**NEW CONTRIBUTIONS OF THE THESIS**

The study named: “**Study the effects of knee intra-articular autologous platelet- rich plasma therapy in treatment of primary knee osteoarthritis**”

Major: Internal Rheumatology; Code: 62720142

Fellows: Bùi Hải Bình, 30th course

Supervisor: Assoc. Prof. Nguyen Thi Ngoc Lan

Training address: Hanoi Medical University

New contributions of the thesis:

1. This is the first study to use knee intra-articular autologous platelet- rich plasma therapy in treatment of primary knee osteoarthritis stage 2-3 in Vietnam
2. Study characteristics of blood cells andtransforming growth factor beta-1(TGF-β1) level in autologous platelet- rich plasma isolated by ACP (Arthrex) separation: platelet count in PRP were double higher in whole blood cell but white blood cell count was in small amount; TGF- β1 concentrations in PRP was 148,6 ng/ml, higher than that was 13,8 ng/ ml in whole blood.
3. The effects of knee intra-articular autologous platelet- rich plasma therapy:

* Clinical effects: reduced pain and improved knee function eluvated by VAS and WOMAC score at 6 and 12 months after the treatment, better than the control group with viscosupplementation therapy.
* In the PRP goup, knee cartilar thickness measured by ultrasound and MRI was increased better than the control group.
* Undesirable effects: slightly increased post-injection knee pain and synovial inflamation/ new joint effusion rates was the same in the control group with no serious adverse events reported.

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| **Supervisor**  *(signed)*  **Assoc. Prof. Nguyen Thi Ngoc Lan** | **Fellows**  *(signed)*  **Bui Hai Binh** |

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***Ghi chú:*** Thông tin tóm tắt những kết luận mới của luận án tiến sĩ chỉ trình bày trên 01 trang giấy A4 (tiếng Anh 1 trang và tiếng Việt 1 trang).