



ASIAN PHYTOCEUTICALS
PUBLIC COMPANY LIMITED

Opportunity Day Q2/2567

2 ก.ย. 2567



ความคืบหน้าในการจำหน่าย ผลิตภัณฑ์ APCO



ครั้งแรกในประวัติศาสตร์! มิติใหม่ด้านการค้า ไทย - ไนจีเรีย
Opening a New Dimension in Trade
Thailand and Nigeria



ByeByeHIV

Sign Ceremony Exclusive Distributor Agreement
June

ด้านการค้า ไทย - ไนจีเรีย
Opening a New Dimension in Trade
Thailand and Nigeria
product
Exclusive Distributor Agreement
2024
AMAZON
Amazon Associates



กรมการบริหาร บริษัท เอเซีย ฟายเคียคอสส์ จำกัด (มหาชน)



ประเทศไนจีเรียและประเทศในแอฟริกา

- อยู่ระหว่างการตรวจสอบเอกสารตามขั้นตอนของไนจีเรีย
- มีการพูดคุยถึงความคืบหน้าทุกสัปดาห์ คาดว่าจะได้ส่งสินค้าภายในปีนี้
- ประเทศรอบๆ ไนจีเรียให้ความสนใจเป็นอย่างมาก คาดว่าจะส่งออกได้ รวม 1 ล้านขวดภายใน 1 ปี
- มีการปรับสูตรให้สามารถใช้ดูแลมะเร็งได้ ทำให้ตลาดกว้างมากขึ้น
- จากการระบาดของฝิ่นในแอฟริกา ทำให้ผลิตภัณฑ์ได้รับความนิยมมากขึ้น



ก่อนใช้ ByeByeHIV

หลังใช้ ByeByeHIV 2 สัปดาห์



ผิวหนังอักเสบจากการติดเชื้อ

ประเทศจีน

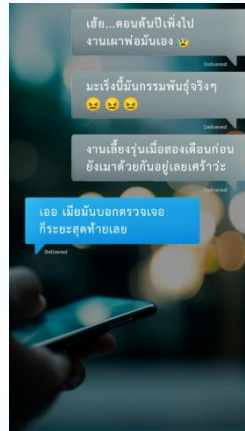
- พันธมิตรจีนจะนำนักท่องเที่ยวเข้าแข่งขันในเกมส์ Texas hold 'em ซึ่งได้รับอนุญาตจากหน่วยงานของไทย เป็นส่วนหนึ่งของการส่งเสริมการท่องเที่ยวและสนับสนุนกิจกรรมโดย Thailand Convention and Exhibition Bureau (TCEB)
- คาดว่าจะมีผู้เข้าร่วมการแข่งขันและผู้ติดตาม เดือนละ 2,000-3,000 คน ตลอดปีรวม 30,000 คน

ประเทศจีน

- ผู้จัดการแข่งขันจะมอบนวัตกรรม “วัฒนชีวา” 1 ชุดให้กับผู้เข้าร่วมการแข่งขัน ส่วนผู้ติดตามสามารถซื้อผลิตภัณฑ์ APCO ได้ตามความต้องการเพิ่มเติม
- ประมาณการรายได้อยู่ที่ 25 ล้านบาท/เดือน
- เริ่มการแข่งขันในเดือน ตุลาคม 2567

ประเทศไทย

- เปิดตัวสินค้าใหม่ **Cancino** ภายใต้ Slogan
มังคุดเสริมฤทธิ์ “กิน·กัน·มะ” (กันมะเร็ง)





มังคุดเสริมฤทธิ์

กิน • กิน • มะ

TM

ใช้ 3 แคปซูล/วัน
เพื่อกันมะเร็งได้ต่อเนื่อง

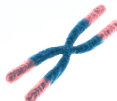
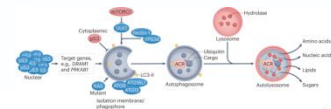


สูตรนี้มีประสิทธิภาพ
ในการเพิ่มความยาวเทโลเมอร์
จึงทำให้ยืนยาวและชะลอวัยได้ด้วย



มั่งคุดเสริมฤทธิ์ สร้างพลังธรรมชาติต้านเนื้อร้ายโดยการป้องกัน

1. เพิ่มภูมิคุ้มกันจาก **CD4 (Th1 และ Th17)**
และ **CD8 (killer T cell)** ที่เพิ่มขึ้น
2. กระตุ้น **Autophagy** ทำให้เซลล์ที่กำลังกลายพันธุ์เป็นเนื้อร้าย
recycle องค์ประกอบภายในเซลล์ และนำไปใช้ในการสร้าง
เซลล์ใหม่ที่แข็งแรง
3. กระตุ้นการซ่อมสร้าง **Telomere** ไม่ให้สั้นเร็วผิดปกติ
จนกลายเป็นเซลล์เนื้อร้าย

