

**00525 An Evaluation Study of Stool Calprotectin Detection Kits**

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**Aims:** To evaluate the performance of different test kits from different manufacturers and to test the result ranges of the different kits to get a wider range for clinical use.

**Methodology:** Clinical stool samples which were sent for stool Calprotectin were used for the evaluation. Phadia Calprotectin 2 (Phadia Cal2), Alegria-Orgentec Calprotectin (Alegria-ORG280), Buhlmann Calprotectin High Range, Buhlmann Calprotectin Extended and current used Buhlmann Calprotectin kit were tested in parallel and the results were compared. Forty-seven samples were tested using all the 5 kits. The samples were processed and read according to the manufacturer's instructions.

**Result:** The results of the kits were compared with each other. A result was considered discrepant if it was different from the rest or the majority of the kits, with respect to the category result. Phadia Cal2 showed the most number of discrepancies (5 discrepant results), followed by Alegria-ORG280 (4 discrepant results). The Buhlmann kits had the least number of discrepancies (1 to 2 only).

**Conclusion:** The 3 Buhlmann kits give the most concordance results and the Buhlmann Extended kit can provide wider detection range. The Phadia Cal2 kit and ORG280 kit can provide wider detection range, but extra instruments are needed to perform the tests. The Buhlmann Extended kit is the most suitable test kit to use in the laboratory.