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KNOWLEDGE
GROUP



Longevity
Industry
Analytics

Lyme Disease Global Pandemia

Teaser, 2024

www.philanthropy.international/lyme

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Introduction

Longevity Industry Analytics and Deep Knowledge Group have released a new report titled “Global Lyme Disease Pandemia Overview 2023” which examines the intricate landscape of Lyme disease, shedding light on its global ramifications and industry intricacies.

From unraveling the significance of Lyme as a pervasive health challenge to exploring its interplay with Autism and Alzheimer's, we delve into the latest scientific insights, epidemiological data, and the profound impact on public health. The scrutiny extends to the Lyme industry, providing an overview of key players, stakeholder collaborations, and market trends.

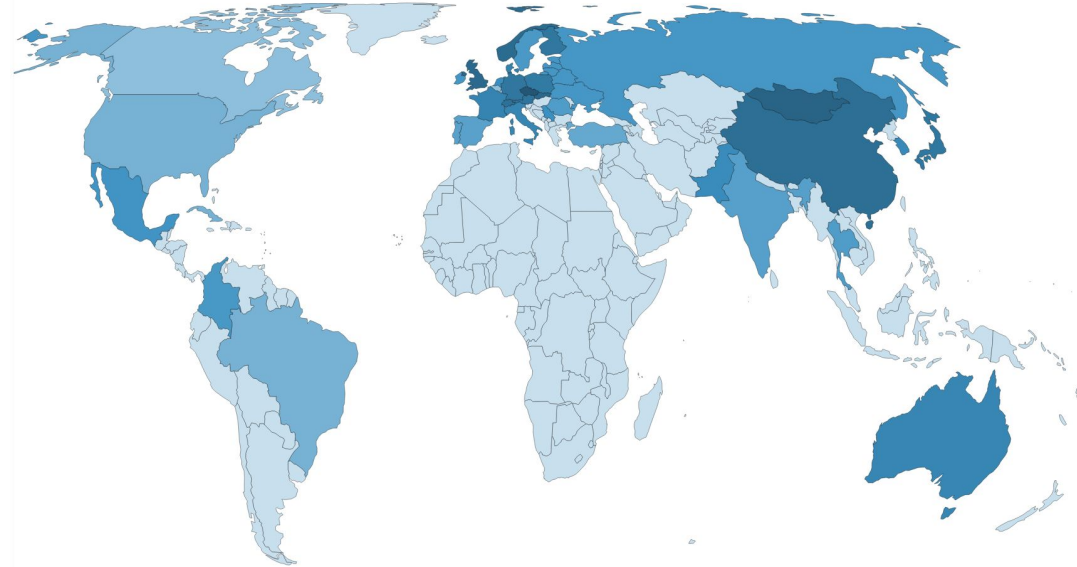
The report delves into the challenges and opportunities within Lyme diagnosis and treatment, foreseeing future regulatory considerations. Celebrity involvement, parliamentary initiatives, and the imperative for collaborative efforts are essential components of this comprehensive exploration.

Executive Summary

Lyme disease, or Lyme, is a persistent condition marked by elevated **Borrelia burgdorferi bacteria** levels in the bloodstream, resulting in prolonged symptoms. Global shifts in outdoor activities, urbanization, and climate changes have transformed patterns of Lyme disease transmission. Traditional outdoor lifestyles have given way to modern routines, increasing exposure to ticks carrying Lyme-causing bacteria.

Tick-borne Lyme disease is becoming more common, and a study suggests that **more than 1 in 7 people worldwide** are currently infected or have previously had this illness. Understanding factors influencing Lyme prevalence is crucial for effective prevention, diagnosis, and management. Ongoing research, public awareness, and collaboration play pivotal roles in mitigating Lyme disease Global Health Impact.

