

AGREGACYJNE *ESCHERICHIA COLI* – NOWA GRUPA SZCZEPÓW *E. COLI* ODPOWIEDZIALNYCH ZA BIEGUNKI

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1. Wstęp.
2. Ogólna charakterystyka agregacyjnych szczepów *E. coli*.
3. Plazmid wirulencji pAA.
- 3.1. Fimbrie agregacyjne AAF.
4. Toksyny EAEC.
- 4.1. Ciepłostała enterotoksyna EAEC - EAST1
- 4.2. Toksyna kodowana plazmidowo - Pet.
- 4.2.1. Autotransportowe białka sekrecyjne bakterii Gram-ujemnych.
- 4.3. Mucynaza Pic.
- 4.4. Inne toksyny EAEC.
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7. Inwazyjność szczepów agregacyjnych *E. coli*.
8. Patomechanizm zakażeń EAEC.
9. Podsumowanie

Aggregative *Escherichia coli* (EAEC) - the new group of diarrheagenic strains *E. coli*

Abstract: Enteroaggregative *E. coli* strains (EAEC) are the most recently described category of diarrheagenic *E. coli* defined by its aggregative or "stacked-brick" pattern of adherence to cultured human epithelial cells. EAEC has been associated with persistent diarrhea among infants and small children. Most EAEC strains harbour a pAA virulence plasmid which is required for expression of aggregative adherence fimbriae AAF/I and AAF/II. That plasmid also mediates mannose resistant hemagglutinin production and bacterial clumpp formation. EAEC strains comprising a diverse range of serotypes that possess a variety of putative virulence factors, the heat-stable enterotoxin EAST 1. cytotoxin Pet, hemolysin, and various types of fimbriae among them. The pathogenic mechanisms of EAEC infections are not fully elucidated so clinical significance of enteroaggregative *E. coli* strains is still poorly understood.

1. Introduction.
2. Characterization of EAEC strains.
3. Virulence plasmid pAA.
- 3.1. Aggregative fimbriae AAF.
4. Toxins of EAEC.
- 4.1. Heat-labile enterotoxin of EAEC - EAST 1.
- 4.2. Plasmid - encoded toxin - Pet.
- 4.2.1. Autotransporter secreted proteins of Gram-negative bacteria.
- 4.3. Mucinase Pic.
- 4.4. Other toxins of EAEC.
5. Flagellin of aggregative *E. coli*.
6. Yersiniobactin.
7. Invasiveness of enteroaggregative strains of *E. coli*.
8. Patomechanism of infection of EAEC.
9. Summary

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