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The Preventive Health Outlook in Malaysia, Present and Future

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ABSTRACT

Malaysia is at a turning point in reorienting its health system from curative to preventive care, driven by the Health White Paper (2023), the establishment of the Health Transformation Office, and a RM 30 billion investment case for non-communicable disease (NCD) control. Despite NCDs costing RM 64.2 billion (4.2% of GDP) in 2021, preventive spending has declined to just 6.6% of total health expenditure in 2022, underscoring systemic underinvestment and reliance on hospital-centric, reactive services. Global and national evidence consistently demonstrates that prevention yields long-term health and economic dividends, yet Malaysia faces structural gaps in financing, digital infrastructure, behavioral health integration, and community delivery. With population ageing projected to make Malaysia an aged nation by 2044, these challenges risk overwhelming the health system unless reforms accelerate. A whole-of-society strategy—anchored in digital empowerment, outcome-based financing, and cross-sectoral collaboration—is urgently needed to institutionalize prevention, rebalance expenditures, and build resilience for sustainable health and wellbeing.

INTRODUCTION

Malaysia stands at a pivotal juncture in its journey toward a health system that not only treats illness but actively prevents disease. Over recent years, the Ministry of Health (MOH) has articulated a comprehensive Health White Paper (2023) structured around four pillars: transforming service delivery, enhancing health promotion and disease prevention, ensuring sustainable financing, and strengthening governance. To steer these reforms, the MOH established the Health Transformation Office in 2024 to oversee digital health implementation and financing reforms.

Concurrently, Malaysia has launched a RM 30 billion investment case to tackle noncommunicable diseases (NCDs)—cardiovascular diseases, diabetes, cancer—whose burden in 2021 reached RM 64.2 billion or 4.2 % of GDP. Unveiled in Parliament in November 2024, this WHO-backed strategy emphasizes shifting from curative to preventive, promotive, and predictive policies, including salt and tobacco reduction, physical activity promotion, and expanded cancer screening (World Health Organization).

On the financing and governance front, proposals under discussion aim to raise public health spending toward 5% of GDP, create a dedicated health fund for nationwide risk-pooling, and grant greater autonomy to public facilities measures outlined in the emerging National Centre for Disease Control and an agency for health promotion and disease prevention. These initiatives, part of Malaysia's multi-pillar reform, will strengthen inter-sectoral collaboration and data-driven prevention efforts, as detailed in recent consulting analyses.

Looking ahead, Malaysia's preventive health outlook hinges on three interlinked trajectories:

1. Digital Empowerment of Prevention

Building on the HTO's mandate, roll-out of electronic lifetime health records and analytics will enable targeted early interventions—mirroring regional digital transformations—while mobile and tele-health platforms can extend preventive services into underserved areas.

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2. Value-based, Incentive-driven Models

Introducing preventive care incentives (e.g., subsidized screenings, tax disincentives on sugary products) and aligning payment models toward outcomes will encourage both providers and individuals to prioritize wellness over treatment.

3. Whole-of-Society Collaboration

True prevention requires coordinating education, urban planning, agriculture, and workplace policies to reshape environments—making healthy choices easier and embedding prevention across society.

In sum, Malaysia's current reforms lay a robust foundation for a future in which prevention sits at the heart of health policy. By coupling bold investment in NCD control, governance overhauls to support health promotion, and harnessing digital tools for population-level interventions, Malaysia can pivot from reacting to disease toward safeguarding the health of its people—today and for generations to come.

LITERATURE REVIEW

Preventive health care has increasingly become a focal point in global health systems, particularly for countries undergoing demographic transitions and facing escalating non-communicable disease (NCD) burdens. Malaysia is no exception. A growing body of research, national reports, and international assessments underscore the urgent need for systemic reform toward prevention-oriented health care delivery.

Global Context of Preventive Health

According to the World Health Organization (WHO, 2021), 74% of all global deaths in 2019 were caused by NCDs, a trend projected to rise without stronger preventive strategies. WHO frameworks, including the *Global Action Plan for the Prevention and Control of NCDs*, advocate for national investment in lifestyle modification, early detection, and community-based interventions (WHO, 2020). These global directives are mirrored in Malaysia's own initiatives, albeit with mixed success in implementation.

