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SWISSRE EXCEUENCE & INNOVATION INRETURNIO WORKAWARD IN 2015/16

WORK INJURY SCREENING AND EARLY INTERVENIEN STUDY (WISE

we help people get their lives back

EXECUTIVE SUMMARY

Key facts and achievements:

- Work-related musculoskeletal injuries represent the most common workers compensation claims in Australia.
- ে 24% of screened injured workers were identified as being at high-risk
 - As a result of the WISE study to help identify patients for whom early intervention could improve return to work outcomes, a state-based intervention protocol has been developed for NSW Health and leare
- 1 22% total savings on claims were realised in an intervention group compared to controls
- The average number of days lost for a high-risk intervention group was 30 days compared with 56 days for the control group.

The Work injury screening and Early hits vention.

WISE study was a painnership between NSW.
Fleighth, EVIL University of Sydney and reade the focused on early intervention in relation, to major at his omusculos keleral in lunes. The intervention embraced a holistic approach involving close cooperation between the workplace, psychologists, NTD and EML to address identified individual obstacles for RTW.

The study revealed wide sociential benefits for work as and the Government the sulfiction minies no glub improvements for workers in returning to good work sign from planting to good work sign from planting to do do work sign from the cuctions and approvemprotecol that can be used a stensively in improving Return to Work (RTW) obscornes in future.

This protocol considers the physical social psychosocial and emotional needs of the Worker th addition, it identifies and manages factors that increase the risk of developing long-term disability.



22%

TOTAL SAVINGS ON CLAIMS WERE REALISED IN AN INTERVENTION GROUP COMPARED TO USUAL CARE CONTROLS



30 DAYS

THE AVERAGE NUMBER OF DAYS LOST FOR THE INTERVENTION GROUP

"THE SUCCESS OF THE WISE PROTOCOL IS THAT IT GIVES US A MECHANISM FOR IDENTIFYING WORKERS WHO MAY NEED OR WANT ASSISTANCE DUE TO POTENTIAL PSYCHOSOCIAL RISKS THAT OTHERWISE MAY IMPEDE THEIR RECOVERY. "

STEVEN EML TEAM LEADER

BACKGROUND

🖺 The aim was to help workers return to 'good' work earlier

圈 The WISE study was developed as an innovative way to address the growing cost of musculoskeletal injuries which become complex long-term injuries

NSW HEALTH'S SPIRALLING COSTS

NSW Health has over 110,000 full-time staff, comprising about 28% of the NSW General Government sector budget.

Premiums to cover workplace injuries for NSW Health, as for all agencies, are covered by the cost of weekly benefit payments (currently 45% of all payment types). Health had experienced a steady increase in the number of days lost per person since 2009. RTW durations showed that, on average, workers were away from work for 44 days within the first six months of a claim. If a claim extended to two years, 26 weeks were lost on average.

As a result, the cost of weekly benefits for Health grew to \$69 million in 2011. This affected target premiums for the following year, which for Health resulted in a \$24 million (15% increase) in premiums, rising to \$181 million in 2012/13.

THE CONCORD STUDY

In 2008 a preliminary study was conducted at Concord Hospital by Mr Andrew McGarity (Rehabilitation Coordinator) and Dr Garry Pearce (Medical Director). This served as a 'blueprint' for the WISE study.

The Concord study sought to quantify the effectiveness of implementing an early intervention approach for workers with soft tissue injuries who were identified by a short screening questionnaire within days of their injury. Its results were promising, showing that an early intervention protocol could reduce costs for high-risk claims. Overall there was a 14% reduction in claims costs for the intervention group as a whole, saving approximately \$1,524 per claim.

BACKGROUND



20%

REDUCTION IN AVERAGE DAYS LOST TO TOTAL INCAPACITY



20%

REDUCTION IN AVERAGE DAYS LOST TO PARTIAL CAPACITY



100%

SUSTAINED RETÚRN TO PRE-INJURY DUTIES



20%

REDUCTION IN CLAIMS COSTS (WEEKLY BENEFITS, MEDICAL AND REHAB)



REDUCED

LONG-TERM DISABILITY
AND CHRONIC PAIN
FOR WORKERS

A UNIQUE PARTNERSHIP

The WiSE study was developed to substantiate the initial findings and to develop protocols that could be applied on a larger scale across NSW Health and the broader icare portfolio. It involved a unique partnership¹ between the NSW Ministry of Health, University of Sydney, EML and icare. NSW Health was the 'Client,' Sydney University was 'The Study Manager,' icare was the 'Project Sponsor' and EML was 'Project Administrator'. It was a strong partnership with key stakeholders having a deep commitment to improving outcomes for workers with high-risk injuries and helping them return to 'good' work.

During the course of the study, the stakeholders developed close relationships with treating practitioners. The project manager worked closely with and supported the RTW Coordinators, psychologists, general practitioners and independent medical consultants and physiotherapists to effectively apply the early intervention approach.

A highly regarded and well-published international panel of researchers also provided additional advice and support. Experts from the US, UK, Netherlands, Sweden and Sydney helped reinforce the credibility of the project.

Fundamental to the success of the partnership and project was the creation of a steering committee, a governance structure and good partnerships between the project advocates.

