

Rullstolar och tilläggsutrustning Effekt, upplevelser och erfarenheter samt kostnadseffektivitet, rapport 347 (2022)

## Bilaga 9 Meningsbärande enheter från kvalitativa studier/Appendix 9 Findings from qualitative research

Studie/Study	Citat/Quote
Arthanat 2012	the iBOT@ has allowed him 'back in the
	community', finds the iBOT@ effective,
	efficient, and safe for driving outdoors.
Arthanat 2012	ambassador' of the iBOT@ and takes pleasure
	in interacting with people at an eye-toeye level
	using the balance function, which was
	inconceivable in his old wheelchair. Feels that
	people are also much more engaging in
	conversations with him.
Arthanat 2012	regards the iBOT@ as an 'incredible innovation'
	and although he acknowledges that it is not for
	everyone with a mobility impairment,
	appreciates the added independence it could
	bring to a significant segment of this
	population"
Arthanat 2012	asserts that the iBOT@ is 'the next best thing to
	walking'. Its primary function was to help get
A 11 1 2012	around in the community and outdoors.
Arthanat 2012	accessibility gets better with the iBOT@' and
	prefers to use it in unfamiliar environments. it
	effectively overcomes surface barriers such as
	curbs and uneven terrain, and is well suited for
Authorist 2012	public transportation.
Arthanat 2012	particularly has to rely on the iBOT@'s balance function to enhance his reach, its 4-wheel drive
	to traverse rough terrain and overcome adverse
	weather conditions, and the small turning
	radius for maneuverability in confined spaces.
	He stated that his day-to-day activities now
	seem 'impossible' with a standard power
	wheelchair or scooter
Arthanat 2012	particular benefit with the iBOT@ with its use in
	confined spaces—'The technology opens up
	most public buildings'. The balance function
	enhanced his reach, provided better visibility
	and above all, given him the opportunity to
	engage in eye-to-eye level interactions with
	people.

Studie/Study	Citat/Quote
Arthanat 2012	visit unfamiliar environments where the iBOT@ is effective. Still finds the need to use his old power wheelchair because he can independently transfer and strap on his seatbelt unlike with the iBOT@.
Arthanat 2012	the iBOT@ has strengthened quality of life by promoting an active lifestyle, involvement in meaningful social interactions, and a way to sustain his employment.
Arthanat 2012	noted the iBOT@ to be useful in public places for extending her visibility and reach and being able to communicate with people from an eye- to-eye level. finds the four-wheel function to be effective for driving on rough terrain and snow.
Arthanat 2012	The iBOT@'s seating feels 'ergonomic' and secure . very comfortable with all basic functions of iBOT@ including driving and control. still hesitant to use the advanced features such as stair climbing and balance function.
Arthanat 2012	home is well suited for use of the iBOT@ except in the bathroom. trouble using it in confined spaces and doorways due to its broader dimensions and the protruding lights and footrest.
Arthanat 2012	One of the major concerns with iBOT@ has been its stair climbing feature. the feature too complex to operate and coordinate with an assistant. unable to use the feature as expected in unfamiliar environments due to the wide ranging variations in staircases (height, depth, angle and landing).
Arthanat 2012	going to restaurants, shopping and plays, and finds the balance function extremely helpful for maneuvering and eye-to-eye communication with iBOT@
Arthanat 2012	with iBOT@, appreciates the balance function in enhancing his reach and the seating comfort that allows him to spend the whole day in the wheelchair without having to transfer to an office chair.
Barbareschi 2020	Wheelchair users complained about the absence of wheel locks, which poses significant challenges and increases the danger of these transfers.

Studie/Study	Citat/Quote
Barbareschi 2020	Participants who performed standing transfers complained about the current design of wheelchair footplates, as they can be difficult to move and can prevent the individuals from placing their feet appropriately when transferring.
Barbareschi 2020	suggestions concerned wheelchair modifications such as retractable footplates that would not get in the way, or extendable armrests that could offer support when the person is standing up to transfer
Barbareschi 2020	low tech solutions such as telescopic or collapsible transfer boards that could be easily carried around and function as a portable tray when needed.
Barbareschi 2020	a more complex board that could deal with greater height gaps, such as a transfer board with steps or transfer boards with an embedded sliding seat that could lock in place allowing the user to break the transfer into smaller motions.
Barbareschi 2020	a motorized transfer board featuring a conveyor belt mechanism that could safely carry wheelchair users with more limited mobility.
Barbareschi 2020	a device that could be used to level all transfers by raising the height of the lower surface, a system that could keep the shoulders in a stable and safe position during transfers or a glove that could be used to increase the grip when relying on slippery supports during transfers.
Barbareschi 2020	need for resources which could help people learn how to transfer by providing suggestions, guidelines and tips for safe and efficient technique regardless of the medical condition of the individual.
Blach Rossen 2012	Battery limited the users' occupation in relation to the wheelchair, because the battery was big and heavy, thereby influencing the weight of the wheelchair.
Blach Rossen 2012	the capacity of the battery was too small. This meant that the wheelchair had to recharge for several hours every day and the user of the wheelchair had to adapt to this and be immobile during these hours every day.

Studie/Study	Citat/Quote
Blach Rossen 2012	"Some of the participants were very active and
	needed a battery that could go as far as 40 km
	on a full charge depending on the weight of the
	user, the terrain, the age of the battery, etc.
	Some participants were less active, but for
	them battery capacity was still an issue,
	because the uncertainty about when the
	battery would run out, prevented them from
	going far alone.
Blach Rossen 2012	as the battery only had a limited capacity, it
	limited the participants' aspirations and plans
	for daily occupation in accordance with their
	wishes and what gives value.
Blach Rossen 2012	The participants described being in a dilemma
	between the need of a wheelchair to do
	occupation outside, and one to manage
	occupation indoor. Choose a Class B wheelchair,
	because it made it possible for them to manage
	both indoor and outdoor. This could be a
	problem, since a Class B wheelchair often was
	not fit for such activities as sport, gardening or
	managing hindrances.
Blach Rossen 2012	outdoor activities made the wheelchair break
	down as a consequence of these activities. First
	the user had to take into consideration that the
	wheelchair was not robust enough, which might
	put a limit on those activities that they were
	taking part in. Second, when the wheelchair
	was broken the user had to wait for a long time
	for the wheelchair to be repaired
Borisoff 2018	barriers were inaccessible public
	environments
Borisoff 2018	supports related to availability of private
	accessible vehicles.
Borisoff 2018	those who discussed public transportation
	viewed it as both a support and a barrier
Bowers 2020	The first theme focused on how participants
	understood the clinical benefits (e.g., reducing
	curvature of the spine) of their prescription and
	the emphasis placed on this compared to
	functional benefits (e.g., being able to sit and
	watch television effectively
Bowers 2020	Participants identified that as well as their own
	expectations, understanding, and priorities,
	other people could impact their decisions.
Bowers 2020	For those with visible disabilities, especially
	powered wheelchair users, bodies are the
	obvious source of an individual's disability;

Studie/Study	Citat/Quote
	often being associated with incapability and limitations
Bowers 2020	An example of individuals not identifying as disabled was found in swimmers with various disabilities who noted a strong athletic identity and reported sport as being important to them
Bowers 2020	participants did not see "wheelchair user" as a distinct group. Participants instead seemed to prefer to define ways in which they affiliated to other groups, had other interests or hobbies, or were "more" than their any sort of support like, no I'm not affiliated with any of that at the moment.
Bowers 2020	some participants highlighted that the reality of using clinically prescribed features in a nonclinicalway could raise issues.
Bowers 2020	These quotes would suggest that the functional reasons were enhancing participants' daily living and could again be aligned to the TAM's perceived utility component in the experiences of power chair users. Whilst functional reasons would be a key component of clinical prescription and is positive for users, this alone may not produce clinical benefits.
Bowers 2020	While the participants do not express "dissatisfaction" per se, the difference between expectations and reality could be classified as a barrier as discussed in the HBM
Bowers 2020	This theme included several aspects of a participant's experience, all centered around what the person's expectations were of the equipment and how these compared to the reality of usage
Bowers 2020	This fitted with other participant experiences which suggested some did not fully understand the clinical benefits of the features. For Participant M, E, and J, this was associated with some confusion as to why the assistive technology was prescribed and how to best engage with the feature.
Fomiatti 2014	To explore the lived experience of individuals who used a scooter to compensate for limited mobility, a deductive approach and the ICF [14] were used as a framework to sort the data into the categories of participation, activities, personal factors and environmental factors. Three main themes emerged, namely, knowledge, engagement and challenges.