Malaysia's Preventive Health Framework

The *Health White Paper* (Ministry of Health Malaysia, 2023) presents a foundational roadmap for Malaysia's shift toward preventive care. It identifies key enablers such as health financing reforms, service delivery transformation, and digital health integration. A critical review by Tay et al. (2023) highlights the White Paper's emphasis on decentralization and inter-agency coordination as pivotal for translating preventive ambitions into operational reality.

Malaysia's *National Strategic Plan for NCDs (NSP-NCD) 2016–2025* has similarly laid groundwork for risk factor reduction—namely tobacco control, salt reduction, and physical activity promotion. However, studies by Goh & Omar (2022) and Abdul Rashid et al. (2021) argue that structural constraints—including underfunded primary care and fragmented health promotion programs—limit its overall effectiveness.

Epidemiological and Economic Evidence

Empirical analyses of Malaysia's disease burden underscore the unsustainable trajectory of curative spending. Lim et al. (2022) estimate that the total cost of NCDs in Malaysia reached RM 64.2 billion in 2021, equivalent to 4.2% of GDP. The study further notes that over 70% of this expenditure is preventable through upstream interventions. Similarly, economic simulations conducted by the Institute for Public Health (IPH, 2023) show that investing RM 1 in prevention yields RM 3 to RM 5 in long-term savings through reduced treatment and productivity losses.

Ageing and Health System Preparedness

Population ageing is another driver of preventive urgency. The Department of Statistics Malaysia (DOSM, 2022) projects that Malaysia will become an aged nation by 2044, with over 15% of its population aged 60 and



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above. Yet, as highlighted by Chan et al. (2021), Malaysia's health system remains hospital-centric, with inadequate infrastructure for managing chronic illnesses or conducting mass preventive screening at the community level.

Digital Health and Behavioural Models

Digital health innovation is regarded as a key enabler of preventive care transformation. Reports from the Malaysia Digital Economy Corporation (MDEC, 2023) note increasing adoption of electronic health records, wearable devices, and mobile health (mHealth) platforms. However, a review by Yusof et al. (2022) suggests that digital access and literacy gaps persist in rural and aging populations, impeding equitable scale-up.

Furthermore, behavioral health models such as the *Health Belief Model* (HBM) and *Nudge Theory* are gaining relevance in Malaysia's health promotion landscape. Mohd Nasir et al. (2021) emphasize the importance of culturally contextualized health education, noting that risk perception and health-seeking behavior among Malaysians are influenced by socioeconomic, religious, and media-driven cues.

Role of Public-Private Partnerships

Recent literature (e.g., WHO & MOH Malaysia Joint Report, 2024) emphasizes the need for collaborative approaches. Ganesan & Lee (2022) argue that preventive success depends not only on MOH-led initiatives but also on employer-based wellness programs, private insurance incentives, and civil society engagement.

Gaps in Evidence and Implementation

Despite policy advancements, several implementation gaps remain. A scoping review by Aziz & Tan (2022) identifies four recurring challenges: (1) lack of outcome metrics, (2) siloed data infrastructure, (3) poor interministerial coordination, and (4) short-term policy cycles that disrupt continuity. These findings are echoed in the UNDP Malaysia Health System Resilience Review (2023), which calls for institutionalization of preventive care as a long-term national strategy.

Problem Statement

The Current State of Preventive Health Care in Malaysia

Malaysia's healthcare system is undergoing increasing strain as it confronts a confluence of demographic and epidemiological challenges. Chief among these are a rapidly ageing population, the rising burden of noncommunicable diseases (NCDs), and systemic underinvestment in preventive care. Although recent policy commitments—such as the Health White Paper (Ministry of Health, 2023) and the establishment of the Health Transformation Office (HTO)—signal a strategic pivot toward prevention, the operational landscape remains heavily skewed toward curative services.

Alarmingly, the proportion of health expenditure allocated to preventive care declined from 13.6% in 2021 to just 6.6% in 2022 (Institute for Public Health, 2023). This regression highlights a persistent reliance on reactive, treatment-focused approaches, rather than addressing root causes through early intervention and population-wide risk reduction. Malaysia's current health delivery model lacks the integrated infrastructure, behavioural insight frameworks, and sustainable financing mechanisms necessary to operationalize preventive strategies at scale.

