

Supplementary Data

SUPPLEMENTARY TABLE S1. SKI LIFT ACCIDENTS IN EUROPE AND NORTH AMERICA IN CHRONOLOGICAL ORDER

<i>Date</i>	<i>Location</i>	<i>Dead</i>	<i>Injured</i>	<i>Not injured</i>	<i>Involved</i>	<i>Risk factors</i>
1956	Rowe Mountain (NH,USA)	1	7	NA	8	Chairlift
1957	Cogne (Val d'Aosta, IT)	1	11	NA	12	Cable car
1961	Vallée Blanche, Chamonix (FRA)	6	0	NA	6	Gondola
1965	Puy de Sancy (FRA)	7	10	NA	17	Gondola
1966	Chamonix (FRA)	2	16	NA	18	Gondola
1970	Merano (South Tyrol, IT)	5	0	NA	5	Gondola
1970	Alagna (Valsesia, IT)	4	0	NA	4	Gondola
1972	Bettmeralp (CH)	12	2	NA	14	Gondola
1972	Les Deux Alpes (FRA)	9	0	NA	9	Gondola
1973	Idaho (USA)	0	17	NA	17	Chairlift
1976	Cavalese (IT)	42	1	NA	43	Cable car
1976	Vail (CO, USA)	4	5	NA	9	Gondola
1977	Jiminy Peak (MA, USA)	0	11	NA	11	Chairlift
1978	Squaw Valley (CA, USA)	4	32	NA	36	Cable car
1981	Heavenly (CA, USA)	0	17	NA	17	Chairlift
1983	Champoluc, Val d'Aosta (IT)	11	0	NA	11	Gondola
1984	Big Powderhorn (MI, USA)	1	8	NA	9	Chairlift
1985	Keystone (CO, USA)	0	49	NA	49	Chairlift
1987	Luz Ardiden (Pyrénées, FRA)	6	87	NA	93	Chairlift
1989	Vaujany (FRA)	8	0	NA	8	Cable car
1992	Nassfeld (Carinthia, AUT)	4	9	NA	13	Chairlift
1995	Whistler (BC, CAN)	2	10	NA	12	Chairlift
1996	Riederalp (CH)	1	18	NA	19	Gondola
1998	Cavalese (Trentino, IT)	20	0	NA	20	Cable car
1999	Pic de Bure, Dévoluy (FRA)	20	0	NA	20	Cable car
1999	Crans Montana (CH)	1	4	NA	5	Gondola
2000	Oberstdorf (DE)	0	32	NA	32	Gondola
2000	Kaprun (Salzburg, AUT)	155	0	NA	155	Cable car
2005	Sölden (Tyrol, AUT)	9	10	NA	19	Gondola
2007	Lower Austria (AUT)	0	0	22	22	Chairlift
2008	Blackcomb (BC, CAN)	0	10	NA	10	Gondola
2009	Devil's head (WI, USA)	0	14	NA	14	Chairlift
2011	Upper Austria (AUT)	0	0	84	84	NA
2011	Upper Austria (AUT)	0	0	69	69	NA
2012	S ^t François Longchamp (FRA)	0	0	70	70	Chairlift
2014	Styria (AUT)	0	0	23	23	NA
2016	Upper Austria (AUT)	0	0	11	11	NA
2016	Chamonix (FRA)	0	0	33	33	Gondola
Total		335	380	312	1027	

AUT, Austria; BC, British Columbia; CA, California; CO, Colorado; CAN, Canada; CH, Switzerland; DE, Germany; FRA, France; ID, Idaho; IT, Italy; USA, United States of America; MA, Massachusetts; MI, Michigan; MT, Montana; NA, not available; NH, New Hampshire; WI, Wisconsin.