Studie/Study	Citat/Quote
Studie/Study Fomiatti 2014	Citat/QuoteWhen considering purchase of a scooter, individuals rarely sought information from more than one supplier, with only one individual receiving advice and referral from a health 
	instructions of the device such as, starting, accelerating and reversing. This resulted in many uninformed purchases of scooters, people often basing decisions on comfort alone.I had seen a couple of people with them, but that was just all. I just decided I needed one and we bought it
Fomiatti 2014	The lack of formal training and trialling, coupled with limited information resulted in some participants being dissatisfied with their purchase due to issues including resultant pain while driving, lack of adjustability of the seat and driving controls. This overall deficit in information resulted in two individuals being in potentially harmful situations, including being thrown from the scooter due to the sudden stopping and being knocked over after stepping off the scooter and leaving the key in the ignition.
Fomiatti 2014	Most participants were unaware of battery life or the correct charging procedures for batteries. Each participant indicated that the way they charged their batteries was what was recommended to them or, in the absence of information, what they thought was the appropriate care. People's practices ranged from constantly charging the batteries when not using the scooter to charging after a certain number of uses, or when battery life indicated low levels of power.
Fomiatti 2014	Participants were uncertain how far their scooter should travel on a full battery charge. Fear of running out of power and being stranded was a concern even when given an estimated travelling range. A lack of knowledge surrounding battery performance and range of distance was a common concern, with many participants stating they did not travel any further than they had to. Well we know it can go quite a way, but I'm frightened of going to

the shops and getting stuck and running out o battery I don't get very far because, I really don't know how far the battery of the scooter will allow me to go and get back again, after a you have got to get backFomiatti 2014The limited knowledge about scooter batterie severely affected the way in which participant used their scooter. Many participants restricte their use to the immediate surroundings of their residence and local community. Prior to purchasing a scooter participants displayed minimal consideration regarding how their current level of function would influence their skills and abilities to safely handle the scooter There was a strong perception that prior skills attainted through vehicle driving directly transferred over to current scooter driving ability. Reasons for ceasing driving were generally in regards to loss of licence due to accidents, near accidents or decline in skills. Participants failed to acknowledge a possible link between the decline in driving ability and
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link between the decline in driving ability and
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risks to personal safety when driving the
scooter.
Fomiatti 2014 Visible battery life indicator, speedometer and
the scooter's lack of adjustability were poor design issues raised by drivers. Only one scoot
had a visible battery life indicator and no
indicator of travelling speed. Within the current
scooters owned by the participants there was
no adjustability for seats and control systems
cater for varying levels of need and skill.
Adjustable armrests, seat height, steering
column height and distance from person are a
features mentioned by participants that would
potentially improve comfort when driving.
Fomiatti 2014 Acceleration methods varied from using just t
thumb, or using a whole hand grasp: one
participant experienced pain and discomfort
using the thumb control. These problems were
only recognised by participants post purchase
of the scooter.
Fomiatti 2014 The second theme that emerged was
engagement, including two sub-categories of
participation in activity and social interaction.
Increased choice and independence in
participation was a key outcome from using the
scooter.
Fomiatti 2014 The scooter was primarily used for shopping,
and to support engagement in a variety of oth

Studie/Study	Citat/Quote
-	activities including attending appointments,
	church, health care (doctor, chemist,
	physiotherapist), attending educational
	institutions, going for a ride, engaging in
	hobbies, going to the cinema, walking the dog,
	collecting mail and visiting family and friends.
	Well I go to the pictures at the other end of the
	shopping centre; I have been going with my
	scooter right into the theatre itself.
Fomiatti 2014	Use of the scooter was further attributed to
	maintaining community participation and
	engagement including being independent in
	their shopping, able to visit friend and engage in
	a range of leisure and social pursuits. Well I did,
	I used to use it to go down to our church; I used
	to do that only to go to craft I didn't go to
	church because they had a bus, and then I used
	to go shopping.
Fomiatti 2014	Participants all expressed improvements to
	their quality of life through enhancements to
	independence, mobility, autonomy, freedom,
	choice or convenience. Motorised mobility
	scooter user 185 Well it has given me
	independence and freedom to still keep me
	being a person, not just a part of this
	establishment. Well I can do things which I got
	past that stage of doing in mobility. Well
	sometimes I suppose the purpose is just to be
	out in the sunshine and take in the scenery.
Fomiatti 2014	Some participants considered the scooter a
	more convenient way to travel compared to
	using a car. There were fewer barriers to
	parking and less effort getting in and out of the
	scooter.
Fomiatti 2014	Participants who had previously driven
	reflected on the liberated feeling associated
	with transitioning to scooter use, which further
	led to comments about obtaining and using a
	scooter before the onset and subsequent
	decline in health from age and disability.
Fomiatti 2014	Participants revealed how the scooter allowed
	for completion of a variety of tasks throughout
	each day, including shopping, attending
	appointments, and socialising which prior to the
	scooter would have been difficult.
Fomiatti 2014	It can be inferred from this that the scooter
	further provided a means for energy
	conservation.
Fomiatti 2014	Interacting in the community was associated
	with maintaining and facilitating social

Studie/Study	Citat/Quote
	interactions. Participants considered that the
	scooter provided a catalyst for social
	engagement among people and provided a
	means to visit friends and family. People tell me
	how happy I am driving it down there and you
	make conversations, it opens a lot of
	conversations. You can just jump on it and go
	for a ride around the village you always find somebody to talk to.
Fomiatti 2014	Emerging from the data was the final theme of
	environments which can be divided into the
	sub-themes of environment barriers of the built
	environment, natural environment and
	attitudes of people.
Fomiatti 2014	Built environmental barriers were barriers to
	community mobility when using the scooter.
	Difficulties were experienced with limited
	available space to manoeuvre in shopping
	aisles, checkouts, lifts and on public transport.
	Attention was required to ensure safe transit
	and to avoid knocking into objects and walls. T
Fomiatti 2014	o combat this, participants frequented locations
	they knew provided adequate space and
	avoided peak times of the day for shopping and
	public transport use. Supermarket one I think is
	the one that is more awkward but supermarket two has a very nice wide checkout that I always
	go through and I take my scooter out the front
	and come back and pay because it helps with
	other people, it's not a hindrance to other
	people.
Fomiatti 2014	Additionally physical barriers such as uneven
	footpaths, joins in pathways, and lack of ramps
	between pathways and roads all influenced the
	driving experience.
Fomiatti 2014	Space was often an issue in retirement or
	residential aged care facilities; residents were
	faced with a lack of appropriate space for
	storage and charging. One location for storing
	the scooter was on the opposite side of the
	facility in a room which housed two other
	scooters, underneath a wall mounted air
	conditioning unit. When charging her scooter
	the participant bumped her head and had
	difficulty reaching the power socket.
Fomiatti 2014	Manoeuvring out of the room was also difficult. Discrimination in the form of the built
Fomiatti 2014	
	environment was also found in building design. One participant who resided in a retirement
	village commented about the frustration felt
	mage commented about the Hustiation fell

Studie/Study	Citat/Quote
	from the village design and the restrictions put
	in place for scooter users. When riding over the
	curbing in the village pain was felt in the limbs,
	due to the height of curbs and subsequent
	impact related to changing height levels.
Fomiatti 2014	Within the same village the participant was not
	allowed to take the scooter into indoor spaces
	such as the mail boxes, library or the pool area,
	the participant was required to park the scooter
	outside and walk in. Limitations of space were
	cited as the reason. This resulted in pain,
	difficulty and a feeling of being restricted in the
	village. In this particular incident it was noted
	by the participant that using the scooter outside the residential village in the wider community
	resulted in less difficulty and pain, due to less
	height variations in the community pathways,
	joins and curbs.
Fomiatti 2014	The natural environment posed barriers,
	including inclement weather, steep gradients
	and overgrown grass.
Fomiatti 2014	People were also an environmental barrier.
	When using the scooter in busy locations such
	as shopping centres and public transport there
	is an increased need to be vigilant and aware of
	the people around them. The public they don't
	take much notice besides what they are going
	to do and where they are going to go, so you
	have to watch; they will step out in front of you,
	walk backwards into you, do all sorts of things.
	So you have got to be very vigilant.
Fomiatti 2014	Children created a further need for vigilance as
	they were difficult to notice, often unaware of
	their surroundings and some parents or
	guardians did not control the child's behaviour or movements. A lot of mothers let the children
	run wild in the shopping centres.
Frank 2012	The themes that emerged from the interview
	data were pain in relation to sitting, the critical
	nature of the support structures of the chair,
	posture and seating, pain and discomfort when
	out and about in the EPIOC and pain relating to
	the underlying medical condition.
Frank 2012	In response to the questions posed, 55 (86%)
	users reported experiencing pain or having
	strategies for pain relief relating to sitting in
	past or present wheelchairs. Forty-three (67%)
	experienced pain using their current EPIOC.
	Eleven (17%) described their pain as severe, five
	(8%) described their pain as moderate to

Studie/Study	Citat/Quote
	severe, 27 (42%) experienced moderate pain and 21 (33%) reported experiencing no pain. There was an indication that the severity of pain increased with age with those without pain being, on average, 34 (range 11—77, SD 22) years; those with moderate pain being 40 (range 10—76, SD 22) years; those with pain between moderate to extreme being 65 (range 41—81, SD 15) years and those with extreme pain being 50 (range 29—71, SD 12) years. Only one user without pain (n = 21) had a musculoskeletal diagnosis while three with severe pain (n = 11) had such a diagnosis. Those reporting no pain had 12 users with congenital impairments or a muscular dystrophy compared to only two with severe pain.
Frank 2012	Analysis of the "in-depth" interviews indicated that 38 (59%) users described ways in which they felt their pain was influenced by their EPIOC and 19 (30%) reported pain or discomfort aggravated by sitting.
Frank 2012	An important emerging theme focused on pain in relation to the duration of sitting: "When sitting for long periods, the pain gets progressively worse" [User 4, cerebral palsy, aged 12 years].
Frank 2012	For some users, the problem was attributed to the seating system: "Gets discomfort if sits in it for more than 2 hours I don't think it can be helped. With anyone, if you're sitting in the same position, you just get up, don't you, but he can't, so we just move him" [User 54*, acquired neurological disorder, aged 61 years].
Frank 2012	Other users reported pain relief following adjustments to the EPIOC: "The back. Gets backache. This is because of his posture, leaning forward. Has had a special back rest made. [Did that help?] Yes and no. He thinks that it can be improved upon" [User 27*, cerebral palsy, aged 18 years].
Frank 2012	Several users described the critical nature of the support structures within the EPIOC: "I have a back support which helps. It does because it's higher than the last one I had and it supports my shoulders a bit more" [User 66, cerebrovascular disease, aged 47 years]. "I've got a contoured back and a jelly seat, they do help a little bit" [User 19, lower limb amputee, aged 50 years].

