ALEXA DIABETES CHALLENGE TEAM SUGARCANE









*Type1 diabetes since 15 years



*Type2 diabetes since 10 years



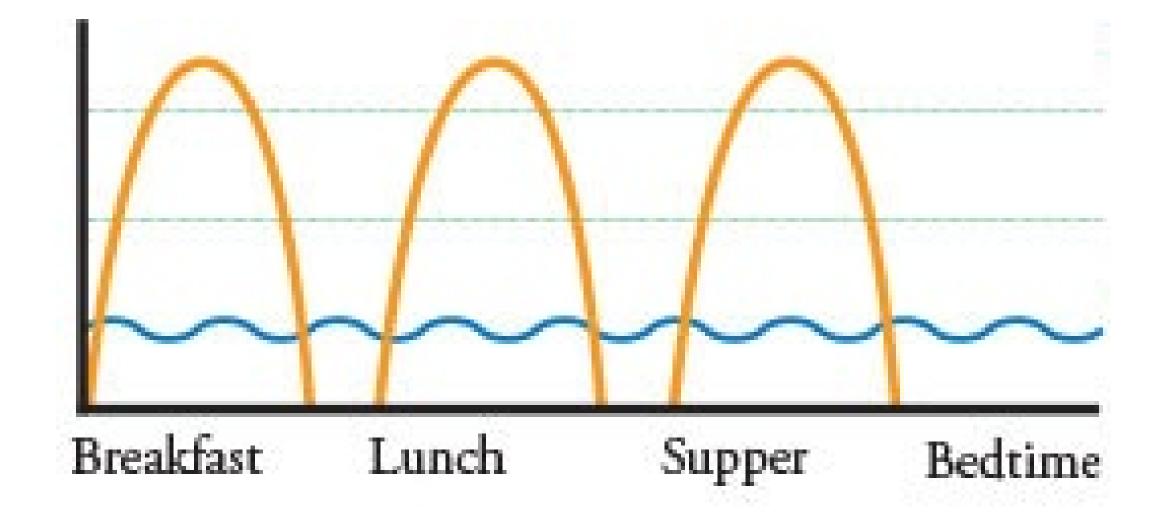
*honeybadger



*cookiemonster

INSULIN DOSING IS A FULL-TIME JOB

CONSTANT MONITORING



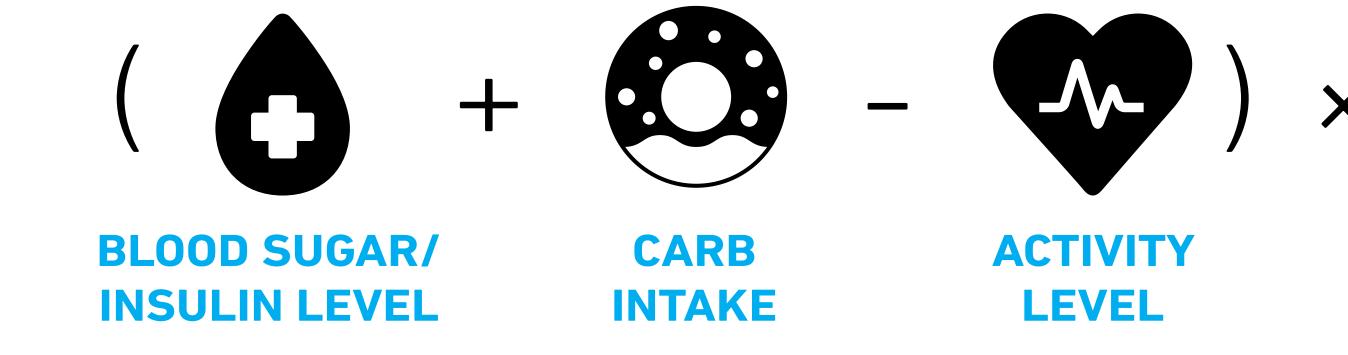
SEVERAL TIMES A DAY

INSULIN

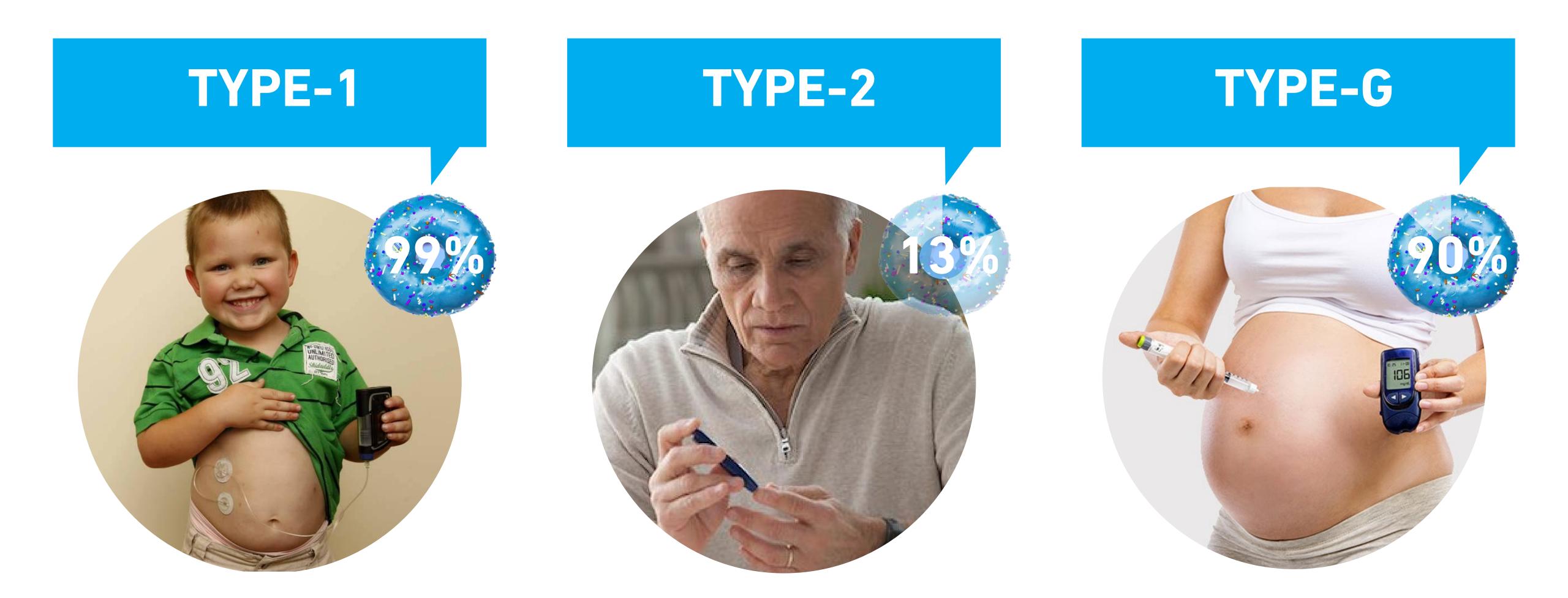
BOLUS

PERSONALIZED

CORRECTION







60% of all people with diabetes calculate their bolus insulin doses wrong and end up in hypo- (life threatening) and hyperglycaemia (harmful to organs). This is mostly because of impairments, laziness or context (hands dirty while cooking).

^{*}Sussman et al J Diabetes Sci Technol. 2012 Mar; 6(2): 339-344.

ALEXA ... TELL SUGARCANE I WANT TO CALCU-LATE MY BOLUS.

YOUR CURRENT... SENSOR CLUCOSE

YOU SHOULD/NOT EAT SOMETHING.

THIS CONTAINS [...]

THIS WAS LOGGED



IF YOU FEEL BAD

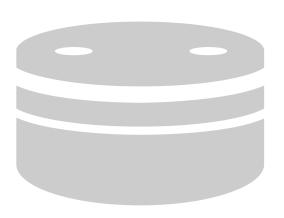
ALEXA CALL [...]



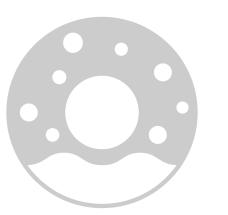


EMERGENCY CALL





ALEXA SUGARCANE





INSULIN DOSE

FOOD INTAKE

ACTIVITY



CONNECTED SENSOR + WEB SERVICE

FOOD DATA WEB SERVICE

MONITOR*

ALEXA ... TELL SUGARCANE I WANT TO CALCU-LATE MY BOLUS.

