

PREPI

Addressing the stress of living with severe food allergies

10 week school project with Lulu McRoberts



BRIEF

Design a product that reduces stress.

PERSONALIZED BRIEF

Design a product that reduces the stress **for all those who are affected by severe food allergies.**

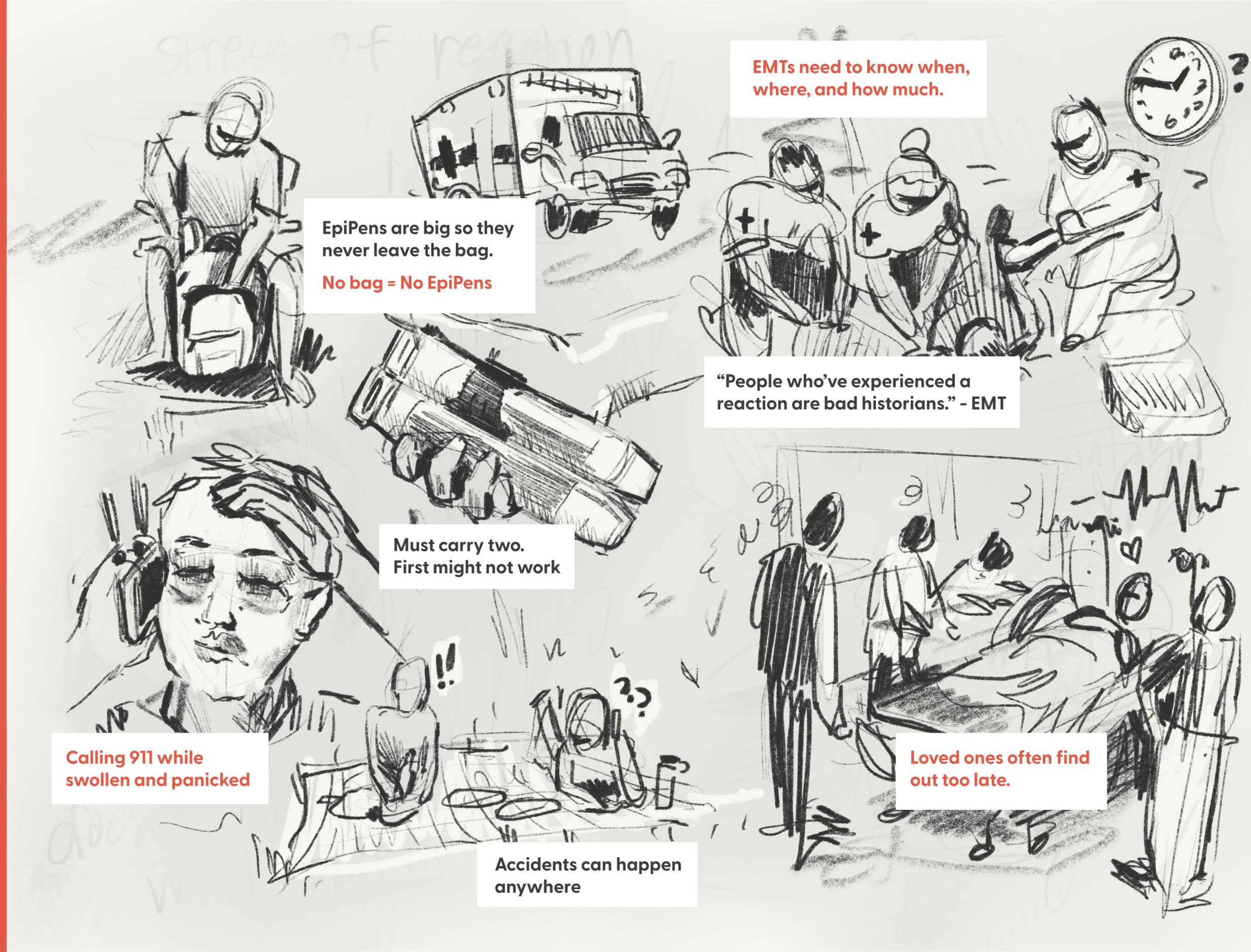
I knew someone who died from eating a peanut butter cup.

