

# The Problem

Anxiety. Fear. Pain.



Resource intense
Practitioner & Patient
stress
Healthcare Avoidance

## Phobia myths:

Everyone has one

The mildest of issues, don't need to be treated or taken seriously

Something traumatic must have happened

Can't be fixed

Not a psychological issue, hypnosis only

People just need to get over it

"it's not that painful"



Needle phobia- a diagnosable psychological disorder.

### DSM 5 criteria: Specific Phobia, 300.29 Blood, injury, injection (BII) type

- Marked fear or anxiety about the specific situation (including crying, tantrums, clinging in children)
- The situation almost always provokes immediate fear or anxiety
- The situation is actively avoided or endured with intense fear or anxiety
- The fear or anxiety is out of proportion to the actual danger posed by the situation
- The fear or anxiety is persistent, typically lasting for 6 months or more
- The fear, anxiety, or avoidance causes clinically significant distress or impairment in important areas of functioning.

### Interesting facts about needle phobias:

Affect men more equally with women, compared to other phobias- several theories about why this is

These are our fainters <- and this is often a focus of the phobic concern

While the prevalence rates are around 10-15% for clinical cases, subclinical needle anxiety prevalence is up around 40% and this is still associated with unhelpful behaviours/attitudes towards procedures

Can generalize into interesting areas/ can not generalize into expected areas

It's different for every needle phobia person- what it easier/harder, included/not included, and the specific concern...

### Common concerns associated with needle phobias

Needles hurt/ I can't cope with the pain	What if I faint	I can't handle the sight of it/ the sight of blood	I will feel trapped	A needle piercing the skin is the worst feeling ever	It will be dehumanizing/ it will be done against my wishes
I will be out of control/ I can't handle being out of control	Something could go terribly wrong	What if I have a panic attack	Injections are disgusting/unnatural	It always goes badly	I will freak out and it will be embarrassing