YOUR CURRENT... SENSOR CLUCOSE IS [...] MMOL/L.THIS IS LOW/HIGH/OK.

YOU SHOULD/NOT

EAT SOMETHING.

DO YOU WANT TO?

THIS CONTAINS [...]

THIS WAS LOGGED



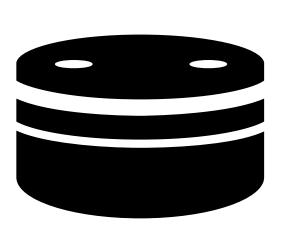
IF YOU FEEL BAD

ALEXA CALL [...]

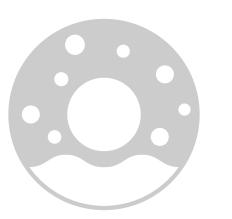


EMERGENCY CALL

USER FACTORS



ALEXA SUGARCANE





FOOD INTAKE

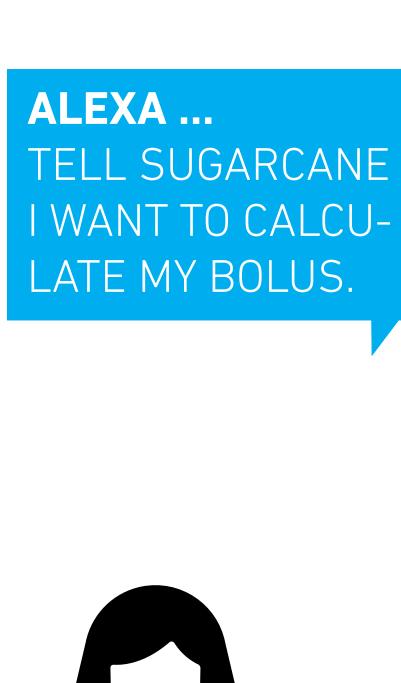


FOOD DATA WEB SERVICE

CONNECTED SENSOR + WEB SERVICE

ACTIVITY MONITOR*

PROTECTED DATABASE*



YOUR CURRENT... SENSOR CLUCOSE IS [...] MMOL/L.THIS IS LOW/HIGH/OK.

YOU SHOULD/NOT

EAT SOMETHING.

DO YOU WANT TO?

YES/NO... I WANT TO EAT [...] THIS CONTAINS [...]

THIS WAS LOGGED



IF YOU FEEL BAD

ALEXA CALL [...]

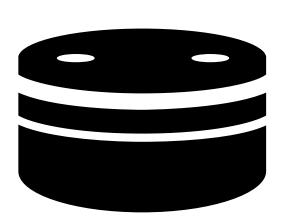


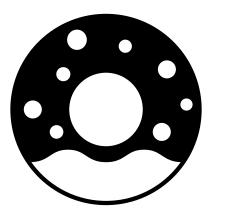
EMERGENCY CALL



PROTECTED

DATABASE*







INSULIN DOSE

ALEXA SUGARCANE

FOOD INTAKE

ACTIVITY MONITOR*

CONNECTED SENSOR

+ WEB SERVICE

FOOD DATA WEB SERVICE

ALEXA ... TELL SUGARCANE I WANT TO CALCU-LATE MY BOLUS.

YOUR CURRENT... SENSOR CLUCOSE IS [...] MMOL/L.THIS IS LOW/HIGH/OK.

YOU SHOULD/NOT

EAT SOMETHING.

DO YOU WANT TO?

I WANT TO EAT [...]

YES/NO...

THIS CONTAINS [...] OF CARBS. WITH AN EXCHANGE FACTOR OF [...] YOU WILL NEED [...] BO-LUS UNITS FOR YOUR TARGET.

THIS WAS LOGGED



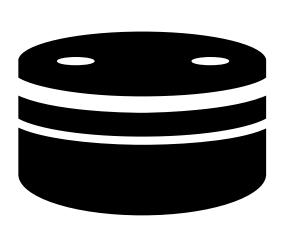
IF YOU FEEL BAD

ALEXA CALL [...]