Studie/Study	Citat/Quote
Frank 2012	However, there were some reports of
	difficulties in obtaining a resolution with
	wheelchair adaptations: "That's why I'm getting
	a new one. They're changing the seating for
	me" [User 57, cerebral palsy, aged 18 years].
Frank 2012	In some cases, particularly for younger EPIOC
	users, these difficulties were attributed to poor
	posture: "Her posture is very bad. She almost
	sits at between 45 and 60 degrees. So she's
	uncomfortable and she's got aches and pains
	Because of her posture, she's not sitting that
	well. In her lower back she's got more pain
	because she's sitting so far forward . they
	ordered a different kind of tray for more
	support for her arms" [User 48*, muscular
	dystrophy, aged 14 years].
Frank 2012	Despite the diffculties, 16 (25%) users
	commented on reduced pain and discomfort
	with EPIOC use. "Ihese users appeared very
	satisfied with both their EPIOC and the service
	provided: "With this new chair, I have no pain.
	This latest chair is really great because it's
	padded and it's very comfortableI don't get
	bruised, sore and my back doesn't hurt so
	muchl can sit up better. Of course I'm
	deteriorating all the time. I just wish I had this
	chair years and years ago. I could have done an
	awful lot more". [User 3(), multiple sclerosis,
	aged 69 years].
Frank 2012	Several users described how seemingly trivial
	changes in wheelchair adaptations affected
	their pain experience: "The foot rests do need
	careful positioning if everything's going to be
	reasonably comfortable. It has been adjusted"
	[User 73, cerebrovascular disease, aged 81
	years].
Frank 2012	Seventeen (27%) commented on the use of
	cushions, padding and gel seats, many
	commenting on the difficulty in finding the right
	cushion for them: "For a long, long while I was
	very uncomfortable because they couldn't get
	the right cushion for me. They tried every
	cushion going. But now they've found one"
	[User 39, acquired neurological condition, aged
	39 years].
Frank 2012	For others, finding the most comfortable
-	solution for their wheelchair comfort involved
	more complex cushion adaptations: "I've got a
	cushion because I'm bony. Gets sore after a

Studie/Study	Citat/Quote
	on my left side, the weak side. I lean on the elbow, so I've had the arm rest cushioned to help with this" [User 26, multiple sclerosis, aged 42 years].
Frank 2012	For a small number of users, obtaining the correct cushion was vital in the prevention of pressure sores. "I've got one of those I call them cushions with the tea bag in because that's what they look like. They build me up, one side. It does help and it stops you getting sores as well" [User 53, multiple sclerosis, aged 63 years].
Frank 2012	The final emergent theme was that of pain and discomfort caused by users being out and about in the EPIOCs and dealing with environmental hazards: "It jolts me around. It makes it worse. Environment outside, it's a bit uncomfortable — suspension wise. Because I've got the osteoarthritis" [User 33, multiple sclerosis, aged 44 years].
Frank 2012	The jolting associated with kerbs and pavement potholes was not helped by the earlier designs of EPIOCs: "There's no suspension on them. It's just a solid frame 'boomp' and you're down" [User 19, lower limb amputee, aged 50 years].
Frank 2012	One user gave a graphic account of his experience: "Sometimes I get more pain when I'm going up kerbs. Especially if I jolt or if there's a bumpy pavement and there's a lot of those and I just get a jolting through my back because there's no suspension on a wheelchair so it just travels straight up my back" [User 17, cerebrovascular disease, aged 64 years].
Frank 2012	Pain relating to the underlying medical condition
Frank 2012	Fifteen users made miscellaneous comments relating to their pain, of which five users specifically commented that the pain related to their underlying illness rather than wheelchairrelated issues, although one of the five was not certain, and two users also specifically commented on aggravation of their pain in cold or damp weather: "It actually gives me more freedom because my disease itself, rheumatoid arthritis, that stops me doing everything near enough. I don't even like being parted from it in hospital" [User 70, rheumatoid arthritis, aged 54 years]. "The weather is another factor. If it's cold, I have more pain" [User 33, multiple sclerosis, aged 44 years]).

Studie/Study	Citat/Quote
Frank 2012	Strategies for pain relief
Frank 2012	In response to queries, 45 (70%) users reported a strategy for pain relief. The strategies used
	comprised two main categories: first, strategies that involved the wheelchair user carrying out actions of their own volition that ameliorated
	their pain and discomfort and
Frank 2012	second, strategies related to the need for adjustments to the wheelchair or its constituent parts which were the responsibility of the wheelchair service.
Frank 2012	The most frequently used self-help strategy was use ofanalgesia, which was reported by 30 (47%) users. Most of the users taking analgesics did not specify the nature of the analgesics, although four were taking codeine preparations
	and one user took Tramadol. Some users reported taking muscle relaxants and antispasticity medication. A minority took two or three different preparations.
Frank 2012	Other self-help strategies included changing position in their chair [User 54], getting out ofthe chair [User 3] and doing exercise and/or physiotherapy which were each reported by 8 (13%). Some typical quotes are as follows: "Takes a paracetamol. Does stretching exercises at school [User 25*, muscular dystrophy, aged 14 years].
Frank 2012	I have to keep on the move, changing positions and that sort of thing. Not that the chair is uncomfortable, it's just me. I like to keep moving all the time [User 53, multiple sclerosis,
Geisbreicht 2011	aged 63 years]. Participants were open to exploring alternatives to their existing wheelchairs
Geisbreicht 2011	Most indicated a sense of excitement or curiosity about exploring a new option for mobility and what impact it might have on occupational engagement in their community:
Geisbreicht 2011	" the PPW [pushrim-activated power-assisted wheelchair]provided a more enjoyable experience than their power wheelchair, articulating it was more than just a form of transportation from one point to another; it allowed them to interact with their world to a greater degree."
Geisbreicht 2011	"it [PPW] allowed them to interact with their world to a greater degree."
Geisbreicht 2011	the PPW provided a sense of accomplishment in performing occupations— that they were

Studie/Study	Citat/Quote
	contributing to the experience, even if it was
	not as expedient as using the power chair.
Geisbreicht 2011	the PPW might reduce or eliminate this need
	for assistance.
Geisbreicht 2011	The potential capacity for increased autonomy
Geisbreicht 2011	the PPW was much easier to push than their
	manual chairs, allowing them to go faster and
	further.
Geisbreicht 2011	able to propel the PPW at a sufficient speed to
	keep up with colleagues and friends who were
	walking
Geisbreicht 2011	" increase their level of community mobility
	and access new environments compared with
	using their manual chair
Geisbreicht 2011	"managing inclines/ramps was identified as
	an important achievement, as well as propelling
	over softer surfaces, such as grass and carpet."
Geisbreicht 2011	" the PPW still required some degree of upper
	extremity strength to operate and could prove
	fatiguing"
Geisbreicht 2011	"they identified difficulty coordinating pushes
	of equal force on each wheel, which resulted in
	the PPW turning or moving erratically."
Geisbreicht 2011	during braking and when negotiating a
	decline, and raised concerns about safety in a
	community setting
Geisbreicht 2011	"concerned about the length of battery
	charge"
Geisbreicht 2011	"difficulty managing some features of the
	PPW, such as inserting/removing batteries"
Gudgeon 2015	Three overarching themes were present in all
	nine interviews, and the first theme was
	"working to achieve an adequate fit between the self, the EPIOC and the environment"
Gudgeon 2015	and this had two subthemes — "integrating the
Gudgeon 2015	self and the EPIOC"
Gudgeon 2015	"working to achieve an adequate fit between
Sungcon 2013	the integrated self/EPIOC and the
	environment".
Gudgeon 2015	From the children's accounts it appeared that
	using an EPIOC was an experience which
	required active involvement from themselves
Gudgeon 2015	as they worked to balance, or achieve an
U	adequate fit, between their own abilities,
	desires and needs; those of their parents and
	friends
Cudesex 2015	the demands of the environment and the
Gudgeon 2015	the defination of the environment and the

