Health risk and workers' compensation calculator:

An online resource for businesses

Natalie Schwatka, PhD



Overview

- Background
- Development
- Final product
- Evaluation

Partners

CHWE:

- Lili Tenney
- Miranda Dally
- Lee Newman
- David Weitzenkamp

Human Design

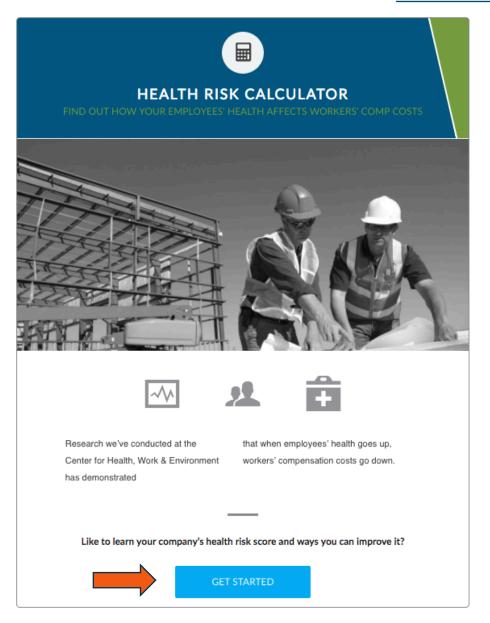
Pinnacol Assurance (funder):

