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A class of SIRS epidemiological models with at least two limit cycles. (Chinese. English summary) [Zbl 1055.92514](#)

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Summary: In this paper, an SIRS epidemiological model is considered and the conditions for the existence of one or two limit cycles at least are obtained.

MSC:

[92D30](#) Epidemiology

[34C05](#) Topological structure of integral curves, singular points, limit cycles of ordinary differential equations

[34C60](#) Qualitative investigation and simulation of ordinary differential equation models

Keywords:

[SIRS epidemiological model](#); [weak focus](#); [limit cycle](#)