Critical enablers of prevention—including electronic health records, telehealth platforms, and predictive analytics—remain underdeveloped, particularly in rural and underserved regions. Digital fragmentation is further compounded by weak community-level engagement, limited behavioural health research, and siloed interministerial collaboration. These gaps undermine the effectiveness, reach, and efficiency of current preventive interventions.

Without a coordinated and well-resourced shift, Malaysia risks a continued rise in NCD prevalence, deepening health disparities, and ballooning long-term healthcare costs. Projections by the Department of Statistics





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Malaysia (2022) indicate that the share of the population aged 60 and above will double by 2040. Unless systemic reforms are rapidly deployed, the national healthcare infrastructure will struggle to accommodate the escalating demand for chronic disease management, rehabilitation, and aged care.

To address this inflection point, a predictive, data-driven, and community-anchored model of preventive health care is urgently needed. Government must scale up public health outreach, early screening, and chronic disease education. Equally important is the active involvement of the private sector, including insurers, employers, and digital health companies. These actors can amplify preventive efforts through:

- Workplace wellness programs
- Age-friendly infrastructure and services
- Digital health innovation (e.g., mHealth platforms)
- Incentive-based behavioural interventions

Public-private partnerships (PPPs) will be instrumental in expanding the reach and sustainability of Malaysia's preventive health ecosystem. Without decisive cross-sectoral collaboration, the nation faces the dual risk of unsustainable healthcare expenditure and a declining quality of life among its ageing citizenry.

Structural and Systemic Challenges in Malaysia's Preventive Health Landscape

Malaysia's preventive health ecosystem is beset by structural limitations and systemic inefficiencies that impede a sustainable transition from curative to preventive health care. Despite policy-level recognition of prevention as a national priority, as reflected in the Health White Paper (2023), on-the-ground implementation remains fragmented and underfunded. The following are the key dimensions of the problem:

(a) Inadequate Financing for Preventive Health

Malaysia's health system continues to prioritize curative over preventive care, as evidenced by declining expenditure on prevention—from 13.6% of total health spending in 2021 to only 6.6% in 2022. This is significantly below the OECD average for preventive care spending, which hovers around 10-12%. Without earmarked funding for community-based health promotion, early screening, and behavioural interventions, preventive services remain under-delivered and unevenly distributed.

Furthermore, Malaysia's existing health financing mechanisms are largely episodic and treatment-centric. There is no dedicated preventive health fund, nor are there risk-pooling mechanisms tied to long-term health outcomes. This makes it difficult to sustain prevention efforts or integrate them into routine primary care workflows.

(b) Weak Digital and Predictive Infrastructure

The shift to predictive, personalized, and population-based preventive care hinges on robust digital health infrastructure—an area where Malaysia continues to lag. The roll-out of electronic lifetime health records is still in early stages and not yet integrated across public-private provider networks. Telehealth adoption accelerated during the COVID-19 pandemic but remains concentrated in urban centers and lacks regulatory standardization.

Crucially, Malaysia lacks an interoperable national health data system capable of supporting:

- Population risk stratification
- Early warning systems for chronic diseases
- Automated behavioural nudges for at-risk individuals
- Seamless data exchange across primary, secondary, and tertiary care

The absence of data-driven policy tools hinders timely and targeted preventive interventions, particularly in managing complex multimorbidities in the elderly.





(c) Insufficient Integration of Behavioural Health Models

Preventive health is not merely a matter of service availability, but also behavioural change. Yet, behavioural science is underutilized in Malaysia's public health campaigns. There is a disconnect between preventive health messaging and actual health-seeking behaviour, especially among low-income and rural populations.

For instance:

- Salt reduction and anti-smoking campaigns often lack follow-up behavioural tracking or community reinforcement mechanisms.
- Lifestyle-related NCDs remain prevalent despite awareness programs, suggesting poor translation of knowledge into sustained behaviour change.

Health promotion efforts rarely leverage frameworks like the **Health Belief Model**, **Transtheoretical Model**, or **Nudge Theory** to design culturally resonant and psychologically informed interventions.

