



# Patient Inspired Industries

- In the last few decades Medical Professionals have to make a Business Case.
- Let us allow patients, often not in perfect health, to make suggestions to help use resources efficiently.



# Patient Inspired Industries

- We have started this
- Re Introduction Volunteer Transport
- Tele appointments
- Haemodialysis Bulk Acid Delivery



- [www.volunteertransport.co.uk](http://www.volunteertransport.co.uk)

- ✓ This project has the unique privilege of being the first idea identified, researched, costed and implemented by patients.
- ✓ Not a new idea, the complex historical reasons for failure are detailed on the web site.

## Current Position

- ✓ Beta website live



# Patient Inspired Industries

- Bulk acid
- Project under Development by Bristol Health Partners, Chronic Kidney Disease Health Integration Team
- *Watch this Space*



# Patient Inspired Industries

- Tele Appointments
- Project under Development by Bristol Health Partners, Chronic Kidney Disease Health Integration Team
- *Watch this Space*



# Patient Inspired Industries

- *Our Next Project is FiRBot.*
- *Many expect that this will provide evidence to prolong the life of a native or transplanted kidney and stop some preventable deaths of those 1 in 10 with Kidney impairment*



# FirBot Proposal

Angie & William Beale as expert patients with a finger on the pulse of renal patient needs locally, nationally and globally have identified a gap in delivering Food Facts to the Renal Community.



# FirBot Proposal

Being a renal patient is not easy, it is a lifelong condition and typically patients go through stages in both directions

- Pre Dialysis
- Dialysis CAPD
- Haemodialysis
- Home haemodialysis
- Transplant
- Dialysis again





# FirBot Proposal

At the different stage in the Renal Journey there are different dietary needs.

On Dialysis Too much Potassium (K) is Dangerous

On Transplant Too little or excessive Calcium can cause rejection



# FirBot Proposal

Let us start with a typical scene.

*Patient is in a restaurant and presented with a food on the menu, never mentioned at his clinic.*

Does the patient *Take a Chance* and risk the dangers of High Potassium?

|



# FirBot Proposal

Naturally there is no 24 hour service to look up the Patients condition, bloods, typical menu and then check the chemical composition of new foods (&spices) and give an informed decision on the risks of this meal and any potential (even if rare) contra indications with actual prescribed medication.



# FirBot Proposal

The Beale's and Phil Hall have developed the concept of a platform to deliver factual information to patients so they can make an informed choice of the risks or advantages of new foods and try to forget their condition for a minute and live as normal a life as possible during a meal they have not prepared themselves.



# FirBot Proposal

• The platform is called **FiRBot**

• This is an *sobriquet* for

• ***Food in Renal Bot***



# FirBot Proposal

Mr Hall will explain what a Bot is in technical terms.

We will try to explain the Application.

Please remember this is not just another medical app, it is a platform to deliver information and save lives.

It can be adapted across specialities and used to harvest the impact of Food in Medicine and see if diet can



# FirBot Proposal

## Process

- Renal Patients opens mobile phone
- FiRBot asks patient sign in Renal Patient View for latest bloods.
- Patient asks can I eat xxx?
- FiRBot looks up chemical analysis of xxx.
- FiRBot looks up bloods and sees if historically Patients bloods close to danger triggers (High Potassium pre



# FirBot Proposal

If the patient already uses an app such as MyFitnessPal to gather information on their current diet and exercise this can be shared (with authority) with the dieticians.





# FirBot Proposal

Usefull Stuff

FiRBot will summarise the questions and send this to the dieticians and update the Electronic Patient Record.

With permission Information used for research



# FirBot Proposal

- | We hope that this platform of delivering facts and help dieticians and patients facts and hopefully prevent premature death.
- | The platform can also be used to gather real information of the actual foods and quantities that patients eats. This can be a valuable research tool so see if the uncertainties identified in the James Lind Alliance Priority Setting Partnership regarding diets can increase or reduce the life of a transplant and ultimately be used for qualitative and qualitative research.



# FirBot Proposal

All data on food is available

[http://www.foodcomp.dk/v7/fcdb\\_aboutfooddata\\_datatables.asp](http://www.foodcomp.dk/v7/fcdb_aboutfooddata_datatables.asp)



# FirBot Proposal

We must stress this is not designed to replace or remove the Renal Dieticians it is to help Patients make informed decisions and hopefully educate them and prolong life.



# FirBot Proposal

What we are proposing is a clever use of existing technologies, let your imaginations run wild and consider the advantages and implications of giving patients facts.

Patient benefits are obvious, as dieticians your lives will be easier.

Research may underpin your feeling that brought you into the profession, food has a profound and not widely understood impact on health.



# FirBot Proposal

- | We understand that as Renal dieticians you have an *impossible* job. You are under resourced and the Renal Population is increasing.
- | Historically you cant see patients as often as needed. Patients are scared and bewildered as to what they can and cant eat.
- | Different hospitals can have different advice.
- | Frequency of dialysis can even change advice. Daily nocturnal dialysis may allow the occasional banana.



# FirBot Proposal

- | We appreciate all the work you do, this platform will be the first in the world and probably the start of best practice for generations to come.
- | We would like to bring Bristol Southmead as the *de facto* centre of excellence globally in Food in Renal and later Food in Medicine.
- | FirBot is designed to expand and adapt as research and lifestyles develop.



# FirBot Proposal

| We have handouts and additional information to anyone interested.

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