VANTEALTHAN Patient Journey Mapping - Post-Consussion Syndrome Phase Into the rabbit hole Adapting 2nd line care 3rd line care Rehabilitation 1st line care The accident **GP** appointment Referral to 1st/3rd line for Resting at home, trying to find Referral 2nd line (neurologist, Going back to normal life as Going home, not knowing Referral to 1st line rehabilitation exactly what to do a balance (rehab @ home) much as possible ct-scan) Waiting on 1st appointment: 8-12 weeks 1 day / split second 2-4 weeks Waiting on the appointment: 4-8 weeks Waiting on the appointment: 10-14 weeks Slowly getting better: depends per person Time span Waiting on CT scan: 1-4 weeks Waiting on result appointment: 1-7 days t: 30 minutes every month as long as needed Appointment: 30-60 minutes every 1 or 2 weeks for as long as needed Appointment: 40 minutes every 6 weeks for as long as needed Appointment 1: 40 minutes CT scan: 5-10 minutes Result appointment: 15 minutes Actors **General Practise** Neurologis¹ Occupational therapist Psychosomatic physiotherapis **Optometrist** The **patient** gets hit against the | The **patient** will have some pain The **patient** can not resume their The patient can not resume their he **patient** is taking the help they can get. The **patient** is relieved that there is no he **patient** is slowly trying to rebuild their The **patient** is slowly able to do more **Touchpoints** The symptoms are not necessarily getting e through the programs they are head. The person will go through and maybe rest a bit. But will return normal life. They struggle and do not normal life. They struggle and do not lasting damage visible on the scans. activities from their normal life with presented with. They are actively ess as the patient is receiving care. know how to get everything done as with the activity or will stop and to their normal life as soon as know how to get everything done as Out of frustration they investigate help of the programs they received. challenging their symptoms to train their they normally do. They do not know possible and as good as they can. rest for a short time. they normally do. They do not know what it could be and they read similar They have found recognition through oist is guiding the patient brain and to rebuild the boundaries of their This starts to fail. The patient will experiences online. The patient finds reading the experiences of others what is happening, think it will be what is happening and how to get through different exercises. They look at better soon, and search for help from recognition and has Post Concussion experience difficulties with the better. They are alone a lot because what the patient is able to do. Together through (internet) communities. they are overstimulated quickly. with the patient they try to set up an The **occupational therapist or** environmental (not able to trans-Syndrome. exercise plan, for example for balance or physiotherapist svchosomatic port well, environment overstimu-Social support has become more rearranges the patient's agenda to fit their lated, not able to go to the super-Social support will mostly not get Social support will mostly not get The **neurologist** makes a scan of the aware of the struggles of the patient. abilities, to be able to rebuild their life. why the patient can not come to an head and neck of the patient. They do They are also able to have more market), economic (can not go to why the patient can not come to an occupational therapist or work), and social (not able to study, contact with the patient. event or get the work done. The event or get the work done. The sychosomatic physiotherapist is going not see anything unusual. The The **rehabilitation doctor** sets a program for the patient to rebuild their life and tackle hrough different exercises with the patient promises they are there next meet friends and do fun activities patient promises they are there next neurologist also looks at the patient. Figuring out where they can some of the symptoms they are with housemates) level. However, time but is not. Social support can time but is not. Social support symptoms the patient is experiencing change their life to feel better. experiencing, like not being able to bear underestimates how sick the patient is pressure the patient to do more than the patient believes they will soon and diagnoses them with a light. During that program the doctor keeps concussion, Post Concussion be better. and can pressure the patient to do they can. The psychologist is treating the trauma an eye on the process of the patient and the patient may have experienced. They more than they can. Syndrome. The choice is made if a gives guidance. can also present the patient with cognitive Social support will be careful but The GP will do some tests to see if reference to a rehabilitation doctor is behavioral therapy. over time, when the patient still can there is permanent damage. This is not the case so the GP says the not come, not get why the patient The **optometrist** has a medical patient has to rest and that it will be is not there. There can be a lack of examination of the visual disturbance the patient is experiencing and determence the right approach and treatment. "Ah well, it's okay. I have When the children asked "I looked at the doctor "There I was between the four "I had the idea that I could get | "I had all sorts of microbleeds in my | "Suddenly the puzzle pieces fell into **Emotions** place. I came to understand my a lot of pain but it will something, I could fly off the questioningly. How? How can I walls. I've never been so lonely.' started, that I could grow and brain that didn't show up on the pass." handle. Which scared me. Why rest with four children of which tackle things." scans. But these kept my brain from symptoms" am I reacting like this? They are three live at home and two are making connections in certain "I could not anymore, I was empty." just asking a question." very busy? I have a business and areas." "I came home from physiotherapy my household." "We crossed the finish hand in worse than I left. And I kept getting "My hardest moments I passed hand, together as a family. In the worse.." alone, while everyone thought I "Now, I know my body better. I future, we will certainly face life was okay." know how to recognize the signals together with great pleasure, hope and act on them." and strength.." In the shock of what happened, but not Trying to continue life as normal, but The patient is feeling restless and is At this point, the symptoms have taken The patient is hoping to get help. The patient can feel