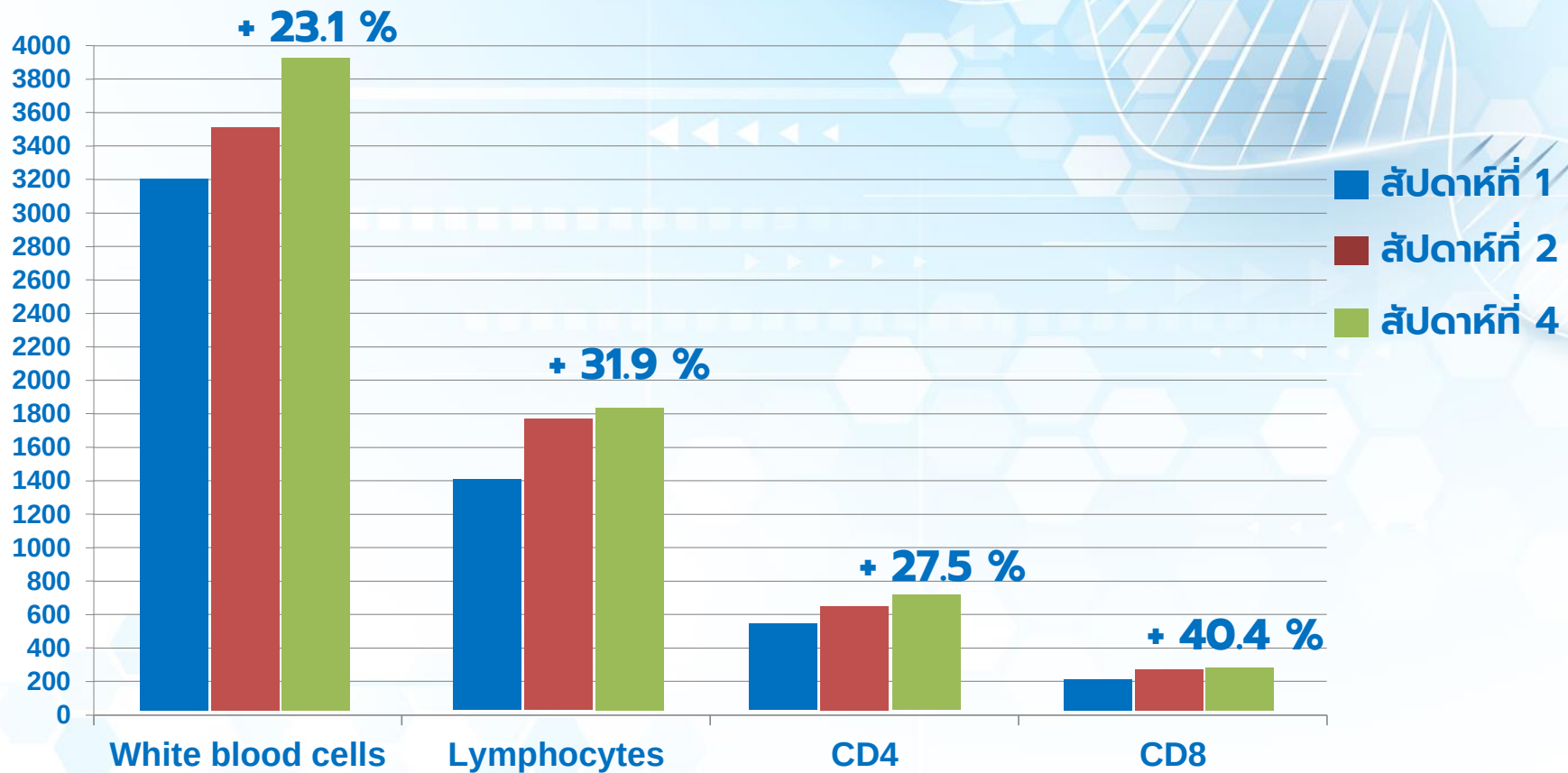


เพียง วันละครึ่ง (3 แคปซูล) ลดความเสี่ยงการเกิดเนื้อร้าย

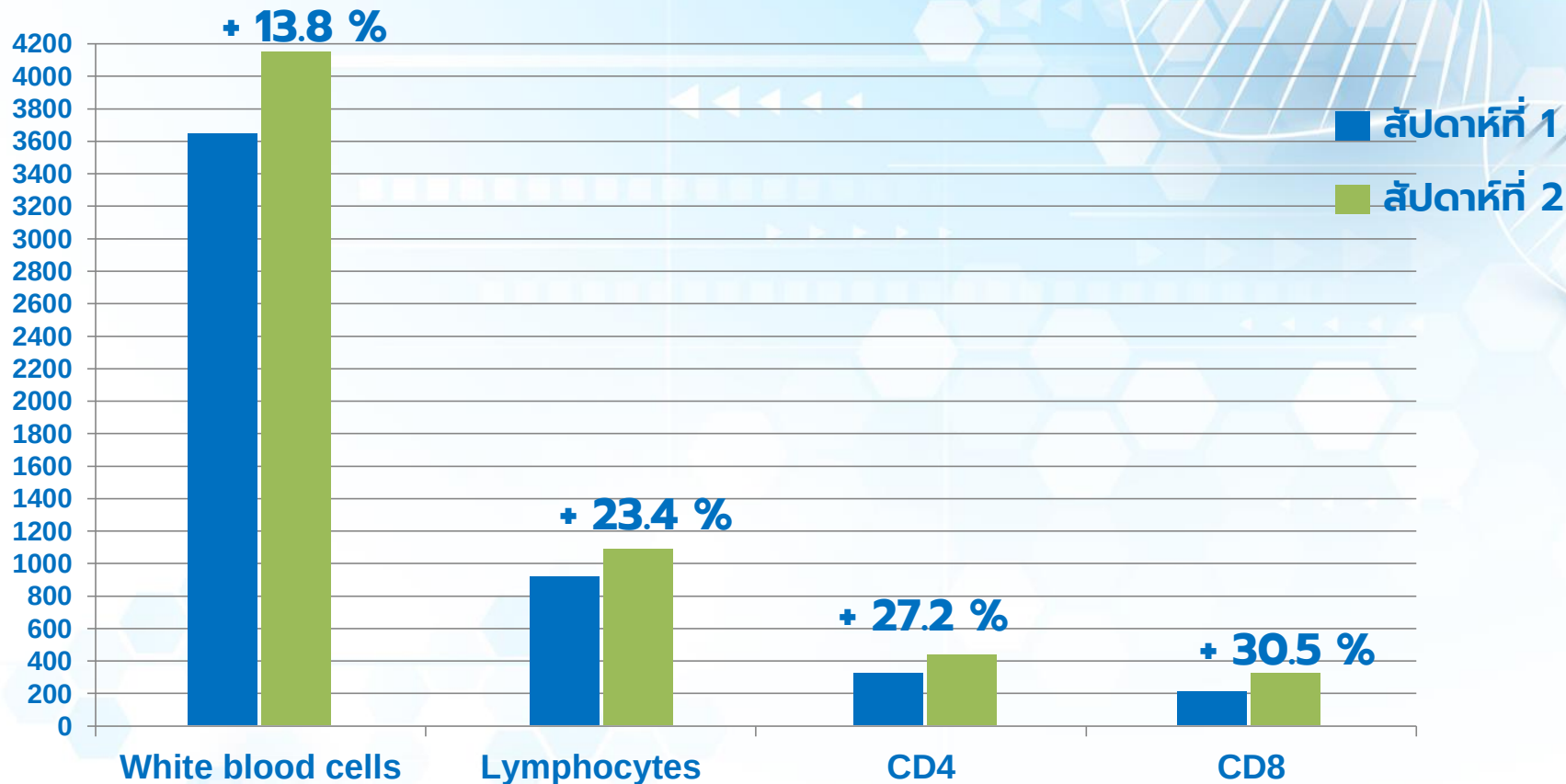
ย่อนวัย ชะลอวัย ลดโอกาสของการเกิด NCDs



ผลทดสอบในผู้ที่มีภูมิคุ้มกันต่ำ หลังใช้มังคุดเสริมฤทธิ์ 3 แคปซูล/วัน



ผลทดสอบในผู้ที่มีภูมิคุ้มกันต่ำ หลังใช้มังคุดเสริมฤทธิ์ 3 แคปซูล/วัน



ผลการใช้ Cancino 3 แคปซูล/วัน เป็นเวลา 2 สัปดาห์ ในผู้มี CD4/CD8 ต่ำกว่าเกณฑ์

	สัปดาห์ที่ 0	สัปดาห์ที่ 2	เพิ่มขึ้น	เพิ่มขึ้น %
WBC, cells/ul	5,547	5,969	422	7.6%
Lymphocyte, cells/ul	1,660	1,973	313	18.8%
CD4, cells/ul	704	809	104	14.9%
CD8, cells/ul	276	322	46	16.8%
CD4 : CD8	2.54	2.52		
Telomere, bp	6,420	6,520	82	ย่นอายุ 1.2 ปี

**ผู้ที่เสี่ยงต่อการเป็นมะเร็ง
ภูมิคุ้มกันเพิ่มขึ้นอย่างมีนัยสำคัญทุกราย
