



NEW DIGITALIZED NEURO-FATIGUE MODEL/ PLATFORM.

Brainey App.
CEO and Founder Niamh Malone.

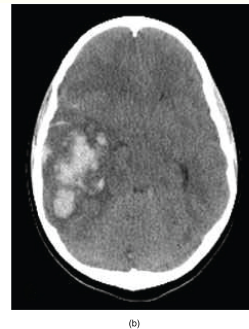
My story

1st Haemorrhage 46% of people die.
If aneurysm not repaired/ treated within 48 hours a
2nd Haemorrhage will occur about 80% patients will
die.

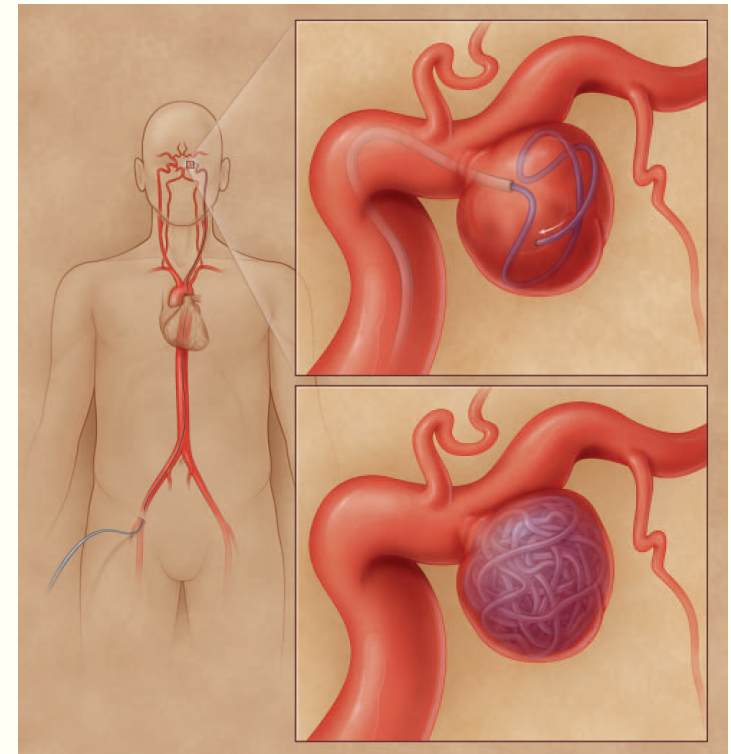
- Background.

- First app.

- Feedback.



Coiling.



Brain ages 3.6 years in each hour without treatment

Understanding fatigue and stroke. .

- Younger strokes survivors suffer far more with fatigue than people over 70 years.
- Age, fitness, diet, weight do not matter.
- “ I’m exhausted, pace is too fast”.
- “It is like struggling to climb a huge hill everyday with gale force winds”.
- “ Society do not understand young stroke survivors”.
- “Somedays I don’t have the energy even to complete a simple task”.
- “ I struggle to try and work out why I am so drained all the time”.
- “ Daily life is a challenge”

Neurotransmitters and plasticity.

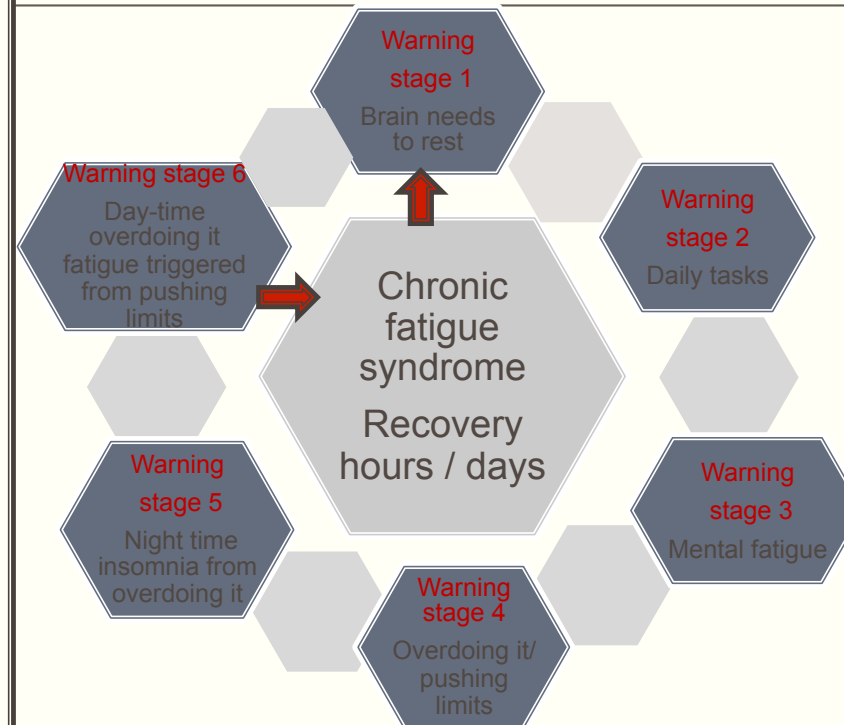
- Neurotransmitters.
- Plasticity.
- Nerve energy.
- Nerve fatigue.



