

Shake It Off:

A Very Low Energy Diet Protocol to Reverse Diabetes in Remote Aboriginal Communities



Grace Nell - Dietitian



Objectives

- A brief history of Shake It Off
- The Shake It Off Algorithm
- Very Low Energy Diet (VLED) resources
- Outcomes so far and lessons from Utju



A little about Utju





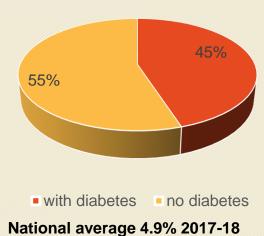
It's a big problem:

Adults with overweight or obesity

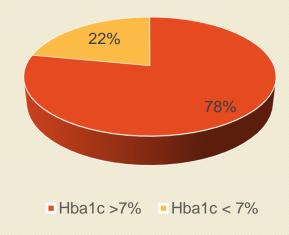


National average 67% 2017-18

Adults with Diabetes



Control of diabetes in Utju





The burden of illness is significant

 Anangu are being diagnosed younger, with sequalae from a young age



Thoughtful responses are needed urgently





THE LANCET

ARTICLES | VOLUME 391, ISSUE 10120, P541-551, FEBRUARY 10, 2018

Primary care-led weight management for remission of type 2 diabetes (DiRECT): an open-label, cluster-randomised trial

Prof Michael EJ Lean, MD † • Wilma S Leslie, PhD • Alison C Barnes, PGDip • Naomi Brosnahan, PGDip • George Thom, MSc • Louise McCombie, BSc • et al. Show all authors • Show footnotes

Published: December 05, 2017 • DOI: https://doi.org/10.1016/S0140-6736(17)33102-1 •



What is a Very Low Energy Diet?