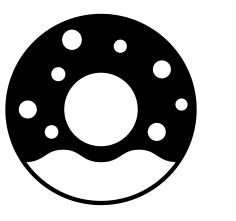


EMERGENCY CALL

USER FACTORS



ALEXA SUGARCANE





FOOD INTAKE INSULIN DOSE



PROTECTED

DATABASE*



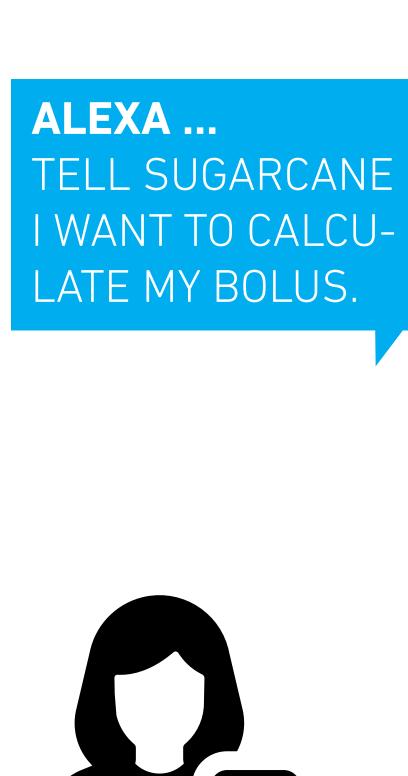




FOOD DATA WEB SERVICE

CONNECTED SENSOR + WEB SERVICE

ACTIVITY MONITOR*





YOU SHOULD/NOT

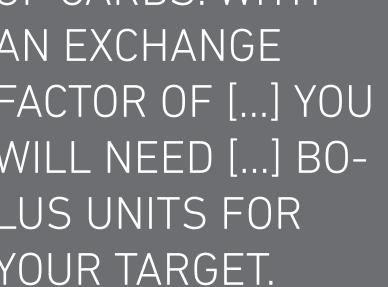
EAT SOMETHING.

DO YOU WANT TO?

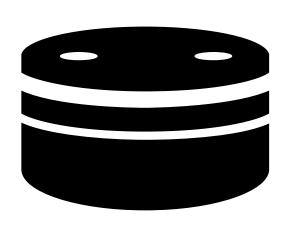
YES/NO... I WANT TO EAT [...]

OF CARBS. WITH AN EXCHANGE FACTOR OF [...] YOU WILL NEED [...] BO-LUS UNITS FOR YOUR TARGET.

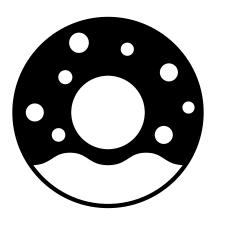
THIS CONTAINS [...]



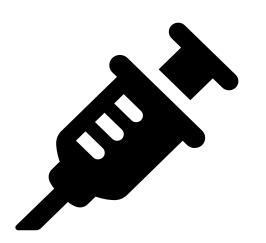




ALEXA SUGARCANE



FOOD INTAKE



INSULIN DOSE







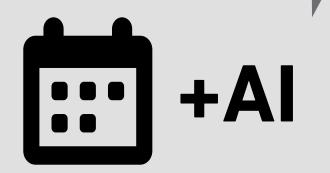
CONNECTED SENSOR + WEB SERVICE



FOOD DATA **WEB SERVICE**



ACTIVITY MONITOR* THIS WAS LOGGED IN YOUR SMART DIABETES PLAN.



AUTOMATED LOG & PERSONALIZED DOSING*

IF YOU FEEL BAD PLEASE TELL ME!

I DON'T FEEL WELL **ALEXA CALL** [...]



EMERGENCY CALL

IT SEEMS SMALL BUT A BETTER BOLUS CALCULATION ...



- makes it simple to calculate correct dose and blood sugars in target range
- especially helps dependent people like children, elderly people or with eye complications

- less acute emergencies
- increase patient's and families' quality of life
- better prognostic outcome through personalized dosing, less complications on nerves, eyesight and kidneys

SWEET, THANKS!