ลดปัญหาการเป็นมะเร็งได้ชัดเจน**



VDO ก็นั่นแหละ (1)
2 คนเป็นมะเร็ง 1 คน



VDO กันกันมะ (2) คำใช้อย่างง่ายเพื่อสุขภาพ



VDO កំណត់ (3) Drop Ship





มังคุดเสริมฤทธิ์



กิน • กัน • มะ™



มังคุดเสริมฤทธิ์

ลดความเสี่ยงเป็นเนื้อร้าย
ด้วยพลังธรรมชาติ



มังคุดเสริมฤทธิ์ ลดความเสี่ยงการเป็นเนื้อร้าย
ด้วยพลังธรรมชาติ

Full

ประเทศไทย

- Cansino (กิน·กัน·มะ) มีเป้าหมายให้เป็น Mass Products มีค่าใช้จ่ายวันละ 45-78 บาท
- ทำตลาดใน Online เป็นหลัก
- เปิดให้มีตัวแทนจำหน่ายผ่าน DropShip
- จากวันเริ่มโครงการจนถึงสิ้นปี คาดว่าจะมีรายได้เพิ่ม 20 ล้านบาท
- จะมีรายได้ในปีถัดไป 100 ล้านบาท
- ผลิตภัณฑ์ Mylife T สำหรับผู้ที่ต้องการยื้อนวัยชะลอวัยทุกคน ทุกเพศทุกวัย มีค่าใช้จ่ายวันละ 45-78 บาท
- ผลิตภัณฑ์ป้องกัน Alzheimer จะออกวางจำหน่ายก่อนสิ้นปี 67