- Jim McMillen
- Karen Curran

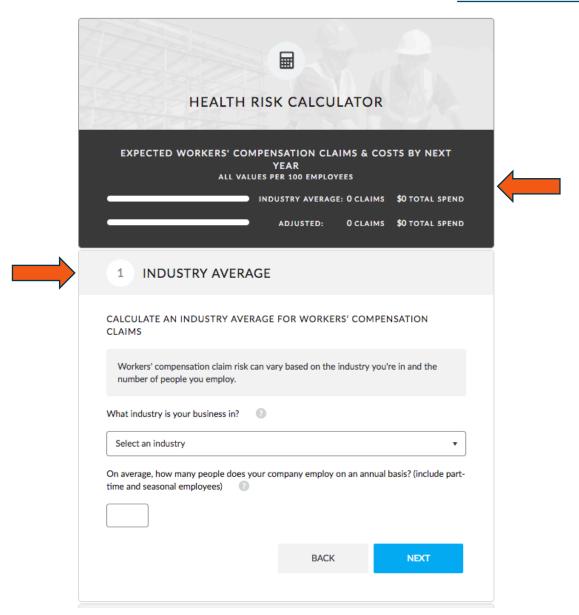
Segue consulting

Claire v.S. Brockbanks

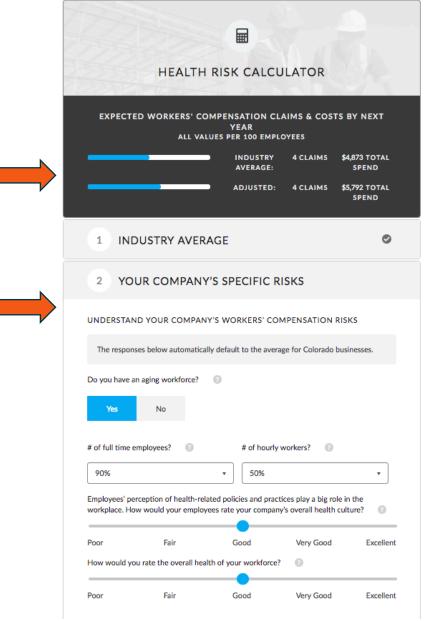
Welcome page



Step 1

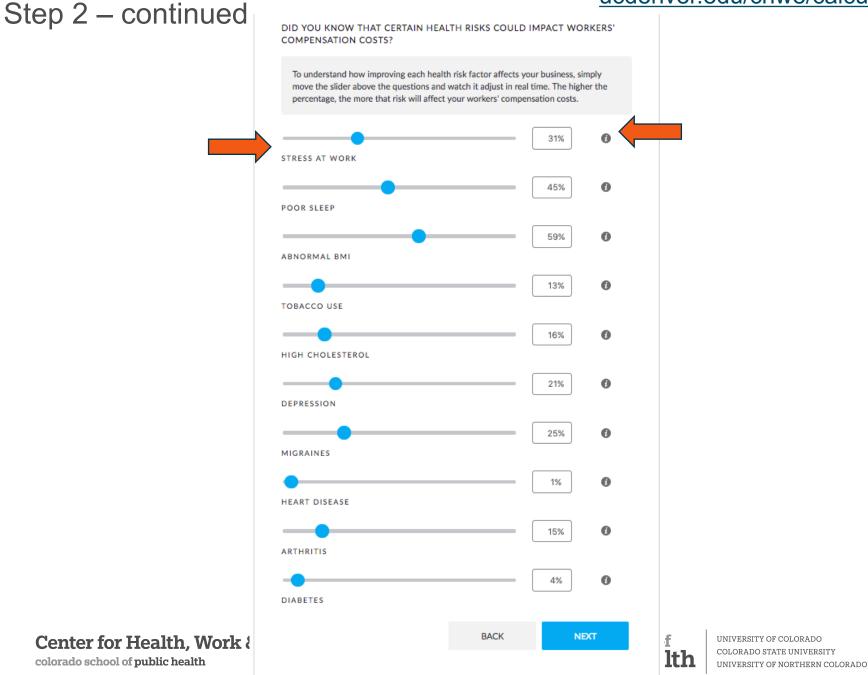


Step 2

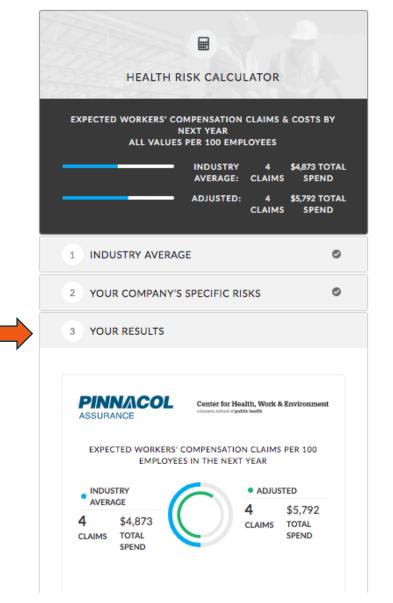


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Step 3



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Step 3 - continued





SO HOW DID YOUR COMPANY DO?

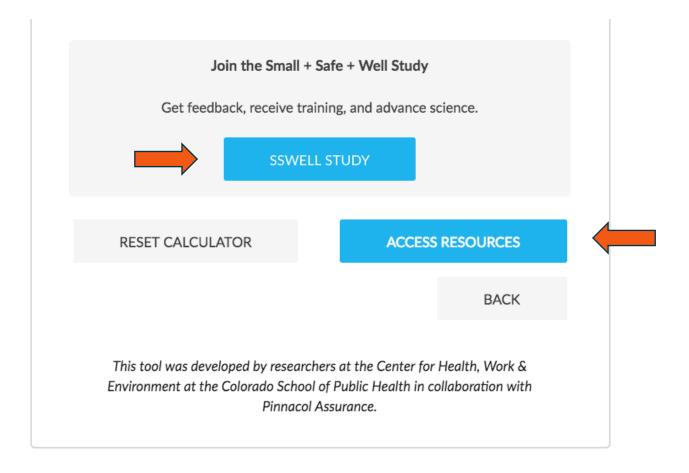
As you can see, small changes really do add up. Are you ready to commit to doing more? Let us help.

Here are three quick ways you can get started.

