

Using decision science to drive behavior: Strategies to increase participation in RETAIN programs

Jessica Fernandez, PhD University of Maryland, College Park

# **Building on RETAIN program material**

### **Barriers to Return to Work**

### A Research-to-Practice Brief From RETAIN Technical Assistance Provider

#### **Common RTW Barriers**

This brief presents key research highlights of four return to work (RTW) barriers that injured or ill individuals commonly experience: njury characteristics, individual perceptions of injury and other psychological characteristics, health care and rehabilitation issues, and workplace issues. This brief also provides an overview of strategies for overcoming these barriers.

Retaining Employment and Talent

After Injury/Illness Network

#### Common RTW Barriers: Key Research Highlights

- Injury characteristics. The nature and severity of injury can impact RTW outcomes. Joint and muscle injuries and musculoskeletal diseases are common injuries associated with prolonged absence from the workforce.<sup>3</sup> The location of an injury (i.e., hands) can also influence the duration of workforce absences, particularly if the body part injured directly impacts the person's ability to do their job.
- Individual perception of Injury and other psychological characteristics. Individual perceptions of Injury can inhibit RTW, even if Injured or III Individuals who rate themselves as having poor health and high levels of pain are less likely to RTW.<sup>-1</sup> Mental health is another psychological factor that can impede RTW. For example, mental health factors such as depression were found to be negatively associated with RTW after occupational injury?
- Health care and rehabilitation issues. Health care and rehabilitation interventions can improve RTW outcomes,<sup>6,7</sup> and a lack of access to beneficial medical and rehabilitation services may contribute to long-term absence from the workforce. A lack of physician awareness in RTW strategies could also be abarrier.<sup>8</sup>
- Workplace issues. Workplace issues can inhibit RTW<sup>-1</sup> For instance, injuerd or iil workres who do not have supportive supervisors are much less likely to RTW in a timely fashion.<sup>33,3</sup> A lack of co-worker support has also been suchistas likely to founded work absences.<sup>11,13</sup> Similarly, workplace accommodations such as regionomic adaptions<sup>13</sup> and the availability of modified work task<sup>14</sup> Staltate RTW – however, workres may face barriers if accommodations are not available.

### . Planning for Scale-Up Yes No or NA

#### Project Action Planning

Planning for the expansion of your RETAW program involves clearly defining all components of your model (e.g., training, coordination, health care services, workforce services) to understand how these components will be implemented, by whom, and to understand the context under which the program will be implemented. The planning process should also determine what tools or resources and partnerships will be needed to support this works shot the project terms can plan accordingly.

Operational Planning and Implementation Guidance Checklist

#### Do you have an action plan that

- Includes long- and short-term objectives with related benchmarks for all key elements of the project;
  Specifies the pace of scale-up (gradual or rapid); and
- Specifies how to build shared understanding, ownership, and buy-in for RETAIN among core project partners?
- Have you engaged Phase 1 stakeholders (providers, employers, participants, etc.) to address challenges in Phase 1 and develop plans for Phase 2?
- Do you have a plan for integrating lessons learned during Phase 1 into your plans for Phase 2?
- Have you identified which program elements must be implemented to maintain the fidelity of your model (i.e., non-negotiables) and which elements can be modified or adapted for various contexts (e.g., geographic locations, health care partners)?
- Have you conducted an environmental scan to determine if other regions
   would be appropriate for RETAIN?
- Have you assessed the local context (e.g., economic, cultural, linguistic, political, programmatic) of the new regions and organizational settings to which you are expanding in Phase 2 to determine whether programmatic adaptations might be needed or whether the scale-up strategy needs to be adjusted?

•	have you assessed existing and new regions and organizational settings for	
	Impending changes that could affect implementation, either positively or negatively, and	
	Potential constraints?	

leveraged for RETAIN training?		
Have you identified existing resources and infrastructure that could support implementation?		

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### **Recruiting and Retaining RETAIN Participants**

### **Potential Challenges and Suggested Strategies**

#### Overview

A critical aspect of RETAIN projects is the recruitment, enrollment, and retention of program participants. Effective recruitment and enrollment require planning, time, patience, and flexibility. However, this process is often more difficult than anticipated and generally takes longer than planned. Challenges in recruiting and enrolling participants can have implications for the project timeline, budget, and resources.