การตีพิมพ์ประสิทธิภาพ ของนวัตกรรมในวารสารวิชาการ





ผลิตภัณฑ์สำหรับ

ผู้มีปัญหา

- มะเร็ง
- ซีสต์ เนื้องอกที่มดลูก รุน้ำในรังไข่
- แพ้อากาศ
- ปัญหาการติดเชื้อต่างๆ เช่น รา แบคทีเรีย ไวรัส, Covid-19, Mpox, Dengue fever

ประสิทธิภาพในการจัดการกับมะเร็งของมังคุดเสริมฤทธิ์ พิมพ์เผยแพร่ในวารสารการแพทยนานาชาติ

Journal of Clinical Immunology and Research ISSN 2639-8494, <https://www.scivisionpub.com/abstract-display.php?id=3355>

Cancer Patient Life Quality Improvement by T-Cell Stimulated with Five Edible plants.



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Clinical Immunology & Research

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ISSN: 2639-8494

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Abstract

Cancer Patient Life Quality Improvement by T-Cell Stimulation with Five Edible Plants

Authors: Pichaet Wiriyachitra, Preeya Leelahagul, Sirithip Wiriyachitra, Ampai Panthong, Sakda Sreesangkom.

MyLife/MyLife100® is a dietary supplement derived from five edible plants: mangosteen aril, pennywort leaves, guava fruit, black sesame seeds, and soy protein. This supplement has been used for over a decade to support thousands of cancer patients in Thailand, with marked improvements in physical conditions. Through rigorous testing, the formula has consistently shown efficacy in boosting immunity, as evidenced by significant increases in CD4 and CD8 (killer T cell) levels observed among volunteers. Moreover, we found that this effectiveness extends beyond merely strengthening immunity. Volunteers experienced not only elevated CD4 and CD8 counts but also a lengthening of their telomeres, indicating a holistic enhancement of their immune response. This formula specifically targets cancer cells with minimal side effects and also improves the overall health condition of patients, with effectiveness increasing with the dosage administered.

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Research Article

ISSN 2639-8496

Clinical Immunology & Research

Cancer Patient Life Quality Improvement by T-Cell Stimulation with Five Edible Plants

Pichaet Wiriyachitra^{1*}, Preeya Leelahagul², Sirithip Wiriyachitra³, Ampai Panthong⁴ and Sakda Sreesangkom⁵

¹Asian Phytochemicals Public Company Limited, Thailand.

²Chiang Mai University, Thailand.

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Wiriyachitra P, Asian Phytochemicals Public Company Limited,
Thailand. Tel: +662 646 4882.

Received: 10 Apr 2024; Accepted: 18 May 2024; Published: 29 May 2024

Citation: Wiriyachitra P, Leelahagul P, Wiriyachitra S, et al. Cancer Patient Life Quality Improvement by T-Cell Stimulation with Five Edible Plants. Clin Immunol Res. 2024;8(1):1-3.

ABSTRACT

MyLife/MyLife100® is a dietary supplement derived from five edible plants: mangosteen aril, pennywort leaves, guava fruit, black sesame seeds, and soy protein. This supplement has been used for over a decade to support cancer patients in Thailand, with marked improvements observed in thousands of patients' physical conditions. Through rigorous testing, the formula has consistently shown efficacy in boosting immunity, as evidenced by significant increases in CD4 and CD8 (killer T cell) levels observed among volunteers. Moreover, we found that the formula's effectiveness extends beyond merely strengthening immunity. Volunteers experienced not only elevated CD4 and CD8 counts but also a lengthening of their telomeres, indicating a holistic enhancement of their immune response. This formula specifically targets cancer cells with minimal side effects and also improves the overall health condition of patients, with effectiveness increasing with the dosage administered.

Keywords

Cancer patients, Five edible plants, MyLife/MyLife100®, T cells, CD4, CD8, Killer T cell, Telomere.

We believe this is the safest approach to treating cancer. This is a formula that is safe and free from side effects. It functions as targeted immunotherapy because CD8 (killer T cell) specifically targets cancer cells.

Background

Contemporary cancer treatments, such as chemotherapy and radiation therapy, often induce severe side effects, contributing to the considerable suffering experienced by patients. The adverse consequences associated with these treatments undermine their efficacy, leading to a search for alternatives with improved tolerability and therapeutic outcomes. Many cancer patients in Thailand have, therefore, turned to immunotherapy based on MyLife/MyLife100® as a supplement or alternative to conventional cancer treatments.

The increase in CD4 and CD8 counts is an important point because these T cells play crucial roles they specifically target and destroy cancer cells. Therefore, taking MyLife/MyLife100® can be described as a safe and effective plant-based targeted immunotherapy. While other therapies typically come with numerous side effects, impacting all cells, MyLife/MyLife100® specifically targets problematic cells that exhibit certain antigens on their cell membranes, allowing for precise targeting.

The reason cancer patients have experienced improved quality of life over the past 10 years from taking MyLife/MyLife100® dietary supplement is due to an increase in T cell counts. The higher the dosage one takes of MyLife/MyLife100®, the greater the increase in T cells, and thus the better the improvement in health condition.