### Development of phobias

Traumatic event in childhood

Negative learning experience

Vicarious learning experience

Negative portrayal influencing initial learning

Lack of latent inhibition

### Maintenance of phobias

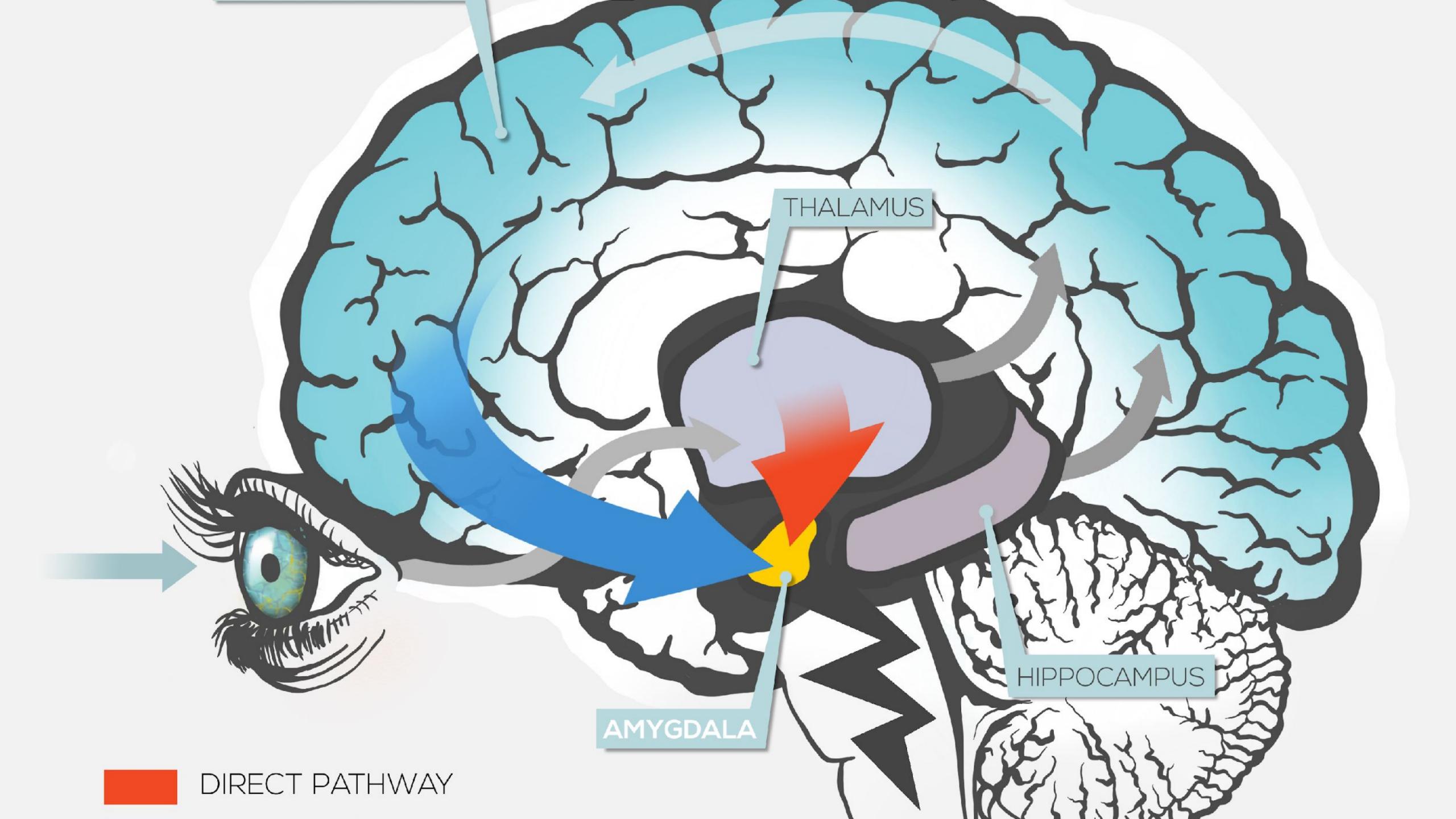
Subsequent reinforcing events

Avoidance/ subtle avoidance behaviours

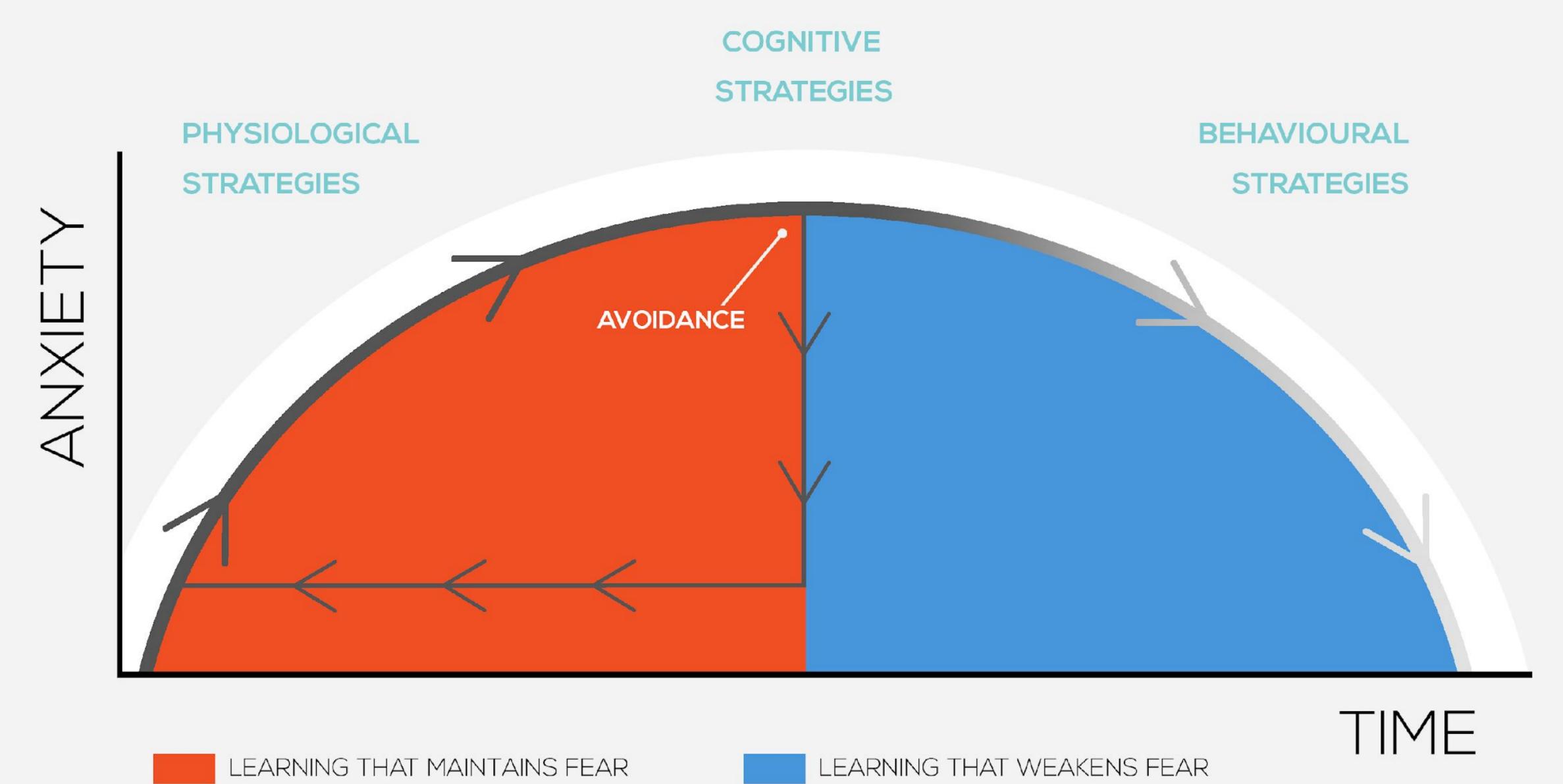
The phobic avoidance can actually create self-fulfilling reinforcing events, by avoiding proactive positive health appointments, this leads the 'big ones' as the remaining events, reinforcing the horror of all medical procedures