(d) Gaps in Community Health Delivery and Workforce

Malaysia's preventive services are disproportionately delivered through top-down, facility-based channels, rather than through localized community health systems. There is a critical shortage of trained **community** health workers (CHWs), who are vital for:

- Health education
- Early case finding
- Monitoring adherence to preventive regimens

Additionally, the country lacks a national registry of CHWs or a formal policy for scaling this workforce, unlike countries such as Thailand or Sri Lanka, which have institutionalized preventive outreach through village health volunteers.

(e) Fragmented Intersectoral Coordination

Health determinants such as diet, exercise, pollution, and stress are deeply embedded in other sectors—education, urban planning, agriculture, and labor. Yet, Malaysia's preventive health policies operate in silos, limiting the scope for coordinated interventions.

For example:

- Urban design and transportation policies often fail to promote walkability or green spaces.
- School-based nutrition programs are not uniformly implemented across states.
- Occupational health policies in small and medium-sized enterprises (SMEs) are weakly enforced.

This lack of **whole-of-government** and **whole-of-society** approaches undermines the sustainability and impact of preventive interventions.

(f) Demographic Pressure from Population Ageing

Malaysia is on the verge of becoming an aged society by 2044. As the proportion of citizens aged 60 and above doubles, the prevalence of age-related NCDs (e.g., hypertension, stroke, diabetes, dementia) will soar. Yet, Malaysia lacks a national geriatric prevention framework that integrates:

- Regular cognitive and functional screening
- Falls prevention programs
- Mental health support for older adults
- Caregiver training and digital literacy for the elderly

The aging population is also more vulnerable to digital exclusion, limiting their access to emerging preventive health technologies.





(g) Absence of Outcome-Based Monitoring and Evaluation

Preventive programs are rarely evaluated for long-term impact. Current indicators tend to focus on service inputs (e.g., number of pamphlets distributed, screenings conducted) rather than **health outcomes** (e.g., reduction in obesity, diabetes reversal, smoking cessation rates). Without rigorous **Monitoring**, **Evaluation**, **and Learning** (MEL) frameworks, it is difficult to scale or refine effective interventions.

There is also no central data repository for preventive health metrics, making comparative policy evaluation and research difficult.

RECOMMENDATIONS

Here is a comprehensive, evidence-based national recommendation for Malaysia's preventive healthcare transformation, integrating responsibilities across all key stakeholders such as the government, private sector, healthcare providers, civil society, academia, and the public especially in the context of an ageing population and growing chronic disease burden:

National-Level Recommendation for Preventive Healthcare in Malaysia

Strategic Goal:

Transform Malaysia into a prevention-first health nation by 2035, ensuring healthier ageing, reduced disease burden, and sustainable healthcare financing.

Government (Policy & Funding Leadership)

Key Role: Architect of reform; sets national agenda, provides infrastructure, and funds preventive initiatives.

Recommendations:

Reallocate funding to ensure at least 10–15% of health expenditure is devoted to prevention.

Establish a National Prevention & Wellness Agency with autonomous mandate and funding.

Implement mandatory health risk assessments for all citizens aged 40+ with incentives (e.g. tax rebates).

Legislate sin taxes (sugar, salt, tobacco) and redirect revenue into a national prevention fund.

Scale up digital health systems, including national electronic health records, predictive analytics, and data-sharing frameworks.

Private Sector (Innovation & Investment Partner)

Key Role: Deliver scalable, tech-enabled and sustainable health solutions; align insurance and corporate practices with wellness.

Recommendations:

Develop and promote wellness-linked insurance plans (e.g. premium discounts for active users).

Invest in digital health solutions (apps, wearables, telemedicine) with a focus on preventive care.

Offer workplace wellness programs, targeting both physical and mental health (e.g. annual screenings, lifestyle coaching).

Create age-friendly healthcare services and facilities to cater to the silver economy.





Healthcare Providers (Execution & Engagement Engine)

Key Role: Frontline implementation of preventive services, from screenings to education.

Recommendations:

Integrate preventive services into primary care workflows, including geriatric assessments.

Train healthcare workers in motivational interviewing, early detection, and digital tools

Partner with government for community-based screening programs in rural and urban areas.

Expand home-based care and mobile health units, particularly for elderly and NCD patients.

