Case report: 38-year-old female patient with severe legionellosis but no source of infection

Fallbericht: 38-jährige Patientin mit schwerer Legionellose, jedoch unbekannter Infektionsquelle

Abstract

We report about a 38-year-old female patient with an extremely severe case of legionellosis. The patient had to be treated in the intensive care unit for more than a month. Extracorporeal membrane oxygenation (ECMO) had to be established in order to save the patient's life. The patient did not belong to any risk group (i.e., age >50, smoker, immunosuppression, chronic disease, male sex). Infection control investigations carried out by the Public Health Department could not reveal concrete exposures likely to cause the infection. The serotypes in the patient material (Legionella pneumophila serotype 2-14) and in the samples taken from the showerhead in the patient's apartment (Legionella pneumophila serotype 1) were not identical. Results of the examination performed according to the German Drinking Water Ordinance (Trinkwasserverordnung, TrinkwV) carried out in 2017 in the patient's apartment, showed that the technical measures limit (Technischer Maßnahmenwert, TMW) was not exceeded. The patient has survived through the extensive use and efforts of intensive care measures. In general, a concrete exposure to Legionella is often not ascertainable. as in the case presented. This raises the question of how and whether such cases of legionellosis are preventable.

Keywords: legionellosis, risk factors, infection prevention, exposure, ECMO

Zusammenfassung

Wir berichten über eine 38-jährige Patientin mit schwerstem Verlauf einer Legionellose. Die Patientin musste länger als einen Monat auf der Intensivstation behandelt werden. Eine Therapie mit extrakorporaler Membranoxygenierung (ECMO) war notwendig, um das Leben der Patientin zu retten. Die Patientin gehörte keiner Risikogruppe an (d.h. Alter >50, Raucher, Immunsuppression, chronische Erkrankung, männliches Geschlecht). Ermittlungen des Gesundheitsamtes im Rahmen des Infektionsschutzes erbrachten keine konkrete ursächliche Exposition. Die Serotypen im Patientenmaterial (Legionella pneumophila Serotyp 2-14) und in den aus dem Duschkopf in der Patientenwohnung entnommenen Proben (Legionella pneumophila Serotyp 1) waren nicht identisch. Bei der 2017 in der Patientenwohnung durchgeführten Untersuchung gemäß Trinkwasserverordnung (TrinkwV) wurde keine Überschreitung des Technischen Maßnahmenwertes (TMW) festgestellt. Die Patientin hat durch Einsatz hochkomplexer intensivmedizinischer Maßnahmen überlebt. Häufig ist eine konkrete Exposition gegenüber Legionellen, wie im vorliegenden Fall, nicht feststellbar. Das wirft die Frage auf, wie und ob solche Fälle von Legionellose vermeidbar sind.

Schlüsselwörter: Legionellose, Risikofaktoren, Infektionsprävention, Exposition, ECMO Benedikt M. J. Lampl' Werner Strigl' Dieter Winner' Michael T. Pawlik'

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