Prevalence of Lyme Disease



Link Between Lyme, Autism and Alzheimer

Understanding Age-Specific and Groups Impact

Adults

Neurological Implications, Inflammatory Response

Kids

Maternal Transmission, Inflammatory Impact

Seniors

Age-Related Vulnerabilities, Inflammatory Response

Animals

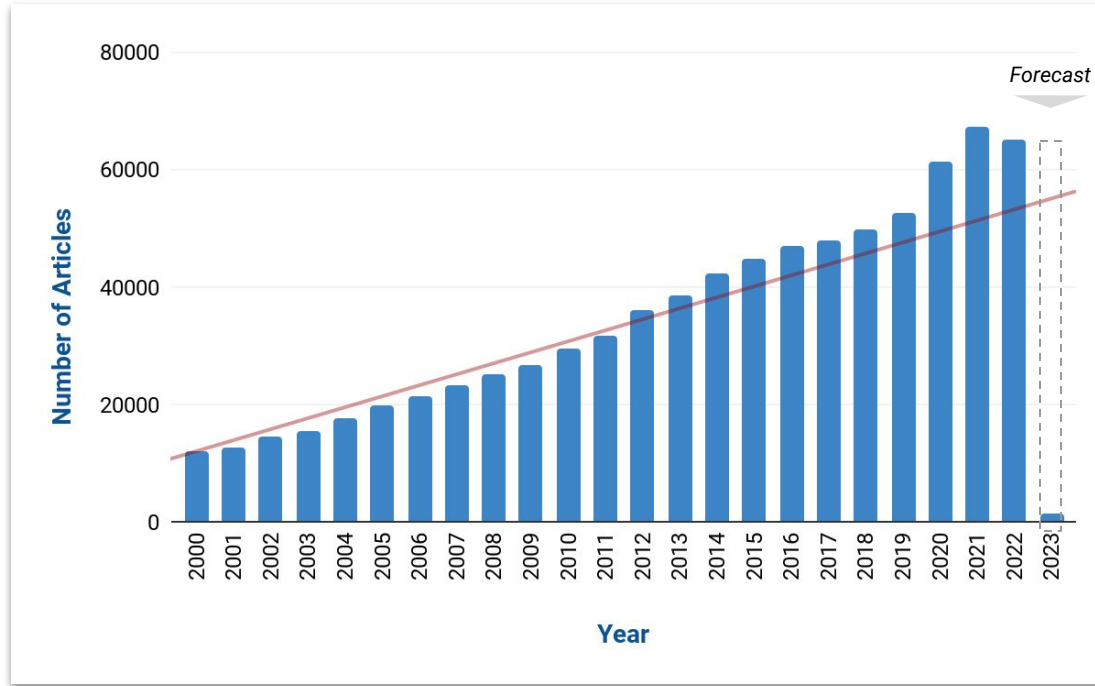
Neurological Concerns, Inflammatory Response

Lyme is a chronic health condition that manifests unique neurological implications across age groups, with notable associations to **Autism in children** and **Alzheimer's in seniors**. Scientific endeavors aim to unravel the molecular pathways connecting Lyme disease to the development of Autism in children and Alzheimer's in seniors. Research delves into the complexities of how Lyme-induced factors may influence neurodevelopment in children and contribute to neurodegeneration in seniors.

Case studies provide insights into the intricacies of the link, offering valuable **perspectives on diagnosis, prevention, and potential interventions**. As we navigate through this report, we will explore the age-specific nuances of the link between Lyme disease and neurological conditions, shedding light on the complexities and implications for different age groups.

Significance of Lyme Pandemic as a Global Health Challenge

Number of articles on Lyme Disease, 2000-2023



More than 14% of the world's population probably has, or has had, tick-borne Lyme disease, as indicated by the presence of antibodies in the blood. Lyme disease affects millions worldwide, posing a significant health challenge.

Escalating incidence demands heightened awareness and strategic interventions. Lyme Disease diverse manifestations strain healthcare systems globally.

Links to Autism and Alzheimer's amplify the challenge. Global collaboration needed for effective prevention and management.