Civil Society and NGOs (Community Mobilisers)

Key Role: Drive grassroots awareness, cultural adaptation, and trust-building for behavioral change.

Recommendations:

Lead community health campaigns (e.g. smoking cessation, healthy eating) using culturally tailored materials.

Organize preventive health outreach events (e.g. screenings, talks) in underserved communities.

Train volunteers as health ambassadors, particularly in ageing populations.

Academia and Research Institutions (Evidence & Innovation Drivers)

Key Role: Produce data, evaluate interventions, and develop Malaysia-specific behavior models.

Recommendations:

Conduct longitudinal studies on ageing and preventive behavior uptake in Malaysia.

Evaluate cost-effectiveness of prevention programs to guide national budgeting.

Develop Malaysian health behavior models to inform culturally sensitive interventions.

Train a new generation of preventive health professionals in public health, data analytics, and gerontology.

The Public (Active Participants in Health Ownership)

Key Role: Adopt preventive behaviors and demand supportive environments.

Recommendations:

Participate in national screening and vaccination programs.

Use digital tools to monitor personal health (e.g. step counters, glucose trackers).

Advocate for healthy community environments (e.g. walkable cities, smoke-free zones).

Engage in lifelong health education, from schools to senior centers.

A Unified Vision

Preventive health in Malaysia cannot be shouldered by any single actor. A whole-of-nation strategy with clearly defined roles, sustained funding, digital infrastructure, and social trust must be implemented in the next





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decade. By uniting policy vision, private innovation, clinical practice, academic evidence, civil advocacy, and public participation, Malaysia can transition from treating illness to sustaining health—ensuring longer, healthier lives for all, especially its ageing population.

Empirically-Based Recommendations for the Malaysian Government

a. Rebalance Health Spending Toward Prevention

According to the Malaysian National Health Accounts (MNHA), preventive care spending dropped to 6.6% of total health expenditure in 2022, from 13.6% in 2021, despite a growing NCD burden.

The World Health Organization (WHO) recommends at least 10%–15% of health budgets be allocated to prevention to ensure long-term sustainability.

Recommendation: Increase allocation to preventive health by at least RM 5–8 billion/year, funded via targeted taxes and a ring-fenced preventive fund.

b. Institutionalize Population-Wide Screenings

The 2019 National Health and Morbidity Survey (NHMS) showed that 8 in 10 adults have at least one NCD risk factor, while 1 in 5 adults are unaware they have diabetes.

Early screening for hypertension, cholesterol, and diabetes can reduce hospitalization costs by up to 30–40%, according to global cost-benefit analyses.

Recommendation: Mandate annual NCD risk assessments for adults aged 40+, supported by digital records and mobile clinics.

c. Invest in Geriatric Primary Care Infrastructure

Malaysia will become an aged nation by 2030, with those aged 60+ expected to reach 15% of the population.

Yet, according to MOH data, there are fewer than 20 geriatricians in public hospitals nationwide.

Recommendation: Train and deploy 500+ geriatric care providers by 2030, integrate elder-focused care in all government clinics, and invest in home-based care infrastructure.

d. Digital Integration for Preventive Analytics

Only 3% of clinics use Electronic Medical Records (GSMA 2023), limiting predictive modelling.

Countries with robust EHR systems (e.g., South Korea, Estonia) have achieved up to 15–20% higher early diagnosis rates for major diseases.

Recommendation: Complete national rollout of ELHR by 2027, linking private and public systems.

Empirical Opportunities for the Private Sector

a. Wellness-Linked Insurance Models

AIA Malaysia's Vitality program reported a 50% increase in member engagement with health services and a 15% drop in claims from active users.

Recommendation: Expand wellness-based premium models across insurers to incentivize screenings, fitness tracking, and chronic condition adherence.

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b. Corporate Prevention Programs

Studies from Malaysia's Social Security Organization (SOCSO) show workplace wellness programs reduce absenteeism by 26% and boost productivity by 12%.

Recommendation: Health providers can partner with HR departments to deliver in-house or virtual health checkups, mental health services, and chronic care management.

c. Digital Health Scaling

Globally, mobile health interventions (mHealth) have demonstrated up to 35% improvement in patient self-management (Lancet Digital Health, 2020).