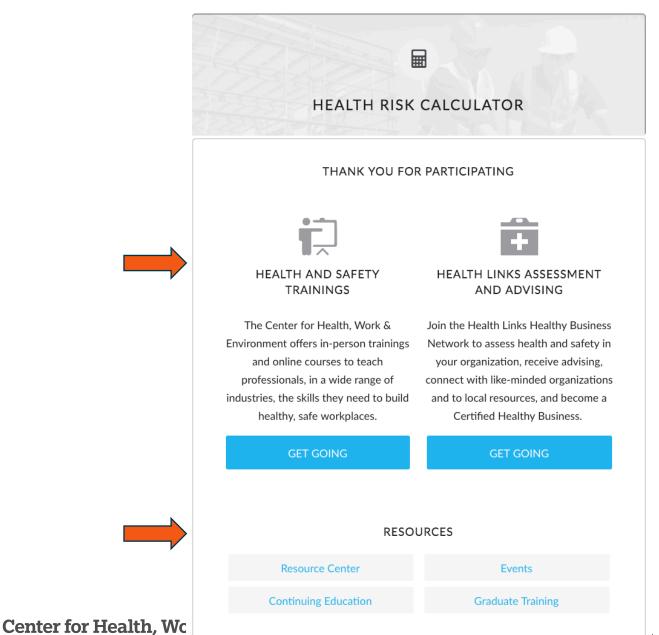
- Share these results within your company management, safety, human resources, employees and more – using the print or share functions below.
- 2. Sign up for the Small + Safe + Well (SSWell) study.
- 3. Join the Health Links Healthy Business Network.







Resources



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COLORADO STATE UNIVERSITY
UNIVERSITY OF NORTHERN COLORADO

Background

- Empirical research to understand health*workers' compensation
- Recognized a need to translate and disseminate empirical findings into practice
- Online, interactive calculators are popular, educational tools













The AARP Health Care Costs
Calculator is an educational tool
designed to estimate your health
care costs in retirement. You
can include your spouse too.

Already retired? Use this tool to help you predict your costs over the coming years.