Recruitment and enrollment are the first steps for getting injured or ill workers involved in your RETAIN project. Retention is equally important. When participants drop out of the project, this leaves a shortfall in the target enrollment numbers and increases the recruitment burden.

There are several places along the pipeline where your project might lose participants (Figure 1). Understanding where these "leaks" occur and how to remedy the problem should be an integral part of your Continuous Quality Improvement (CQI) process. This issue brief discusses common challenges and pitfalls (sources of these leaks) that RETAIN rantees should be aware of and presents

strategies for how to address these issues.

Box 1. Participant Recruitment and Enrollment and Retention Involves:

#### Recruitment

- Defining your target population and determining inclusion and exclusion criteria
- Identifying referral sources (e.g., health care providers and employers), disseminating information about the project, and ongoing stakeholder outreach
- Screening and identifying eligible participants
- Enrollment
- Describing the project and obtaining informed consent
- Enrolling participants (i.e., assignment to the intervention or control group)
   Retention
- Ensuring that participants attend

scheduled visits

- Ensuring that participants' data are gathered throughout the project
- Putting steps in place to prevent dropout



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**Retaining Employment and Talent** 

After Injury/Illness Network

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- Individual perception of injury and other psychological characteristics. Individual perceptions of injury can inhibit RTW, even if the injury itself is not considered serious.<sup>3</sup> Injured or ill individuals who rate themselves as having poor health and high levels of pain are less likely to RTW.3,4 Mental health is another psychological factor that can impede RTW. For example, mental health factors such as depression were found to be negatively associated with RTW after occupational injury.5
- Health care and rehabilitation issues. Health care and rehabilitation interventions can improve RTW outcomes,6,7 and a lack of access to beneficial medical and rehabilitation services may contribute to long-term absence from the workforce. A lack of physician awareness in RTW strategies could also be a barrier.8
- Workplace issues. Workplace issues can inhibit RTW.<sup>1</sup> For instance, injured or ill workers who do not have supportive supervisors are much less likely to RTW in a timely fashion.9,10 A lack of co-worker support has also been associated with prolonged work absences. 11,12 Similarly, workplace accommodations such as ergonomic adaptions13 and the availability of modified work tasks<sup>14</sup> facilitate RTW - however. workers may face barriers if accommodations are not available

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- leveraged for RETAIN training? · Have you identified existing resources and infrastructure that could support

#### In Progress . Planning for Scale-Up Yes No or NA

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- · Have you identified existing training mechanisms at new sites that can be

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RETAIN grantees should be aware of and presents strategies for how to address these issues.

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RETAIN Retaining Employment and Talent After Injury/Illness Network



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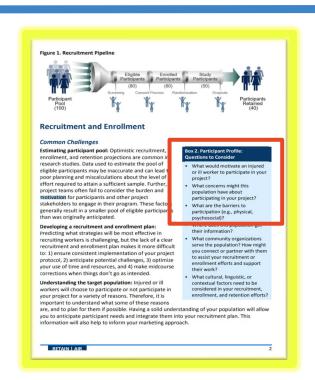
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Tailoring messages to motivation styles

implementation

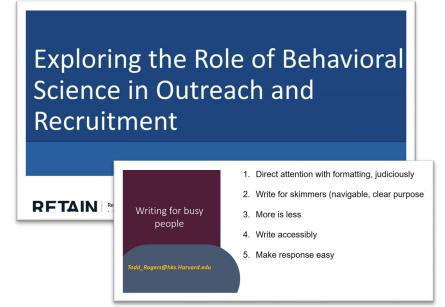
## **Building on RETAIN program material**

- What would motivate an injured or ill worker to participate in your project?
- What concerns might this population have about participating in your project?
- What are the barriers to participation (e.g., physical, psychosocial)?