Severe allergies affect everyone who loves someone with this condition.

RESEARCH

What is it like living alongside or living with severe allergies?

What's most stressful for whom?



EpiPens are big so they never leave the bag.

No bag = No EpiPens

EMTs need to know when, where, and how much.

“People who’ve experienced a reaction are bad historians.” - EMT

Must carry two. First might not work

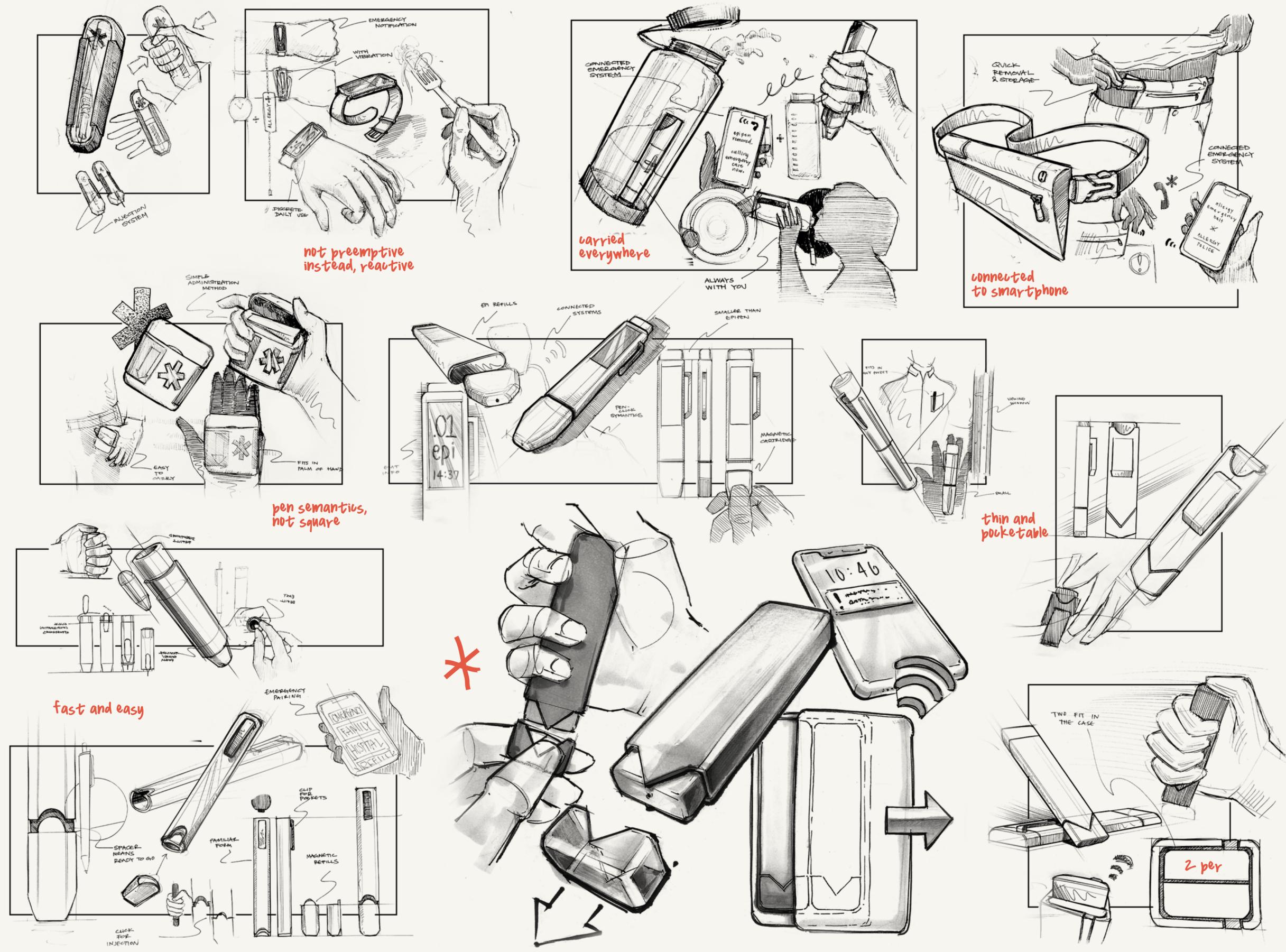
Calling 911 while swollen and panicked

Loved ones often find out too late.

