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How can ski helmets be optimized to increase wearer safety?

Who are the patients/targeted population?

Amateur skiers.

What is the problem?

When comparing traumatology data before and after the general introduction of ski helmets, the occurrence of brain injury in ski accidents seems to have generally increased.

What is the need?

Propose and develop a new helmet concept that can more effectively protect the skier from brain trauma during impact.

What is the benefit (if the problem is solved)?

Even if only a moderate protective effect on brain injury can be obtained with a new ski helmet design, a new approach to designing ski helmets could be proposed.

Wrap-up

Brain injury is a devastating problem in high-speed sports. Solutions to specifically protect the skiers are highly needed.