Get Started >

Call to action

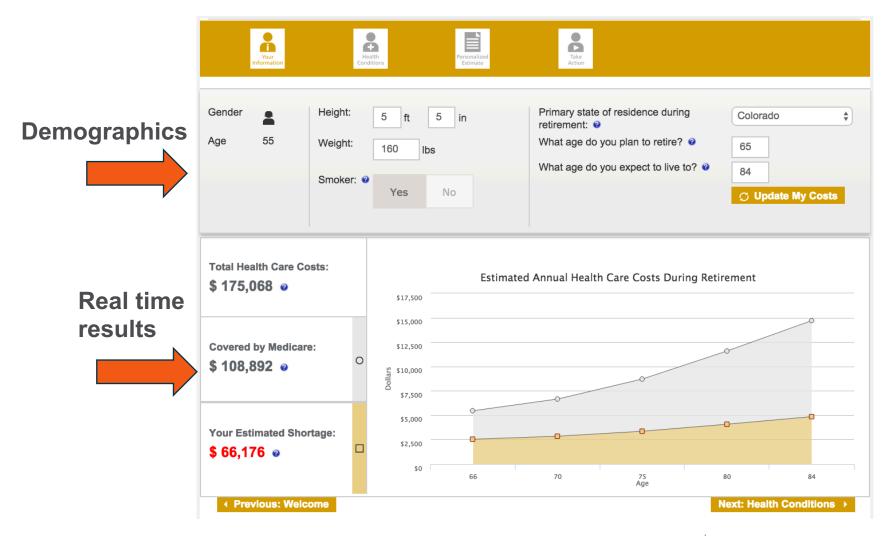


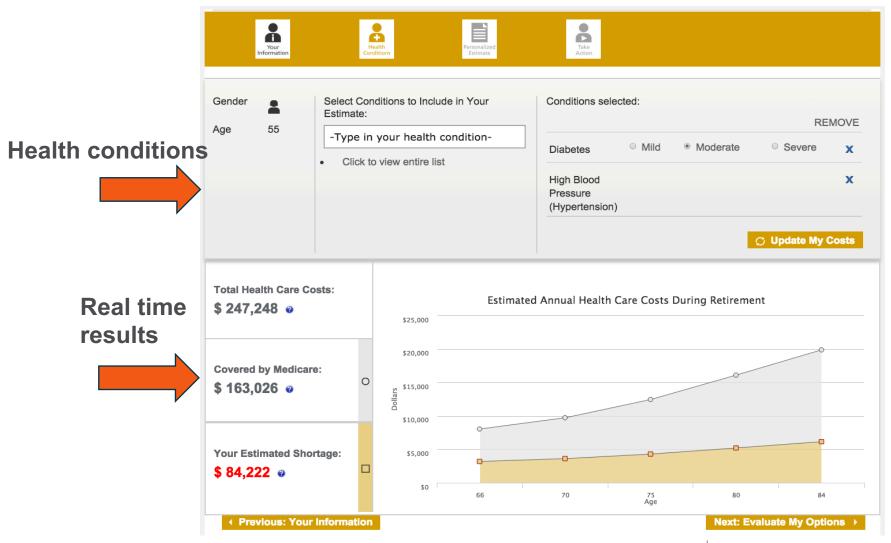


Things to Know Before You Start

- · AARP does not save any information you put into the tool.
- Experiment with adding different health conditions (such as those in your family history) to see if they increase or decrease your costs.
- Click on the suggested actions you can take that may help lower your costs you'll see your estimate change based on what you select.
- Take advantage of resources at the end that can help you begin to tackle you long-term health and savings goals.



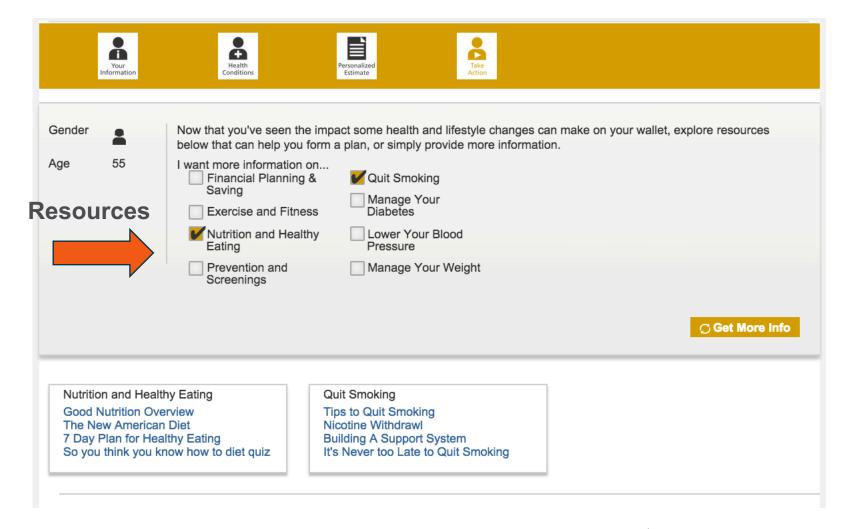




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Example #1 – Final page





Compensation

Connect with a Safety
Consultant!
Call us at 1-866-569-7805

Email us

Starts with Safety Safety Starts at BWC

How safe is your industry? Compare the numbers - Get solutions
Pick your industry and the number of employees in your business to learn more.



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How do you compare to these average rates?

Construction

\$ 10-49 **\$**

The following are average costs per claim for your industry

Average cost per claim \$9.287.57

Average cost for a medical only claim \$1,069.03

Average cost for a lost time claim

\$40.667.49

These average rates are estimated per 100 employees

Rate of claims 3.99

Rate of medical only claims 3.17

Rate of lost time claims .83

Results

Leading cause of injury in the workplace

- 1. Slips, trips and falls
- 2. Overexertions

More than 40% of all claims and more than 60% of lost time claims are caused by slips, trips and falls and overexertions.

now! Call us at 1-866-569-7805

Whether you are higher, lower or average, we can help you improve on safety. See how, click below!

- 1. One on one consultation Our consultants can help you improve safety. Select from industrial hygienists, ergonomists and safety consultants.
- 2. Training and education We offer more than 80 online and inclass courses delivered in 11 locations across the state.
- 3. **BWC safety libraries** We offer safety training videos and research assistance.
- 4. Safety grants Eligible recipients may receive money for one of three things; equipment to reduce injuries, starting a wellness program or creating a drug-free program in the workplace.