Accidents can happen anywhere

IDEATION

How can we better assist people around the time of an allergic reaction?



VIABILITY

Can an injector get that small? Is this tech possible?

YES!



large springs

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2013

“Redesigning and Incorporating the EpiPen into a Smartphone Case.”

Kayvon Ghoreshi
University of Connecticut - Storrs

VS.



CO₂ cartridge

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Recommended Citation

Ghoreshi, Kayvon, “Redesigning and Incorporating the EpiPen into a Smartphone Case.”
https://opencommons.uconn.edu/srhonors_holster/14

Figure 3: Auvi-Q Patent Drawing (Edwards, 2011)

REVISITING THE PROBLEM

Does this design actually mitigate stress? How is it addressing the experience of all those affected by severe allergies?

Addressing allergy dangers and empowering those involved.

Everything you'll need after epinephrine injection.

Empower paramedics with current location and time of injection.

Immediate directions. It can be faster to get to the hospital yourself.

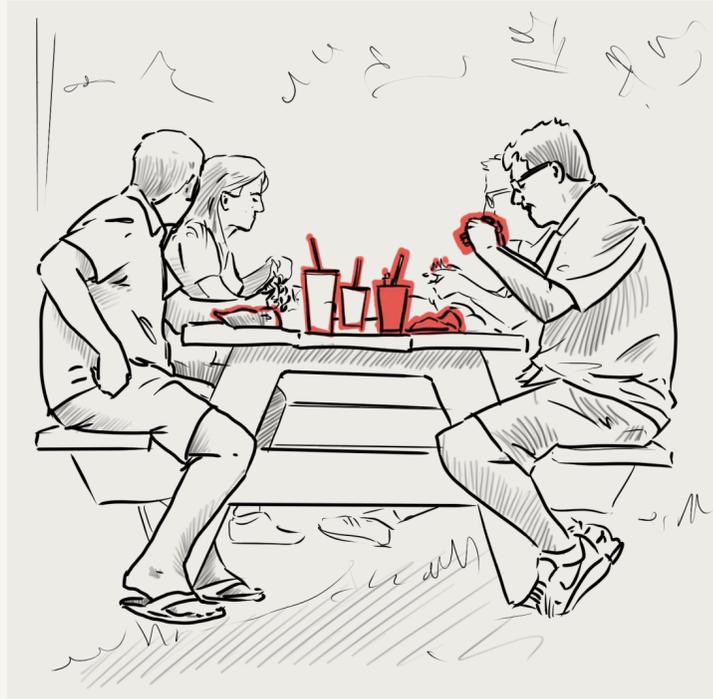
Notify loved ones with customizable messages.