Key Global Findings



More than 14%
Population are living
with Lyme



**Every 7th person
with Lyme**
But almost 2/3 cases are
not diagnosed



Healthcare burden
Lyme provokes multiple
health issues



> 1.1 billion people
Global impact on all age
groups

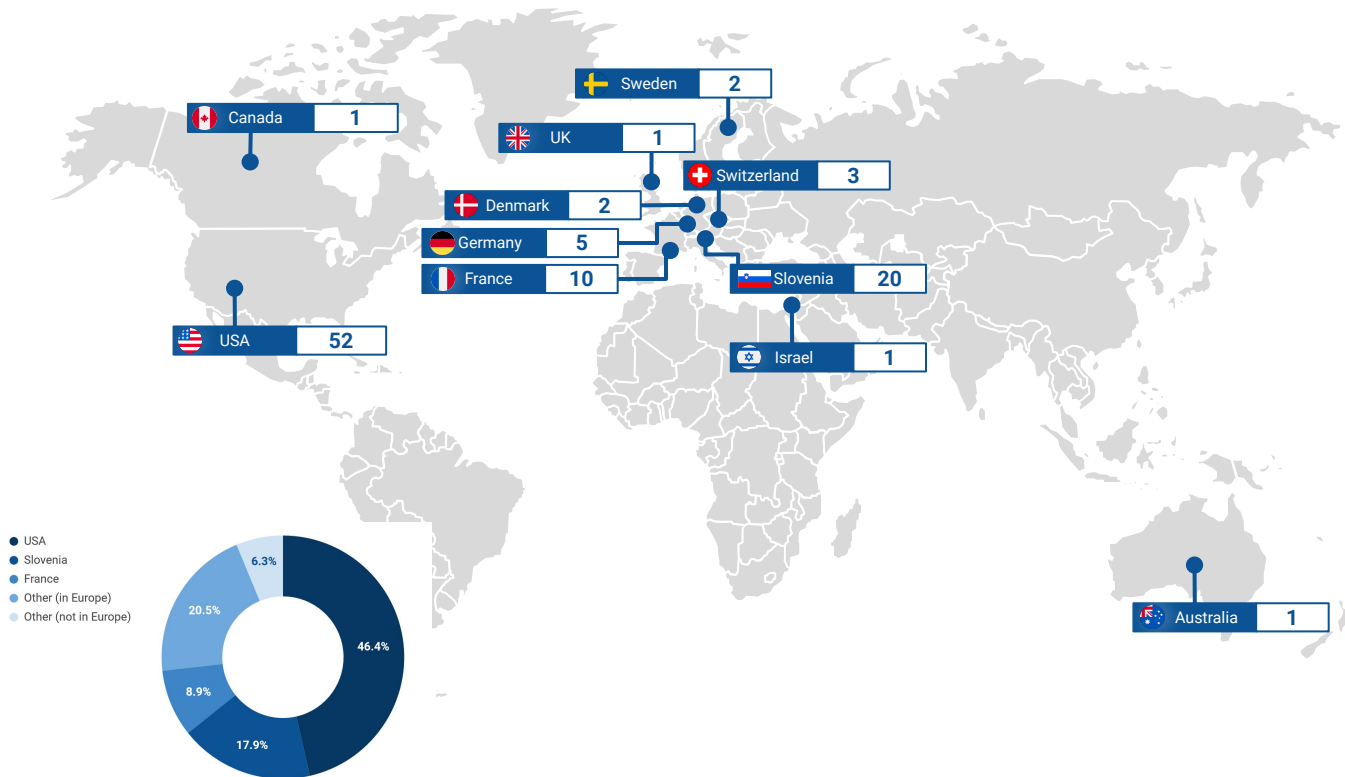


> US\$ 1.3 billion
of healthcare
expenditure for Lyme
treatment

As of 2023, the global population has reached 8.14 billion. Approximately 14% of this population, which equates to 1.1376 billion people, is estimated to be affected by Lyme disease. This means that, statistically, roughly one in every seven individuals is grappling with Lyme. However, unofficial statistics suggest that the actual number could be three times higher, emphasizing the pervasive nature of Lyme disease and its classification as a global pandemic. All of these despite the fact, that there is more than \$1.3B of healthcare expenditure for Lyme treatment.

