Table S1. Narrative, Factors, Circumstances, and Consequences of Fall Events

	Narratives	Direct factors	Indirect	Fall
			circumstances	consequences
Informant 1	Well, it was because I was so tired that evening, or the day before. I was	Vacuum cleaning	Being tired and	Wounds on
65-year-old	out cleaning the car and vacuuming it, and I happened to tangle, well,	the car while	worn out (b1300)	knees and elbow
woman	simply got stuck in the vacuum cleaner hose and just fell helplessly	standing (d650;		
On sick leave	forwards. I have new shoes; they're a bit higher and I've felt this before—	d4106; d2200)	Having a cold	Tenderness in
ABC score: 94	that I'm less steady with them on, so that's probably 1 more reason, as		(not coded)	knees and wrist
EDSS score: 3.0	well as that, I have a cold, so there was probably something like that	Not noticing the		
	going on yesterday afternoon, that I had a bit of a headache and was	hose; getting	Having a	
Tripped on the	generally feeling irritated. I just didn't feel [the hose]. I was just taking a	stuck in the hose	headache (b2801)	
vacuum cleaner	step backwards, going from cleaning the front seats to the back seatsI	(b140; e115)		
hose while	came to a dead stop. I didn't see the hose when I backed up. That's all		Generally feeling	
cleaning the car	there was to it; my knees took a beating, I have small open wounds on	New, unsteady	irritated	
	my knees and my elbows got hit, because I sort of came down on my	shoes (e1150)	(personal factor)	
	knees and wrists, so they're a bit sore.			
		Stepping		
		backwards (d450)		
Informant 2	I usually work on the same floor; sometimes I have to go to the floor	Working (d8451)	A period of worse	Embarrassment
35-year-old	below. I was about to go up the stairs. So well, I thought I was walking		balance function	checking if
woman	and lifting my feet as I should. But then my right foot got stuck on 1 of	Going up and	(not coded)	someone noticed
Working full	the steps, which made me fall down on the staircase. I did what you	down stairs		the fall
time	sometimes do when you fall; jumped up really fast and looked around to	(d4551)		
ABC score: 53	see if anyone had seen me falling. And I think I just, well, I was going to			Reduced
EDSS score: 4.0	climb the staircase quickly. I don't remember why I was in a hurry. And	Thinking she had		balance
	then, I had, sometimes, I think I had indoor shoes of some kind, they're	lifted her feet		confidence
	comfortable but maybe not the very best to walk inSo, I really have	high enough		
Foot got stuck	low control of my right leg. What I'm doing, I don't really know if I'm	(b260)		
while climbing	lifting my leg high enough because sometimes when I use the stairs I lift			
the stairs at	my leg too high like this, but this time, it wasn't high enough instead.			
work	And I think I was thinking that walking up the stairs, that's, that's OK. I			

	think I'd have been more afraid of stumbling if I was walking down the staircase. They're relatively broad stairs, so you have to use 1 of the sides if you want something to hold onto. But I walked in the middle.	Foot getting stuck on step (b7300; b770; e150)		
	Your balance confidence takes a beating when these little things happen. But I don't perceive my balance as really good right now. I think it changes a bit. It might feel better at times. But it's like I'm in a worse period at the moment.	Trying to climb stairs quickly (speed not coded) Not the best shoes for walking		
		Low control of leg (b260; b730) Walking in		
		middle of stairs, not holding on to handrail (personal factor)		
Informant 3 37-year-old woman Working full time ABC score: 88 EDSS score: 3.0	Well Icame home from my exerciseand I was about to go and put the rubbish out because my partner had put it outside and it's just a few meters. I'd put it [the rubbish] out. I was thinking that I needed to remember the stuff I had in the car, and that can cause problems: when you think about something else too. But there's a very small edge of flagstones that I have to get up on just before the door, and I stumbled on that edge, and I fell on all fours. And that's the thing, since I'd been working out, and when I get tired, then it's mainly noticeable in my right	Putting the rubbish out (d6405) Thinking about something else while walking (b1402)	Coming home tired after exercising, which was mainly noticeable in the right leg (d570; b7401)	Serious pain
Stumbled on the edge of some flagstones after	leg since my whole right side is a bit worse. So I guess that's what happened, but it happened so fast that I can't say for sure. Well, out of the blue, I was on all fours, and I felt likeI do have problems with lifting my foot, or, not lifting my foot, but I need to concentrate quite a	Stumbling on the edge of a small	Being a bit stressed (d2401)	

