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02. Bacterial infection & disease

2e. Skin, soft tissue, bone & joint (excl prostheses) & central nervous system infections

Who produces more Panton-Valentine leukocidin (PVL), methicillin-sensitive *Staphylococcus aureus* (MSSA) or methicillin-resistant *Staphylococcus aureus* (MRSA) strains?: A 3-year retrospective and comparative study

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Conflict of interest: none

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Background

- **Panton-Valentine leukocidin (PVL)**
 - Produced by *Staphylococcus aureus* (SA)
 - **Toxin:** inducing pore formation in leukocytes; **skin infections** & others
 - Commonly associated with **MRSA**

Objective

- Comparing the **occurrence of PVL-SA** between **MSSA & MRSA** strains from outpatients' samples

Study design (methods)

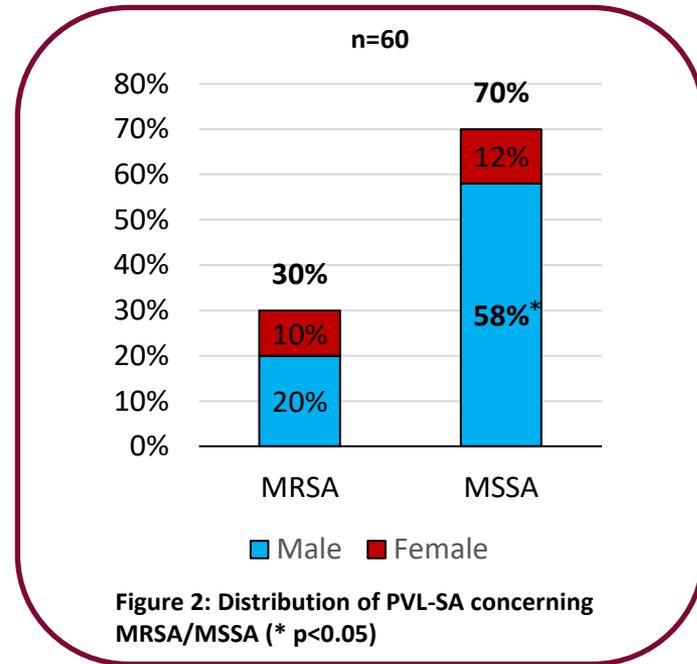
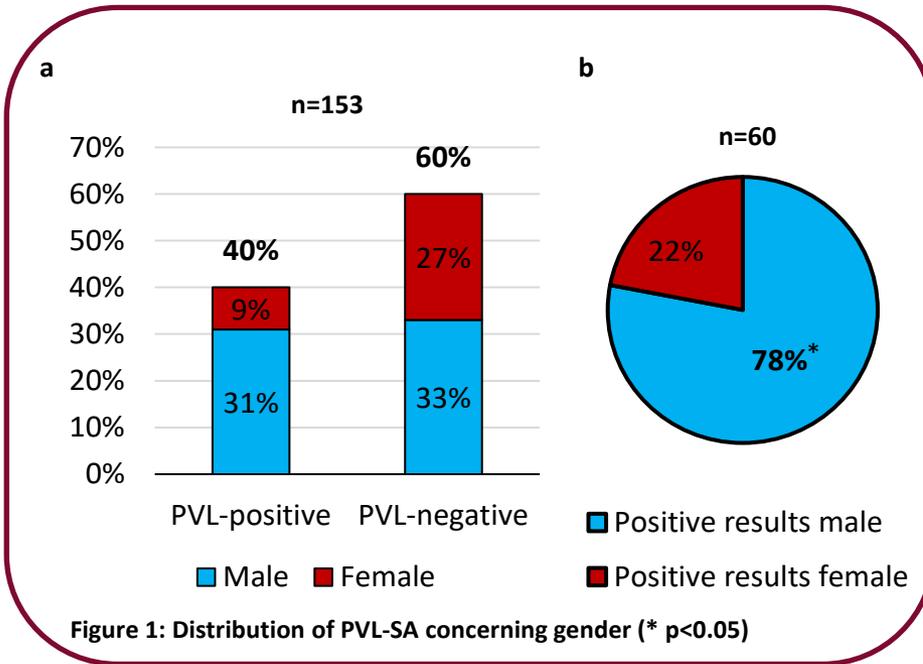
- **Retrospective** and **comparative** study
 - **PVL-producing MSSA & MRSA** strains:
 - January 2017 to December 2019
 - Skin & soft tissue specimens
 - Outpatients from North Rhine-Westphalia, Germany
- **Demographic and patients data:** significant data $p < 0.05$

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Results



Conclusion

- **PVL-positive:** deriving from men & MSSA were more frequently than MRSA strains
- **Criteria for screening:** skin/soft tissue specimens, men, MRSA & MSSA

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Thank you for your attention

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