Geography of Clinical Trials, 2023

Countries by Number of Clinical Trials for Lyme Disease



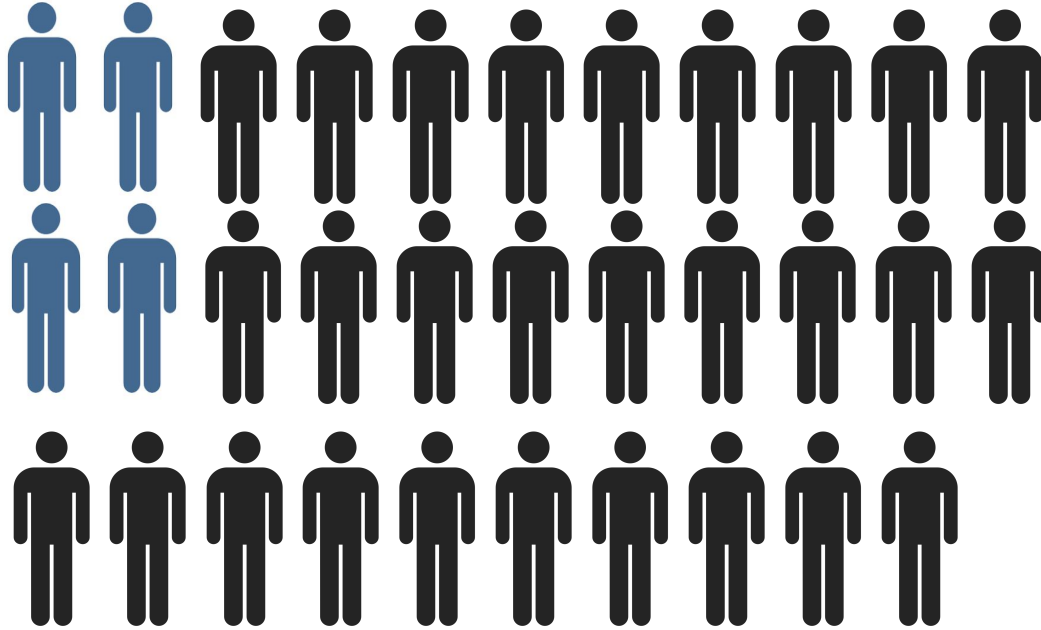
105 clinical trials were conducted on Lyme Disease in the world.

USA is the biggest research hub for Lyme Disease research, containing more than **46%** of clinical trials.

More than **17%** of clinical trials are launched in Slovenia. About **9%** are launched in France. Together, European countries make more than **47%** of clinical trials.

Other world regions together account for less than **7%** of clinical trials.

Billionaires affected by Lyme disease



360+
*Billionaires
have Lyme disease*

Over **360+** billionaires are affected by Lyme disease. This significant figure underscores the widespread impact of the disease across various demographics, highlighting the need for continued awareness, research, and support for those affected in high-profile spheres.

