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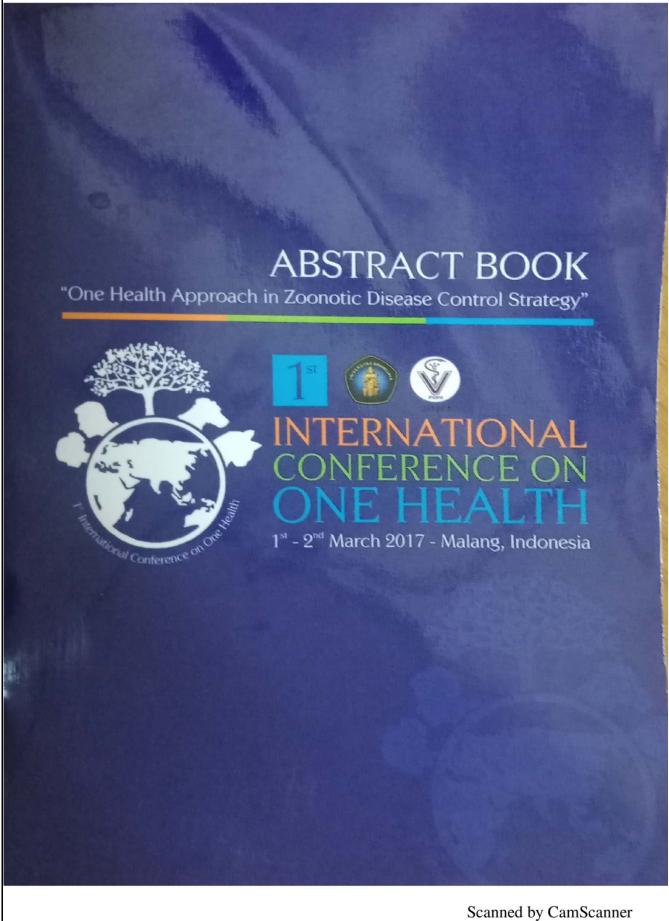


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Cross-reaction Between *Staphylococcus aureus* Protein and Human Sperm Protein at Female of Infertile Couple with Non-specific Vaginitis

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ABSTRACT

The cause of idiopathic infertility approximately 10-30% and allegedly much related to immunological disorders and previous infections. We explore the contribution of Staphylococcus aureus (S. aureus) at women infertile couples with Non-specific vaginitis (VNS) whether cross-react to human sperm. Biocomputational and Invitro study. Five S. aureus protein have homology sequences by 26-44% and homology structures ranging from 0.314 to 26.40 Å to human sperm. Analysis of antigenicity, all of the molecule obtain high antigenicity properties and all of S. aureus protein express their epitope, only 80 % molecule of human sperm protein express their epitope. So all of the proteins almost confirmed that they allow it to be recognized by the same antibodies. Two isolates of S. aureus from fertile female partner (S. aureus fertile) and infertile female partner (S. aureus_infertile) is used to collect its outer membrane protein (OMP). The humoral adaptive immune response occurs in female of fertile and infertile couple experiencing VNS due to S. aureus. The molecular weight (MW) of OMP of S. aureus_fertile that was recognized by the s-IgA mucus of the uterine cervix of female of fertile couple was 52 kDa while the OMP of S. aureus_infertile was recognized by the s-lgA mucus of the uterine cervix of female of infertile couple was 49 kDa. The 49 kDa and 52 kDa of S. aureus OMP are immunized into mice to produce specific antibody, IgG fertile and IgG infertile. They obtain cross-reaction between OMP of S. aureus MW 52 kDa and 49 kDa to OMP of human sperm. Conclusion: Non-specific Vaginitis due to S. aureus may trigger an adaptive immune response with s-IgA antibodies produced cross-reacting with OMP of human sperm protein.

Keywords: infertility, cross-reaction, S. aureus, sperm, s-IgA







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Abstract

Background: The cause of idiopathic infertility approximately 10-30% and allegedly much related to immunological disorders and previous infections. We explore the contribution of Staphylococcus aureus (S. aureus) at women infertile couples with Non-specific vaginitis (VNS) whether cross-react to human sperm. **Design**: Biocomputational and Invitro study. **Result**: Five S. aureus protein have homology sequences by 26-44% and homology structures ranging from 0.314 to 26.40 Å to human sperm. Analysis of antigenicity, all of the molecule obtain high antigenicity properties and all of S. aureus protein express their epitope, only 80 % molecule of human sperm protein express their epitope. So all of the proteins almost confirmed that they allow it to be recognized by the same antibodies. Two isolates of S. aureus from fertile female partner (S. aureus fertile) and infertile female partner (S. aureus infertile) is used to collect its outer membrane protein (OMP). The humoral adaptive immune response occurs in female of fertile and infertile couple experiencing VNS due to S. aureus. The molecular weight (MW) of OMP of S. aureus fertile that was recognized by the s-IgA mucus of the uterine cervix of female of fertile couple was 52 kDa while the OMP of S. aureus infertile was recognized by the s-IgA mucus of the uterine cervix of female of infertile couple was 49 kDa. The 49 kDa and 52 kDa of S. aureus OMP are immunized into mice to produce specific antibody, IgG fertile and IgG infertile. They obtain cross-reaction between OMP of S. aureus MW 52 kDa and 49 kDa to OMP of human sperm. Conclusion: Non-specific Vaginitis due to S. aureus may trigger an adaptive immune response with s-IgA antibodies produced cross-reacting with OMP of human sperm protein.

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