Benefits of Neuro Fatigue Model.

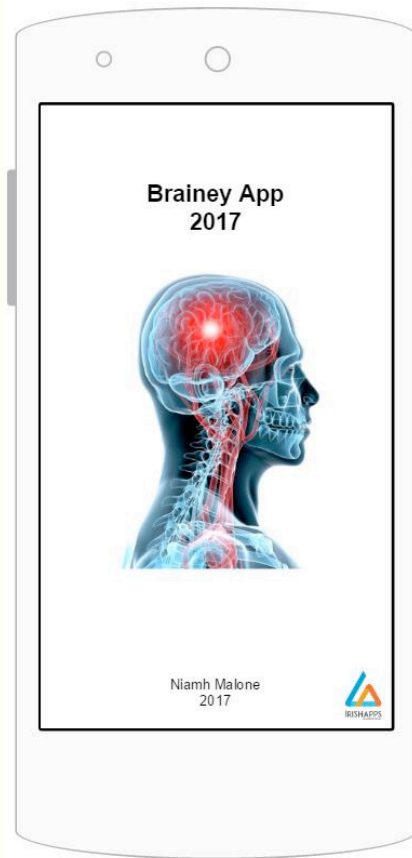
- Journey of recovery.
- Life Changing.
- Holistic planned patient/ player centred approach to care.
- Treating energy like a “commodity”.
- Conserving energy until it is required.
- Maximising their energy levels throughout the day.
- Overtime each patient builds up their own profile of recovery.
- In-patient acute setting, they are involved in their direct care as soon as their rehabilitation commences
- Advice, guidance and support.
- Able to manage their own fatigue- plan their day, take control of their life.
- Not just dependent on time they feel alert at.
- Reduces need for night sedation.
- Reduces visits to G.P.
- Reduces re-admissions back into hospital.
- Reduce repeated sports concussions.
- Reduces mortality.
- Guidance/ advice to carer.
- Re-structured rehabilitation/ return to play to suit patient/ player with neuro fatigue.
- Education to healthcare professionals, coach and nursing staff.

Brainey App Digitalised Neuro Fatigue Recovery and Rehabilitation Model

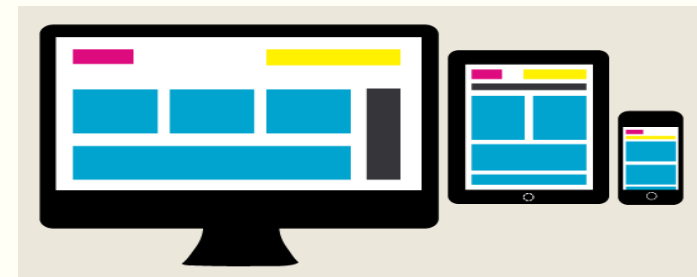


Each warning stage acts as a baseline.
Advice, guidance, support on how to work out how to conserve their energy levels

Person - iPhone and Android.
(free end user)



Healthcare Professionals interface- responsive website.
(licence, monthly, 6 monthly, yearly).



