ask type: Research Study [the following requirements first] and I will give you samples of inclusion and exclusion in the next prompt: Research [Estrogen as an immunomodulator and its role in autoimmune disease prevention: a systematic review] Focus on the [Research Questions] [1. How does estrogen modulate immune function, and what is its role in preventing autoimmune diseases in at-risk populations? 2. Population: Individuals with autoimmune diseases or at risk. 3. Intervention: Estrogen or estrogen-based therapies. 4. Comparison: Non-estrogen therapies or placebo.] [Outcome: Immunomodulation, autoimmune disease incidence/prevention.] Study the [Protocol] below: Adhere to [Inclusion Criteria: Studies on humans or animal models relevant to estrogen's effects on immune function. Peer-reviewed journals. Specific autoimmune diseases: lupus, RA, MS, GPA, psoriasis, Sjögren's syndrome, allergy Timeframe: last 10 years] Adhere to [Exclusion Criteria]: [Non-English studies Irrelevant topics: non-immune functions of estrogen] [Register the protocol with PROSPERO.]

**ChatGPT 說：**

ChatGPT

Understood. To conduct a systematic review on "Estrogen as an immunomodulator and its role in autoimmune disease prevention," adhering to the outlined research questions, protocol, inclusion, and exclusion criteria, I will ensure the following:

**Key Steps:**

1. **Define Scope and Framework**:
   * Focus on **immune function modulation** and **autoimmune disease prevention** in at-risk populations.
   * Include both human and relevant animal studies from **peer-reviewed journals** published in the **last 10 years**.
2. **Population, Intervention, Comparison, and Outcome (PICO):**
   * **Population:** Individuals with or at risk for autoimmune diseases (e.g., lupus, rheumatoid arthritis, MS, psoriasis, etc.).
   * **Intervention:** Estrogen or estrogen-based therapies.
   * **Comparison:** Non-estrogen therapies or placebo.
   * **Outcome:** Immunomodulation effects and incidence/prevention of autoimmune diseases.
3. **Inclusion Criteria**:
   * Studies addressing the role of estrogen in **immune functions and autoimmune diseases**.
   * Publications in **English**.
   * Focused on **specific autoimmune diseases** like lupus, rheumatoid arthritis, MS, etc.
   * Published within the **last 10 years**.
4. **Exclusion Criteria**:
   * Non-English studies.
   * Irrelevant studies, such as those on **non-immune-related functions** of estrogen.
5. **Search Strategy**:
   * Conduct a systematic search in databases like **PubMed, Scopus, Embase, and Web of Science**.
   * Use specific keywords and Boolean operators:
     + e.g., "estrogen AND immune modulation,"
     + "estrogen AND autoimmune prevention,"
     + "lupus AND estrogen therapy," etc.
6. **Screening Process**:
   * Title and abstract screening for relevance.
   * Full-text screening using inclusion and exclusion criteria.
7. **Data Extraction**:
   * Extract data on **immune modulation mechanisms**, specific outcomes (e.g., biomarkers, disease progression), study design, and population details.
8. **Data Synthesis**:
   * Summarize findings qualitatively and quantitatively (if possible).
   * Highlight gaps in research.
9. **Registration**:
   * Register the protocol with **PROSPERO** (International prospective register of systematic reviews) for transparency.
10. **Report Writing**:
    * Structure the review according to **PRISMA guidelines** (Preferred Reporting Items for Systematic Reviews and Meta-Analyses).

Please provide the sample inclusions and exclusions so I can refine the methodology further!

**你說：**

articles.ris

檔案

customizations\_log.csv

試算表

Continue: For [criteria of inclusion]: study the following samples [attached to this dialogue] and [analyze the characteristics of the included articles.]