Based on the data, we can conclude that our formula has allowed cancer patients to enjoy a prolonged life with a better quality of life, free from side effects. The scientific basis for this improvement is the increase in CD4 and CD8.

In our study, as depicted below, we have found that the effectiveness



กลุ่มสุขภาพ (เพิ่มภูมิคุ้มกัน)



ผลิตภัณฑ์สำหรับ

- ผู้มีปัญห HIV

ByeByeHIV บทความแห่งชาติไทย สร้างประวัติศาสตร์การรักษา HIV เป็นครั้งแรกของโลก ตั้งแต่การพบเชื้อเมื่อ 40 ปีที่แล้ว

พิมพ์เผยแพร่ใน Journal of Clinical Immunology and Research
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SCIVISION
PUBLISHERS

Clinical Immunology & Research

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Abstract

ByeByeHIV with Thai Innovation

Authors: Pichaet Wiriyachitra, Sirithip Wiriyachitra,
Siriporn Wonghiranyingyot, Ampai Panthong,
Ruanjahn, Souwalak Phongpaichit, Wilawan
Mahabusarakam.

Review Article

ISSN 2639-8494

Clinical Immunology & Research

ByeByeHIV with Thai Innovation

Pichaet Wiriyachitra^{1*}, Sirithip Wiriyachitra², Siriporn Wonghiranyingyot³, Ampai Panthong⁴,
Ruanjahn⁵, Souwalak Phongpaichit⁶ and Wilawan Mahabusarakam⁷

¹Asian Phytochemicals Public Company Limited, Thailand.

²Chiang Mai University, Thailand.

³Borommanont College of Nursing, Chiang Mai Thailand.

⁴Prince of Songkhla University, Thailand.

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Tel: 1662-646-4882.

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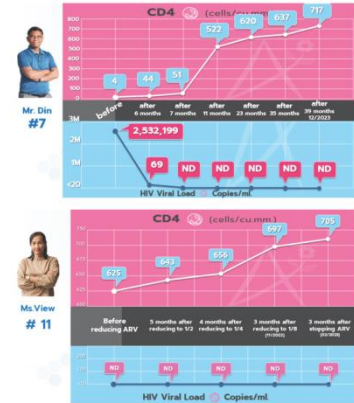
Citation: Wiriyachitra P, Wiriyachitra S, et al. ByeByeHIV with Thai Innovation. Clin Immunol Res. 2024; 8(1): 1-7.

ABSTRACT

ByeByeHIV[®] is defined as the condition in which HIV/AIDS-infected individuals can reduce their HIV load to undetectable levels without the consumption of antiretroviral drugs and enjoy healthy living. It also refers to the condition where HIV-infected individuals who have consumed antiretroviral drugs in the treatment but can no longer tolerate the drugs' side effects, can stop taking the drugs and enjoy living a healthy life with undetectable HIV. ByeByeHIV[®] innovation is composed of synergistic extracts from 3 types of edible plants, namely mangosteen, black sesame, soybean, guava and Cordia alliodora. It has been proven effective in stimulating TH1 and TH17 cells, which boosts the potency of killer T cells to eliminate HIV-infected cells. It has also been proven to repair the damage caused by HIV and the side effects of antiretroviral drugs. The innovation has successfully helped over 6,000 HIV/AIDS-infected individuals increase their CD4 count, decrease viral load, and improve their quality of life. In 2014, the first HIV-infected person volunteered to take the innovation instead of antiretroviral drugs. His HIV load dropped to an undetectable level within 12 months and he remained in good health with undetectable HIV for the past 8 years. In 2022, the standard procedure to help HIV/AIDS-infected individuals achieve ByeByeHIV[®] was established. In November 2023, 24 HIV-infected individuals have achieved ByeByeHIV[®] without taking antiretroviral drugs; among them 6 have stopped taking ByeByeHIV[®] formula and still remain undetectable for HIV. 36 HIV/AIDS patients who had taken antiretroviral drugs for 3-30 years have been able to stop taking antiretroviral drugs and still enjoy good health, the first person in the group has been off antiretroviral drugs for 36 months; among them 3 have stopped taking ByeByeHIV[®] formula and still remain undetectable for HIV. The number of HIV/AIDS patients who have achieved ByeByeHIV[®] continues to increase in Thailand. We are now advocating this ByeByeHIV[®] innovation as the first safe and effective plant-based immunotherapy to benefit HIV/AIDS-infected individuals globally. In the presentation, there will be additional information on the mode of action of the innovation; the blood profiles both before and after and the time spent to achieve ByeByeHIV[®] of the 50 infected individuals.



Professor Pichaet Wiriyachitra is the CEO of Asian Phytochemicals Public Company Limited, a company listed in Stock Exchange of Thailand, to engage in research, development and commercialization of health products derived from natural extracts. Dr. Pichaet received the BSc(Hons) (Organic Chemistry) from University of Western Australia in 1976 and PhD (Organic Chemistry) from University of Tasmania in 1979. He was a NIH Post-doctoral Fellow at University of Connecticut, America in 1974 and a NSF Post-doctoral Fellow at University of Pennsylvania, America in 1976. His research interests in the Prince of Songkhla University and Chiang Mai University in Thailand include the development of bioactive immunity (BIM) products for autoimmune symptoms and immune-deficient symptoms.