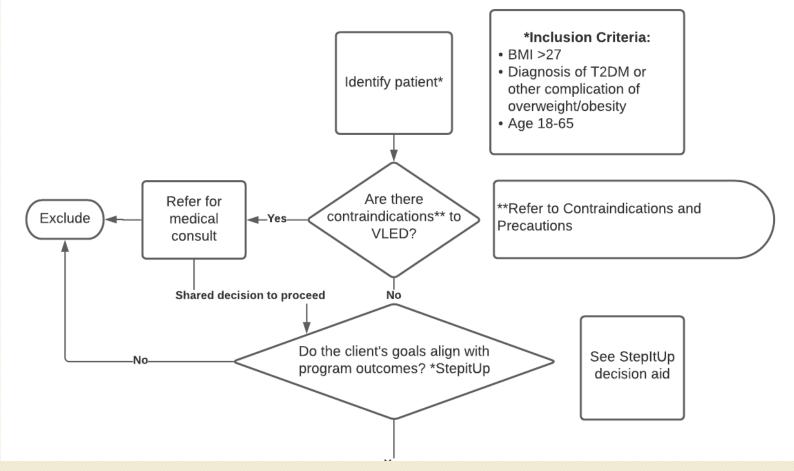




Shake It Off: Getting started

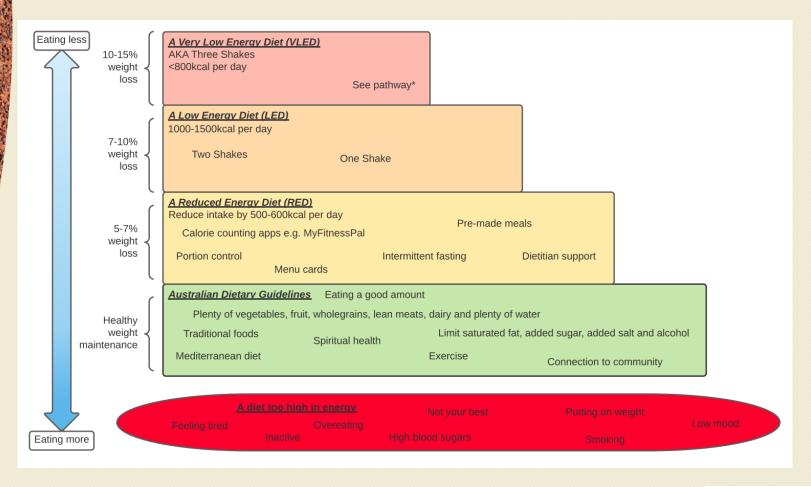


Shake It Off: Very Low Energy Diet Algorithm



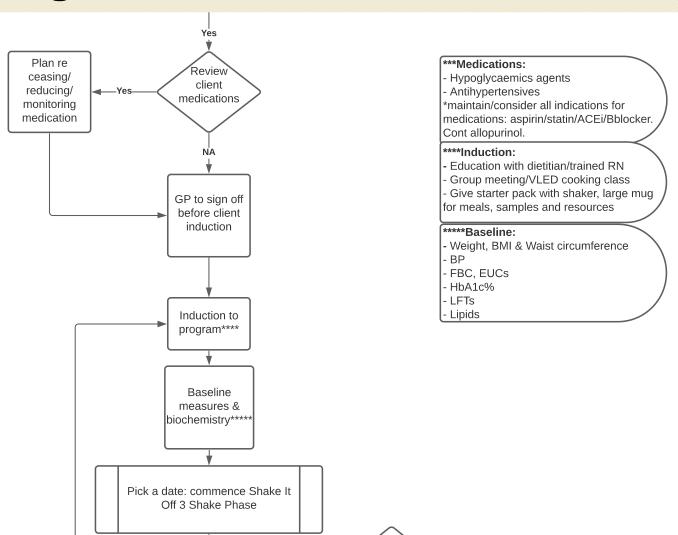


StepltUp: aligning expectations



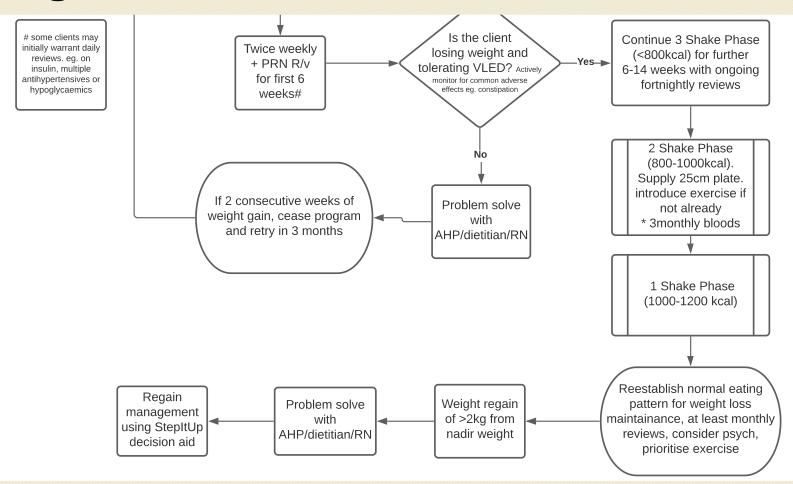


Shake It Off: Very Low Energy Diet Algorithm





Shake It Off: Very Low Energy Diet Algorithm





Collaboration with the store:

- To ensure appropriate foods are available
- Utju Store showed a real willingness to participate, ordering some diet products



Contextually relevant resources

 Using products available in Utju, we developed menus for Anangu with items available in their store