**ChatGPT 說：**

ChatGPT

The provided RIS file and CSV file offer details about included articles and their respective metadata. Below is a summary of the characteristics from the included articles and customization logs:

**Characteristics of Included Articles (RIS File):**

1. **Article Titles:**
   * Examples include:
     + *"Effects of oral contraceptives and menopausal hormone therapy on the risk of rheumatoid arthritis: a prospective cohort study"*
     + *"Association Between Menopausal Factors and the Risk of Seronegative and Seropositive Rheumatoid Arthritis: Results From the Nurses' Health Studies."*
2. **Published Journals:**
   * Articles are from peer-reviewed journals such as *Rheumatology* and *Arthritis Care & Research.*
3. **Publication Years:**
   * Recent publications, including 2023 and earlier studies within the last 10 years.
4. **Authors:**
   * Articles have contributions from recognized researchers in immunology and related fields.
5. **Keywords:**
   * Topics related to estrogen, rheumatoid arthritis, and hormonal therapies are central themes.
6. **Identifiers:**
   * Each article includes a DOI for reference and unique identifiers such as "rayyan-115518320."

**Analysis of Customization Log (CSV File):**

1. **User Inclusion Log:**
   * Articles were reviewed and marked as "included" by a user with the email **s10601053.md06@nycu.edu.tw.**
   * The decision to include each article was logged with timestamps, indicating an organized review process.
2. **Standardization:**
   * Consistent inclusion marking across all entries, suggesting alignment with predefined inclusion criteria.

**Next Steps:**

* Analyze the RIS data systematically to extract specific information relevant to the systematic review, such as study populations, interventions, outcomes, and methodologies.
* Consolidate findings with inclusion decisions logged in the customization file to ensure alignment with protocol criteria.

Would you like me to extract detailed characteristics or consolidate a report for your systematic review? ​​

**你說：**

articles.ris

檔案

customizations\_log.csv

試算表

Continue: Before proceeding to generate the list of included articles: For [criteria of exclusion], analyze [the characteristics of the following samples attached].

**ChatGPT 說：**

ChatGPT

The provided RIS and CSV files for exclusion analysis reveal characteristics of studies excluded during the screening process. Below is an analysis:

**Characteristics of Excluded Articles (RIS File):**

1. **Article Titles:**
   * Examples of excluded topics include:
     + *"Hormone therapy for uterine and endometrial development in women with premature ovarian insufficiency."*
   * Focus areas not aligned with **immune functions** of estrogen or **autoimmune diseases.**
2. **Keywords:**
   * Topics such as *amenorrhea*, *pregnancy*, and *endometrial development* dominate the excluded articles.
   * Highlighted terms like *dydrogesterone* and *estrogens [adverse effects]* suggest a focus on **non-immune-related hormonal effects.**
3. **Publication Context:**
   * Published in fields such as gynecology or reproductive health (e.g., *Cochrane Database of Systematic Reviews*), which diverges from the review’s focus on immunomodulation.
4. **Reason for Exclusion:**
   * Abstracts indicate a focus on areas like **ovarian insufficiency** or **endocrine disorders**, not autoimmune prevention or modulation.

**Analysis of Exclusion Log (CSV File):**

1. **Decisions:**
   * Entries marked as "included: -1" signify exclusion decisions, logged with consistent criteria.
   * Additional fields, such as "note," indicate supplementary comments for some entries.
2. **Standardization:**
   * Consistent exclusion methodology applied, suggesting alignment with predefined **exclusion criteria**.

**Key Characteristics Leading to Exclusion:**

* Articles with **non-immune-related topics**, such as reproductive health or non-autoimmune hormonal conditions.
* Focus on **adverse effects of estrogen** unrelated to immunomodulation or autoimmune disease prevention.
* Studies that address general **hormone replacement therapies** without an autoimmune focus.

Would you like me to consolidate these characteristics into a systematic exclusion framework or directly proceed to generate the lists of included and excluded articles? ​​

**你說：**

articles.ris

檔案

customizations\_log.csv

試算表

Continue: now categorize [the articles in the attached documents along the lines of both the inclusion and the exclusion criteria you have just studied]. While categorizing, [list out columns that include reasons to include or exclude based on your learned inclusion and exclusion criteria].

**ChatGPT 說：**

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The articles have been categorized according to the inclusion and exclusion criteria. You can now review the categorized articles along with the reasons for their inclusion or exclusion. Let me know if further refinement or additional details are needed. ​