Studie/Study	Citat/Quote
Gudgeon 2015	When this was achieved the experience of being an EPIOC user was positive. This experience is reflected in the second
	overarching theme "experiencing positive consequences of being an EPIOC user".
Gudgeon 2015	However when there was a mismatch the experience became negative resulting in the third overarching theme "experiencing negative consequences of being an EPIOC user".
Gudgeon 2015	For most children there was a continual, and individual, interplay between the elements resulting in them experiencing a fluid mix of the positive and negative consequences of using an EPIOC.
Gudgeon 2015	Working to achieve an adequate fit between the self, the EPIOC and the environment
Gudgeon 2015	The children perceived that the "self" that existed before they had an EPIOC did not adequately fit the environment, and hence they were prevented from fulfilling their needs and desires.
Gudgeon 2015	In contrast using an EPIOC was seen as allowing a new self to emerge, one that integrated their body and EPIOC.
Gudgeon 2015	This was particularly illustrated by the way some of the children used verbs commonly used to describe ambulatory movement to describe their movement in the EPIOC. They described how they went for "walks", or "stood" around in their chair.
Gudgeon 2015	Rosie demonstrated how she viewed the EPIOC as being integrated with her body in her use of the pronoun "I" as she explained how she negotiated her home environment:
Gudgeon 2015	However, for this integration to be achieved the children emphasised a requirement for the EPIOC to fit their individual needs in relation to speed, comfort and appearance.
Gudgeon 2015	Gaining adequate control of their EPIOC also appeared to be a vitally important element of achieving an integrated self/EPIOC.
Gudgeon 2015	The children demonstrated the active element of the experience by describing how they personally learnt to control the EPIOC as Farrah explained: You've got to do it yourself it's like you've got to let them get used to it [pause] cos as soon as you're used to it it's fine but [pause] it's just like otherwise you're just either zooming forward and then you can't stop it [pause] but you can't really write down how to

Studie/Study	Citat/Quote
	do it because [pause] you've just gotta [pause]
	It depends on yourself.
Gudgeon 2015	The children were not only involved in an active
	process of integrating self and the EPIOC they
	also had to actively work to manage this new
	integrated self within the physical and social
	environments in which they found themselves.
	Negotiating the physical environment was a particularly important part of the children's
	experiences.
Gudgeon 2015	It appeared that the experience of achieving an
	adequate fit between the integrated self/EPIOC
	and environment was continual and decisions
	were made based on how they perceived the
	integrated self/EPIOC best fitted the available
	space. Matthew explained how: It depends, say
	err if it's like a test and there's a massive space
	I'll probably go in it [stay in the EPIOC] but
	usually like there's big classrooms and small
	classrooms but say it's a small one I'll just
	maybe like drive into the doorway and leave it
Cudator 2015	there. Many of the children's accounts revealed that
Gudgeon 2015	they felt safe and secure in environments
	where they were able to manage the EPIOC
	well. This was frequently in buildings such as
	schools, colleges or large shopping centres
	which were characterised as being adapted
	buildings with relatively large open spaces
	inhabited by supportive others.
Gudgeon 2015	However, in other environments the children
	had very different experiences to the extent
	that some children appeared to find themselves
	facing a transformed physical world where features previously accessible to them were
	now problematic as Matthew described: cos
	there's like buses that come up ere [] like
	they've got a bar on them and they're right in
	the middle of the door so you can get on them,
	like you can get on them with a manual chair,
	but you can't get on them in an electric one cos
	its a lot, a lot wider.
Gudgeon 2015	The difficulties which arose were not simply
	barriers in the physical environment but
	problems of fit between the individual child, the
	EPIOC and the environment. For example, for
	some children kerbs were barriers but for
	others they were not seen as being problematic
	and characteristics such as gender or age did not appear to influence these perceptions.
	not appear to innuence these perceptions.

Studie/Study	Citat/Quote
Gudgeon 2015	Actively achieving an adequate fit between the integrated self/ EPIOC and the environment involved careful planning of the routes they
	could take which also needed to take account of the battery range, which is limited by speed
	and distance travelled, as Matthew explained: You gotta judge it, you know what I mean like go, what speed I've gotta go but like I gotta
0.4	think of the time as well
Gudgeon 2015	A common strategy employed by the young people to obtain a good fit was one of avoidance of using the EPIOC in certain environments as explained by Farrah: I don't choose to go in it when I go outside like on kerbs and stuff in case of it skidding
Gudgeon 2015	The children's accounts revealed how they found managing the fit between the self/EPIOC and other people within the environment especially difficult to manage. Indeed other people could act as barriers, Liam described how one train conductor repeatedly refused to allow him to board a train in his EPIOC and Rocky explained how another child had caused a crash: Sometimes people touch it cos there was somebody called Oscar and he drove my chair once he made me go head first into the wall, head forwards
Gudgeon 2015	While several of the children explained how they actively tried to avoid other people they were frequently unable to do so which Farrah highlighted: I know I was trying to be careful but it just, I just every time I ran over their foot they'd say 'Be careful!' I tried to but I really didn't think anything of it because they said it to me that many times I already knew.
Gudgeon 2015	These experiences were distressing with some children describing incidents where they felt that people had tried to deliberately harm them despite their attempts to safely negotiate the environment by following social rules such as using pedestrian crossings. David described his experience: I was trying to cross at the lights once and someone tried to run me over.
Gudgeon 2015	Conversely others could be supportive and this was particularly true of family, friends and teachers who encouraged the children, opened doors, accompanied and assisted them in negotiating roads and transport. Some children did describe going out completely alone at

Studie/Study	Citat/Quote
	times but many required continual support
	from adults or peers.
Gudgeon 2015	Experiencing positive consequences of being an
	EPIOC user
Gudgeon 2015	For many of the children the most important
	consequence of them achieving a good fit
	between themselves, their EPIOC and their
	environment was improved social participation.
	The children used their chairs in everyday life at
	school, to go shopping, to go out with friends and to take part in games and sports. Optimus
	described how he participated in games of tag
	with friends: I stop and then I reverse back so
	they go forward and then, so I can go behind
	then and, errm, cheat.
Gudgeon 2015	Hector described how the EPIOC itself became
	the focus of pleasurable experiences with
	others, such as an occasion when one of his
	teaching assistants ' 'hitched" a ride on the
	back. Farrah recalled stories of how she and a
	friend had enjoyed races in their EPIOCs.
	Several of the children recounted stories of
	enjoying occasions when other members of the
	family had tried their EPIOC and discovered the
	difficulties in controlling it. This gave the
	children a feeling of superiority enhancing their self-esteem.
Gudgeon 2015	One recurrent phrase the children used was
	"keeping up". Although they meant this literally,
	it was also evident that using an EPIOC enabled
	a psychological "keeping up" by allowing them
	to participate more fully in their social group
	which was valued. Related to this was a gain in
	independence. For Matthew a gain in
	independence was highly valued as it meant he
	was able to be with his peers rather than adults:
	if I wanna go like town with my mates Mam can
	just go and sit and have a cuppa somewhere [ . ] and I can wander off for like half an hour or
	so
Gudgeon 2015	Even small gains in independence were valued
	as Farrah described: I can get like paper and
	stuff from like the tables and get pencils and I
	can (pause) I don't know how to put it, it's like I
	don't have to like wait for them and I can get
	there at my own speed
Gudgeon 2015	The children also perceived that these gains in
	independence were beneficial in reducing the
	need for others to help them. In fact Farrah
	indicated that this was her main reason for

Studie/Study	Citat/Quote
	using her EPIOC: It's a lot easier for other
	people, that when I'm at college that I stay in
	my electric chair so I can like go places.
Gudgeon 2015	Enjoying movement for its own sake was also
	important, particularly for some of the boys
	who both described and demonstrated their
	enjoyment of the sensation of movement and
	speed. Glen was typical in constantly moving
	around when in his chair and saying he would
	recommend an EPIOC to a friend as: They would
	like the speed[and] moving it around
Gudgeon 2015	Experiencing negative consequences of being
	an EPIOC user
Gudgeon 2015	When children perceived there was an
	unsatisfactory fit between them, the EPIOC and
	the environment they all described
	experiencing negative consequences. While an
	EPIOC could enable participation it could
	conversely block participation, limit choices and
	cause separation. Farrah explained how her
	EPIOC's size made it difficult for her to join a
	queue in a cafeteria so her friend would order
	and collect the food for her instead: it's because
	I'd just be, I'd just take ages and plus because
	I'm in my wheelchair it's like bigger and then
	people have to squeeze past me and stuff
	[pause] so it's just easier if my friend does it for
	me and so and people can still get past
Gudgeon 2015	The lack of fit between the EPIOC and the
-	physical environment also limited their spatial
	choices with the result that some children lived
	in a fairly narrow geographical space. Whilst
	having an EPIOC enabled Matthew to
	participate in shopping with his mother, his
	choice of shops was limited as he explained: We
	had to go like Debenhams nearly every day
	[during the holidays] cos that was like the only
	spot where you could get in
Gudgeon 2015	These limitations were exacerbated by poor
Gudgeon 2015	These limitations were exacerbated by poor access to transport which the children felt
Gudgeon 2015	
Gudgeon 2015	access to transport which the children felt
Gudgeon 2015	access to transport which the children felt unable to actively overcome. Even transport
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	access to transport which the children felt unable to actively overcome. Even transport designed to accommodate wheelchairs could be inadequate and two of the boys described having their options of attending after-school clubs limited by the inflexibility of suitable transport which they felt was out of their control.
Gudgeon 2015 Gudgeon 2015	access to transport which the children felt unable to actively overcome. Even transport designed to accommodate wheelchairs could be inadequate and two of the boys described having their options of attending after-school clubs limited by the inflexibility of suitable transport which they felt was out of their

