

## Peer Review File

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### Review comments

Comment 1: Abstract: findings should be findings, can delete “it found that”, I would not say regular medicines, just medicines or pharmaceuticals.

Reply 1: I have modified text as advised (see Page 1, line 14, 16).

Changes in the text: Findings, deleted “it found that”, deleted “regular.”

Comment 2: As a major concern, the literature review seems unconnected to the topic of the paper. The paper should really be discussing previous studies on the state of Thailand's pharmaceutical industry and also papers on the state of the pharmaceutical industry in countries similar to Thailand.

Reply 2: I have included additional data concerning the status of Thailand's pharmaceutical industry, as well as research papers discussing the pharmaceutical industry's state in countries comparable to Thailand. I have also removed irrelevant information from the Introduction section. (see Page 2-4, line 47-128)

Changes in the text: Please see Page 2-4, line 47-128

Comment 3: Parts of the text are copied word for word from the table. For example, the part on inclusion and exclusion criterion. Given the table, the text here can be shortened quite a bit.

Reply 3: I have modified text as advised (see Table 1, Page 5-7, line 174-175).

Changes in the text: Please see Table 1, Page 5-7, line 174-175

Comment 4. In line 173 there seems to be an extraneous (1).

Reply 4: I have modified text as advised (see Page 8, line 174-223).

Changes in the text: I removed unnecessary words and replaced "The policy and strategy for national vaccine security" with "it."

Comment 5. In line 230, cervical cancer would be more correct as HPV.

Reply 5: I have modified text as advised (see Page 10, line 281).

Changes in the text: I replaced the term "cervical cancer" with "human papillomavirus (HPV)."

Comment 6. In line 235-235 when you write 5,500 deaths do you mean per year? What does domestically preventable mean?

Reply 6: Yes, when I write 5,500 deaths, I mean per year.

"Domestically preventable" refers to situations or issues that can be avoided or mitigated within a country's own boundaries through appropriate actions, policies, or interventions. In this context, it implies that the mentioned deaths or negative outcomes could be minimized or prevented through measures taken within the country itself, without relying on external factors. I added these texts (Page 10, line 286-290)

Changes in the text:

I included the phrase "per year" and provided a clearer explanation of the term "domestically preventable." (see Page 10, line 286-290)

Comment 7. In line 229 you write 12 diseases but only list 11, I think.

Reply 7: I have modified text as advised (see Page 10, line 279).

Changes in the text: I changed the number 12 to 11.

Comment 8. The first two subsections of the discussion section do not seem closely relevant to the topic of the paper.

Reply 8: I have modified text as advised (see Page 8, 9, line 206 and 249).

Changes in the text: I replaced the term "Strategy and polies" with "policy" and substituted the term "Action plan" with "plan."

Comment 9. In lines 251 to 259 there appears to be a contradiction. It says that production on an industrial scale is not feasible but also that the government does produce seasonal flu vaccines.

Reply 9: I mean in the past, the large-scale production of developed vaccines at an industrial level was not achievable. However, Thailand currently has the capability to manufacture

various vaccines, including those for smallpox, cholera, typhoid, diphtheria, tetanus, tuberculosis (BCG), and Japanese encephalitis.

Changes in the text: I have included "in the past" and "currently" to enhance clarity in meaning. (see Page 11, line 306-307).

Comment 10. in line 277, what standard are you referring to?

Reply 10: The standard that I refer to is WHO Pre-qualification (WHO PQ) certification.

Changes in the text: I substituted "standard" with "WHO Pre-qualification (WHO PQ) certification." (see Page 12, line 333-334).

Comment 11. Can you add some quantitative measure to the paper? For example, the percentage of vaccines that are imported.

Reply 11: I included data on the percentage of vaccines imported by Thailand, categorized by countries, for the year 2019 in the paper.

Changes in the text: Added “The percentage of vaccines imported by Thailand, categorized by countries, for the year 2019” (see Page 12-13, line 359-366).

Comment 12. I think the paper would be substantially better if the literature review discussed only papers on vaccine and pharmaceutical production in Thailand and similar countries. I also think the paper can considerably shorten the discussion of the overall health system in Thailand.

Reply 12: I have incorporated the overall health system in Thailand into the paper.

Changes in the text: Health system in Thailand (see Page 2, line 35-44).