PREPI

for severe allergies

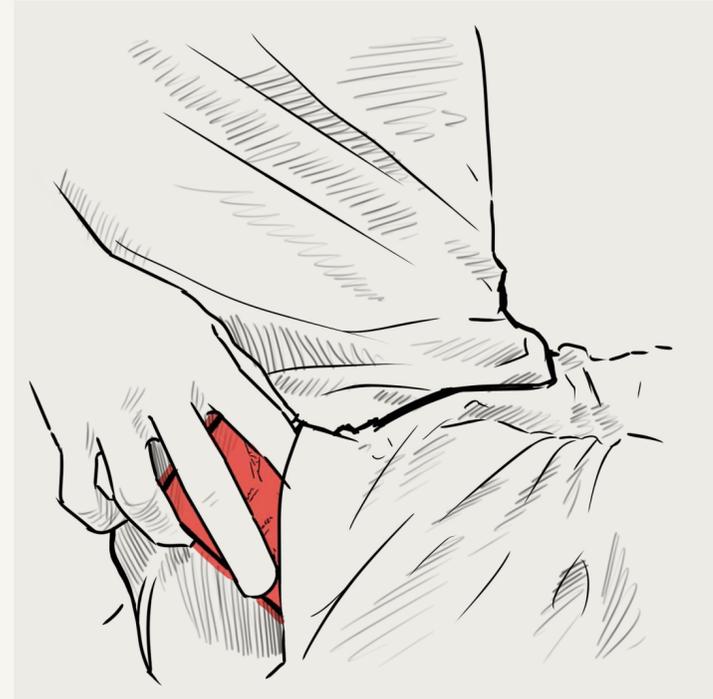




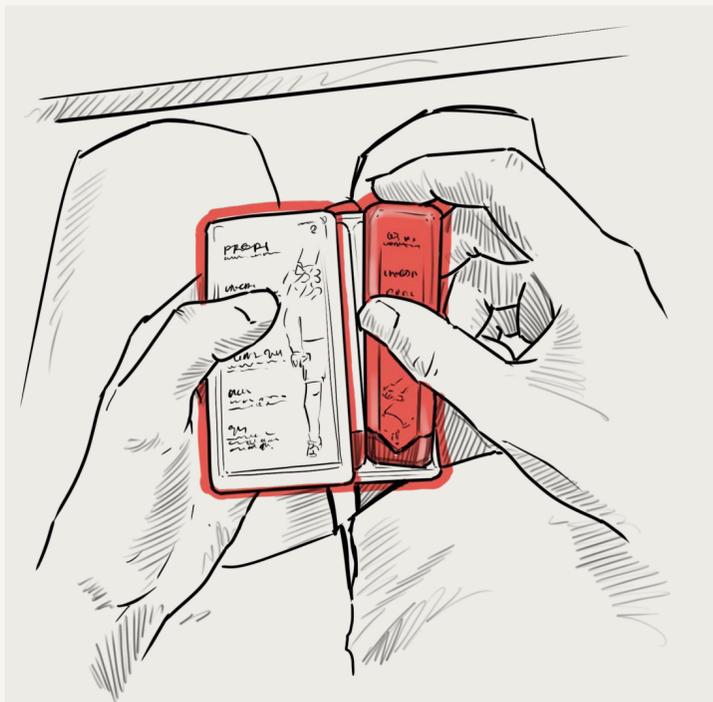
1 Accidents can happen anywhere



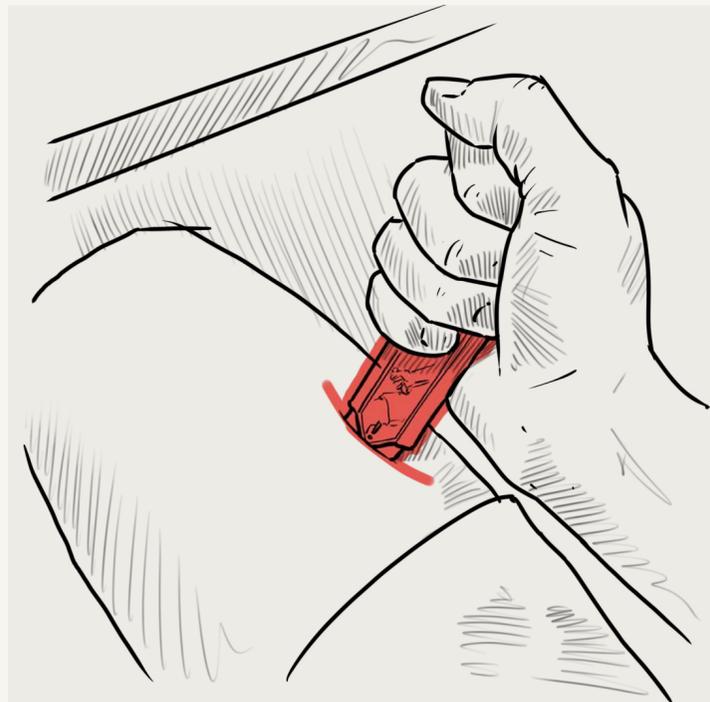
2 Severe reactions are dangerous



3 Take out PREPI



4 Remove the injector



5 Administer epinephrine



6 Quickly access emergency services