Studie/Study	Citat/Quote
-	potential of physical harm. Some described
	injuring themselves and damaging the
	environment (for example, hitting a doorframe
	or wall while negotiating a confined space).
	Others described more serious harm. In this
	extract, Optimus explains harm was caused due
	to a problem in the integration of the self and
	EPIOC: Erm I crushed Oliver and Elliot at school
	once because my arm got stuck and then I flied
	forward into them.
Gudgeon 2015	Some children described experiencing fear and
	anxiety when attempting to negotiate physical
	obstacles which Rosie demonstrates here in her
	description of getting into the car: then dad
	presses this button and it winches me up, and it
	is so, it can be very scary.
Gudgeon 2015	he fear was so great for Farrah that she was
	only able to use her EPIOC outside when she
	had the support of friends to help her: I just
	said 'I'm not doing this on me own' because if it
	skids I'm gonna be really scared
Gudgeon 2015	The actions of other people could also lead to
	feelings of anger and frustration due to their
	inconsiderate or deliberate actions: Matthew:
	'you feel quite frustrated you're just sitting
	there and next minute this person walks right in
	front of you [. like 'Did you not see me sat
	there?' you know what I mean, it's frustrating'
Gudgeon 2015	Liam was particularly frustrated and upset at
	the time of the interview as he had been unable
	to go on the bus to swimming with his
	classmates as his EPIOC could not be
	transported and he described the whole
	experience as "crap". This was a young person with a deteriorating condition and for him it
	appeared that his EPIOC had become a symbol
	of his disability.
Hughos 2010	" wheelchair as an aid to better QoL and pain
Hughes 2019	management.
Hughes 2019	it enabled independence and mobility that
Tugnes 2015	distracted her from pain.
Hughes 2019	wheelchair as a force that repelled others,
	causing her further pain
Hughes 2019	The wheelchair in these instances was viewed a
	barrier to a good QoL by denying
	independence,
Hughes 2019	Complaints regarding wheelchairs included
	problems navigating home environments,
	sleeping in separate rooms from partners and
	difficulties with basic personal care. These were
	annealties with basic personal care. These were

Studie/Study	Citat/Quote
	all a source of frustration, pain and sometimes
	embarrassment
Hughes 2019	The participants saw the use of wheelchairs as
	contributing to the experience of their pain as
	much as its management
Krants 2017	"somewhere in the city there is always a
	hindrance"
Krants 2017	"At home I never think of it"
Krants 2017	The environment affects the experience as a
	reminder of differentness.
Krants 2017	a will to not live their lives based on lacking
	accessibility.
Krants 2017	the environment renders certain activities less
	prioritised due to an excluding construction.
Krants 2017	using one's energy in activities perceived as
	more important.
Krants 2017	a fight in order to learn to do anything
Krants 2017	a process of learning not to care; even though
	you, deep down, recognise that you do
Krants 2017	find a spouse
Krants 2017	"it is difficult to compete fully" (om att träffa
	partner)
Krants 2017	"everyone looks at you, like 'nice to have
	people like you here' " (tex i en bar)
Krants 2017	"everything takes more energy" (om att åldras)
Krants 2017	Getting older implies a need of preserving one's
	energy
Krants 2017	The electric wheelchair implied passivity and a
	physical capitulation,
Krants 2017	a process of choosing one's battles
Krants 2017	An electric wheelchair can be a rational choice
Krants 2017	choice between a manual and an electric
	wheelchair can be based on physical and social
	factors
Krants 2017	Personal attitudes towards electric wheelchairs
	can also be quite emotional
Krants 2017	the assistive device a mere means of the
	activity.
Krants 2017	wheelchair power" is used in the dual sense of
	both personal agency and being one's own
Kranta 2017	source of power
Krants 2017	I need to preserve my shoulders and arms for the rest of my life" (
Krants 2017	dissonance emerges between the user's agency
	and the ability ascribed by normates, in turn
	increasing stigmatisation.
Krants 2017	to be offered assistance in just about any
	situation or activity.
Krants 2017	"say 'thanks, but no thanks'"
	כמי נוומווגי, סער ווס נוומווגי

Studie/Study	Citat/Quote
Krants 2017	To answer even quite unnecessary questions with a polite smile is expressed as an obligation
Krants 2017	being a representative of other persons using wheelchairs.
Krants 2017	"Every question is a reminder of me being in a wheelchair, being different"
Krants 2017	"I just say that if there is something I actually need a hand with I will tell you"
Krants 2017	role of a teacher
Krants 2017	" I think of those questions like almost lack of respect"
Krants 2017	others making attempts to anticipate obstacles
Krants 2017	"over-attentiveness" and occurs when someone perceives a disabling attribute as significantly more hindering than is actually the case
Krants 2017	'everybody is staring at us'
Krants 2017	, staring may be an obvious reaction among normates
Krants 2017	. The person in the wheelchair could "take command"
Krants 2017	clarifying that there is no need for special treatment
Mandy 2011	all the users and the carer identified that the NUW afforded greater independence
Mandy 2011	freedom from haviong to wait för someone to propel them
Mandy 2011	" I am abel to take myself to the bathroom when I need"
Mandy 2011	"freedom"
Mandy 2011	ease of use and manouverability
Mandy 2011	"a great improvement over standard wheelchairs"
Mandy 2011	"it is easy and intuitive to drive"
Mandy 2011	users had underestimated the usefulness and value of the NUW
Mandy 2011	NUW resulted in changes in their daily routines
Mandy 2011	"could take himself to the diningroom and not be exhausted"
Mandy 2011	" I can take part in after lunch activities"
Mandy 2011	All agreed they had been more active and enjoyed using the NUW because of its ease of use
Mattie 2020	Functional benefits were primarily related to three main areas: reach, positioning and transfers.
Mattie 2020	on-the-fly adjustments extended their reach, allowing them to independently access high locations that would otherwise be out of range

Studie/Study	Citat/Quote
Mattie 2020	putting the wheelchair into dump (i.e., posterior tilt, with the rear of the seat lower than the front) facilitated picking things up from
Mattie 2020	the ground adjustment features provided participants with the flexibility to vary their seated position and wheeling posture
Mattie 2020	the posterior tilt position put them in a more "powerful" wheeling position and positively impacted feelings of safety and stability.
Mattie 2020	backrest adjustments to facilitate wheeling on hills
Mattie 2020	adjustments facilitated transfers to and from the wheelchair
Mattie 2020	height adjustment feature to facilitate transfers into a vehicle.
Mattie 2020	some noted that they preferred the seat to be in neutral (or a little dump) in order to transfer back into the wheelchair.
Mattie 2020	a couple of times he needed assistance to lower the seat height prior to transferring back in
Mattie 2020	The functional benefits of reach, positioning and transfers positively impacted how users participated in a range of activities both at home and in the community
Mattie 2020	being able to adjust her seat height gave her flexibility when doing errands,
Mattie 2020	impact of on-the-fly adjustments for a range of leisure activities
Mattie 2020	back rest adjustments allowed them to position themselves to play music (e.g., to hold a guitar
Mattie 2020	benefits for sport and fitness activities
Mattie 2020	using the adjustment features to position themselves in more powerful/ accurate sporting positions for activities
Mattie 2020	Benefits of on-the-fly adjustments were also noted in the work place
Mattie 2020	adjustments to position themselves at different table heights
Mattie 2020	the extra reach gave them greater access to things in the office
Mattie 2020	comfort, convenience and usability
Mattie 2020	varied their seating position to optimize comfort according to their unique needs and/or different situations
Mattie 2020	they did not need to remain "stuck" in one position.
Mattie 2020	appreciating both the flexibility to change positions for different activities, and the

Studie/Study	Citat/Quote
	convenience of being able to quickly and easily
	make these adjustments whenever they wanted
Mattie 2020	many talked about reclining their backrests
	(e.g., to make it "feel like a lounged
Mattie 2020	described the importance of even small
	adjustments
Mattie 2020	sometimes felt unstable in the fully elevated
	position
Mattie 2020	the MWSUA's adjustment features were easy to
	use
Mattie 2020	"quick to learn" and "instinctual."
Mattie 2020	When discussing the frequency of making
	adjustments and the positions they used,
	participant comments were varied
Mattie 2020	"it became a habit'
Mattie 2020	Participants discussed a number of perceived
	benefits to physical health.
Mattie 2020	positive impact on skin integrity, attributed not
	only to their ability to change position, but also
	to the reduction of perspiration
Mattie 2020	perceived benefits related to managing spasms
	and tone.
Mattie 2020	"It gave me flexibility and comfort to change my
	positions and help manage my spasms"
Mattie 2020	"Just having that little bit of adjustment to play
	with made a big difference. I didn't go to bed in
	pain every night"
Mattie 2020	Other perceived benefits included improving
	posture, and counter-acting mobility loss due to
	aging
Mattie 2020	Benefits to psychosocial well-being
Mattie 2020	the advantages of being closer to eye level for
	conversations.
Mattie 2020	the positive impact MWSUA had on
	communication
Mattie 2020	reduced neck strain and also allowed them to
	project and hear better
Pettersson 2014	Even though the participants used different
	types of PMDs they had many experiences in
	common
Pettersson 2014	having a PMD was described as something very
	beneficial
Pettersson 2014	the participants struggled for independence
	and tried to overcome accessibility problems.
Pettersson 2014	described their use of the PMD as a complex
	matter that involved their everyday
	occupations, themselves as a person, and the
	context where the occupation took place.
	context where the occupation took place.