Email us

Connect with a Safety Consultant

Resources

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Health Risk Calculator

Purpose:

To <u>educate</u> businesses about the relationship between employee health and workers' compensation claims, and <u>provide them resources</u> to take action.

Target users

Health and safety community:

- Wellness services
- Safety and Health Consultants
- Health Links Advisors

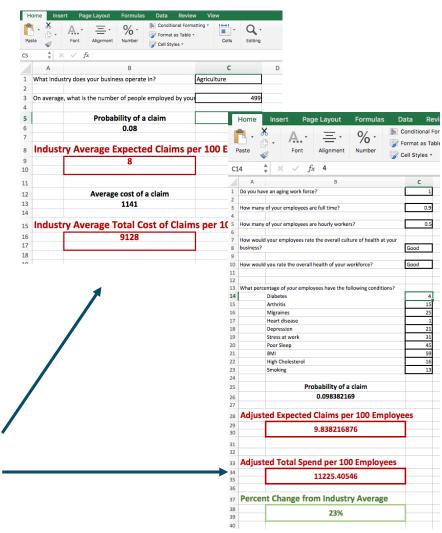
Busineses:

- Owners
- Health + Safety Managers
- Risk Managers



Algorithm Development

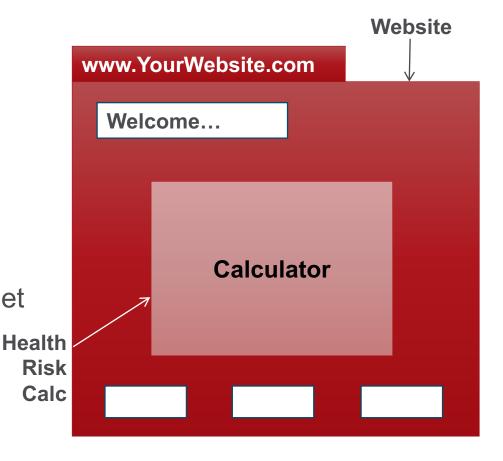
- Use data from the Pinnacol Assurance Health Risk Management Study
- Logistic and generalized linear models, controlling for demographics using SAS
- Translate into an excel calculator
 - Step 1 Business information
 - Step 2 Health information



Web application development Main concept

 Partnership with Human Design, a local creative agency with expertise in healthcare web design

 Design a white-label application to act as a widget to be inserted into many webpages



Web application development User experience features

- Interactive
- Customizable
- Step-based process
- Educational
- Visual
- Results + Resources to take action
- Sharing features



Structure / User experience Awareness, Learning, Action

- 1. Welcome page Purpose and call to action
- 2. Step 1 Estimate baseline work comp risk
- 3. Step 2 Adjust risk based on health
- 4. Step 3 Your results
- 5. Resources

Beta testing via focus groups Key findings

- Engaging design and good marketing tool
- Unsure of how to answer health risk questions
- Unsure of how to interpret
- Functionality issues
- Reaction to use different between OHS community and businesses



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Online user survey (n=34) Access on own and provide reaction

- Most common planned activity post-use
 - Explore services
 - Share results
 - Evaluate health and safety program
 - Needs assessment



Website analytics (direct access) 4-months post-official launch

Overall number of users	313
New sessions	224 (72%)
Returning sessions	89 (28%)
Length of time spent using	1:12 minutes
Age of users	33% 25-34 27% 35-44 27% 45-54 13% 55-64
Gender of users	54% Female 46% Male
Devise used	Desktop: 298 (95%) Mobile/tablet: 15 (5%)
Visits to the FAQ page	24 (8%)
Location of users	Colorado springs Aurora Denver 0 50 100 150 200 Referral
	Number of sessions

Benefits of using the calculator

- Offers a free way to estimate workers' compensation costs based on significant employee health risk factors
- Provides a "business case" for employer safety, health and wellness programs
- Offers insight into where businesses should focus their efforts for employee safety, health and wellness
- Promotes value for business to enroll in other services

Summary

- Ground in sound research and analytics practices
- Partner with design experts
- Design adjustability into your platform
- Integrate with Google analytics for evaluation
- Market to users



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