Involvement of Celebrities in Lyme Awareness



Karen Allen



**Christy Turlington
Burns**



Amy Tan



Debbie Gibson



Alec Baldwin



Ben Stiller



Daryl Hall



Jordan Fisher



Marla Maples



Lauren Lovejoy



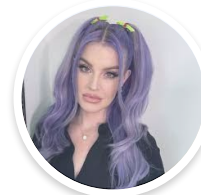
Ally Sheedy



Rebecca Wells



Dana Parish



Kelly Osbourne



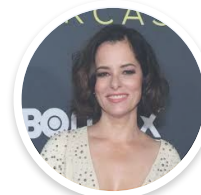
Jamie-Lynn Sigler



Daryl Hannah



Ramona Singer



Parker Posey



Ashley Olsen



Debbie Harry



Kathleen Hanna



Scott Jurek



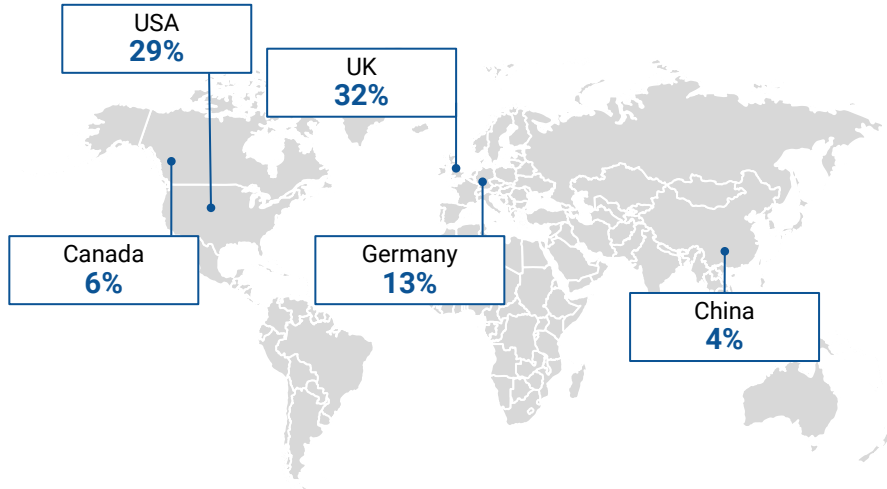
Katina Makris



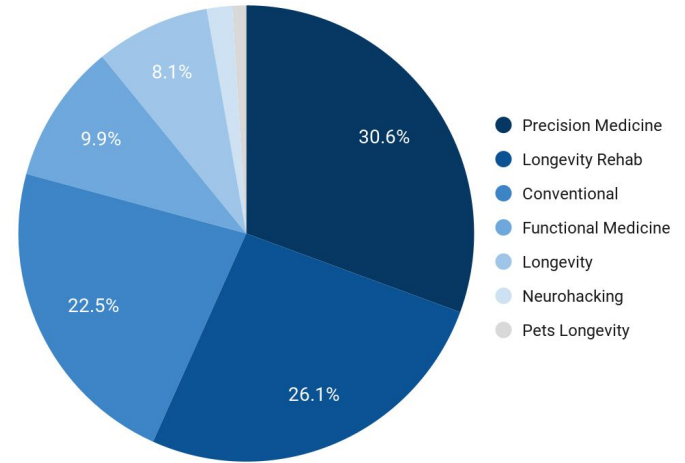
Bella Hadid

Market at a Glance: Lyme Clinics

Distribution of Clinics by Country, %



Distribution of Lyme Disease Clinics by Type, %



The Global Lyme Disease Diagnostic, Treatment, and Prevention Market is segmented here based on countries and categories.

The **majority** of the best clinics that offer services against Lyme are located in the **UK** and the **USA**, the home of **32%** and **29%** of the whole range of companies analysed in the report. The USA is distantly followed by the Germany with **13%**, Canada with **6%**, and other countries, which together host remaining **20%** of the world's Lyme Disease clinics.

Lyme Industry Framework

Treatment

Lyme Treatment	Gene and Cell Therapy
Small Molecules	Drug Delivery Systems
Supplements	Formulations (drugs)
Probiotics	Natural Products

Clinics

Lyme Screening and Management	Clinical Trials Management
Nursing	Rehabilitation
Patient Monitoring and Management	EHR
Residential, Home and Elder Care	Assisted living

MedTech

Medical Supplies and Equipment, Raw Material	Devices (diagnostics, therapy)
Medical Suppliers	Diagnostics, Tests and Labs
E-Pharmacy	Medical Devices (Artificial Organs)
Imaging	Organ Engineering

Biologics (RNA, vaccines, AB)

Genomics and Genetics

AI for Drug Discovery

CRO

AI for Diagnostics (Omics, Imaging)