APCO

กลุ่มสุขภาพ (ปรับภูมิคุ้มกันให้สมดุล)



ผู้มีปัญหา

- รูมาตอยด์ ข้อเข่าเสื่อม/อักเสบ
- SLE Parkinson's
- แผลในปาก หอบหืด กรดไหลย้อน
- แผลในกระเพาะ

ประสิทธิภาพในการดูแลรักษา Rheumatoid Arthritis ด้วยสารสกัดจากมังคุดเสริมฤทธิ์

พิมพ์เผยแพร่ใน Journal of Clinical Immunology and Research
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Abstract

Balancing Immunity with a Dietary Supplement Derived from Five Edible Plants for Management of Rheumatoid Arthritis

Authors: Sirithip Wiriyachitra, Pichaoet Wiriyachitra, Ampai Panthong.

The development of specific agents affecting T helper cell subpopulations has gained considerable attention in recent years, with natural products emerging as potential immune modulators for various diseases, including rheumatoid arthritis (RA). This study investigates the immunomodulatory effects of Arthrinox/BIM-A, a dietary supplement derived from five edible plants, namely black sesame, guava fruit, mangosteen aril, pennywort leaves, and soy protein, on the regulation of T helper cell subpopulations. Twelve healthy volunteers were divided into two groups, one receiving a placebo and the other taking Arthrinox/BIM-A capsules for 15 days. Blood samples were collected before and after the supplementation period, and peripheral blood mononuclear cells (PBMCs) were isolated and stimulated to assess cytokine production. In the present study, we demonstrated that Arthrinox/BIM-A can modulate the immune cell functions by reducing the production of several pro-inflammatory cytokines, including IL-2, IL-17 and TNF- α . Arthrinox/BIM-A is therefore suggested as the food supplement for balancing immunity in the management of RA patients.

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Research Article

ISSN 2639-8494

Clinical Immunology & Research

Balancing Immunity with a Dietary Supplement Derived from Five Edible Plants for Management of Rheumatoid Arthritis

Sirithip Wiriyachitra, Pichaoet Wiriyachitra*, Ampai Panthong

Correspondence: Wiriyachitra P. Ampai Panthong, Sirithip Wiriyachitra, Pichaoet Wiriyachitra, Ampai Panthong, Balancing Immunity with a Dietary Supplement Derived from Five Edible Plants for Management of Rheumatoid Arthritis. Clin Immunol Res. 2024; 1(1): 1-5.

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Citation: Sirithip Wiriyachitra, Pichaoet Wiriyachitra, Ampai Panthong, Balancing Immunity with a Dietary Supplement Derived from Five Edible Plants for Management of Rheumatoid Arthritis. Clin Immunol Res. 2024; 1(1): 1-5.

ABSTRACT

The development of specific agents affecting T helper cell subpopulations has gained considerable attention in recent years, with natural products emerging as potential immune modulators for various diseases, including rheumatoid arthritis (RA). This study investigates the immunomodulatory effects of Arthrinox/BIM-A, a dietary supplement derived from five edible plants, namely black sesame, guava fruit, mangosteen aril, pennywort leaves, and soy protein, on the regulation of T helper cell subpopulations. Twelve healthy volunteers were divided into two groups, one receiving a placebo and the other taking Arthrinox/BIM-A capsules for 15 days. Blood samples were collected before and after the supplementation period, and peripheral blood mononuclear cells (PBMCs) were isolated and stimulated to assess cytokine production.

In the present study, we demonstrated that Arthrinox/BIM-A can modulate the immune cell functions by reducing the production of several pro-inflammatory cytokines, including IL-2, IL-17 and TNF- α . Arthrinox/BIM-A is therefore suggested as the food supplement for balancing immunity in the management of RA patients.

Keywords

Balancing immunity, rheumatoid arthritis, Mangosteen, Arthrinox, BIM-A, Arthrinox/BIM-A, T helper cell subpopulations.

Introduction

During the last decades, the development of specific agents affecting T helper cell subpopulations, i.e. Th1, Th2, and Th17 differentiation, has drawn special attention. Many natural products have been reported as effective agents for balancing the immune response by regulating the differentiation of T helper cell subpopulations. These products have the potential to be immune modulators for the treatment of various diseases, including rheumatoid arthritis, chronic autoimmune diseases and arthritis.

In this study, we aim to study the immunomodulatory effects of Arthrinox/BIM-A, a dietary supplement consisting of five edible plants, namely black sesame, guava fruit, mangosteen aril, pennywort leaves and soy protein, on the regulation of T helper cell subpopulations. This study was designed to assess the potential of Arthrinox/BIM-A as a food supplement for balancing immunity in the management of RA patients.

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(3 ml, using heparin as an anticoagulant) were collected for the second time on day 15.

Study of the Effect of the Arthrinox/BIM-A Capsule on the Regulation of T Helper Cell Subpopulations: Peripheral blood mononuclear cells (PBMCs) were isolated from the collected blood using Ficoll (Cytospin gradient centrifugation). The PBMCs were then stimulated *in vitro* with or without anti-CD3 monoclonal antibodies (clone OKT3) and cultured for 24 hours at 37°C in a CD3 incubator. The cell culture supernatants were collected and centrifuged at 3000 rpm for 10 minutes. The cell-free supernatants were separated and stored at -50°C for determination of cytokines.