putting out the	bit more; the left is more automatic. It's the same thing when I'm	step (d4502;		
rubbish	exercising, during a warm-up using my knees for example; I can't get	e1550)		
	the right one as far up as the left one and so on. In general it just doesn't			
	work quite as well. I got myself indoors, trying not to cry, because it	One leg being		
	hurt really badly. But then, that's why I was a bit stressed, because the	tired (b7401)		
	exercise is actually a bit late in the evening for me to put the children to			
	sleep and so on, so I walked in and tried to keep a poker face. I went and	Needing to		
	sat by my partner on the sofa and whined a bit later on.	concentrate to lift		
		the foot (b1400)		
Informant 4	Well it was at work, which is where I most commonly fall. I work in	Cleaning the floor	Having walked a	Sore knee
49-year-old	maintenance, so I was holding one of these mops, I was wiping the floor.	[at work] (d8451;	lot (d4501)	
woman	I managed to tangle my feet in the mop in an awkward sort of way. So I	d6402)		
Working part	just took a dive onto the floor like that. It was just that I'd been walking		Muscular fatigue	
time	a lot, so my legs were a bit tired, too. Then I react a bit slower.	Using floor mop	(b7401)	
ABC score: 76	Yesterday, for example, everything was really good, but today my	while standing		
EDSS score: 5.5	muscles were more floppy. It gets like that; it differs from day to day.	(e135; d4106;	Capacity varying	
	I simply stated that I had fallen, OK, I got a sore knee. I just had to get	d2200)	between days (not	
Feet got tangled	up again and continue.		coded)	
in a mop while		Feet getting		
cleaning floor at		tangled in mop		
work		(b7300)		
		Legs being tired		
		(b7401)		
		Impaired		
		reactivity when		
		fatigued (b1300;		
		b755; b798)		
		(, , , , , , , , , , , , , , , , , , ,		
		Impaired leg		
		control		

		(b760)		
Informant 5 67-year-old man Retired ABC score: 47 EDSS score: 6.0 While visiting friends, stepped on a stone and fell backwards when his friends called him	It was in the evening. I was sort of standing on 1 spot and then they called me—"Come on, it's time for dinner." So I was standing on a small slope. We were visiting friends. And then I stepped on a stone and fell backwards. Like a catapult, I don't know where it came from. I fell backwards and I guess I hit the back of my head and my arm and my back. I don't know if I got a concussion because I, for several days, I was so tired and I had a headache. I don't have strength in my left side. I have nothing to stabilize me so my foot simply gave way. I hurt my back and the terrain was bad there so I don't know if I hit my head on a rock. Well, after a while I managed to get up with some help and sat there feeling a bit shocked for a while. Then next day it started, well, yes, a headache and some double vision so I guess I hit my head harder than I first thought.	Being called while standing still (d4154; b1401) Standing on light slope (d4154; e2100) Ankle giving way after stepping on stone (d4502; b7300)	Darkness during evening (e240) Lacking strength in left side (b7302)	Hit back of head, arm, back Possible concussion (tiredness, double vision, headache)
Informant 6 39-year-old woman On sick leave ABC score: 87.5 EDSS score: 4.0 Lost balance while climbing wire fence to take shortcut	Well, you know those fences that look like small squares, chicken wire, and at the top, there was a wire standing straight out of a chicken wire fence that I was about to climb over. I did climb over with 1 leg, and then there was this very, very small slope on the other side of the fence. So when I had climbed over, I lost my balance and got that spiky wire right into my thigh. It didn't feel very nice. It's not something I'd recommend. My boyfriend caught me; if he hadn't, I guess I'd have torn my thigh up even more. I climbed over with 1 leg, then I was about to put all my weight on that leg to lift the other leg over, so I lost my balance since the leg I had on the slope didn't carry my body weight. The thing is, when I was about to climb that chicken wire and I said, in my head, "Don't climb it; you know you're going to fall 'cause you're going to lose your balance." I did it anyway. I know that I'm not as	Climbing over fence (d4551; d4106) Sloping ground (e2100) Leg being unable to carry weight (b7603)	Bodily exhaustion (b1300; b7402) Not listening to inner voice (d2303; b1645; d177)	Thigh injury that needed stitches Going to hospital for care Will listen better to her body next time