Physiological, Systemic and Digital Biomarkers

Scientific innovation

Insurance

Contract Manufacturing

Clinical Data Storage and Management

Education platforms

Media

Non-Profits

Civil services

Adults in Lyme

Healthy Lifestyle

Autism in Lyme

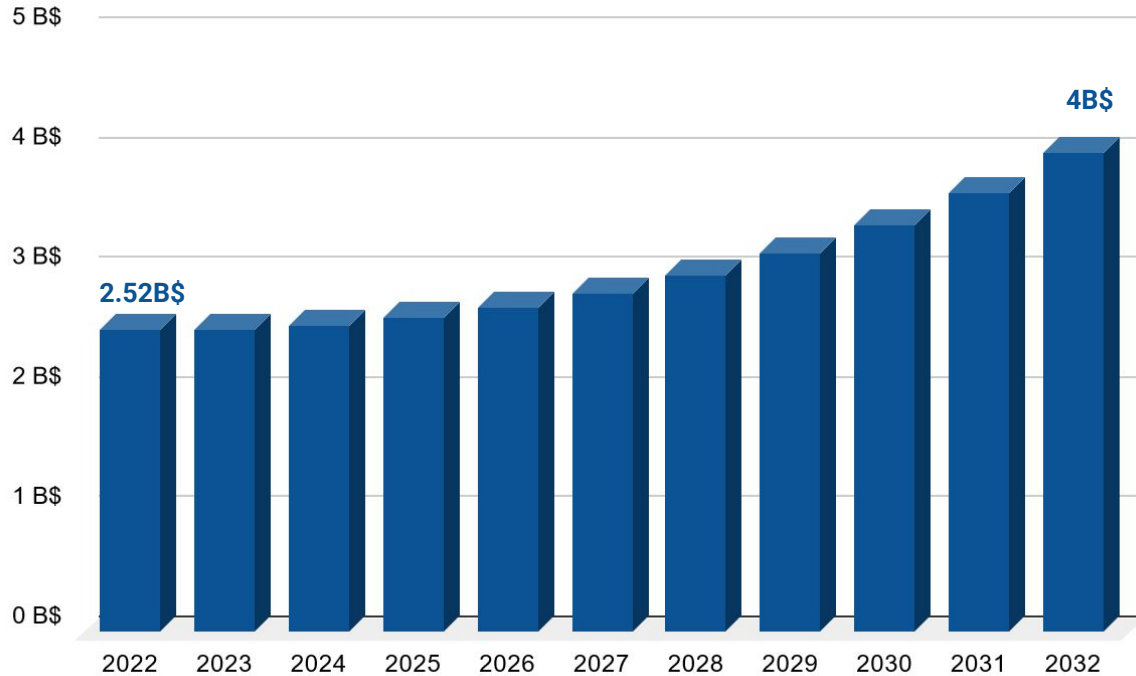
Alzheimer in Lyme

Pets in Lyme

Skin and Connective Tissues

Prevention and Care

Lyme Disease Diagnostic Market Size



The Compound Annual Growth Rate (CAGR) for this period is **6.5%**. This growth is attributed to various factors such as increased awareness and reporting of Lyme disease cases, advancements in diagnostic technologies, and continuous investment in research and development for more accurate and efficient diagnostic tools for Lyme disease detection.

The market is projected to expand steadily **from USD 2.52 Billion in 2022 to USD 4 Billion in 2032**, highlighting the increasing demand for advanced diagnostic tools in detecting Lyme disease, which would lead to earlier diagnosis and better management of the condition.

