

Mouse Kidney Parvovirus: A Newly Characterized Parvoviral Pathogen of Research Mice

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MKPV is a newly characterized parvovirus pathogen genetically divergent from MVM and MPV that can cause clinical disease in immunocompromised mice (1).

Virus has been identified in both wild and laboratory mice.

Mice of multiple genetic lineages tested positive, including outbred strains, inbred strains, and immunocompromised mice

Transmitted to naïve mice by co-housing or dirty bedding transfer MKPV can be detected in a variety of sample types including feces, urine, mouse tissues, rack filters, cage swabs and biological material such as cell lines and tumors.

- MKPV infection can be detected in soiled bedding sentinel mice as early as 2 weeks after exposure to dirty bedding.
- MKPV shedding was detected for up to 6 weeks in sentinel mice and 12 weeks in nude mice

reference : Roediger B(1), Lee Q(2), Tikoo S(2), Cobbin JCA(3), Henderson JM(2), et al 2018 Cell. Oct 4;175(2):310-311