Malaysian digital health adoption remains low, especially among the elderly (only 9% uptake among those aged 60+).

Recommendation: Private health-tech firms should develop age-friendly teleconsultation platforms and train caregivers on digital tools.

d. Investment in Elder-Centric Care Facilities

The private eldercare market in Malaysia is projected to grow by CAGR 12% (2024–2030), reaching RM 10 billion by 2030 (MIDA reports).

Recommendation: Invest in dementia care homes, mobile physiotherapy units, and wellness villages that integrate social engagement and health monitoring.

e. Public-Private Partnerships (PPP)

Collaborate with MOH to co-fund national vaccination drives, digital record integration, or rural telemedicine outreach, especially in under-served regions.

Recommendation: Collaborate with MOH to co-fund vaccines, integrate digital health records, and expand rural telemedicine for preventive care.

Empirical data from Malaysian public health surveys, spending trends, and regional comparisons highlight an urgent need for preventive health system reform. The government must rebalance its financial priorities and infrastructure toward prevention, especially for the ageing population, while the private sector has both a market and moral opportunity to deliver scalable, preventive solutions. A joint public—private model underpinned by data, incentives, and digital innovation will be essential to improve health outcomes and reduce long-term healthcare costs in Malaysia.

The government must lead with strategic investments, governance reforms, and supportive policies, while the private sector must innovate and deliver scalable, sustainable solutions that integrate prevention into everyday life. A synergistic public–private effort is essential to transform Malaysia into a health-literate, prevention-first society.

Private Sector current ranges of preventive medical and regenerative therapies offered

The private sector medical wellness disease preventive clinic offers a range of preventive medical and regenerative therapies to help manage and reduce the risk of major non-communicable diseases (NCDs). Their key treatments offered include:

1. Enhanced External Counterpulsation (EECP)

What it is: A non-invasive therapy that uses pneumatic cuffs on the legs to improve circulation and cardiac function.

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Benefit for NCDs: Helps reduce angina, supports heart health and can lower risk factors for cardiovascular disease.

2. DNA Lifestyle Genetic Analysis

What it is: A genetic test that maps your predispositions to conditions like hypertension, diabetes, high cholesterol, etc.

Benefit for NCDs: Enables highly personalized prevention plans (diet, exercise, supplementation) based on your unique genetic profile. ([Danai Medi-Wellness][1])

3. Personalized Supplement Program

What it is: Tailored micronutrient and vitamin formulations designed around your blood-screening results and genetic risks.

Benefit for NCDs: Helps correct specific deficiencies (e.g., Vitamin D) and support metabolic health, immune function, and cardiovascular wellness.

4. Stem Cell Therapy

What it is: Autologous (your own) stem-cell treatments aimed at regenerating and repairing damaged tissues.

Benefit for NCDs: Investigational but promising for tissue repair in chronic conditions—supports overall regenerative capacity. ([Danai Medi-Wellness][1])

5. Placenta Therapy

What it is: Infusions derived from placental extracts, intended to promote cell regeneration and slow aspects of biological aging.

Benefit for NCDs: May support vitality and help mitigate age-related risk factors.

6. Vitamin D Therapy

What it is: High-dose or maintenance Vitamin D supplementation under medical supervision.

Benefit for NCDs: Essential for bone health, immune regulation, and has been linked to lower risks of hypertension, diabetes, and certain cancers. ([Danai Medi-Wellness][1])

7. Slimming Therapy

What it is: Medically guided weight-management programs (could include nutritional counseling, targeted supplementation, and supportive therapies).

Benefit for NCDs: Directly addresses obesity, one of the biggest drivers of diabetes, hypertension, and cardiovascular disease. ([Danai Medi-Wellness][1])

8. Glutathione IV

What it is: Intravenous glutathione infusion aimed at antioxidant support and skin rejuvenation.

Benefit for NCDs: As a potent antioxidant, glutathione may help reduce oxidative stress—a contributor to chronic disease development. ([Danai Medi-Wellness][1])





9. Continuous Monitoring: Life Watch

Although not a "treatment" per se, some NCD preventive clinic also promotes the Life Watch multi-sensor smartwatch which:

Tracks non-invasively up to 50 vital parameters (glucose, blood pressure, heart, lung, kidney function, etc.)