SUPPLEMENTARY TABLE S2. AVALANCHE MULTI-CASUALTY INCIDENTS IN DEVELOPING COUNTRIES

<i>Year</i>	<i>Location</i>	<i>Dead</i>	<i>Injured</i>	<i>Involved</i>	<i>Activity</i>
1964	Aiguille Verte (FRA)	14	0	14	Mountaineering
1974	Mont Blanc du Tacul (FRA)	8	0	8	Mountaineering
1976	La Mongie (FRA)	7	8	15	Downhill skiing
1978	Chamonix-Mont Blanc petit plateau (FRA)	1	3	6	Ski touring
1981	Bonneval-sur-Arc (FRA)	9	0	9	Ski touring
1982	Grand Galbert (FRA)	2	0	5	Ski touring
1982	Bonneval sur Arc (FRA)	5	0	5	Ski touring
1991	Pic de Malrif (FRA)	9	0	9	Ski touring
1992	Val Thorens (FRA)	7	3	10	Downhill skiing
1994	Col du Palais (FRA)	6	0	7	Freeride skiing
1996	Petite Sciammarella (FRA)	4	7	14	Mountaineering
1996	Alpe d'Huez (FRA)	1	1	10	Downhill skiing
1997	Innertkirche-Steintälli/Jochpass (CH)	3	0	6	NA
1997	Disentis-Piz Gendusas (CH)	1	0	5	NA
1998	Crête du Lauzet (FRA)	11	20	32	Snowshoers
1998	Kokanee Glacier Provincial Park (BC, Canada)	1	0	6	Ski touring
1999	Lavin-Gonda, Piz Chapisun-Inn (CH)	1	0	4	NA
1999	Bourg-Saint-Pierre-L'Hospitalet (CH)	1	0	17	NA
1999	Turnagain Pass (AK, USA)	6	3	10	Snowmobile
1999	Cumberland Pass (CO, USA)	3		4	Ski touring
1999	Talkeetna (AK, USA)	1	3	7	Snowmobile
1999	Grouse mountain (BC, Canada)	1	4	5	Hiking
1999	Roger Pass (BC, Canada)	1	4	5	Ski touring country
2000	Davos-Mittelgrat, Meierhofer Tälli (CH)	3	0	6	NA
2000	Prapic (FRA)	6	0	6	Ski touring
2000	Wright Peak (NY, USA)	1	5	6	Ski touring
2000	Snowbasin (UT, USA)	0	3	5	Downhill skiing
2000	Absaroka Range (MT, USA)	2	1	4	Hiking
2001	Trient-Tête de Balme (CH)	2	0	5	NA
2001	Ayer-Plat de la Lé (Zinal, CH)	1	0	8	NA
2001	Park City (UT, USA)	1	0	4	Ski touring
2001	Thunder Meadows (BC, Canada)	2	2	13	Freeride skiing
2001	Monashee (BC, Canada)	1	3	4	Freeride skiing
2001	Roger Pass (BC, Canada)	1	0	4	Freeride skiing
2001	Big White Mountain (BC, Canada)	0	0	5	Snowboarding
2001	Wild Horse Creek (BC, Canada)	1	1	5	Snowmobile
2002	Scuol-Piz Vallatscha (Graubünden, CH)	1	0	5	NA
2002	Val-d'Isère (FRA)	6	0	6	Freeride skiing
2002	Sheep Mountain (MT, USA)	4	0	5	Snowmobile
2002	Ashcroft (CO, USA)	1	2	5	Ski touring
2002	Tuckerman Ravine (NH, USA)	2	0	7	Mountaineering
2002	Norse Peak (WA, USA)	1	6	7	Ski touring
2002	Revelstroke (BC, Canada)	2	2	4	Freeride skiing
2003	Orsières-La Broya (Champex, CH)	2	0	5	NA
2003	Echo Bowl (ID, USA)	1	0	5	Snowmobile
2003	Mt. Timpanogos (UT, USA)	3	2	5	Ski touring
2003	Mont Cheops (BC, Canada)	7	0	17	Ski touring
2003	Durand Glacier (BC, Canada)	7	1	11	Ski touring
2003	Fernie (BC, Canada)	3	0	7	Snowmobile
2003	Meadow Mountain (BC, Canada)	0	3	14	Snowmobile
2003	Brewer Creek (BC, Canada)	1	0	12	Snowmobile
2004	Bagnes-Mont Rogneux (CH)	2	0	4	NA
2004	Russel Bowl (BC, Canada)	1	2	14	Snowboarding
2005	Pic de Bure (FRA)	3	4	7	Ski touring
2006	Tyrol (AUT)	0	0	6	Freeride skiing
2006	Vorarlberg (AUT)	0	1	5	Freeride skiing
2006	Tyrol (AUT)	1	2	8	Ski touring
2006	Salzburg (AUT)	0	0	17	Downhill skiing
2006	Tyrol (AUT)	0	0	6	Freeride skiing
2006	Trap Peak (CO, USA)	2	0	7	Snowmobile
2007	Salzburg (AUT)	0	4	5	Freeride skiing
2007	Tyrol (AUT)	0	2	5	Freeride skiing
2007	Tyrol (AUT)	0	0	8	Ski touring
2007	Tyrol (AUT)	0	0	6	Ski touring
2007	Tyrol (AUT)	0	0	5	Downhill skiing
2007	The Canyons (UT, USA)	1	1	4	Downhill skiing

(continued)

SUPPLEMENTARY TABLE S2. (CONTINUED)