	steady on my feet as I think I am. Somehow, my brain told me "Yes, you can do it, it'll be just fine, let's go," but actually somewhere there was also "No, it's not going to be fine; it's going to hell." I was physically exhausted after having walked uphill, that's the reason why we took this shortcut. Blood was running all the way down my leg. It was quite serious; I had to get stitches. I have a feeling that I'll never climb a fence again. I learned something, if you can say that. I won't overestimate my capacity again, at least I hope not, and it wasn't worth it. I think my reason told me one thing and my pride another thing, I think that was the problem.			
	It was in June, I was riding my bike to the shop andgot to this red traffic lightyou know what it's like at traffic lights, there's a rod	Riding bike to buy groceries	Warm weather (e2250)	Ambulance transportation
<u> </u>	wherethis button is that you push if you want a green light. And I felt	(d4750; d6200)	(62230)	transportation
	like "No, I don't want to put my foot down to the ground; I'm going to	(41750, 40200)	Heat sensitivity	Dislocated
	grab that rod," and so I did. ButI think I ended up a bit too far from	Grabbing traffic	(b2700)	shoulder,
ABC score: 76	the rod, so I didn't have the strength to hold onto the rod until the light	light rod (d4452)		ruptured tendons
EDSS score: 4.5	shifted to green. And I wasn't standing up straight, I wasmostly just		Difficulty	
	hanging on. And in the end I was thinking "No, I can't stay like this; I	Hanging onto rod	thinking (b164)	Surgery
Lost balance	can't maintain my balance like this," so, well, I just had to let go. At that	but having to let		
_	time both my feet were on the pedals; I had 1 hand on the handlebars	go (d415; b1646)		
	and the other one was holding onto the rod. So I just let go, there was			
	nothing else to do. And then I fell to the ground. And subluxed my			
•	shoulder. AndI got help from people passing by. They called for an			
	ambulance, so I went in an ambulance to the university hospital. They			
	helped me by repositioning my shoulder. The physiotherapist did an			
	ultrasound and found tendon ruptures so I had to have surgery. With MS			
	maybeummit's this withthe brain and thinking and so on. It feels			
	as if you're not so good at it when you have MS. It was very warm out, the sun was shining, and I've noticed after this incident that I'm really			
	affected by heat.			

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Informant 8	I'd hung a quilt on a door so the space was very narrow. I was about to	Passing through	Having bad left	
59-year-old	take a step to the side but then it gave way. I have a bad left side, so I	narrow doorway	side (b7302)	
woman	know I usually stumble when I turn quickly. But then I, well, I just fell	(d4503)		
Working part	helplessly. I was lucky to fall on the bed. That's what usually happens,		Not being on	
time	that I don't have the strength in that leg, or my knee gives way. There's	Stepping aside to	guard (b140)	
ABC score: 34	no stability. This time, I didn't turn too quickly. Instead I took a step to	change direction		
EDSS score: 5.0	the left and sort of changed direction. I'm usually on guard since I know	(d4600; d4106)	Having nothing to	
	I walk unsteadily all the time. This time I wasn't so alert. I know that as		hold on to (e155)	
Took sidestep to	soon as I turn to the left I need something close by, and I don't do these	Legs giving way		
manage walking	thoughtless moves any more. I have to have something to support myself	(b7603)		
in narrow space	on. Nonslip socks are very helpful, but they can also make it hard to			
indoors	rebalance yourself. I was thinking about that yesterday, that I would	Nonslip socks		
	probably have handled that fall if I hadn't had those socks on because	hindering reactive		
	they make you get stuck, in a way, if you know what I mean. Otherwise,	step (e1150)		
	you can fend off a fall by sliding a bit.			
Informant 9	I was on the balcony, and I had lots of flowers there that I needed to take	Lifting flower	Being really	Not too badly
47-year-old	indoors, and then there are flower boxes in a, well, we have a rack and	boxes	physically	hurt
woman	things, so I was lifting. And I was actually really tired. I went swimming	(d6505; d4301)	exhausted after	
Working full	earlier today, aquatic exercise, so I was already physically tired, and		aquatic exercise	
time	then I had to take [the flowers] in, so my energy was running out; my	Legs giving way	(b1300; b7402	
EDSS score: 5.5	legs just gave way, and I fell straight down. But I didn't hurt myself too	(b7603)	d570)	
ABC score: 63	badly. When you land on your knees, but then when your legs don't			
	work, the hard thing is to get up again. It's when I do things that I'm not		Doing things	
Fell while	able to do, uh, to the allotment a lot since I test my limits there because I		beyond one's	
taking in	enjoy it so much.		capability—	
flowers and			testing one's	
flower boxes			limits (d2303;	
from balcony			b1645)	
Informant 10	I was doing stuff at home, dusting, and well, I have one of these robot	Dusting	Being generally	
56-year-old	vacuum cleaners that I'd turned on. And the robot vacuum cleaner runs	(d4600; d6402)	tired and worn out	
woman	into me, touching my feet just a little bit. I was trying to fend it off but I		(b1300)	
	didn't manage. I couldn't keep my balance, I fell helplessly head over			

