

**EFFECT OF FECES ON
CONCENTRATION
OF IMMUNO-REACTIVE
HEMOGLOBIN IN PRESERVATIVE
SOLUTIONS
METHODS**

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METHODS

- SOLUTIONS FROM 2 DIFFERENT COMPANIES, PRODUCING KITS FOR IMMUNO - CHEMICAL DETECTION OF FOBT, WERE SPIKED WITH HUMAN HEMOGLOBIN.
- 7 - 10 MG FECES ADDED TO EACH, SHAKEN AND INCUBATED AT 17°C AND 37°C.
- SAMPLES DRAWN FROM THE 4 SOLUTIONS - INITIALLY, AT 1 HOUR AND AT DAYS 1 - 4.
- HEMOGLOBIN CONCENTRATIONS MEASURED BY RADIAL - IMMUNODIFFUSION.

RESULTS

MEAN REMAINING

HEMOGLOBIN CONCENTRATION - %

	Day 0	Day 0	Day 1	Day 2	Day 3	Day 4
	Hour 0	Hour 0				
17°C	100	69	41	28	15	10
37°C	100	38	16	10	7	6

CONCLUSIONS

- SOLUTIONS MAY PRESERVE THE STABILITY OF FECAL HEMOGLOBIN POORLY AND NEED TO BE IMPROVED.
- PART OF THE FALSE NEGATIVE RESULTS OF SCREENING FOR C.R.C. WITH IMMUNOCHEMICAL TECHNIQUES MAY BE DUE TO DEGRADATION OF HEMOGLOBIN IN TRANSIT TO THE LABORATORY.