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Effect of combination treatment with Lactobacillus rhamnosus and corticosteroid in reducing airway inflammation in a mouse asthma model

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Effect of combination treatment with Lactobacillus rhamnosus and corticosteroid in reducing airway inflammation in a mouse asthma model



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Abstract Background: Asthma is a complex multifactorial chronic airway inflammatory disease with diverse phenotypes and levels of severity and is associated with significant health and economic burden. In a certain population of asthma patients, the symptom cannot be used in controlled with stemal. There has been long standing interest in the use of predicts to of Lactobacilius rhamnous GO (LOG) with predinsolone could reduce the dosage of glucocorticized in controlling airway inflammation in a misrius model for altergic asthma. Material and methods: We used Deep is 2-sensitized asthma model in female BALB/c mice. The Material and methods: We used Deep p 2-sensitized asthma model in female BALB/c mice. The loss of the production of the prod of predmisotone with 50 µt um IgE and IgG1, Th2 cytok

# 內分泌暨新陳代謝科

# 楊宜瑱 主任

GLP-1RAs for ischemic stroke prevention in patients with type 2 diabetes without established atherosclerotic cardiovascular disease

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GLP-1RAs for Ischemic Stroke Prevention in Patients With Type 2 Diabetes Without Established Atherosclerotic Cardiovascular Disease

Diabetes Care 2022;45:1184-1192 | https://doi.org/10.2337/dc21-1993

on ischemic stroke prevention in the Asian population with type 2 diabetes (T2D) without established cardiovascular disease

### RESEARCH DESIGN AND METHODS

This retrospective cohort study examined data obtained from the Taiwan National Health Insurance Research Database for the period from 1998 to 2018. The follow-up ended upon the occurrence of hospitalization for ischemic stroke. The median follow-up period was 3 years. The effect of GLP-1RA exposure time on the development of hospitalization for ischemic stroke was assessed

The GLP-1RA and non-GLP-1RA user groups both included 6,534 patients. Approximately 53% of the patients were women, and the mean age was 49 ± 12 years. The overall risk of ischemic stroke hospitalization for GLP-1RA users was not significantly lower than that for GLP-1RA nonusers (adjusted hazard ratio not significantly lower than that for GUP-are nonuscrip (adjusted nasawa read) [HR] 0.69 [95% CI 0.47-1.00]; \$P = 0.0506), but GIP-1RA users with a >251-day supply during the study period had a significantly lower risk of ischemic strode hospitalization than GIP-1RA nonusers (adjusted HR 0.28 [95% CI 0.11-0.71]). https://doi.org/10.1006/10. defined by various baseline features did not reveal significant differences in the ryed effect of GLP-1RAs.

Yi-Sun Yang, 1-2 Hsin-Hung Chen, 1-4.5 Chien-Ning Huang,<sup>1,2</sup> Chung Y. Hsu,<sup>6</sup> Kai-Chieh Hu,<sup>1,8</sup> and Chia-Hung Kao<sup>6,8,10,11</sup>

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肺癌診治研究中心

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Association of Smoking With Patient Characteristics and Outcomes in Small Cell Lung Carcinoma, 2011-2018

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Original Investigation | Oncology

Association of Smoking With Patient Characteristics and Outcomes in Small Cell Lung Carcinoma, 2011-2018

Jeng-Sen Tseng, MD. PhD: Chun-Ju Chiang, PhD: Kun-Chien Chen. MD. PhD: Zhe-Rong Zheng, MD: Tsung-Ying Yang, MD, PhD: Wen-Chung Lee. MD. PhD: Kuo-Hsoan Hsu, MD. Yen-Hsiang Hivang, MD, Tsang-Wu Liu, MD, Jiun-Yi Hsia, MD, PhD, Gee-Chen Chang, MD, PhD

IMPORTANCE Small cell lung carcinoma (SCLC) is uncommon in individuals who have never smoked (never-smokers). The related epidemiologic factors and prognosis remain unclear

OBJECTIVE To assess the epidemiologic factors, clinical characteristics, and outcomes of SCLC in never-smokers.

DESIGN, SETTING, AND PARTICIPANTS A retrospective cohort study was conducted using data from the national Taiwan Cancer Registry, which was inaugurated in 1979 and maintains standardized records of patients' characteristics and clinical information for all individuals with cancer. Patients with cytologically or pathologically proven lung cancer were included for analysis. The study obtained data on patients from January 1, 1996, to December 31, 2018; data analysis was conducted from January 1, 1996, to December 31, 2019.