# **Goal: Increase participation in RETAIN programs**

• 2022 focus: "how to" communicate



Building on RETAIN material	Kov questions	Applying the basics	Tailoring messages to	How injury and illness impact
Building on RETAIN material	Key questions	Applying the basics	motivation styles	motivation and decisions

# **Goal: Increase participation in RETAIN programs**

- 2022 focus: "how to" communicate
- 2023 focus: "what to" communicate



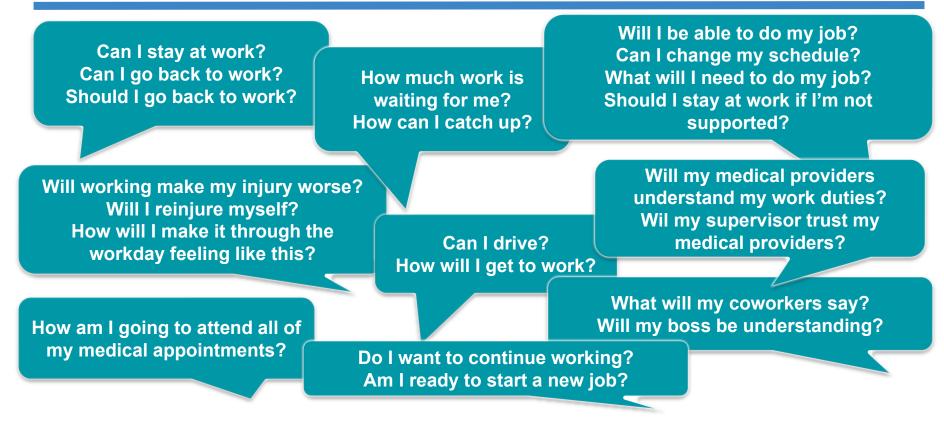
Building on RETAIN material	Kov questions	Applying the basics	Tailoring messages to	How injury and illness impact
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# **Key questions**

- How can we apply motivation models to understand workers' decisions to join the RETAIN programs?
- How can we tailor messaging about the RETAIN programs to workers' decision-making styles?
- What are some ways that injury and illness impact workers' decision-making?

Building on RETAIN material	Key questions	Applying the basics	Tailoring messages to	How injury and illness impact
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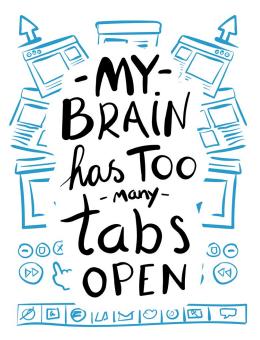
## Workers' concerns following illness or injury



### Workers' concerns about the RETAIN program



## Wow! That's a lot...



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# A model of behavior

### **Driving forces**

Goal importance (Value X Expectancy)

• Available resources (mental and physical)

### **Restraining forces**

- Perceived difficulty
- Competing goals
- Need to conserve resources

Kruglanski, A. W., Bélanger, J. J., Chen, X., Köpetz, C., Pierro, A., & Mannetti, L. (2012). The energetics of motivated cognition: A force-field analysis. Psychological Review, 119(1), 1.

Building on RETAIN material	Kev questions	Applying the basics	Tailoring messages to	How injury and illness impact
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## **Applying the basics to RETAIN program participation**

### **Driving forces**

• Goal importance (Value X Expectancy)

• Available resources (mental and physical)

The RETAIN program will help me maintain my source of income

I have the energy to stay at/return to work and join the RETAIN program

### **Restraining forces**

- Perceived difficulty
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The RETAIN program sign-up process is difficult to understand

I have too many other things to do

I need to save my energy

Building on RETAIN material

Key questions

Applying the basics

Tailoring messages to motivation styles

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### **Driving forces**

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### Increase awareness of benefits/ highlight success stories

Consider participants' energy levels/ call back if needed

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Make it easier to join the program/ discuss concerns about program requirements Discuss concerns about other priorities/ figure out ways to fit the program into the participant's schedule

**Building on RETAIN material** 

Key questions

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Building on	RETAIN	material
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## **Tailoring messages about the RETAIN program**

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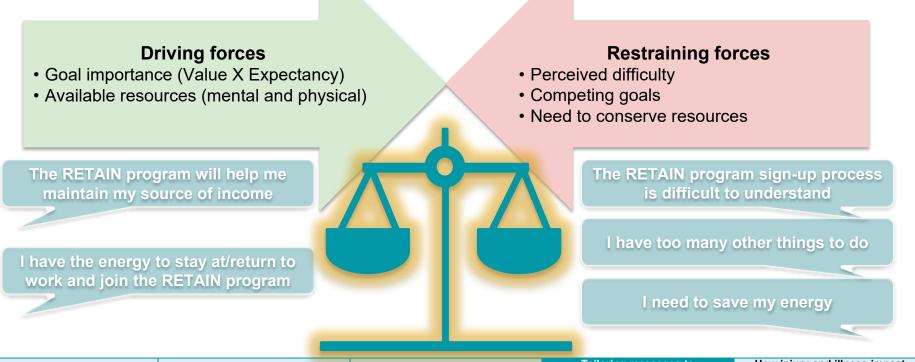
Building on RETAIN material