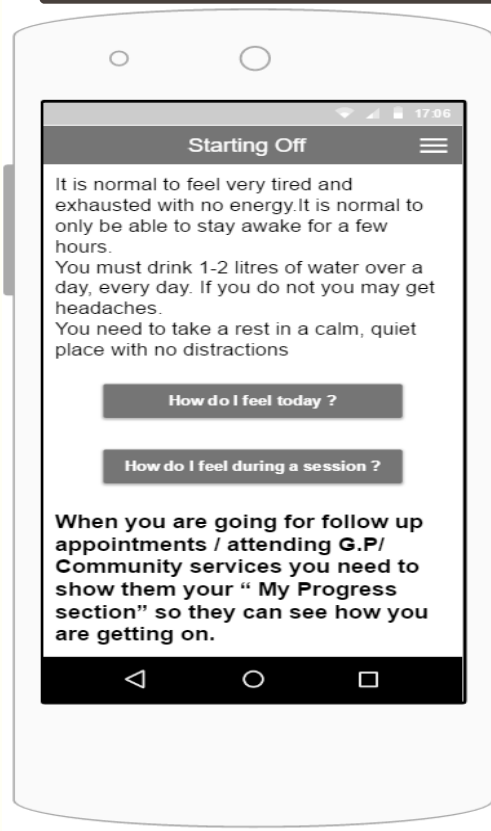
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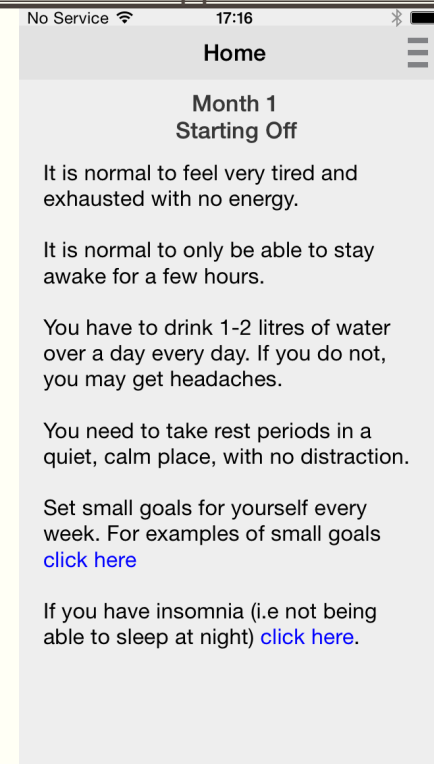


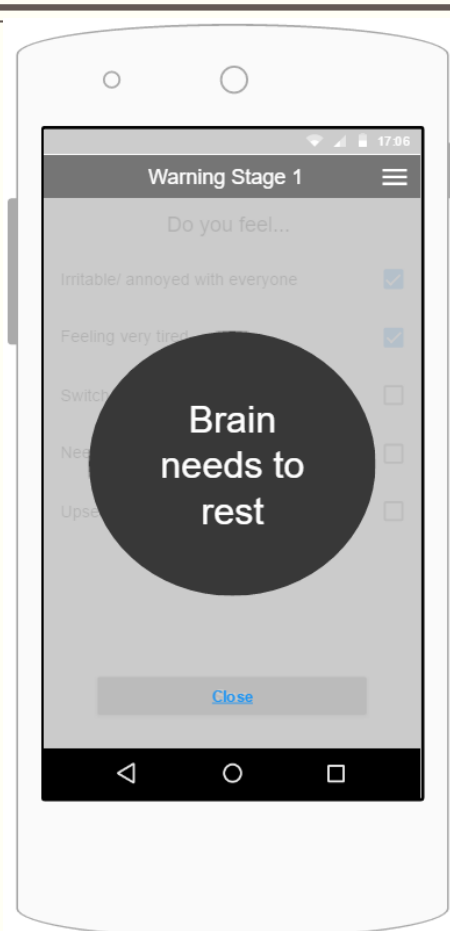
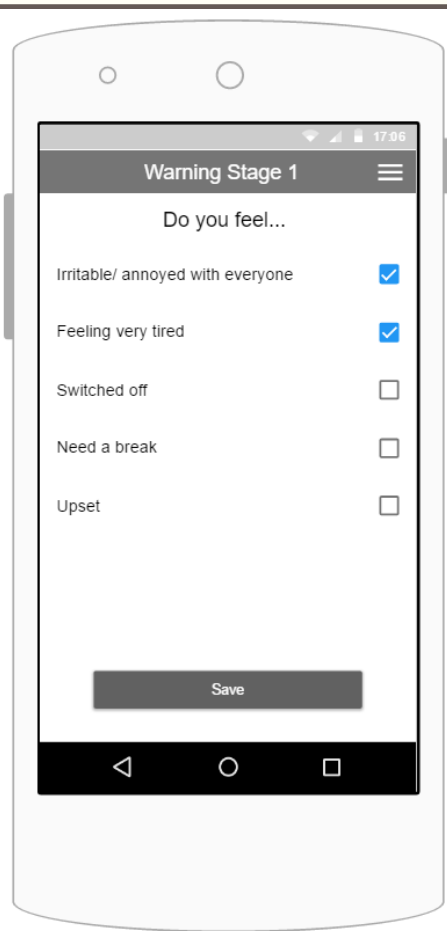
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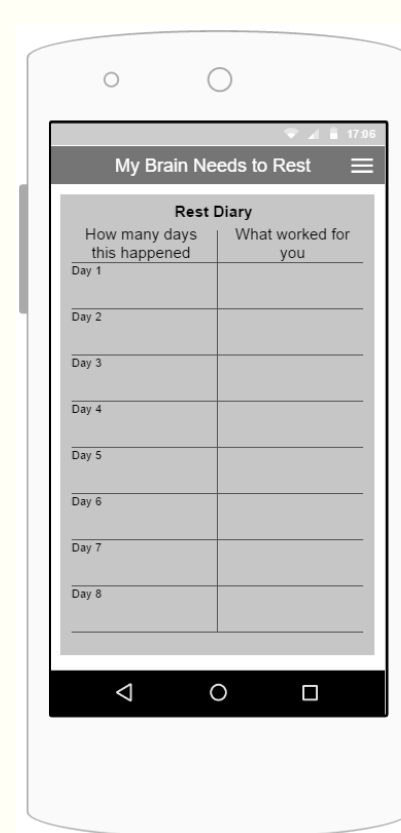
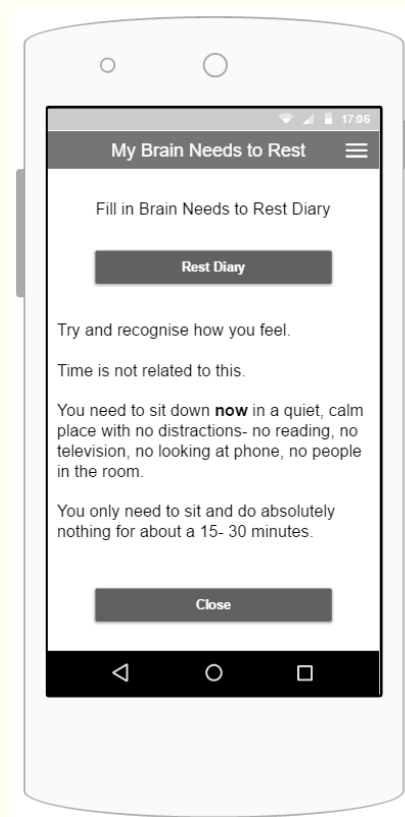
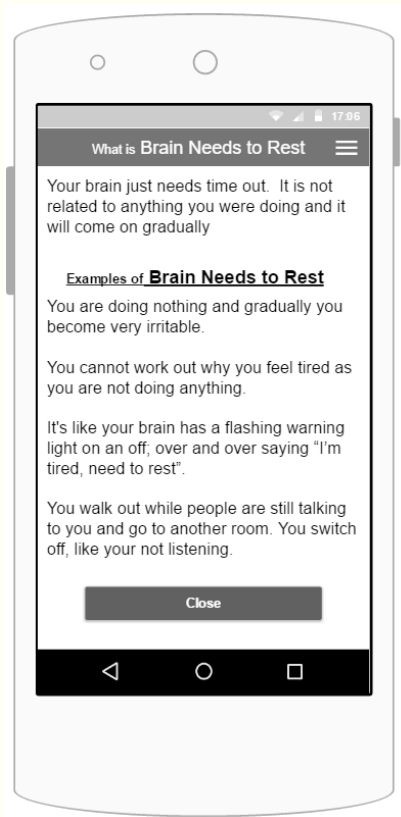
Neuro fatigue App 2017