tense in awaitance The patient is still seeking help to be able to If the patient has not been told they Challenges of the CT scan and the outcomes. deal with their feelings. When the rehabilirealizing the seriousness. There is pain, feeling worse and worse More sympover daily life. The patient dependent on the people surrounding have PCS up to this point, they will However, when not getting the right tation doctor addresses that they have a most of the time find help through the However, PCS patients will receive the them. The patient is feeling useless but the pain will probably leave in a toms are showing up as the patient acknowledges the symptoms and is help they can feel misunderstood, good news that there is no damage concussion and/or PCS, inform them about internet. Think of googling symptoms trying to find help. The patient also has because they are not able to help or unacknowledged and/or unrecognized. few days. The patient is trying to make tries to continue work or studies until it hev will then also be confused about neurologist addresses that they have a and get better, they can give the patient a help them find recognition and support. trying to find answers. The GP will patient is resting a lot and cannot do a the cause of the symptoms. In this and not have it affect their day. The with everything. concussion and/or PCS and will inform feeling of recognition and understandment. It will present them with information process they can feel very alone and most of the time not send them to patient is underestimating the symplot. Everything which entertains them them about the symptoms this can give However, too many times this is not about their symptoms and their possimakes them sick. So they typically toms and hoping they will get better in helpful care because of a lack of the patient a feeling of recognition and communicated to the patient. The patient bilities for treatment. These new found just a few moments. knowledge. The patient will not feel stare at walls all day. The patient is not The patient is initially very hopeful and can feel misunderstood, unacknowledged understanding. However, too many possibilities, already received care (1st getting any care. They feel hopeless, then disappointed when the preferred times this is not communicated to the and/or not recognized. In this process they recognized and helped. line, 3rd line) and newly increasing patient. The patient can feel misundercan feel very alone and defeated. outcome is not met. energy will help them integrate more confused, and alone. There are also rehabilitation doctors who tell and more in their new life. This could stood, unacknowledged and/or not recognized. They will then also be the patient 'you will not be able to go back to result in them becoming completely confused about the cause of the sympthe old you'. The patient can feel helpless, healed, not experiencing obstacles in depressed and in shock by this news. toms. In this process they can feel very their average daily lives or becoming alone and defeated. However, in a lot of cases the patients do better for a good percentage, depenget better after several years. ding on the conditions. In this phase there is the opportunity for A PCS patient in this phase is often There can be more prevention by In this phase, people or their social A GP does not have a medical directive If the design opportunities in the As the patient gets more insight on In this last phase, the patient life is Design for a concussion that holds on longer support will often start to search hopefully and finally slowly going back creating more recognition and previous three phases are implemenexpectation guidance and more commuwhat they are experiencing in this very frustrated or disappointed by the acknowledgment from society. For experience they have had and the to normal. As the patient journey has online why this is happening and what than a couple of days. All medical ted. This will result in a patient which nication on the effects the treatments phase, there is a design opportunity in opportunities duration of their symptoms. Still, they instance, at paid rugby and football they can do. Online (e.g. on thuisarts.nl directives of GPs can be found on feels recognized and helped. They will have on the patient. This could be making sure that the information, been a rollercoaster of emotions, the associations in the Netherlands, there (made by GPs)), information about know better what to do. Still, if the approached by the psychologist, as they explanation and recommendation is can be presented with wrong informanhg.org. However, there is nothing on design opportunity would be to create symptoms and what to do with a is an easy-to-follow medical directive there for the long term when searched patient is not making enough improvecan already be present in this phase. To presented to the patient as clearly as tion about the treatment of their sympa community the patient can join to be on 'commotio' . The main design be able to truly be of help for the patient, on what to do when you get a hit on concussion after the first 2-3 days of ment or stagnates or even goes toms or the meaning of their experienable to process their experiences and the accident, is hard to find. Therefore, opportunity is to bring awareness to backward in their recovery, they need the different caregivers in this phase ce. A design opportunity in this phase your head. Stopping with what you do to receive recognition and reassurance can again be a medical directive for and taking the accident seriously. a good design opportunity to give PCS at the NHG so they will do to go to the GP again for more help. could collaborate. The GP could also when they are experiencing a (small) Sadly, we do not see this awareness research and develop a medical direchand out flyer with information on what people a grip and explanation on their The GP must know what to do by the caregivers for the treatment they relapse. It could also be very valuable concussion is more open information tive that GPs can use to send a PCS having a medical directive on the can give the PCS patient. In this phase often outside of paid sports. This is a for the experience to include this it is clear that the patient has PCS, as design opportunity in an earlier phase. good design opportunity to prevent on the internet (e.g. on Thuisarts.nl). patient to help care. website of NHG. Another design opportunity would be to symptoms from getting heavier. look at the earlier referrals to 1st line they have already visited the neurolocare, stimulated by the medical directive.