Prospective Treatments for Lyme Disease

Hyperbaric Chamber



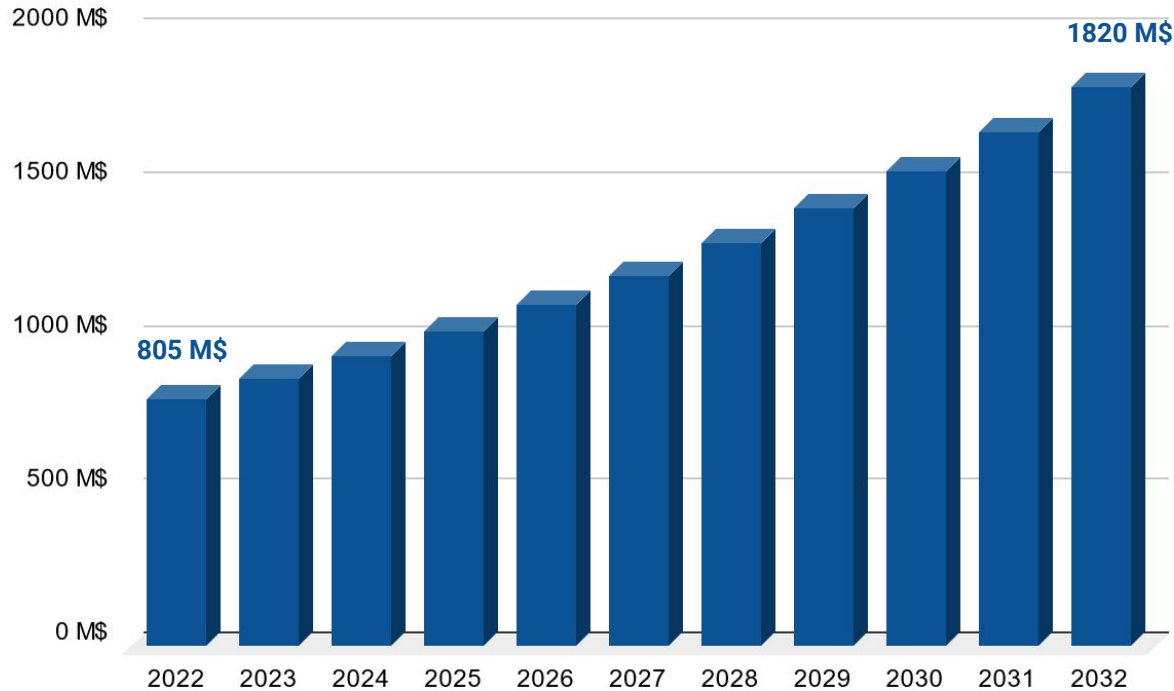
Intermittent hypoxic-hyperoxic treatment and **hyperbaric chambers** are emerging as potential adjunct therapies. These treatments, known for their benefits in chronic diseases and aging, exhibit promise in enhancing immunity and improving overall health. In later stages, intravenous antibiotics may be necessary. In some cases, people with persistent symptoms after treatment, a condition called post-treatment Lyme disease syndrome, may require additional therapy or supportive care. Pain relievers and anti-inflammatory drugs may also be used to manage symptoms.

Stem Cells Treatments



Lyme disease management, should be placing a focal point on comprehensive treatments and weaving a comprehensive and evolving narrative. Moving beyond conventional antibiotics, the treatment need to encompass diverse modalities, including herbal remedies, mind-body interventions, **stem cell therapy**, **hypoxia therapy**, and **hyperbaric chambers** and so on. **This holistic lens emphasizes** the intricate interconnectedness of mental and physical well-being, recognizing the nuanced nature of Lyme disease care.

Lyme Disease Treatment Market Size



The global Lyme disease treatment market is expected to witness substantial growth, climbing from **USD 805.00 Million in 2022** to **USD 1,820.09 Million in 2032**, representing a robust Compound Annual Growth Rate (CAGR) of approximately **8.5%**. This growth is driven by rising reported cases of Lyme disease, increased investments in healthcare by major companies, advancements in healthcare facilities, and the development of more accurate diagnostic methods like Spectroscopic testing, particularly Raman spectroscopy testing. These factors collectively contribute to the steady expansion of the market, indicating a growing demand for enhanced treatment and diagnostics for Lyme disease.

