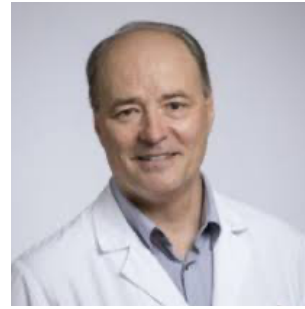


Dr Jean-Yves Fournier  
Médecin chef de service  
Service de Neurochirurgie  
Hôpital du Valais  
Jean-Yves.Fournier@hopitalvs.ch  
027 603 40 00



## **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.