Results: The stimulation induces of various cytokines in subjects taking the Arthrinox/BIM-A capsule and placebo were calculated and compared. Normalization was performed using subjects taking the placebo. The percentage enhancement and reduction in subjects taking the Arthrinox/BIM-A capsule are shown in the figure below. The results indicate that Arthrinox/BIM-A significantly reduced the production of IL-2 and IL-17 and significantly reduced the production of TNF- α .

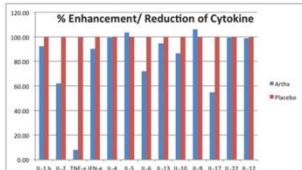
Tumor necrosis factor (TNF) is present in biologically significant levels in rheumatoid arthritis (RA) synovial tissue and fluid, and seems to mediate the onset of both inflammation and chronic disease. TNF triggers several of the most central and critical events in acute and chronic synovial inflammation, ultimately leading to the tissue destruction characteristic of RA, including the reduction of additional cytokine and chemokine, the expression of adhesion molecules and increased levels of chemokine (MIP-1 α and MIP-1 β) and the synthesis and release of proteases and MMPs.

IL-17A is a signature cytokine of Th17 cells and has pleiotropic effects on many cell types, including the upregulation of ICAM-1, IL-6, IL-8, IL-1, and several proinflammatory cytokines, including TNF- α , IL-1 β , IL-6, and IL-8. IL-17A is a key cytokine in the pathogenesis of RA, as the effects of IL-17 in driving osteoclastogenesis, leading to bone resorption [6]. Normalization of IL-17A in mice

prolongs life (27 by apocynin) (28) which is important in the release of cartilage and bone) and synovial macrophages. These data suggest that macrophages from patients with early RA hyperproduce TNF when activated. Taking all the data into consideration, one can reasonably conclude that TNF is one of the most important cytokines in the pathogenesis of RA [1].

RA is a chronic inflammatory disease characterized by hyperplasia of the synovium and an excess of inflammatory cells, leading to progressive destruction of the joints. In RA, several cytokines, e.g., interleukin (IL)-1, IL-6, IL-8, IL-17, IL-17, tumor necrosis factor- α (TNF- α), interferon- γ (IFN- γ), and granulocyte-macrophage colony-stimulating factor (GM-CSF), are involved in almost all aspects of articular inflammation and destruction. TNF- α has been considered a central cytokine in the pathogenesis of RA, as significant clinical and laboratory evidence has been obtained by TNF inhibitors [2]. It has been reported that treatment of RA patients with infliximab (anti-TNF- α) a chimeric antibody specific for human TNF- α , substantially reduced the signs and symptoms of the disease, levels of C-reactive protein (CRP) in the serum, and the erythrocyte sedimentation rate (ESR) [3]. This result was confirmed in other multicenter placebo-controlled trials, together with the observation that therapeutic efficacy was enhanced when infliximab was coadministered with methotrexate. This led eventually to TNF-inhibitors as the drug for the treatment of RA [4,5].

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ผู้มีปัญหา

- เบาหวาน

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Abstract

Balancing Immunity with a Dietary Supplement Derived from Five Edible Plants for Management of Diabetes

Authors: Sirithip Wiriyachitra, Pichaet Wiriyachitra, Ampai Panthong

This study investigates the immunomodulatory effects of Diabenox/BIM-D, a dietary supplement derived from five edible plants, namely black sesame, guava fruit, mangosteen aril, pennywort leaves, and soy protein, on the regulation of T helper cell subpopulations. Twelve healthy volunteers were divided into two groups, one receiving a placebo and the other taking Diabenox/BIM-D capsules for 15 days. Blood samples were collected before and after the supplementation period, and peripheral blood mononuclear cells (PBMCs) were isolated and stimulated to assess cytokine production.

In the present study, we demonstrated that Diabenox/BIM-D can modulate the immune cell functions by reducing the production of pro-inflammatory cytokines, including TNF- α , IL-5, IL-12 and IL-17. Diabenox/BIM-D is therefore suggested as the food supplement for balancing immunity in the management of diabetic patients.

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Clinical Immunology & Research

Balancing Immunity with a Dietary Supplement Derived from Five Edible Plants for Management of Diabetes

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ABSTRACT

This study investigates the immunomodulatory effects of Diabenox/BIM-D, a dietary supplement derived from five edible plants, namely black sesame, guava fruit, mangosteen aril, pennywort leaves, and soy protein, on the regulation of T helper cell subpopulations. Twelve healthy volunteers were divided into two groups, one receiving a placebo and the other taking Diabenox/BIM-D capsules for 15 days. Blood samples were collected before and after the supplementation period, and peripheral blood mononuclear cells (PBMCs) were isolated and stimulated to assess cytokine production.

In the present study, we demonstrated that Diabenox/BIM-D can modulate the immune cell functions by reducing the production of pro-inflammatory cytokines, including TNF- α , IL-5, IL-12 and IL-17. Diabenox/BIM-D is therefore suggested as the food supplement for balancing immunity in the management of diabetic patients.