Anxiety Symptom	Adaptive response		
Disturbed breathing rate	Increase oxygen available to the body		
Increased heart rate	Transport oxygen around the body		
Sweating	Cool body down		
Nausea/ butterflies	Suspend digestion, redivert resources		
Agitation/restlessness	Preparation for action		



## **Learning Theory**



## CBT example of phobic cycle:

Getting an injection

#### Behaviour:

Avoid, delay, use unhelpful coping strategies, have several attempts, need companion/s

#### Concerns

pain, error, or further injury, loss of control, having a traumatic experience, and the fear of becoming anxious, fainting, and not coping

#### Symptoms:

physiological
symptoms of increased
heart rate, breathing
disturbance, nausea,
sweating, shaking, and
agitation which may or
may not culminate in
full blown panic attacks
and/or fain

### Impact of needle phobia

professionals

BII phobic individuals:
Have a strained relationship with the health system
Outright avoid medical procedures of concern
Rely on a suite of unhelpful coping strategies

Are time-consuming and somewhat burdensome on medical

They are individuals who are not having investigative blood tests and so are not discovering underlying health conditions in the earlier stages; individuals who are not considering family planning due to medical procedures involved in pregnancy and labour, or who are not having routine procedures during pregnancy at the risk of their health and the health of their pregnancies. These are certainly individuals who are not having recommended vaccinations for flu season, travel, or to protect vulnerable members of our community (whooping cough).

Therefore, we expect that this is a group who would avoid, or at least procrastinate, getting any upcoming COVID vaccine and thereby interfere with national goals for vaccine uptake.

### The impact of COVID on needle phobia



We have seen an increase in needle phobia referrals

We have seen concerns directly related to COVID-

Media related (difficulty watching the news due to images shown)

Concern for messaging around vaccination

Anxious apprehension about vaccines and the need to have one

Treatment needs to commence in advance of when an injection is needed Treatment takes longer for BII phobias (compared to other phobias, ie animals)



99

"We are very pleased oVRcome approached us to pilot the Distraction app.

My patients feel relaxed and less anxious before and during some procedures like injections or minor surgeries.

This is a great example of how Virtual reality intersects with medicine and we are pleased to be the first clinic in New Zealand to embrace this technology in General Practice."

### Dr Pleayo Tovaranonte

Doctors on Cashel, Christchurch



### What can you do?!

Identify the signs of needle phobia

Normalise, don't dismiss, the concerns

Educate on the reinforcing effect of phobic behaviour and the effectiveness of treatment

Refer proactively to an appropriate service

Be more involved in the gradual exposure

Recognise the time required for treatment

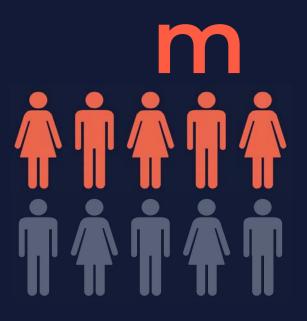


The Size of the Proble

# Needle Events in AUS – 128.4m per year (pre COVID-19)

- Vaccinations 2.6m
- Hospital Interventions 21m
- GP Injections 9m
- Blood donations 1.3m
- Pathology 94.4m

Most people don't like needles



50%

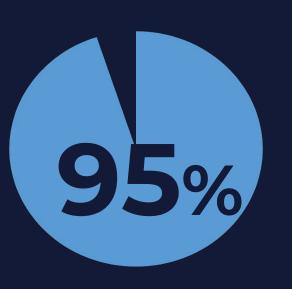
poor experience such as

poor experience such as pain, bruising, anxiety, repeated insertions.



\*NeedleCalm survey 2018, n=413 39

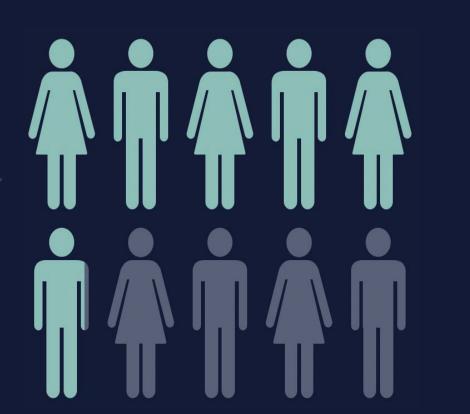
reluctant to have the procedure again.



do not like having the procedures due to pain, needles, bruising, time consuming, and anxiety provoking.

Needle Phobia (Blood Injury Injection – DSM5)





95% Goal

Increase patient uptake to national COVID-19 vaccine strategy