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### Research Interest

- Applied Thai Traditional Medicine
  - diagnosis and treatment based on Thai traditional medical principles
- Integrative Medicine
  - holistic healthcare combining traditional and alternative approaches.
- Clinical Trial Research
- Herbal Product development

### More information:

- 1) Rachawat P., Damjuti W., Siriwattanasathorn M. and Thongsa S. (2024). Application of Mahachotarat Scriptures to the Screening of Menstrual Abnormalities and Effects among Undergraduate Students, Rajamangala University of Technology Thanyaburi. Singburi Hospital Journal, 33(1), B70–B83. May. (TCI2)
- 2) Rachawat, P., Pinsornsak, P., Kanokkangsadal, P., & Itharat, A. (2017). Clinical Efficacy and Safety of Benjakul Remedy Extract for Treating Primary Osteoarthritis of Knee Compared with Diclofenac: Double Blind, Randomized Controlled Trial. Evidence-based Complementary and Alternative Medicine: eCAM, 2017, Article ID 9593580. <https://doi.org/10.1155/2017/9593580>

## Researcher expertise

### Survey research :



Mahachotarat Scriptures



Questionnaire



Expert's feedback



Evaluation



Research



Interview



Result

## Application

### Assessment tool : for screening menstrual abnormalities

ตารางที่ 12 ค่าพยากรณ์ผลบวก (Positive predictive value) ความผิดพลาดเกี่ยวกับการมีประจำเดือนทางการแพทย์แผนไทย เปรียบเทียบกับการแพทย์แผนปัจจุบัน

| การตรวจคัดกรอง<br>โดยแพทย์แผนปัจจุบัน | การตรวจคัดกรอง<br>โดยแพทย์แผนไทย |            | ประสิทธิภาพการจำแนกประเภทความผิดปกติ |                 |         |
|---------------------------------------|----------------------------------|------------|--------------------------------------|-----------------|---------|
|                                       | เป็นโรค                          | ไม่เป็นโรค | Sensitivity (%)                      | Specificity (%) | PPV (%) |
| ผลบวก                                 | 195                              | 0          | 100                                  | 33.1            | 92.00   |
| ผลลบ                                  | 17                               | 2          |                                      |                 |         |

PPV: Positive Predictive Value

integrating principles : from both Thai traditional medicine and modern medical theories.

### Support for the use of herbs: scientific data to support the use of the BJK extract remedy by medical doctors

TABLE 5: Overall assessment of treatment evaluated at day 28.

| Global assessment (point) | BJK (n = 39)<br>Number (%) | Diclofenac (n = 38)<br>Number (%) | P value*           |
|---------------------------|----------------------------|-----------------------------------|--------------------|
| 0: none                   | 2 (5.1)                    | 1 (2.6)                           |                    |
| 1: mildly better          | 8 (20.5)                   | 6 (15.8)                          |                    |
| 2: moderately better      | 19 (48.7)                  | 13 (34.2)                         | 0.403 <sup>c</sup> |
| 3: much better            | 9 (23.1)                   | 16 (42.1)                         |                    |
| 4: excellent              | 1 (2.6)                    | 2 (5.3)                           |                    |

\*Statistical analysis: <sup>c</sup>chi-square test.



### Clinical research : phase 2

Double Blind, Randomized Controlled Trial



Benjakul Remedy Extract

VS



Diclofenac

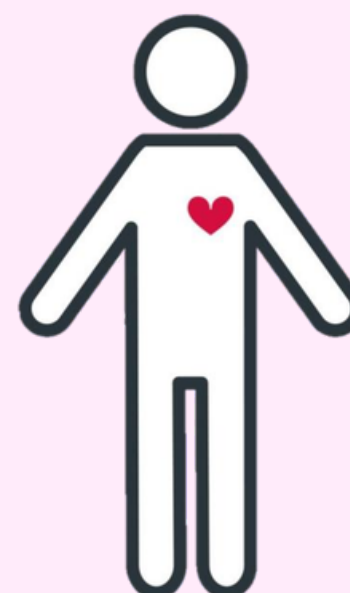
Quality control :



Anti-inflammatory activity by Griess reagent assay

Ash, Moisture,  
Heavy metal,  
Weight, Dissolution

Quality Control  
Tests For Capsules



Primary OA Knee

### Safety :

- CBC
- Lipid profile
- UA analysis
- Liver function test
- Renal function test

### Efficacy :

- VAS
- Modified Thai WOMAC
- Global assessment
- 100-meter walking time