Keywords

Balancing immunity, Diabetes, Mangosteen, Autismism, TNF- α , IL-5, IL-12, IL-17, Diabenox/BIM-D.

Introduction

The development of specific agents affecting T helper cell subpopulations, i.e., Th1, Th2 and Th17 differentiation, has drawn special attention in the last decades. Many natural products have been reported to affect the differentiation of T helper cell subpopulations by regulating the differentiation of T helper cell subpopulations. These products have the potential to be immune modulators for the treatment of various diseases, including infectious diseases, cancer, autoimmune diseases and diabetes.

In this study, we aim to investigate the immunomodulatory effects of Diabenox/BIM-D, a dietary supplement consisting of five edible plants, namely black sesame, guava fruit, mangosteen aril, pennywort leaves and soy protein. We investigate the possible effect of Diabenox/BIM-D on the control of T helper cell subpopulation differentiation.

Objective

The objective of this study is to investigate the possible effects of Diabenox/BIM-D on the regulation of T helper cell subpopulations. The levels of various cytokines in blood collected from healthy donors before and after taking Diabenox/BIM-D capsules for 15 days were compared.

Study Approaches

Study Subjects

• 12 healthy volunteers: 7 males and 5 females

• Age range: 20-30 years old

• The recruited volunteers were divided into 2 groups:

• Group 1: taking a placebo, 6 subjects

• Group 2: taking Diabenox capsules, 6 subjects

Blood Collection

Blood samples (5 mL, using heparin as an anticoagulant) were collected from each subject on day 0. According to the groups, subjects took either Diabenox/BIM-D capsules or a placebo (4 subpopulation differentiation).

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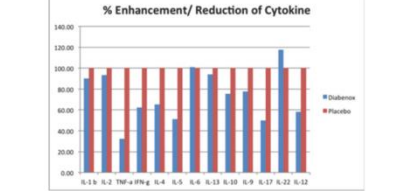
Type 2 diabetes, which is usually associated with obesity or older age, is mostly the result of insulin resistance. In these patients, muscle or adipose cells do not respond adequately to normal levels of insulin produced by intact beta-cells. On the other hand, Type 1 diabetes usually starts in people younger than 30 and is therefore also termed juvenile-onset diabetes, even though it can occur at any age. It is a chronic autoimmune disorder that progression in genetically susceptible individuals due to environmental factors [1]. The body's own immune system attacks the beta-cells in the islets of Langerhans of the pancreas, destroying or damaging them sufficiently to reduce and eventually eliminate insulin production. A combination of factors, including a Th1-driven CD4 response as well as a deficiency of regulatory T cells, are considered important hallmarks of disease progression [2].

Diabetes is the cell culture experiment were determined by FlowCytometry (fluorescence, Inc., San Diego, CA, USA) following the manufacturer's protocol. Comparison of the cytokine levels from unstimulated PBMCs and stimulated PBMCs in terms of the stimulation index on day 0 and day 15 were performed.

There is sufficient information suggesting that Th1 cells play a major role in obesity, driving the development of disease via IFN- γ [3]. This includes observation that blockade of IFN- γ [4] or the cytokine levels from unstimulated PBMCs and stimulated PBMCs in terms of the stimulation index on day 0 and day 15 were performed.

The stimulation index of various cytokines in subjects taking the Diabenox/BIM-D capsules and the placebo were calculated and compared. Stimulation was performed using data from subjects taking the placebo. The percentage enhancement and reduction in subjects taking the Diabenox/BIM-D capsules are shown in the figure below. The results indicate that Diabenox/BIM-D capsules reduced the production of TNF- α , IFN- γ , IL-5, IL-6, IL-10, IL-12 and IL-17.

% Enhancement/Reduction of Cytokine



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เพิ่มความยาวเทโลเมียร์ ให้ย้อนวัยได้เฉลี่ยถึง 5.8 ปี ใน 8 สัปดาห์ และเพิ่ม เซลล์ T พืชลดการติดเชื้อต่างๆ และลดความเสี่ยงการเกิดมะเร็ง เหมาะกับผู้มีสุขภาพปกติ และผู้ที่เคยรักษามะเร็งมาแล้ว
สารสำคัญ: GM-1 และสารสกัดจากงาดำ ถั่วเหลือง ฟรังก์ บัวบก

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Efficacy of a dietary supplement derived from five edible plants on telomere length in Thai adults:

ORIGINAL ARTICLE

Food Science & Nutrition

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Efficacy of a dietary supplement derived from five edible plants on telomere length in Thai adults: A randomized, double-blind, placebo-controlled trial

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Abstract

Mylife/Mylife100® is a dietary supplement consisting of black sesame seed, guava fruit, mangosteen aril, pennywort leaves, and soy protein. These edible plants contain multiple high-potential bioactive compounds exerting various vital biological functions including antioxidants which contribute to delaying the rate of telomere shortening. Telomere length is associated with cellular aging and age-related diseases. This study aimed to assess the efficacy of Mylife/Mylife100® on telomere length through a randomized, double-blind placebo-controlled trial. The trial assessed the alteration of leukocyte telomere length after 32 adults aged 50–65 years received either Mylife/Mylife100® or placebo (five capsules/day) for 8-week supplementation.



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