Key questions

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### **Tailoring messages about the RETAIN program**



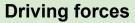
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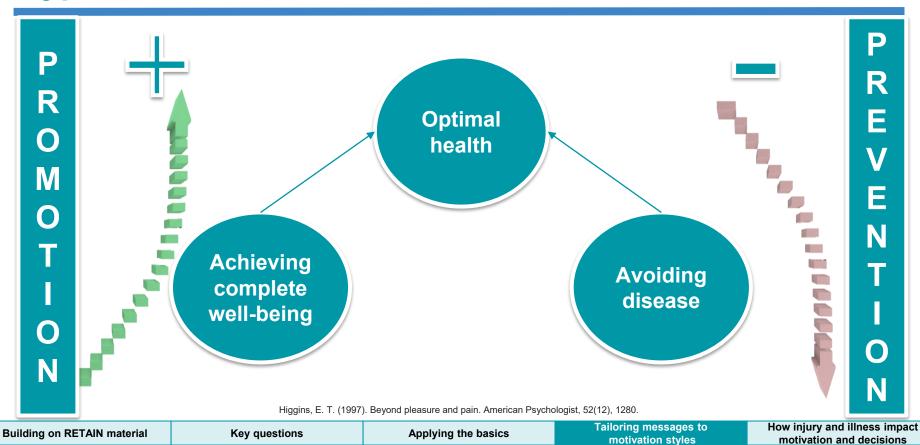
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Key questions

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Aligning health messages with promotion or prevention mindsets enhanced the effectiveness of the health messages across a variety of health behaviors

Ludolph, R., & Schulz, P. J. (2015). Does regulatory fit lead to more effective health communication? A systematic review. Social Science & Medicine, 128, 142-150.

Building on RETAIN material	Key questions	Applying the basics	Tailoring messages to	How injury and illness impact
Building on RETAIN material	Rey questions	Applying the basics	motivation styles	motivation and decisions

### Eating fruits and vegetables



"increased energy, better moods, and a general sense of happiness and fulfillment" Promotion oriented individuals had greater intentions to eat fruits and vegetables when presented with the promotion message

"produce substances from within [to protect the body] from the physical demands of the world we live in (pollution, daily stress, bad weather, etc.)"

Prevention oriented individuals had greater intentions to eat fruits and vegetables when presented with the prevention message

Cesario, J., Grant, H., & Higgins, E. T. (2004). Regulatory fit and persuasion: Transfer from" feeling right.". Journal of Personality and Social Psychology, 86(3), 388

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### Using sunscreen



"You can do it! It's as easy as 1-2-3. You can put a bottle of sunscreen by your toothpaste so that you use it every morning" Promotion oriented individuals had greater intentions to use sunscreen when presented with the promotion message

"Research shows that sunscreen works against aging, sunburn and skin cancer even if you spend short amounts of recreational time in the sun"

Prevention oriented individuals had greater intentions to use sunscreen when presented with the prevention message

Keller, P. A. (2006). Regulatory focus and efficacy of health messages. Journal of Consumer Research, 33(1), 109-114

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Key questions

Applying the basics

Tailoring messages to motivation styles

- Study 1: Intentions to engage in physical activity
- Study 2: Increased physical activity during two-week messaging intervention

Building on RETAIN material	Koy questions	Applying the basics	Tailoring messages to	How injury and illness impact
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hysical activity		
"Exercise means a lot to you"	"Exercise does not mean a lot to you"	
"You have high energy"	"You have <mark>low</mark> energy"	Participants with higher negativity mindsets were more sensitive to
		differences in high versus low
"The exercise routine is easy to complete"	"The exercise routine is difficult to complete"	restraining forces (perceived difficulty and competing goals)
"You do not have other conflicting goals"	"You have other conflicting goals"	

Applying the basics

Tailoring messages to motivation styles

### **Physical activity**

"Improve your health"

"Maximize your peak energy"

"It's easy to do"

"You can do it while completing other tasks" Participants with higher positivity mindsets who were exposed to messages framed in driving forces had greater increases in physical activity during messaging intervention