Conclusions

- The impact of the Lyme pandemic on public health is a multifaceted challenge that demands proactive measures. From increased disease burden to diagnostic and treatment complexities, addressing these issues requires a concerted effort from healthcare professionals, policymakers, and the public alike. By fostering awareness, enhancing research, and fortifying healthcare systems, we can collectively mitigate the adverse effects of Lyme disease on global public health.
- In the realm of Lyme disease, complexities and challenges are emerging, echoing the dynamic landscape observed in other areas of healthcare. Unlike the well-defined monopolies dominating certain markets, Lyme disease involves a diverse range of stakeholders, including pharmaceutical companies, diagnostic and treatment innovators.
- As we navigate the intricacies of Lyme disease, considering its links to persistent inflammation, compromised immune function, and potential associations with age-related diseases, the focus must be on fostering innovation and research. Unlike concentrated dominance seen in some sectors, the Lyme landscape encourages diverse entities to contribute to diagnostics, treatments, and preventive strategies.
- While there may not be giants monopolizing the Lyme market, as observed in certain industries, the collective efforts of various players—pharmaceutical companies, researchers, and healthcare providers—become the driving force.

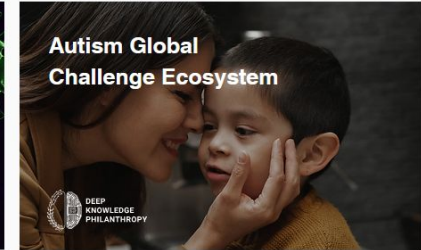
Global Health Challenges 2024

Visit Website 

Step into a realm where innovation meets humanity – the **Global Health Challenges Concept by DKG**. In this transformative space, we are not just confronting health challenges; we are redefining the very approach to global well-being. **DKG Concept is a sintosis of strategic vision, cutting-edge research, and collaborative determination.**

As we delve into the intricacies of Lyme Pandemia, Autism, Alzheimer's, Diabetes, Bad Bugs, Forever Toxins, and others challenges our focus is clear. We seek not just advanced solutions, but a paradigm shift in how we perceive, approach, and overcome global health challenges.

Join us on this visionary journey, where each challenge is a canvas for innovation, and each breakthrough is a testament to our shared commitment to a healthier world. **This Concept transforms challenges into opportunities and envisions a global landscape of robust health for generations to come.** The Global Health Challenges Concept – where strategic innovation paves the way for a healthier and more resilient world.



Longevity Industry Analytics: Value Proposition

Visit Website



Longevity Industry Analytics is the only specialised analytics agency that focuses exclusively on the emerging Longevity Industry. We are recognised internationally as the premier analytics agency for advanced data analysis, industry reports, and next-generation infographics on ageing and Longevity.

Longevity Industry Analytics focuses on three key activities:

Providing Commercial Services

Conducting customised case studies, research, and analytics for (organisational) use, tailored to the precise needs of specific clients.

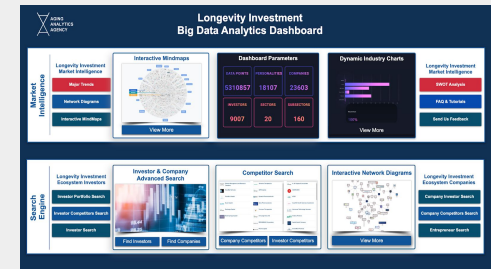
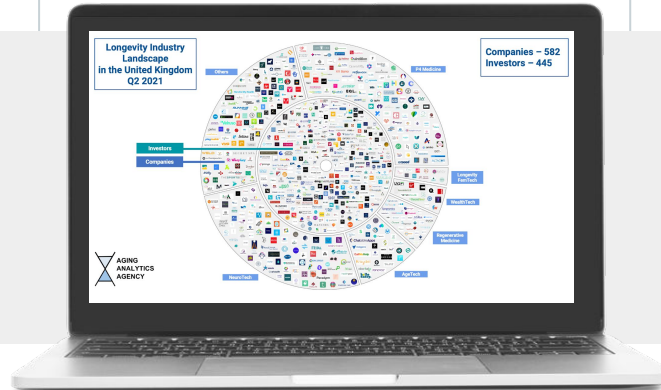
Preparing Open-Access Reports

Producing regular open-access and proprietary analytical case studies on the emerging topics and trends in the Longevity Industry.

Building Big Data Analytics Platforms

Offering customised analysis using specialised interactive industry and technology databases, IT-platforms, and Big Data Analytics Dashboards.

Global Medical Clinics
Industry Big Analytical System
Framework
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