Working part	heels. I fell on my side. I'm generally worn out and tired at present	Being hit by robot	Being physically	
time	because my parents are old and I mind them a lot. And I had had the	vacuum cleaner	exhausted after	
EDSS score: 3.0	children over for dinner the day before; I reckon I was very tired and	(e1150)	physiotherapy	
ABC score: 82.5	worn out. I've started to go to a physiotherapist. Of course, it's very		(b7402; d570)	
	but I've become very worn out by that. I end up bedridden when I get	Being unable to		
Was bumped into	back home.	fend it off		
by robot vacuum		(d4154)		
cleaner when				
cleaning the				
house				
Informant 11	So I was about to walk, and then I fell straight. Uhh I was carrying my	Walking on wet		Hospital visit
45-year-old	dog in a carrier, and then I slipped and fell straight forward. And I	and uneven grass		
woman	caught myself with my right hand. I felt, OK, this didn't go well. I think	(d4602; d4502)		Wrist fracture
Working part	it was on the grass. It isn't totally flat but, well, and it was wet. My			
time	balance isn't the best. So my dad drove me to the emergency department	Walking while		
ABC score: 71	since I can't drive. They X-rayed me and saw that it was a fracture in my	carrying dog		
EDSS score: 5.0	wrist.	carrier (d4301;		
		d2200)		
Slipped when				
walking while				
carrying dog				
carrier				
Informant 12	I'm not sure what happenedthe family was about to dine; we had	Walking on grass	Being in crowded	Scrape wounds
38-year-old man	guests, so there was a lot of stuff lying around on the ground. I got up	(d4602; d4503)	area without	
Working full	from my chair—we have a terrace and we have outdoor furniture that's		enough space to	
time	quite heavy and unwieldy to move. I couldn't pull the chair out as much	Many things	move around	
ABC score: 90	as I wanted to since it was so crowded and there was a lot of stuff	being on ground	(b1601)	
EDSS score:4.0	everywhere. I walked away to get my burgers on a plate, walked back to	and trying to		
	sit down. I don't remember if I stumbled right before I tried to sit down	move heavy		
Tried to pull out	or if I actually started to sit down. As I told you, the chair wasn't pulled	outdoor furniture		
chair while	out enough so it was a bit narrow to get through. Anyway, I stumbled	(e1150)		
carrying plate of	with a plate in my hand and sat down very hard over the armrest; the			

food, but failed	chair tilted to the side. I scraped my arm on the wall when the chair	Walking while
due to lack of	tilted. But nothing really happened when it started to tilt, I didn't drop	carrying plate of
strength and sat	anything and it wasn't as if I sat down in the chair; I stumbled and fell	food (d4301;
down	down on the chair and it almost went down. I went down awry on the	d2200)
uncontrollably	chair with my legs over the armrest. A typical thing every time I'm	
on armrest	about to fall is that I'm having to keep my attention on something I'm	Having
	carrying. That was the case this time, too, when I tried carrying the plate	insufficient
	and the burgers–I don't feel that I have problems with carrying things,	strength to pull
	but my stumbles and falls usually happen when there's something else	chair out far
	on my mind. There were a lot of toys and stuff like that on the ground	enough (b7301;
	that I could stumble on. Maybe I couldn't see where I was putting my	d4450)
	feet because the plate was in the way. I would have liked more space to	
	move around; as it was, I had to squeeze in somehow. There were some	Loss of body
	scrape wounds, nothing else.	control when
		sitting down
		(b760; d410)
		Needing to pay
		attention to
		something that
		was being carried
		(b1400; d4301)
		Ground being
		obscured by
		carried object (not
		coded)

ABC, Activities-Specific Balance Confidence scale; EDSS, Expanded Disability Status Score; ICF, International Classification of Functioning, Disability and Health.