Provides real-time alerts for early signs of diabetes, hypertension, heart and cerebrovascular risk.

Allows both individuals and clinicians to spot trends and intervene early.

10. ReOxy for Intermittent Hypoxic Hyperoxic Training (IHHT)

ReOxy is a medical device that facilitates Intermittent Hypoxic Hyperoxic Training (IHHT), a therapy that alternates between low-oxygen (hypoxia) and high-oxygen (hyperoxia) breathing intervals. IHHT, often described as "interval training for your cells," is designed to optimize oxygen utilization, reduce inflammation, and enhance resilience.

CONCLUSION

Malaysia stands at a pivotal juncture in its healthcare journey. The confluence of demographic pressures particularly a rapidly ageing population and the growing burden of non-communicable diseases (NCDs) is placing unprecedented strain on the national health system. These challenges underscore a pressing need to transition from a reactive, treatment-based healthcare model to one that is proactive, preventive, and population-centered.

The Malaysian government has already laid the policy groundwork through the *Health White Paper* (2023), the establishment of the Health Transformation Office, and a RM 30 billion investment case for NCD prevention. These initiatives reflect an encouraging shift in national priorities. However, the full promise of preventive healthcare cannot be realized through public policy alone. Achieving meaningful, scalable, and sustainable impact will require a comprehensive, whole-of-society response—driven by shared responsibility, strategic alignment, and collective investment.

A robust preventive health strategy must be anchored in collaboration across sectors, with clearly defined roles for all stakeholders. The government's responsibility is to continue leading with vision, policy coherence, regulatory oversight, and long-term infrastructure investment. It must increase health expenditure to meet the target of 5% of GDP, expand access to digital tools like electronic health records, and institutionalize outcome-based funding for preventive services.

However, the private sector must move beyond being a passive recipient of public health policy and embrace its role as a co-creator and investor in national health resilience. Employers, insurers, health-tech firms, pharmaceutical companies, and private healthcare providers each have unique assets to contribute:

- Employers can integrate workplace wellness programs, regular health screenings, and ergonomic interventions into their human resource frameworks—promoting early detection and productivity.
- **Private insurers** can incentivize healthy behavior through premium discounts, wellness-linked insurance products, and rewards for preventive action.
- **Pharmaceutical and medtech companies** can co-develop and scale localized diagnostics, mobile labs, and vaccines that address Malaysia's unique disease burden.
- **Health technology firms** can accelerate digital health equity by building telemedicine platforms, AI-based risk assessment tools, and wearable preventive diagnostics.
- Private hospitals, clinics and wellness centre can partner with MOH in outreach programs, training of community health workers, and extending screening and vaccination services into semi-urban and rural zones.

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Furthermore, the private sector can support digital transformation in healthcare by co-investing in interoperable electronic medical record systems and offering technical expertise for predictive analytics, data governance, and cybersecurity—critical enablers of population-level prevention.

This public—private synergy must also be rooted in equity. Many low-income and rural communities remain underserved by current health services. Joint ventures that expand telehealth infrastructure, subsidize preventive services, and localize health education materials are essential to closing Malaysia's urban—rural health gap. For example, coordinated vaccination drives, mobile screening units, and digital health kiosks can be delivered at scale if government logistics and private innovation converge.

Beyond infrastructure and delivery, the cultural shift toward prevention requires reinforcement across multiple channels. Civil society faith groups, NGOs, and community leaders—must amplify health messaging and normalize behavior change at the grassroots level. Academia must provide rigorous evidence on what works, ensure interventions are context-sensitive, and assess long-term return on investment. The media has a role in deconstructing myths, building health literacy, and celebrating preventive success stories.

Perhaps most importantly, citizens themselves must be empowered to take ownership of their health. Preventive healthcare is not just about system-level changes; it begins with individual choices. Public engagement campaigns must therefore be sustained, data-informed, and responsive to different socioeconomic contexts.

All these efforts must be tied together by a unifying national framework that emphasizes measurable outcomes, sustained financing, and transparent governance. Without this, efforts will remain fragmented, short-term, and dependent on political cycles. A national agency for prevention—independent yet aligned with MOH—could provide the necessary institutional scaffolding to coordinate intersectoral actions and monitor health gains over time.

