# WIP RISK SUMMARY

# **Disclaimer**

The Centre for Digital Business (Australia) Pty Ltd, its officers and employees, do not guarantee, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained in this presentation, on any linked or referenced site, or in the supplementary materials posted on GitHub (overall, the 'Information').

We make no representations as to the compliance of the information with the laws, regulations, standards and policies governing health and technology globally or in any jurisdiction.

We recommend you exercise your own skill and care with respect to the use of this information and that you carefully evaluate the accuracy, currency, completeness and relevance of the information for your purposes.

The information is not a substitute for independent professional advice, and you should obtain any appropriate professional advice relevant to your particular circumstances.

The information may include the views or recommendations of third parties, which do not necessarily reflect the views of the Centre for Digital Business or indicate our commitment to a particular course of action.

Photographs contained in the information have been licensed for our use only and cannot be used by any third party.

The Centre for Digital Business is providing the information free of charge for use by organisations developing or researching digital humans for health care.

The Centre for Digital Business reserves the right to be recognized as the creators of the information.

© Centre for Digital Business Pty Ltd (ACN 162 122 072)

# Risk Summary – Align with Themes/Topics

#### **Medication Non-Adherence**

Never take medications

Deliberately reduce medications

Stop medications

Forget to take medications

Take wrong amount of medications – too many

Take wrong amount of medications - too few

Take medications at wrong time of day

Take medication holiday

Abuse medications

Interactions with over-the-counter medications

Interactions with vitamins

Interactions with herbals and supplements

Interactions with foods

Real side-effects from medications

Imagined side-effects from medications

Side-effects from medication not noticed

Side-effects from medication not reported

Other symptoms interpreted as side-effects

Peer pressure from family and friends

Media articles on medication risks

Media articles on medication effectiveness

Too many medications to manage

Can't afford medications (separate affordability guided conversation for care, food etc)

Can't access medications

Extensive travel for business or vacation

Don't understand the importance of medications

Forget to take medications

Taking medications that are no longer required

Misreading medication packaging

Not understanding medication packaging

Not having required pathology tests to assess medication effectiveness

Not having required pathology tests to assess medication levels in body

Not having required pathology tests to assess medication side-effects (e.g. liver damage from statins)

Not performing required measurements (e.g. BP, RHR) to assess medication effectiveness

Not reporting required measurements (e.g. BP, RHR) to physician to assess medication effectiveness

Not having regular medication reviews with physician

Taking unapproved generics or medications sourced from overseas

Have trouble swallowing medications

Psychosocial issues

Accessibility issues

Shelf life expiry of medications

#### Diet - Food and Drink and Supplements

Insufficient calories for recovery Excess calories leading to weight gain Macro-nutrient deficiencies for recovery

Micro-nutrient deficiencies for recovery

Insufficient fibre

Insufficient soluble fibre

Excess sodium

**Excess macronutrients** 

**Excess micronutrients** 

Interactions with medications

Any amount of banned/limited dietary ingredients (e.g. trans fats, caffeine)

Inadequate nutrition for gut biome

Allergic foods

Hard to digestive aids

Under cooked foods - contamination risks

Over cooked foods – poor nutrition

Affordability of healthy foods

Affordability of home delivered fresh meals

Affordability of healthy frozen foods

Dining out

Take out

Limited range of foods

Too much meat

Not enough vegetables

Too many unhealthy snacks

Poor portion control

Don't understand the importance of good nutrition

Can't access healthy foods

Can't physically cook

Don't know how to cook

Can't store frozen foods

Can't meal plan

Lots of travel

Working long hours

Family pressures

Cultural preferences

**Emotional eating** 

Peer pressures

Don't drink enough water

Too many caffeinated drinks

Drink too many sodas

Alcohol

Undiagnosed allergies

Religious restrictions – permanent

Religious restrictions – temporary (e.g. festivals)

Psychosocial issues

Shift work

Can't read menus

Can't read recipes

Can't read food nutrition labels

Don't know how to shop for groceries

Don't know how to store groceries

Food addictions

Innumerate – can't calculate servings etc.

Unaware of healthy food swaps

## Exercise – Recovery and Rehab

Heart failure

No prior exercise experience

Poor knowledge of exercise

Doesn't understand the importance of exercise

Existing sports or other injuries

Long-term side-effects of previous injuries

Restrictions from most recent surgery

Afraid of exercising alone

Inclement weather events outdoor exercising

Unaware of risks associated with heat, cold and altitude

Life too busy

Doesn't enjoy your exercise

Wants to return to previous sports or exercise as soon as possible

Wants to try sports or exercise previously impossible

Peer pressure

Family pressure

Religious restrictions

Cannot assess own perceived rate of effort

Unaware of exercise risks

Unaware of sternum restrictions

Unaware of mobilisation requirements

Unable to assess distance or time walked

Unable to attend cardiac rehabilitation

Unrealistic expectations

No access to exercise equipment or facilities

No access to exercise instruction

Morbid obesity

Extreme fatigue

Inadequate nutrition

Doesn't want to exercise in front of others

Frustration at reduced strength, endurance and flexibility after surgery

Constant travel

Fear of injury

Fear of re-triggering heart condition

Access to medical help in remote areas

**Cultural factors** 

Gender factors

**Psychosocial factors** 

Accessibility factors

Affordability of exercise clothing

Motivation

Side effects of medications

### **Enablers Summary**

#### **Guided Conversations**

Management – access, remembering etc Affordability Therapeutic

#### **Medication Adherence Enablers**

Inpatient conversations with digital human and human team members Discharge process

Advice on the importance of dedications

Advice on effective lower cost medication alternatives such as generics

Advice on financial support for medications

Advice on medication management including reminders

Digital applications for medication management including reminders

Physical packaging and pharmacy services for medication management

Advice on medication side-effects

Advice on medication interactions

Advice on travelling with medications - domestic and overseas

Advice on the initial an ongoing process for obtaining medications

Advice on pathology tests for medications

Advice on home measurements for medications

Ready access to diagnosis and treatment for side effects

Communicate a clear requirement to consult a physician before reducing, stopping or changing medications

Digital tools for accurately identifying medications and the packaging

Trust in prescribed medications and processes to overcome family, peer and media pressure