<i>Year</i>	<i>Location</i>	<i>Dead</i>	<i>Injured</i>	<i>Involved</i>	<i>Activity</i>
2007	Delta Peak (BC, CANADA)	2	3	5	Freeride skiing
2008	Uløya (NO)	1	0	4	Ski touring
2008	Tyrol (AUT)	0	2	26	Hiking
2008	Tyrol (AUT)	0	0	5	Freeride skiing
2008	Mont Blanc du Tacul (FRA)	8	0	32	Mountaineering
2008	Mount Baker (WA, USA)	2	1	5	Snowmobile
2008	Turnagain Pass (AK, USA)	2	0	4	Snowmobile
2008	Sheep Mountain (ID, USA)	1	0	4	Snowmobile
2009	Steiermark (AUT)	2	1	6	Ski touring
2009	Tyrol (AUT)	0	0	6	Ski touring
2009	Tyrol (AUT)	0	0	5	Ski touring
2009	Col des Marches (FRA)	4	3	7	Ski touring
2009	Pointe de la Joanne (FRA)	3	0	13	Ski touring
2009	Indian Peak (WY, USA)	3	0	4	Snowmobile
2009	Chetwynd (BC, Canada)	1	0	9	Snowmobile
2010	Vefsn (NO)	4	2	6	Ski touring
2010	Styria (AUT)	0	0	11	Freeride skiing
2010	Vorarlberg (AUT)	0	0	5	Freeride skiing
2010	Vorarlberg (AUT)	2	0	12	Freeride skiing
2010	Mount Rainier (WA, USA)	1	0	11	Mountaineering
2011	Eikedalen (NO)	2	3	5	Freeride skiing
2011	Tyrol (AUT)	0	0	5	Ski touring
2011	Bourg Saint Pierre-Combe de Valsorey (CH)	5	6	11	Snowshoers
2011	Val-d'Isère (FRA)	4	0	7	Snowboarding
2012	Sorbmeigaisa (NO)	5	0	6	Ski touring
2012	Salzburg (AUT)	0	0	14	Mountaineering
2012	Tyrol (AUT)	0	2	10	Downhill skiing
2012	Styria (AUT)	0	0	8	Ski touring
2012	Tyrol (AUT)	0	0	6	Ski touring
2012	Stevens Pass (WA, USA)	3	0	5	Ski touring
2012	Denali (AK, USA)	4	1	5	Mountaineering
2013	Hammarskaftet (Lofoten, NO)	0	4	11	Ski touring
2013	Hemsedal (NO)	0	6	6	Mountaineering
2013	La Dent Parrachée (FRA)	3	3	9	Ski touring
2013	Mount Washington (NH, USA)	0	3	12	Mountaineering
2013	Takhinsha Mountains (AK, USA)	1	3	4	Ski touring
2013	Loveland Pass (CO, USA)	5	0	6	Ski touring
2014	Sunnmøre (NO)	4	0	4	Ski touring
2014	Carinthia (AUT)	0	0	7	Ski touring
2014	Vail (CO, USA)	1	3	4	Ski touring
2014	Wallowa Mountains (OR, USA)	2	2	5	Ski touring
2014	Sawatch Range (CO, USA)	2	3	5	Ski touring
2014	Smoky Mountains (ID, USA)	1	0	4	Snowmobile
2014	Mount Rainier (WA, USA)	6	0	6	Mountaineering
2014	La Combe à Marion (FRA)	0	5	10	Ski touring
2014	Roc des Saints Pères (FRA)	0	4	4	Ski touring
2015	Tyrol (AUT)	0	4	7	Freeride skiing
2015	Tyrol (AUT)	0	0	5	Freeride skiing
2015	Carinthia (AUT)	0	0	12	Freeride skiing
2015	Carinthia (AUT)	0	0	5	Mountaineering
2015	Col Emile Pic (FRA)	3	1	12	Ski touring
2015	Vallon de Bachas (FRA)	6	NA	6	Ski touring
2015	Barre des Ecrins (FRA)	7	1	8	Mountaineering
2016	Valle Aurina-Ahrntal (IT)	6	NA	10	Ski touring
2016	Le petit Argentier-Modane (FRA)	6	27	52	Ski touring
2016	Les Deux Alpes (FRA)	3	1	13	Downhill skiing
2017	Tignes (FRA)	4	0	4	Freeride skiing
2017	Jochgrubenkopf (AUT)	4	NA	8	Ski touring
2017	Obergurgl (AUT)	2	1	10	Ski touring
2017	Wattental (AUT)	5	NA	17	Ski touring
2017	Nasu (JP)	8	30	63	Mountaineering
Total		313	228	1101	

AK, Alaska; CO Colorado; Freeride skiing, downhill skiing outside of ski slopes; ID, Idaho; JP, Japan; MT, Montana; NO, Norway; NY, New York state; UT, Utah; WA, Washington state; WY, Wyoming.

SUPPLEMENTARY TABLE S3. AVALANCHES ON TOURISTIC HABITATIONS IN DEVELOPING COUNTRIES

<i>Year</i>	<i>Location</i>	<i>Dead</i>	<i>Injured</i>	<i>Involved</i>
1970	Val-d'Isère (FRA)	39	NA	39
1970	Plateau d'Assy (FRA)	74	NA	74
1970	Lanslevillard (FRA)	8	NA	9
1974	North Route Café Motorhead (BC, Canada)	7	NA	7
1978	Le Tour–Chamonix (FRA)	5	NA	5
1999	Evolène-Le Breguet (CH)	12	NA	12
1999	Montroc–Chamonix (FRA)	12	NA	13
1999	Galtür (AUT)	31	NA	31
1999	Valzür (AUT)	8	NA	8
1999	Kangiqsualujjuaq (QC, Canada)	9	25	500
2017	Rigopiano Farindola (IT)	29	NA	40
Total		234	25	738

QC, Québec.