



Klebsiella pneumoniae NDM-1 - Sepsis (peritonitis)

Procedure Summary

- Immunocompetent CD-1 mice, eight weeks old females
- *Klebsiella pneumoniae* NDM-1 (ATCC BAA 2470)
- Bacterial challenge by intraperitoneal challenge
- Mucin 5%
- Reference compound: Tigecycline (IV); Test molecule (IV)

Experimental readouts

- Survival rate
- Weight loss
- Clinical score

Optional Services

- CFU determination (peritoneal fluid, spleen...)
- Cytokine and chemokine analysis
- Pharmacokinetics

Literature / reference

- Papareddy *et al.*, Plos pathogens. 2010. « The TFPI-2 Derived Peptide EDC34 Improves Outcome of Gram-Negative Sepsis”.
- Internal data

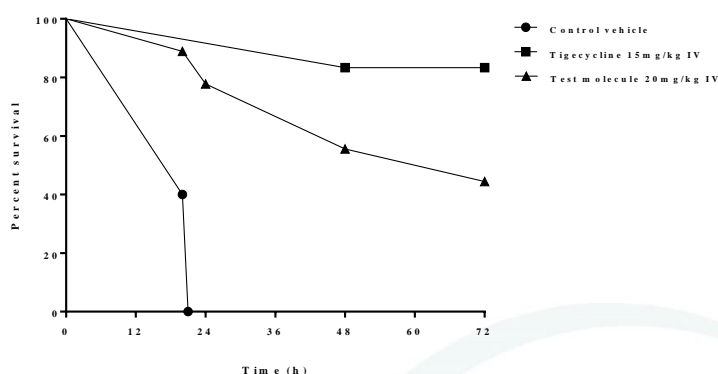
Animal Welfare

- Each experimental protocol is approved by the local ethics committee for animal experimentation of Grand Campus Dijon (Burgundy, France) and performed in accordance to the current recommendations of the European Institute of Health EU Directive 86/609

Facilities

- These assays are performed at our BSL2 laboratory / zootechnical center in Dijon, France

Efficacy of tigecycline 15mg/kg or test molecule 20mg/kg on survival rate in a murine model of septicaemia induced by *Klebsiella pneumoniae* ATCC BAA 2470.



Our scientific team will readily accommodate client-specific alterations and will provide expert advice and guidance for your efficacy studies

For more information please contact : info@vivexia.fr