomorrow

Human Health and Potential (HHP)

Better transform and protect health, advance human potential and create economic value for Singapore

Smart Nation and Digital Economy (SNDE)

Develop technology leadership to drive our Smart Nation ambition, and anchor Singapore's position as a trusted digital innovation hub

Academic Research

Build a robust base of research capabilities and peaks of international excellence

Manpower

Nurture a strong research and innovation talent pipeline

Innovation and Enterprise

Accelerate enterprise innovation

HEALTHCARE GAPS: SINGAPORE



GLOBAL PATIENT SAFETY ACTION PLAN 2021 -2030 CALLS FOR PATIENT AND COMMUNITY ENGAGEMENT

- 1. POLICYMAKERS
- 2. REGULATORS
- 3. HEALTH TECHNOLOGY ASSESSMENT (HTA)
- 4. PROVIDERS: SINGHEALTH, NHG, NUHS, PRIVATE SECTOR
- 5. ACADEMICS, CLINICIANS, RESEARCHERS
- 6. PHARMACEUTICAL, DIAGNOSTIC, MEDTECH COMPANIES
- 7. INVITE PATIENTS & FAMILY MEMBERS AS CO-CREATORS

NEXT 25 YEARS: INVEST IN

EMPOWERING & INVOLVING PATIENTS

- 1. INCLUDE Patients-as-partners with 'Lived Experience'
- 2. IDENTIFY Unmet Needs of Patients
- 3. CO-DESIGN Clinical Research Questions, Patient-relevant Endpoints, trial design and conduct, inclusion and exclusion criteria and patient priorities in terms of benefit and risk*
- 4. CREATE Patient Advisory Boards for Hospitals, Research Institutes, Pharm a, Med Tech, Diagnostics and CROs
- 5. CO-CREATE Awareness and Educational Materials, CT Results' Report SOURCE: https://doi.org/10.1038/s43856-022-00156-x | www.nature.com/commsmed



PATIENT
AND
PUBLIC
INVOLVEMENT
FOR
SUSTAINABLE
HEALTHCARE

