Safety Technology and Wearables

Presented by BHHC Loss Control
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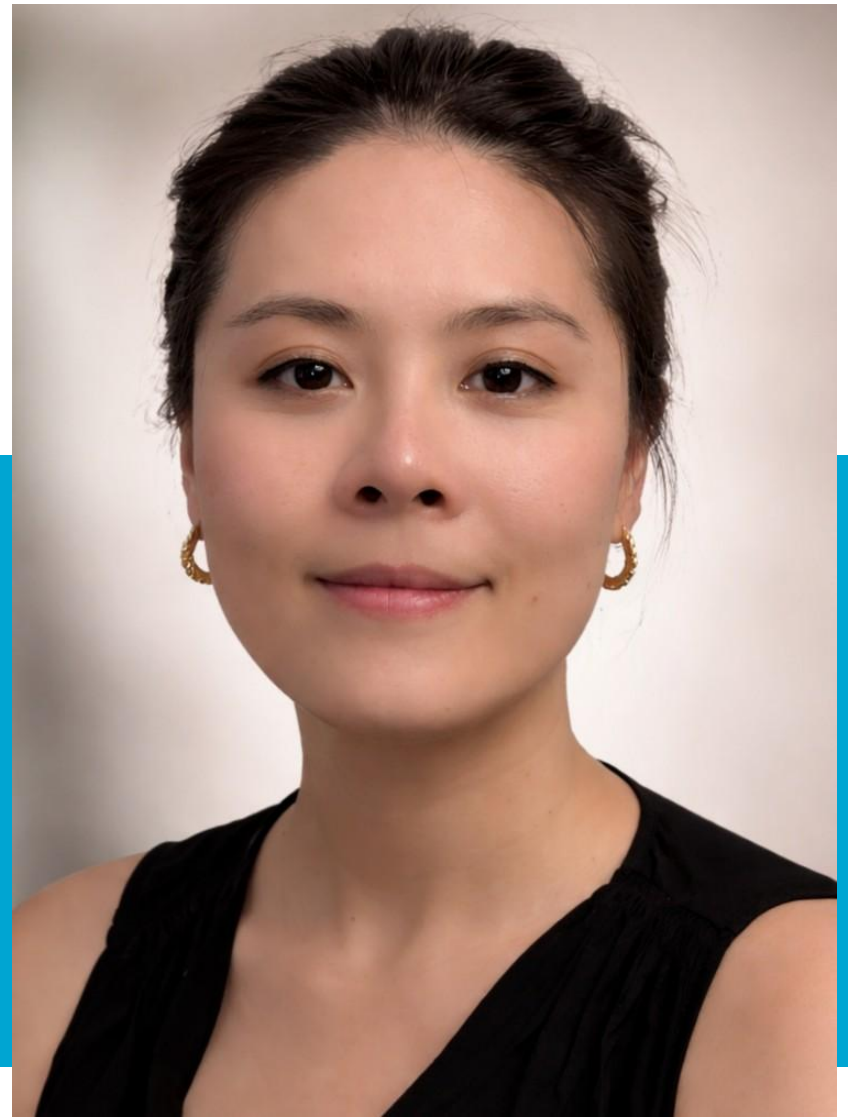
Berkshire Hathaway HOMESTATE COMPANIES
Workers Compensation Division®



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Loss Control Specialist

- 10+ Years with BHHC in Claims and Loss Control
- Associate Safety Professional (ASP) and Associate in Risk Management (ARM)
- Favorite Read: Think Again by Adram Grant

How to Use This Session

1. Your job isn’t to leave knowing everything.
2. Start from your problem, not the product.
3. We are here to help.

AGENDA

1. The Landscape
2. Case Studies
3. AI Tools for Safety Programs
4. Evaluation, ROI and Implementation

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The Landscape

Wearables & Sensors in Practice

Biometric and Fatigue Monitors

GPS and Proximity Alerts

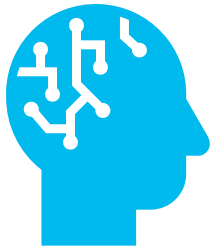
Environmental Sensors

Smart Personal Protective Equipment (PPE)

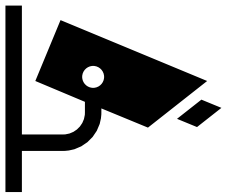
Posture and Ergo Sensors

Exoskeletons

AI and Connected Platforms in Practice



AI-enabled compliance assistants



AI-Embedded Security Systems

AR/VR for Training

From Reactive to Predictive

Reactive

- Incident Reports
- OSHA Logs
- Annual or one-time training
- Measures what already happened

Predictive

- Real-time data
- Near-miss and pattern detection
- Role-specific, continuously updated training
- Flag risks before it becomes a claim