EXPOSURES Clinical characteristics and outcomes of smokers and never-smokers with SCLC

MAIN OUTCOMES AND MEASURES. Clinical characteristics for comparison included age at diagnosis, sex, performance status, tumor stage, and treatment. The main outcome parameter was verall survival of patients with SCLC from 2011 to 2018.

RESULTS: From 1996 to 2018, a total of 225 788 patients had diagnosed lung cancer; 141 654

Question Do patient characteristics of smokers and never-smokers differ

Findings in this cohort study examining 225 766 patients with lung cancer. among patients with SCLC, there were more older individuals, more women, more patients with a poor performance status and in an advanced stage of cancer, and more patients who did not receive treatment among never smokers than among smokers. Neversmokers, particularly men, experienced worse outcomes.

Meaning The findings of this study suppost that clinical characteristics and outcomes of patients with SCLC differ



## 醫學研究部

# 魏正宗 副院長

Efficacy and safety of brodalumab, an anti-IL17RA monoclonal antibody, in patients with axial spondyloarthritis: 16week results from a randomised, placebo-controlled, phase 3 trial

發表於 Annals of the Rheumatic Diseases 雜誌

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## Spondyloarthritis



CLINICAL SCIENCE

Efficacy and safety of brodalumab, an anti-IL17RA monoclonal antibody, in patients with axial spondyloarthritis: 16-week results from a randomised, placebo-controlled, phase 3 trial

James Cheng-Chung Wei (1,2,3,4 Tae-Hwan Kim (1,5),5 Mitsumasa Kishimoto,6 Naoki Ogusu,7 Haeyoun Jeong,8 Shigeto Kobayashi (1,5),9 4827-006 study group

## Handling editor Josef S.

Additional material is published online only. To view please visit the journal online (http://dx.doi.org/10.1136/ annrheumdis-2020-219406).

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Objective To investigate the efficacy and safety of brodalumab, a fully human anti-interleukin-17 receptor A monoclonal antibody, in patients with axial

spondyloarthritis (axSpA).

Methods in a multicentre, placebo-controlled phase
3 study (NCT02985983) conducted at 48 sites across 3 study (NCT02985993) conducted at 48 sites across Japan, Korea and Taiwan, patients with as5pA were randomised 1:1 to receive subcutaneous brodalumab 210 mg (n=80) or placebo (n=79) at baseline, weeks 1 and 2 and every 2 weeks thereafter, during the 16-week double-blind period. The primary endpoint was the proportion of patients with Assessment of Spondyloarthritis International Society (ASAS) 40 response at week 16. Secondary endpoints included the proportion of patients with ASAS 20 response and change in Ankylosing Spondylitis Disease Activity Score using C-reactive protein (ASDAS-CRP) at week 16 and

Results ASAS 40 response rate (n/N; 95% CI) was Results: ASAS 40 response rate (r/N: 95% CI) was 43.8% (35/80; 32.7, 55.3) with brodolumab vs 24.1% (19/79; 15.1, 35.0) with placebo (rate difference, 19.7% (5.3, 34.1); p=0.018 by stratified Cochran-Mantel-Haenszel test), ASAS 20 response rate (r/N: 95% CI) was 67.5% (54/80; 56.1, 77.6) vs 41.8% (33/79; 30.8, 53.4) and least squares mean change (95% CI) from baseline (brodolumab v, 266); placebo, 7.16) in ASIAS-CRP was -1.127 (-1.522, -0.931) with brodolumab vs -0.672 (-0.872, -0.473) with placebo at week 16. treatmentemergent adverse events were reported in 44 (55%) and 45 (57%) patients in the brodalumab and placebo

What is already known about this subject?

Interleukin (IL)-17 cytokines play a pathophysiological role in axial aspondylearthritis (axSpA), and clinical trials have demonstrated the efficacy and safety of IL-17 inhibitors in the treatment of ankylosing spondylitis (AS) and non-radiographic axSpA. Brodalumab is a novel IL-17 inhibitor that inhibits IL-17 by blocking IL-17 receptor A

## What does this study add?

What does this study add?

➤ Brodalumab demonstrated a significantly higher Assessment of SpondyloArthritis International Society 40 response rate at 16 weeks vs placebo, with a rate difference of 19.7%, and was well tolerated in patients with axSpA.

➤ The efficacy and safety of brodalumab was comparable with that previously demonstrated by other IL-17 inhibitors in patients with axSpA.

## How might this impact on clinical practice or

future developments?

Short-term results from this study indicate that brodalumab, a novel IL-17RA inhibitor can be a potential therapeutic option for patients with axSpA.