Components	Domains	First-level	Second	l- and third-level categories
		categories		
Body functions	Mental	Global	b114	Orientation functions
	functions	mental	b130	Energy and drive functions
		functions	b1300	Energy level
			b134	Sleep functions
		Specific	b140	Attention functions
		mental	b1400	Sustaining attention
		functions	b1401	Shifting attention
			b1404	Dividing attention
			b144	Memory functions
			b1601	Focusing attention on the environment
			b164	Difficulties thinking
			b1645	Judgement
			b1646	Problem solving
			b180	Experience of self and time functions
	Sensory	Hearing and	b235	Vestibular functions
	functions and	vestibular	b240	Sensations associated with hearing and vestibular function
	pain	functions		
		Additional	b260	Proprioceptive function
		sensory	b270	Sensory functions related to temperature and other stimuli
		functions	b2700	Sensitivity to temperature
		Pain	b2801	Pain in body part
	Neuromusculo-	Functions of	b720	Mobility of bone functions
	skeletal and	the joints and		
	movement-	bones		
	related functions	Muscle	b730	Muscle power functions
		functions	b7300	Power of isolated muscles and muscle groups
			b7301	Power of muscles of 1 limb

			b7302	Power of muscle groups of 1 side of the body
			b7401	Endurance of muscle groups
			b7402	Endurance of all muscles of the body
		Movement	b755	Involuntary movement reaction functions
		functions	b760	Control of voluntary movement functions
			b7603	Supportive functions of arm or leg
			b770	Gait pattern functions
			b780	Sensations related to muscles and movement functions
			b798	Neuromusculoskeletal and movement-related functions
Activities and	Learning and	Purposeful	d110	Watching
participation	applying	sensory		
	knowledge	experiences		
	General tasks		d240	Handling stress and other psychological demands
	and demands		d2401	Handling stress
			d2200	Carrying out multiple tasks
			d2303	Managing one's own activity level
	Communication	Conversation	d350	Conversation
		and use of		
		communicati		
		on devices		
		and		
		techniques		
	Mobility	Changing and	d410	Changing basic body position
		maintaining	d4106	Shifting the body's center of gravity
		body position	d415	Maintaining a body position
			d4154	Maintaining a standing position
		Carrying,	d430	Lifting and carrying objects
		moving, and	d4301	Carrying in the hands
		handling	d440	Fine hand use
		objects	d4450	Pulling
			d4452	Reaching

	1		
	Walking and	d450	Walking
	moving	d4501	Walking long distances
		d4502	Walking on different surfaces
		d4503	Walking around obstacles
		d4551	Climbing
		d455	Moving around
		d460	Moving around in different locations
		d4600	Moving around in different locations at home
		d4602	Moving around outside the home and other buildings
	Moving	d4750	Driving human-powered transportation
	around using		
	transportation		
Self-care		d520	Caring for body parts
		d540	Dressing
		d570	Looking after one's health
Domestic life	Acquisition	d620	Acquisition of goods and services
	of necessities	d6200	Shopping
	Household	d640	Doing housework
	tasks	d4600	Dusting
		d6402	Cleaning living area
		d6405	Disposing of garbage
	Caring for	d650	Caring for household objects
	household	d6505	Taking care of plants, indoors and outdoors
	objects and	d660	Assisting others
	assisting		
	others		
Major life areas		d850	Remunerative employment
		d8451	Maintaining a job
Community,		d910	Community life
social and civic			
life			
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Contextual factors:	Products and		e110	Products or substances for personal consumption
environmental	technologies		e115	Products and technology for personal use in daily living
			e135	Products and technology for employment
			e150	Design, construction and building products and technology of
				buildings for public use
			e1550	General products and technology for personal use in daily living
			e155	Design, construction, and building products and technology of
				buildings for private use
	Natural		e210	Physical geography
	environment and		e210	Landforms
	humanmade		e2250	Temperature
	changes to		e240	Light
	environment			
	Support and		e310	Immediate family
	relationships		e345	Strangers
Contextual factors:		å		Being irritated
personal				Reduced balance confidence
				Loosing self-confidence
				Pushing one's limits
				Fear of falling in specific situations
				Using coping strategies (eg, asking for help, using assistive
				device, adjusting speed, looking closely on the ground, planning
				activities based on fatigue)
				Abandoning coping strategies
				Not trusting the body's ability
				Kinesiophobia
				Avoiding activities
				Choosing social isolation
				Feelings of embarrassment when falling
				Feelings of being different than others
				Feelings of incapacity
				Difficulties of accepting limitations

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		Going beyond one's capacity
		Adjusting activities

Note: Data on age, gender and activities-specific balance confidence collected at baseline.