

ANTIMICROBIAL RESISTANT *ESCHERICHIA COLI* TRANSMISSION THROUGH RAW COW'S MILK CONSUMPTION

Objectives:

1. *E. coli* influence through raw milk
2. Contamination pathways of *E. coli*
3. Antimicrobial resistance of *E. coli*
4. Resistance mechanisms of *E. coli*
5. *E. coli*'s control and preventive measures

| Antibiotic | % resistance | % usage (mastitis) |
|------------------|--------------|--------------------|
| Tetracycline | 43,8 | - |
| Sulfamethoxazole | 34,4 | - |
| Ampicillin | 29 | 41 (penicillins) |
| Cephalosporin | 3 | 23 |
| Azithromycin | 2 | 10 (macrolides) |

Conclusions:

- Raw milk consumption increases the probability of suffering *E. coli* raw milk borne diseases.
- Raw milk boiling eliminates efficiently *E. coli*.
- It is uncertain if cheese ripening inhibits *E. coli*.