Recovery after Brain Injury App 2015







Research.

- Research paper trial- 1 patient MS + 1 stroke survivors-ongoing.
- ARCH pre-app- “Assessing the effectiveness of the “symptoms”/ “awareness / energy levels in an acute stroke unit and stroke rehabilitation unit”.
- Validating the new platform and early warning stages.



Alison Dixon (daughter).

Caitlin.

My family



Fionnuala Gibbons
Enterprise Ireland Clinical
Trial / Industry Liaison
Officer.

Prof D Williams- Stroke
Research RCSI

Prof Sean Murphy. Associate
Director of Stroke Services,
Mater Hospital.



stryker[®]
Neurovascular



Dr Aine Carroll- Director of Clinical
Programmes.

Dr J McElligott- Clinical Medical Lead
National Rehabilitation Medicine
Programme.

Edina O'Driscoll- Programme Manager
National Rehabilitation Medicine
Programme.



Health Technology Co-operative brain injury.



St Finbarr's Hospital Cork.

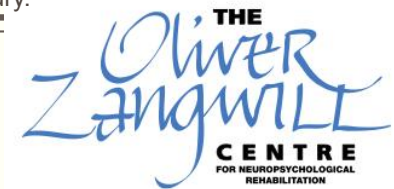
Cork Stroke Support Group.

Stroke and brain injury
support groups around the
country.

Clyde Hutchinson eHealth.

Ed Daly Msc Sport University Limerick.

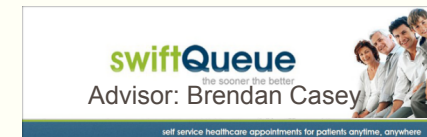
Donna Malley Fatigue Specialist



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