Studie/Study	Citat/Quote
Pettersson 2014	struggling to include the PMD as part of
	everyday occupations
Pettersson 2014	struggling to operate the PMD
Pettersson 2014	participants discussed the transition from using
	a manual wheelchair to becoming an
	independent PMD user in everyday occupations
Pettersson 2014	described how relations to other people
	sometimes were difficult, and how they also
	struggled to operate their device.
Pettersson 2014	The men who used PWS discussed how at first
	they did not want to have PWs and leave their
	manual wheelchairs, since they saw it as a sign
	of failure and of decline
Pettersson 2014	Their own reflections were that they had been
	stubborn and had wanted to manage everyday occupations without a PW, and how they had
	struggled before they had come to realize that
	they should have had it earlier.
Pettersson 2014	The women who used PWS did not mention
	that they should have had the PW earlier, but
	described how they struggled with getting used
	to using it among other people.
Pettersson 2014	They felt they were being stared at when they
	drove their PW for the first time, and they had
	to force themselves to go outside using the PW
Pettersson 2014	Now, they said their PW had become a part of
	them in managing their everyday occupations.
Pettersson 2014	The PW users of both genders expressed how
	they wished that the occupational therapist had
	facilitated the process of accepting the device,
	for example by demonstrating the
	opportunities and advantages of using a PW.
Pettersson 2014	All participants explained that their use of a
	PMD gave them freedom that enabled them to
Pettersson 2014	be active and independent. All PS users discussed how they appreciated
Pettersson 2014	that they could get out, getting fresh air and
	having a look around.
Pettersson 2014	PW users of both genders described that from
	the time they received their PWS they were no
	longer in need of home care or relatives, and
	were now able to engage in everyday
	occupations independently.
Pettersson 2014	Using a PW was expressed as a prerequisite for
	being able to manage everyday occupations
Pettersson 2014	Receiving help from other people was also
	discussed across all focus groups and, in
	general, people are kind and help when they
	are asked to

Studie/Study	Citat/Quote
Pettersson 2014	the women did not like it when people offered
	help when it was not needed.
Pettersson 2014	participants experienced that other people did
	not speak directly to them, but instead turned
	to the person who accompanied them, who was
	not a PMD user This was particularly
	emphasized among the women who had only
	used their PS for a short period
Pettersson 2014	participants described how they struggled to
	handle different parts and functions of their
	PMDs.
Pettersson 2014	They expressed that they often thought about
	how far they could drive
Pettersson 2014	The women who used PSS stressed that they
	got nervous of staring at the meter whereas, in
	contrast, the women who used PWS expressed
Datterra an 2014	the importance of having a meter.
Pettersson 2014	Another issue that was discussed in relation to
Pettersson 2014	operating the PMD was safety issues The men who used PWS said that they were
Pettersson 2014	aware of the importance of using turn signals
	and lights on the PWs, but they did not always
	use them
Pettersson 2014	They found it too complicated, since they had
	to handle several functions at the same time,
	and with the same hand
Pettersson 2014	The importance of being aware of risks and
	problems when driving PWs among others was
	also emphasized.
Pettersson 2014	The men who used PSS described how they
	altered their driving depending on the
	circumstances in the environment, for example
	by changing their speed.
Pettersson 2014	The women who used PSS described that they
	were aware of the risk of having the PS stolen,
	and therefore they never left them, for example
	outside a shop
Pettersson 2014	The women who used PWS also described their
	strategies for operating their PWs, and gave
	examples of how they avoided crowds and had
	bought reflective vests and flags to ensure that
Dottorson 2014	they were visible in traffic.
Pettersson 2014	having appropriate provision and service
Pottorsson 2014	delivery of PMDs is a necessity having appropriate housing adaptation to
Pettersson 2014	facilitate PMD use is crucial
Pettersson 2014	participants discussed the provision process and
	their different needs in relation to when the
	PMD was provided

Studie/Study	Citat/Quote
Pettersson 2014	shared experiences in relation to the possibility
	of receiving housing adaptations that
	corresponded to using a PMD according to
	individual needs.
Pettersson 2014	focus groups discussed the PMD service
	delivery process (acquisition, training, and
	maintenance of the device received), and the
	importance of receiving the correct type of
	PMD in relation to their individual needs.
Pettersson 2014	The participants discussed difficulties with
	driving during cold as well as rainy weather, and
	as a consequence they used their devices less
	during the winter.
Pettersson 2014	The women who used PWS emphasized the
	need to have more than one PW to manage
	everyday occupations.
Pettersson 2014	they said they needed one PW for outdoor use,
	and one smaller device indoors to manage
	kitchen occupations, but since they were only
	allowed one device they had choose to
	prioritize a PW for outdoor use
Pettersson 2014	Some of the women had managed to receive
	two devices, whereas others said their struggle
	to have the occupational therapist understand
	their needs had been unsuccessful.
Pettersson 2014	Among the PS users, the discussions were
	focused on the type of PS models that were
	available for acquisition, and how it sometimes
	was difficult to get the appropriate type of PS,
	for example a device that could manage rough
	terrain in the forest or at the seaside.
Pettersson 2014	Another issue mentioned was the specified
	driving time demand of 20 hours per year
Pettersson 2014	discussed among the two focus groups with
	women, where users of PWS and PSS had
	different opinions
Pettersson 2014	PS users found it stressful to achieve the
	required driving time, whereas the PW users
	felt that this was not a problem at all
Pettersson 2014	if you do not need a PW, you do not ask for
	one, and if you really need a PW, then you use
	it
Pettersson 2014	discussed the training in PMD driving that they
	received in the service delivery process,
	especially the men who used PSS
Pettersson 2014	shared the feeling that they sometimes lacked
	enough training when they received their PSS,
	whereas this was not discussed at all among the
	women

Studie/Study	Citat/Quote
Pettersson 2014	Another aspect discussed among all the PW
	users was repairs
Pettersson 2014	they were satisfied with the repairs they
	received but also concerned since repairs were
	not available during weekends.
Pettersson 2014	they were completely dependent on their PWs,
	they were worried they would not be able to
	manage their everyday life if no repair services
	were available.
Pettersson 2014	Having the appropriate housing adaptation to
	facilitate PMD use is crucial
Pettersson 2014	discussed the possibility ofreceiving housing
	adaptations that would facilitate PMD use
Pettersson 2014	Among the PW users, some participants had
	positive experiences, while others were more
	negative
Pettersson 2014	PW users discussed how they had received
	housing adaptations mainly indoors in their
	dwellings, and that housing adaptations are
Detterrer 2014	pivotal
Pettersson 2014	The women who used PWs emphasized that the
	possibility of getting a housing adaptation differs depending on which municipality you
	live in, which they argued was not acceptable.
Pettersson 2014	the PS users discussed housing adaptations
	outdoors
Pettersson 2014	The men stressed that they should not have the
	responsibility to arrange for storage, and
	argued that a housing adaptation, paid for by
	the municipality, should be a prerequisite when
	a PS is provided.
Pettersson 2014	The women who used PSS expressed how
	housing adaptations for storage had taken a
	long time to process, and consequently they
	had to wait to receive their devices.
Pettersson 2014	They discussed how occupational therapists and
	administrators in the municipalities have a
	shared responsibility for housing adaptations,
	but they did not collaborate very efficiently.
Pettersson 2014	this process and the collaboration between the
	different people involved must be improved
Pettersson 2014	P 11: "the Region [the authorities responsible
	for PS acquisition] kept on asking [me] all the
	time [about how the housing adaptation was
	proceeding] but I just wanted them to contact
	the municipality Unfortunately the same
	thing happened with the housing adaptation, it
	took such a long time, so finally we did it by
	ourselves but it is you have the right to have [a

