



**PTCS**

Proton Therapy Center Switzerland AG

## 7 Is proton radiation dangerous? Can radiation be released from the center?

Proton radiation, like X-rays and electron radiation, is ionizing radiation and is subject to the same requirements for radiation protection. Uncontrolled release of proton radiation is dangerous to biological tissue, as are X-rays and electron radiation, and it can lead to temporary, permanent or even fatal radiation damage. However, proton radiation cannot escape from the center as the radiation is only released in shielded and appropriately monitored areas. The requirements and handling correspond to those of conventional therapy with X-rays and electron radiation. Even if the radiation were switched on inadvertently – which is monitored, controlled and prevented by appropriate safety precautions – the radiation cannot be released from the center.