Case Studies

PetSmart & Strongarm Tech

56%

Overall reduction in musculoskeletal disorders

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Overall reduction in musculoskeletal disorders

27%

Reduction in high-risk bending movements within the first month

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UFA and SoterCoach

PetSmart & Strongarm Tech

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Overall reduction in musculoskeletal disorders

27%

Reduction in high-risk bending movements within the first month

UFA and SoterCoach

81%

Reduction in high risk bending within 12 months

PetSmart & Strongarm Tech

56%

Overall reduction in musculoskeletal disorders

27%

Reduction in high-risk bending movements within the first month

UFA and SoterCoach

81%

Reduction in high risk bending within 12 months

67%

Reduction in recordable claims

The Honest Counterpoint

The monitoring paradox

- Involve frontline workers early
- Lead with transparency
- Separate safety data from performance data

Limited studies and research on efficacy

- Measure your own results
- Don’t just trust the brochure

Costs

- Determine ROI

AI Tools for Safety Programs

Where AI Helps

Training Content

Plain Language Translation

Incident Analysis

Anatomy of a Good Prompt

Role

Who should the AI act as?

"You're a safety trainer…"

Context

What's the real situation?

"…for a 40-person grounds crew…"

Task

What do you need?

"…write a 5-minute toolbox talk on heat illness…"

Format

How should it look?

"…plain language, 6th-grade level, 3 discussion questions."

Example: Generating a Toolbox Talk

WEAK PROMPT

“Write a safety talk about heat.”

Generic output. No audience, no reading level, no usable structure — you'll spend more time editing than it saved.

STRONG PROMPT

“You're a safety trainer for a 40-person cemetery grounds crew. Write a 5-minute toolbox talk on heat illness prevention for outdoor workers, plain language, 6th-grade reading level, 3 discussion questions at the end.”

Usable in one pass — right audience, right length, right reading level.

Example: Incident Report → Root-Cause Discussion

SAMPLE RAW INPUT

"On 8/15 approx 2:15pm, worker was moving pallet w/ manual pallet jack near dock door 4. Floor was wet from earlier rain tracked in. Worker slipped, jack tipped, worker caught foot under pallet corner. Minor bruising to L foot, worker refused medical transport, iced at first aid station. No wet floor sign posted at time of incident."

THE PROMPT

"You are a safety manager. Summarize this incident report and organize it into a root-cause discussion doc: what happened, contributing factors, and 3 questions for the safety committee to discuss."

SAMPLE OUTPUT

Incident Summary

Warehouse associate sustained a minor foot injury when a manual pallet jack tipped on a wet floor near dock door 4.

Contributing Factors

- Wet floor from tracked-in rain
- No wet floor sign posted at time of incident
- Manual pallet jack use in high-traffic dock area

Discussion Questions

- Was our rain/floor-signage protocol followed here?
- Should dock door 4 get a standing mat or non-slip treatment?
- Is there a pattern of near-misses in this zone?

Example: Regulation → Plain-Language Handout

SAMPLE STANDARD (paraphrased)

"...employers shall provide access to shade upon request, potable water in sufficient quantity, and preventive cool-down rest periods of no less than five minutes when a worker exhibits signs of heat illness, in addition to other required rest periods."

THE PROMPT

"You are a safety trainer. Translate this standard into a one-page handout for warehouse workers. Plain language, bullet points, no legal jargon. Flag anything you're unsure how to simplify without changing the meaning."

SAMPLE OUTPUT

Staying Safe in the Heat — What You're Entitled To

- Shade: You can ask for shade anytime you need it — not just during breaks.
- Water: Cool water should always be available. Drink often, don't wait until you're thirsty.
- Cool-down breaks: If you feel dizzy, headachy, nauseous, or crampy, you can take a 5-minute cool-down break — separate from your normal breaks.
- Tell your supervisor if you're not feeling well — don't wait it out.

AI flag: "'sufficient quantity' was simplified to 'always available' — confirm this matches your site's specific water-access policy."

Guardrails: Draft vs. Verify

AI drafts

Great for a first pass on training content, summaries, and plain-language rewrites — fast, cheap, and easy to iterate on.

Humans verify

Especially anything safety-critical, regulatory, or that will be distributed or relied upon by workers in the field.

Evaluation, ROI and Implementation

The ROI Framework

1. Name the problem

Pick the specific loss driver — MSDs, struck-by, heat illness — don't buy tech first.

2. Baseline it

Know your current EMR, recordable rate, and claim costs for that driver.

3. Pilot

Test in one high-risk area before any org-wide rollout.

4. Measure & scale

Compare against baseline; scale only what's proven. Set realistic timelines.

Key Takeaways

1. Learn the Landscape
2. Evaluate ROI

Questions?

Please email additional questions to losscontrol@bhhc.com