

**Background:**

Radon therapy has been used in central Europe since the beginning of the 20th century. It uses radon, a chemically inert, naturally radioactive gas for treating various diseases. Its main application is as a non-pharmacological treatment option for various inflammatory rheumatic diseases. For treatment purposes, radon is commonly applied by bathing for about 20 minutes in water with a radon concentration of 0.3–3 kBq/l or remaining for about one hour in caves or galleries with a natural radon concentration of about 30–160 kBq/m<sup>3</sup>.

**Studies of medical evidence:**

- Resource: radon cure therapy. Indication: rheumatoid arthritis (Falkenbach, Kovacs, Franke, Jörgens & Ammer, 2005; Franke, Reiner & Resch, 2007; Franke & Franke, 2013): evidence level Ib
- Resource: low-dose radon hyperthermia therapy. Indication: osteoporosis (Winkelmayr et al., 2015): evidence level Ib
- Resource: low-dose radon hyperthermia therapy. Indication: secondary osteoporosis (Lange et al., 2016): evidence level IIa
- Resource: low-dose radon cure therapy. Indication: pains and high blood pressure (Rühle et al., 2019): evidence level Ib