# **Tailoring RETAIN program information**

- Implications
  - Consider driving and restraining forces when structuring RETAIN programs, outreach, and recruitment
  - Consider assessing promotion/prevention mindsets (using simple survey items or discussions) to help guide conversations and program material
  - Think carefully about the reasons participants report being hesitant to join the RETAIN program

### Driving forces

- Goal importance (Value X Expectancy)
- · Available resources (mental and physical)

### Restraining forces

- Perceived difficulty
- Competing goals
- Need to conserve resources

Applying the basics

Tailoring messages to motivation styles

# **Key questions**

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Building on DETAIN motorial	Kana and Alama	A	Tailoring messages to	How injury and illness impact
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# How injury and illness may affect types of motivation

- Pain has been associated with the way people think about time
  - Pain → preference for immediate, smaller over future, larger rewards<sup>1</sup>
- Implications
  - Messages may need to focus value on more immediate benefits rather than longer term benefits

### Driving forces

Goal importance (Value X Expectancy)

· Available resources (mental and physical)

### Restraining forces

Perceived difficulty

- Competing goals
- Need to conserve resources

<sup>1</sup>Koppel, L., Andersson, D., Morrison, I., Posadzy, K., Västfjäll, D., & Tinghög, G. (2017). The effect of acute pain on risky and intertemporal choice. Experimental Economics, 20, 878-893.e

Building on RETAIN material	Key questions	Applying the basics	Tailoring messages to	How injury and illness impact
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# How injury and illness may affect decision-making

- Pain and illness often disrupt sleep and reduce mental and physical energy<sup>1</sup>
- Implications
  - May need to be especially attuned to cues that participants are fatigued
  - Try to time calls or meetings when participants report having the most energy in their days

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Available resources (mental and physical)

Restraining forces

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<sup>1</sup>Finan, P. H., Goodin, B. R., & Smith, M. T. (2013). The association of sleep and pain: an update and a path forward. The Journal of Pain, 14(12), 1539–1552

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# How injury and illness may affect decision-making

- Pain  $\rightarrow$  interpreting neutral information as negative information<sup>1</sup>
- Depression  $\rightarrow$  greater attention to negative information<sup>2</sup>
- Implications
  - Target populations of potential participants may already be in higher negativity mindsets and strategies to address restraining forces may be particularly important

### Driving forces

Goal importance (Value X Expectancy)

· Available resources (mental and physical)

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<sup>1</sup>Khatibi, A., Sharpe, L., Jafari, H., Gholami, S., & Dehghani, M. (2015). Interpretation biases in chronic pain patients: an incidental learning task. European Journal of Pain (London, England), 19(8), 1139–1147. <sup>2</sup>Mennen, A. C., Norman, K. A., & Turk-Browne, N. B. (2019). Attentional bias in depression: understanding mechanisms to improve training and treatment. Current Opinion in Psychology, 29, 266–273.

Building on RETAIN material	Key questions	Applying the basics	Tailoring messages to	How injury and illness impact
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# How injury and illness may affect decision-making

- Depression and pain  $\rightarrow$  greater likelihood of remembering negative events<sup>1,2</sup>
- Implications
  - Use priming techniques: "Recall a time you felt good at work"
  - But remember, some participants may not have had good working conditions prior to their illness or injury – use the opportunity to reevaluate the workplace, tasks and responsibilities

### Driving forces

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<sup>1</sup>Dillon, D. G., & Pizzagalli, D. A. (2018). Mechanisms of Memory Disruption in Depression. Trends in Neurosciences, 41(3), 137–149. <sup>2</sup>Quenstedt, S. R., Sucher, J. N., Pfeffer, K. A., Hart, R., & Brown, A. D. (2021). Autobiographical memory and future thinking specificity and content in chronic pain. Frontiers in Psychology, 11, 624187.

Building on RETAIN material	Key questions	Applying the basics	Tailoring messages to	How injury and illness impact
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# **Final takeaways**

- Injured or ill workers consider many factors when deciding to stay at or return to work and when deciding whether to join the RETAIN program
- Tailoring information to participants' motivation styles may help increase participation in the RETAIN programs
- Consider how being injured or ill can affect decision-making and mindsets

# Thank you!

• Contact information: jrfern14@terpmail.umd.edu



Applying the basics

Tailoring messages to motivation styles

## **Questions?**



Key questions

Applying the basics

Tailoring messages to motivation styles