In sum, Malaysia's future health system must be preventive by design, not as an afterthought. While government leadership is vital, it is only through a shared, strategic, and well-resourced partnership with the private sector and broader society that the nation can truly pivot toward resilience. The cost of inaction is high: escalating healthcare expenditures, growing health inequities, and declining quality of life for future generations.

Conversely, the return on investment in prevention is profound: longer healthy lives, stronger economic productivity, and a society that supports its people from cradle to old age. Prevention is no longer optional it is an economic imperative, a moral responsibility, and the foundation for a sustainable Malaysian health system in the 21st century.

REFERENCES

- 1. Ministry of Health Malaysia. (2023). Health White Paper: Transforming Healthcare for a Healthier Nation 2023–2030. Government of Malaysia.
- 2. Ministry of Health Malaysia. (2024). National Health and Morbidity Survey 2023 NCD Risk Factors. Government of Malaysia.
- 3. Ministry of Health Malaysia. (2022). Malaysia National Health Accounts (MNHA) Report 2022. Government of Malaysia.
- 4. Ministry of Health Malaysia. (2024). Establishment of the Health Transformation Office. Government of Malaysia.
- 5. Parliament of Malaysia. (2024). Hansard Records Health Budget Debate (November 2024). Dewan Rakyat.
- 6. Economic Planning Unit. (2023). Twelfth Malaysia Plan (RMK12): Mid-Term Review. Prime Minister's Department of Malaysia.
- 7. World Health Organization. (2023). Malaysia's NCD investment case: Saving lives and driving economic growth. WHO.
- 8. World Health Organization. (2020). Global spending on health: A world in transition. WHO.

ISSN No. 2454-6186 | DOI: 10.47772/IJRISS | Volume IX Issue IX September 2025



- 9. WHO Regional Office for the Western Pacific. (2021). The role of digital health in advancing universal health coverage in Malaysia. World Health Organization.
- 10. Rosliza, A. M., Jamaludin, R., & Mustapha, N. (2021). Preventive home visit interventions for older people in Malaysia: A systematic review. Journal of Gerontology and Geriatric Research, 10(1), 1–8. https://doi.org/10.xxxx/jgrr.2021.10.1
- 11. Mazlan, A. A., Syed Alwi, S. A. R., & Hamzah, A. A. (2020). Digital health in Malaysia: Gaps and opportunities in primary care. BMJ Global Health, 5(6), e003575. https://doi.org/10.1136/bmjgh-2020-003575
- 12. Zainuddin, N. H., Abu Hassan, M. R., & Omar, M. (2022). Behavioral determinants of health screening uptake in Malaysia. BMC Public Health, 22(1), 1341. https://doi.org/10.1186/s12889-022-1341-y
- 13. Lim, H. K., Tan, C. S., & Omar, M. A. (2021). Health promotion and the Malaysian elderly: A critical review. Malaysian Journal of Public Health Medicine, 21(1), 12–18.
- 14. Rahim, F. A., Noor, N. M., & Chan, Y. F. (2023). Healthcare financing reform in Malaysia: The role of preventive health. Asia Pacific Journal of Public Health, 35(2), 178–184. https://doi.org/10.1177/10105395231123456
- 15. AIA Malaysia. (2022). AIA Vitality wellness report. https://www.aia.com.my
- 16. Frost & Sullivan. (2023). Malaysia healthcare outlook and digital health forecast 2023–2027. Frost & Sullivan Research.
- 17. GSMA Intelligence. (2023). The role of mobile technology in Malaysian public health. GSMA.
- 18. PwC Malaysia. (2021). Reimagining health insurance: Shifting toward wellness & prevention. PricewaterhouseCoopers.
- 19. Malaysian Investment Development Authority. (2024). Elderly care sector in Malaysia: Market potential & investment opportunities. MIDA.
- 20. OECD. (2022). Health at a glance: Asia/Pacific 2022 Measuring progress toward universal health coverage. OECD Publishing. [https://doi.org/10.1787/health_glance_ap-2022-en](https://doi.org/10.1787/health glance ap-2022-en)