Studie/Study	Citat/Quote
	housing adaptation] but it [the decision process
	of housing adaptation] does not work
Pettersson 2014	'There should have been collaboration between
	the municipality [and the Region] then it would
	have been easy".
Pettersson 2014	P I I: "it would have been the same [authorities]
	who [were responsible for] both [the PS
	acquisition and the housing adaptation] ". P 10:
	"Yes, the PS and the storage". (Focus group:
	women PSS)
Pettersson 2014	experiencing insufficient accessibility in public
D	environments
Pettersson 2014	experiencing insufficient accessibility when
Pettersson 2014	transporting and travelling with the PMD participants discussed accessibility problems
	related to the PMDs, and current policies and
	standards for accessibility in society
Pettersson 2014	described challenges in relation to travelling
	with the PMD as well as transporting the
	device, e.g. driving the PMD.
Pettersson 2014	, the participants experienced accessibility
	problems in public buildings such as libraries
	and shops.
Pettersson 2014	men who used PW complained that the toilets
	in public buildings were constructed for manual
	wheelchair users, and not accessible for those
	using PWs.
Pettersson 2014	women expressed that they felt excluded since
	they do not have access to public environments.
Pettersson 2014	exclusion, expressed among PW users of both
Pettersson 2014	genders, was that they sometimes could not
	access their friends' dwellings due to stairs and
	lack of accessible toilets, and as a consequence
	they found it difficult to maintain their social
	network.
Pettersson 2014	gave examples of insufficient space for the
	PMD, for example, they described how lifts in
	public buildings were too narrow, and also had
	insufficient space outside.
Pettersson 2014	men also claimed that most of the accessible
	parking spaces often have sufficient space for
	manual wheelchairs but not for PMDs.
Pettersson 2014	that shopping centres and newly built shops
	were accessible for PMDs, while the women
	who used PSS expressed how they felt limited
	to boring shopping centres, arguing that all buildings should be accessible to PMD users.
Pettersson 2014	the participants emphasized the importance for
	occupational therapists, municipality
	occupational therapists, municipality

Studie/Study	Citat/Quote
	administrators, politicians and the general public to gain knowledge about accessibility,
	not only in relation to manual wheelchairs but also in relation to PMDs.
Pettersson 2014	that was described was how ramps installed at
Detterreer 2014	shops were not always accessible for PW users:
Pettersson 2014	P 1: "a metal ramp that they put over the stairs and it feels extremely dangerous since you have
	to go straight up".
Pettersson 2014	"P 4: ""Sometimes they have those tracks, but
	it's impossible to drive the PW on them [the
	two parallel tracks] because they should have
	an entire metal ramp"".
Pettersson 2014	P 5: ""Yes, yes"".
Pettersson 2014	P 4: ""Then it's no problem""."
Pettersson 2014	P 2: "Well, parallel tracks, often they are very happy that they [shop-owners] have those
	tracks because they feel they have done
	something to help [facilitate accessibility] ".
	(Focus group: women pws)
Pettersson 2014	the men who used PWS elucidated how they
	had informed politicians, media, and others
	about their needs.
Pettersson 2014	who used PWS emphasized that occupational
	therapists and PW users have valuable knowledge about accessibility for PWs, and
	should be involved whenever new buildings are
	being planned, and to plan for accessibility in
	society at large
Pettersson 2014	if the different actors could work together,
	accessibility in public buildings and in society at
	large could be improved.
Pettersson 2014	P 9: "The occupational therapists that have knowledge should be contacted when toilets
	are being built since now they use the standard
	for new toilets, but it's not enough for us".
Pettersson 2014	P 7: "There [at the local swimming pool] are
	toilets but there are no accessible toilets so
	now that they are rebuilding it [accessible
	toilets] . I went to the municipality and told
	them not to forget that PW users need space to
	turn round. We need to have changes [in accessibility], but it comes about as a result of
	discussion in society and so on"
Pettersson 2014	P 9: "Even today they build toilets according to
	a certain standard that does not work [for a
	PW] so I told the occupational therapist and
	then the politicians how an accessible toilet
	should be [suitable for a PW]". (Focus group:
	men PWs)

Pettersson 2014     the participants described difficulties when travelling with their PMD.       Pettersson 2014     they often needed assistance when they boarded or exited a bus or train with their PMD, since they had to drive the PMD onto a ramp.       Pettersson 2014     Sometimes a ramp was lacking, and occasionally the station platform was lower than the train, which made it difficult to sover than the train, which made it difficult for when using the STS, and that they needed more information to be able to use the STS with the PS.       Pettersson 2014     women who used PSS also described difficulties when using the STS, and that they needed more information to be able to use the STS with the PS.       Pettersson 2014     men who used PMDs considered being able to transport their devices by cart to be important.       Pettersson 2014     . Some had received a car modification, while others managed to transport their PMDs by means of ramps and a trailer to the car.       Pettersson 2014     they sometimes did not manage to take the PMD in the car, for example when they went shopping with their wives, and therefore they often had to wait in the car       Pettersson 2014     men using PWS said that it was sometimes easier to use their device to drive directly to the desired destination instead of taking it in the car, because it caused too many strenuous transfers.       Pettersson 2014     men who used PSS discussed how they tried to use their device at places other than those they already knew, and turned back if they encountered accessibility beforehand       Pettersson 2014     men who	Studie/Study	Citat/Quote
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		fall description. Fall attributions had both

Studie/Study	Citat/Quote
	intrinsic and extrinsic factors which attributes
	to fall
Rice 2018	The influence of the environment and disability-
	related impairments was also commonly
	associated with falls occurring while driving the
	power wheelchair
Rice 2018	Participants also frequently reported that falls
	occurred during transfers. Several of the fall
	attributions associated with transfers involved
	environmental factors (extrinsic fall
Diag 2010	attributions), such as wet floors.
Rice 2018	Finally, falls during ambulation were noted.
	Inaccessible environments (fall attribution)
	were cited as reasons why ambulation was necessar
Rice 2018	The influence of disability-related impairments,
	such as limited vision or spasticity, and
	environmental factors, such as a steep ramp or
	cracks in the sidewalk, emerged as an important
	factor
Rice 2018	the were worried of concerned that they might
	fall
Rice 2018	the stopped doing some things they used like to
	do
Rice 2018	participants reported they developed fear of
	falling
Rice 2021	Related to positive impressions, participants
	found anterior tilt to help them reach further,
	have additional options to change position, improve functional mobility, and felt that
	anterior tilt helped to increase the use of their
	seat functions.
Rice 2021	Related to negative impressions of anterior tilt,
	participants who did not use a chest strap on
	their own chair reported that they felt the
	safety equipment was restrictive.
Rice 2021	Participants reported that to get the most out
	of the functionality of anterior tilt, an accessible
	environment was needed in which a wheelchair
	could get under surfaces, such as sinks or
	counters.
Rice 2021	Participants reported that anterior tilt was
	beneficial in many different settings:
	community, work/school and their own home.
	In the community, participants found anterior
	tilt helpful when retrieving items from shelves
D: 2004	and accessing elevators.
Rice 2021	Regarding specific challenges participants faced
	when using anterior tilt, the restriction of

Studie/Study	Citat/Quote
	movement was noted, along with difficulties
	manipulating the safety equipment.
Rice 2021	Regarding the comfort of the chair with anterior
	tilt, many participants reported that there was
	no influence on their comfort level. However,
	the benefit of having another position to
	perform a pressure relief was noted
Rice 2021	Discomfort was also noted, primary related to
	the use of the knee blocks
Rice 2021	Participants were asked if they would request
	anterior tilt on their next chair. Four
	participants reported that they definitely would
	request anterior tilt on their next chair, four
	reported they would not request anterior tilt,
	one participant was unsure and one participant
	did not provide a response.
Rice 2021	Participants primarily focused on improvements
	needed to the safety equipment. Participants
	felt that it was necessary to make the knee
	blocks more compact. In addition, participants
	reported that the knee blocks needed to be
	easier to manipulate and changes should be
	made to prevent the knee blocks from rubbing
	during movement.
Rice 2021	Participants also reported a need to change
	positions faster and have additional arm
D. 1 (	support to facilitate forward reaching.
Rushton 2017	Seven of the ten participants believed that the
	IPW would facilitate participation in activities
	outside of the LTC facility such as shopping,
Duchton 2017	visiting friends and family, and banking.
Rushton 2017	For five of the ten participants, use of an IPW would enable engagement in activities that they
	are not able to do in their current wheelchair.
Rushton 2017	the participants would continue to engage in
	the same activities using an IPW but would be
	able to do so more easily, frequently and
	independently
Rushton 2017	collision avoidance assistance offered by all
	three driving modes was considered by all
	participants to be instrumental in facilitating
	participation in activities
Rushton 2017	participants reported that the IPW would be
	beneficial in navigating specific static (e.g.,
	entering/exiting an elevator, parking at a dining
	room table, ramps) and dynamic (e.g., other
	wheelchair users and staff in the LTC facility and
	people on sidewalks and in stores)
	environmental challenges.
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Studie/Study	Citat/Quote
Rushton 2017	automatic driving mode was also felt to be
	advantageous in relation to participation in
	activities, in particular for those residents who
	have difficulty remembering/finding their way
	around the facility.
Rushton 2017	"Some residents can't even find their own
	rooms, especially at night". According to this
	participant, an IPW would be of assistance.
Rushton 2017	John spoke about using the features at various
	times, such as at the end of the day or at the
	end of an activity when fatigued or,
	alternatively, to get to an activity in order to
	save energy for the activity itself.
Rushton 2017	John when he said, " I would be assured that I
	can come back by myself [with an IPW] because
	sometimes it's not easy to get someone to help
	you get back to the room with a manual
	wheelchair".
Rushton 2017	Nine of the ten participants described how the
	collision avoidance assistance of the three IPW
	modes would improve safety.
Rushton 2017	Steve stated, "It [use of the IPW] would be
	great. I wouldn't hit things. I wouldn't be hit. I
	could go places and do things".
Rushton 2017	Betty captured the improved safety for staff
	when she said, "I wouldn't be endangering
	them anymore".
Rushton 2017	John expressed how being able to move quickly
	is one of his biggest challenges and, thus, an
	IPW would be essential in avoiding collisions
	when he said, "I wouldn't have to worry so
	much about hitting any objects sometimes
	things appear in short notice".
Rushton 2017	The IPW would also be good for avoiding
	collisions in crowds as illustrated by Freda when
	she said, " it [the IPW] would help with the
	traffic jams in the hallways and especially in the
	dining room! You know, at mealtimes I have
	to just wait and you have to look really hard to
	see an opening to get in so that you're not
Duchton 2017	going to bump into other people "
Rushton 2017	The collision avoidance was also considered to
	be important in improving safety outside of the
	LTC facility such as on busy sidewalks and
Duckton 2017	stores.
Rushton 2017	All but one participant described positive
	feelings associated with the use of the IPW and
D. L. 2017	its potential impact on their day-to-day lives.
Rushton 2017	Jack, whose responses indicated an indifference
	to the IPW use, was very independent and