SHAKE IT OFF: VERY LOW ENERGY DIET



Resource Pack Key

Three Shakes

Two Shakes One Shake

Stay **Healthy**



CHOOSE THESE DRINKS

















Have your tea/coffee black or with 30mL skim milk, and no sugar

















VEGGIE SOUP

2 serves











1. Mix veggies

2. Cook in a pot

3. Stir and enjoy





GARDEN SALAD











- 1. Chop veggies
- 2. Add olive oil
- 3. Stir and enjoy

2 serves









EASY BEEF CHOW MEIN













4 serves













SPAG BOL









4 serves









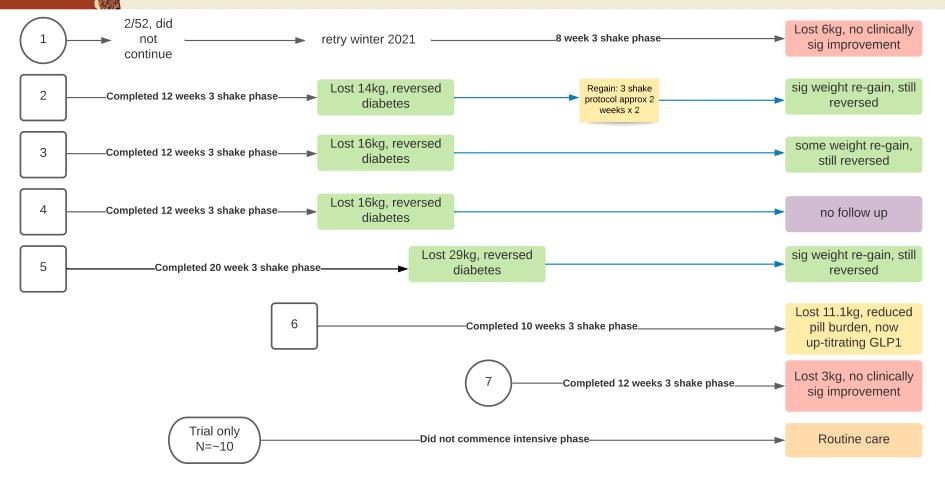


Initial cluster in Utju

- Initial cluster of 5 participants starting Jan 2021
- all diabetic
- Diagnosed between 1-10 years ago



Results so far



January 2021————October 2021



Participant and community feedback

- Overwhelmingly positive
- Many have reported significant improvements in the QOL, sleep, energy, snoring, not taking tablets, buying new clothes
- Started playing footy again!



Participant identified barriers

- Smell of KFC, sorry business, travel, significant life stressor, celebrations
- Family offering inappropriate food, or eating participant's VLED meals
- Truck deliveries





- Clusters, rather than ad-hoc
 - Possibly households/family groups
 - 3-4 clusters per year, with bursts of input from our dietitian
 - Allows us to prioritise equipping sessions at initiation and transition phases with dietitian
 - Esp for clients gaining weight
 - Plan for appropriate staff to be available to assist participants – EP, dietitian roles to be advertised





Keeping the weight off

- All participants have regained at least some weight
- hyperphagia/ hypometabolism
- There is some evidence that significant fluctuations in weight can be harmful
- Intervention group weight was lower at 2years than standard care in DiRECT



Keeping the weight off

Brief formula low-energy-diet for relapse management during weight loss maintenance in the Diabetes Remission Clinical Trial (DiRECT)

Brosnahan, N. (b), Leslie, W., McCombie, L., Barnes, A., Thom, G. (b), McConnachie, A. (b), Messow, C. M. (c), Sattar, N. (d), Taylor, R. and Lean, M. E.J. (d) (2021) Brief formula low–energy–diet for relapse management during weight loss maintenance in the Diabetes Remission Clinical Trial (DiRECT). *Journal of Human Nutrition and Dietetics*, (doi: 10.1111/jhn.12839) (PMID:33406285) (Early Online Publication)



Text

225819.pdf - Accepted Version Restricted to Repository staff only until 6 January 2022. 380kB

80% of participants were offered relapse weight management plans within 2 years

- 1/3 did manage to lose the weight they gained

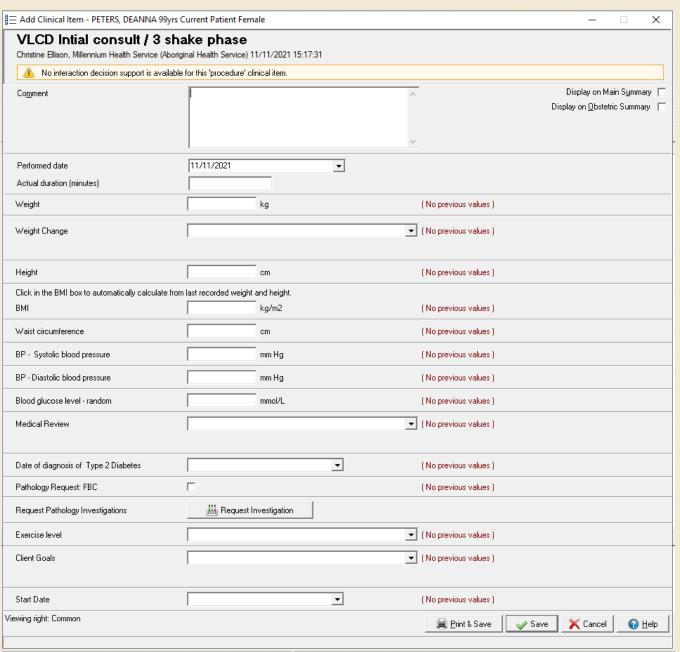
Possible role for GLP1 analogues moving forward – although STEP4 trial showed significant weight regain promptly on cessation of semaglutide



- Funding— who pays?
 - Optislim is about \$4/day retail (\$336 for 12 weeks) -
 - Optifast/Optislim Platinum Plus (higher protein) about \$8/day
- Sustaining trained staff
- Needs to be primary care focus, and widely available. A champion in each clinic.



Monitoring and evaluation







Questions?