Studie/Study	Citat/Quote
	content with his functional ability in his current
	power wheelchair.
Rushton 2017	positive feelings from the other participants
	included happiness, amazement, pride,
	confidence, power and decreased anxiety.
Rushton 2017	Freda said, "I think it would make you a lot
	happier to have the extra freedom
Rushton 2017	I was just a little amazed at myself that I could
	do that I've never driven, tried to drive
	anything "
Rushton 2017	John articulated, "I feel proud in the wheelchair
	[IPW], to move alone without needing anything
	. I was showing off to the people around me"
Rushton 2017	"It [IPW] would allow me to go anywhere with a
	lot of confidence"
Rushton 2017	Betty conveyed, "I would feel powerful being
	seen in the IPW".
Rushton 2017	Linda expressed, "When it [the IPW] was driving
	for me, that was a chance to relax it made my
	anxiety go away "
Rushton 2017	the majority of participants felt positively
	toward the IPW.
Rushton 2017	Participants varied regarding the extent to
D. 1	which they felt the IPW would impact others.
Rushton 2017	Three participants commented that they felt
Duchter 2017	that the IPW would not impact others at all five others described how it would decrease
Rushton 2017	
Rushton 2017	required assistance, worry and frustration terms of decreased assistance provision, three
Rushton 2017	participants commented that the staff in their
	LTC facility were very busy and that use of an
	IPW would be helpful in that staff would no
	longer need to assist them with getting to and
	from their activities and destinations such as art
	class, the pool and the cafeteria
Rushton 2017	Florence described how if she were to use an
	IPW her family and friends would worry less
	when she said, "I think they [participant's
	family] would be happy that I have it [the IPW]
	they wouldn't worry about me they worry
	about me now
Rushton 2017	Linda discussed how people become impatient
	and annoyed when they have to wait for a
	power wheelchair user to move around when
	she commented, "They would get all upset
	when there's nothing to be upset about there
	are some people that are extremely impatient".
	She felt that these situations could be
	eliminated with use of an IPW.

Studie/Study	Citat/Quote
Rushton 2017	Participants also voiced concerns related to
	using the IPW in LTC facilities, although less so
	relative to the positive discussions described
	above. These concerns were of both a
	technological and personal nature.
Rushton 2017	Although all participants could see the benefit
	of the collision avoidance feature, concerns
	regarding drawbacks were also voiced
Rushton 2017	Steve felt that this feature would not be of
	benefit in all situations. In particular, he
	explained that the use of collision avoidance in
	crowded, busy areas of the LTC facility, such as
	the dining room, would be problematic because
	it [the IPW] stopped everywhere it would be
	a rat race oh, it would be terrible, we're all
	going somewhere, and you wanna get there,
	and we wouldn't get to go!"
Rushton 2017	Harold voiced his angst about the IPW not
	allowing the user to get close enough to objects
	to perform functional tasks, such as eating at a
	table, when he stated, "What if I wanted to put
	something on the table?" and "If I wanted to
	get close to something, maybe the wheelchair
	would stop me".
Rushton 2017	Susan expressed her concern over the use of
	the automatic driving mode outside of the LTC
	facility when she said, . too dangerous, it should
	be used in the building".
Rushton 2017	Linda was concerned about the IPW
	malfunctioning,
Rushton 2017	three participants expressed the importance of
	the user having the opportunity to choose and
Duckton 2017	override modes as desired.
Rushton 2017	there were a variety of concerns related to the IPW controlling the user's mobility
Rushton 2017	Three participants did not feel comfortable with
Rushion 2017	giving up control,
Rushton 2017	by Steve who said, "I wanted to be in charge"
Rushton 2017	Rose who stated, "I like steering on my own".
Rushton 2017	Harold was concerned about the IPW reacting
	to the environment unexpectedly or in a way
	that may be incongruent with how he might
	respond as indicated by these comments, "It [the IPW] may do more than I'd expect it to it
	might come as a surprise the wheelchair
	would be more cautious than I would be, or
	would need to be ".
Duchton 2017	Harold also expressed feelings of inferiority
Rushton 2017	
	related to the intelligence of the wheelchair in comparison to his own impaired cognition, as

Studie/Study	Citat/Quote
	indicated in this statement, "In some respects,
	you would think that the wheelchair is smarter
	than I am".
Rushton 2017	two participants did not want to be reminded of
	their own personal deficits in relation to the
D 1	IPW's intelligence and control,
Rushton 2017	Freda, "I know that it's slowing down and I know I'm turning . I don't have to have it tell me
	I'm doing that. I don't like that. I don't want to
	be told by this voice that I almost hit
	somebody".
Rushton 2017	Freda was also concerned that the IPW would
	be an "attention grabber" and that it would
	make her feel self-conscious,
Titus 2018	when asked to describe how power tilt was
	used in daily life in their own life or in the lives
	of their clients, participants' descriptions
	revolved around reasons for tilt use
Titus 2018	I find if I tilt back too long, I start slouching so I'll
	consciously tilt more vertically so I am sitting up
	straighter because I value good posture" (PI);
Titus 2018	Just plain comfort. Just being uncomfortable so
	you change to be more comfortable" (P2);
Titus 2018	"Oh the other way I use tilt is, I wash my hair in
	the sink so I'll tilt all the way back to the sink" (hair was washed by the caregiver) (PI).
Titus 2018	When I'm getting out of bed, it has to be a
Titus 2018	certain, it can't have tilt to put me in the chair
	but when they [caregivers] set me back into the
	chair it has to have a large amount of tilt so my
	butt slides all the way back into the chair (P3).
Titus 2018	The participant described instructing caregivers
	to use tilt to ensure she was properly
	positioned on the seat as part of the morning
	transfer;
Titus 2018	Participant descriptions were of pain
	contributing to feelings of discomfort but no
	descriptions were found indicating that
	discomfort caused pain
Titus 2018	"I wasn't comfortable so I put it [tilt] back and
	re-positioned myself" (P5).
Titus 2018	. "I try to tilt back a bit so I don't slide out" (P5).
Titus 2018	So you don't use it (tilt) necessarily for pressure
	per se? (researcher). No I don't think so
	because the way I am sitting now doesn't seem like it's a lot of tilt. But without the tilt I would
	be uncomfortable so it's not like I need
	(participant paused) I think I'm talking out both
	sides of my mouth. No, I do use it so my butt
	isn't sore (from pressure). I didn't realize (P3).

Studie/Study	Citat/Quote
Titus 2018	. "And I think it takes a bit of pressure off of the back. Like when I'm sitting straight I have different strain on my back then I do when I go into tilt; it takes the strain away" (P5)
Titus 2018	"I put pressure on my elbows, and I need, if I have too much, if my elbow is bothering me, if I put tilt on, it takes a bit away of the stress on my elbow" (P3).
Titus 2018	The amount of tilt depends a lot on the activity, that way I can say normally I am at this tilt but because I am doing this. Like tomorrow I am going to play scrabble and I know there will be times when in order to see the scrabble board correctly I have to be down a bit and then I'll go up to somewhere that's more comfortable (when it's not her turn) (P3).
Titus 2018	I have never had the concept of there is 10% tilt, 20% tilt. Not like I do the speed of my chair. I think about it because it has 4 speeds and it has the constant increase. It can go from turtle to rabbit, that's all adjustable on here, so I think about it that way. But tilt is just guided by comfort. I don't think things like how far back am I right now? Na, I think things like table tops and desks kind of limit me in how far I can go (P2).
Titus 2018	participants who used power tilt were asked to demonstrate a small, medium and large amount of tilt which were found to vary in comparison to actual amplitudes of tilt, particularly for large amplitudes. As indicated in Table 3, Participants 1 and 4 perceived large tilt were actually around 20 degrees whereas Participants 2, 3 and 5 perceived large tilt was actually greater than 40 degrees. Interestingly, regardless of these differences, there were similarities in the activities in which participants engaged when using large amplitudes of tilt, primarily resting, napping and being transferred into the wheelchair.