THE WISE STUDY'S GOALS

The overall aim was to determine if implementation of an early identification and intervention protocol for high-risk cases would result in better outcomes compared to usual care (current practice) for workers who sustained a soft tissue injury that required at least a week off work.

The chief objectives of the project were:

- 1. For the high-risk intervention group (as compared to control):
 - Earlier return to work for injured workers
 - 20% reduction in average days lost to total incapacity (section 36/37)
 - 20% reduction in average days lost to partial capacity (section 38, s40)
 - 圖 Sustained return to work for workers
 - 100% sustained return to pre-injury duties (at six months cessation of weekly benefit payments).

Flow on benefits:

- 20% reduction in claims costs (weekly benefits, medical and rehab)
- Reduced long-term disability and chronic pain for workers
- 2. A functional early intervention protocol that can be effectively adapted to sites across Health in the first instance and across government agencies more generally in future.

RETURNING TO WORK TO IMPROVE HEALTH OUTCOMES

WISE protocol encourages workers to return to work to prevent poor health outcomes associated with long-term absence.

NSW Health FML and repeate aware of the health benefits of good work and the negative in sactination.

Oxigined dosence from the works are carriage. To reduce the pistor, self-perior training bence and the
associate an equive health outcomes the WISE study rested protocols to intervene in the negative cycle.

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THE WISE STUDY: A HOLISTIC ARROACH TO THE PROBLEM

Phe Wisterstucy tartions it Vanuary 2014 until 15 39 Vune 2016 and nevel ved a total of 580 injured in workers from the hospitals 45 contents white unbiaced a holismong poech uncerporating (2)

- Screening questionnaire Claims Manageri).
- RTW Goordinator llaisue with workplace Inanager NRDs psychologist, Claims Manager and in the dworker
- Psychologist assessing and treating a specific continue of the specific postables for RTW
- Independent Medical Consultant to confirm dragnosis and reassure rupred worker about recovery and freatment.
- Independent physiotherapy consultant to fevrew appropriationess of requests to continue physiotherapy use atments

This approach considered the physical, social psychallogical and emotional needs of the worker and legiting the house and the partial approach in the properties of the risk of developing long term disability, such as depression.

A snortened: Oresio Musculoskeletal Pain Screening Ottestionnarie, was used to estimate risk for developing jaan related disability and long term work absence. The guestionnarie linvestigated pain levels, self-perceived function, distress, return to work expectancy and fear-avoidance beliefs.

Study Protocol

Batterport no hospitals were designate das intervention to control quotes to maintain blinding or squeeniestlistfor the control group. Injuried, werkers with soil tissue injuries who fook a soays of their usual obtains were so cented of grother telephone by specially rained dains came at EML Those who socied a 500 were despited to be at high risk. If an vorker squeened high risk at another went on the spital the return to Work Coordinator and EML Cose May be were not in feel and the return to Work Coordinator and EML Cose May be were not in feel and the return to Work Coordinator and EML cose the three units on protocook to the work explained way the worker excluded in on the trial and their damnities amanaged in the usual way the worker at a control hospitals greened by physical or hear status and the damnities with each Managed in the damnities of indicators had status and the damnities in the each Managed in the damnities of indicators had status and the damnities in the control of the damnities of the status and the damnities in the damnities of the damnities of the status and the damnities in the damnities of the damnities and the damnities of the damnities of the damnities and the damnities of the damniti

The protocol profit ded offering an early asychological assessment and up to six the atmenusessions with a specified psychologist entraged by the project based on known paint management skills. The EML case Manager booked and adopted on medical assessment for alound four weeks from damning mouteautors which is much earlier than usual under the Worke over gridelines. The independent injectical assessment was an expensive only opinion, designed to assure their original differential interval and their evaluations of the pendential part of the was no serious pathology and that an early return to work at an appropriate espacity was the best way to manage the injury. If there was ongoing polysiotherapy the EML case Manager booked an independent play so the laws assessment towards the end of the current epysotherapy. Management Planto provide guidance regarding the content and recessity of ongoing treatment.

This scientifically valid study resulted in meaningful improvements for workers in returning to speed, work along with premium reductions and approved protocol that can be used extensively in future.

RETURNING TO WORK TO IMPROVE HEALTH OUTCOMES

RETRAINING

The intervention required a change in approach to the injury management process. To this end:

- The University of Sydney provided training for health professionals to actively encourage individuals to return to the workplace insofar as their capacity allowed.
- NSW Health embraced a positive workplace culture by facilitating new soft skills training for staff and supervisors to better manage the return to work process.
- Workers participated in the program and were encouraged to take an active role in their own rehabilitation and return to work. This included a requirement to proactively take on exercises and activities recommended by the treating team.

To ensure that the interventions were applied consistently, a series of training sessions were held with over 100 EML case managers, NSW Health local health district risk managers, workers compensation managers and rehabilitation coordinators. The claims teams were familiarised with the protocol to ensure each worker was fully supported throughout the process.

HOW THE PROJECT WAS MANAGED

A dedicated project manager was recruited to:

- 图 Provide ongoing support to all parties involved
- Track the intervention across sites
- Train and record the performance of stakeholders
- Liaise with treating practitioners

The project manager played an integral role in ensuring all participants worked together and gathered results for analysis.

BUILDING A NETWORK OF SUITABLE PSYCHOLOGISTS ACROSS THE STATE

Building the network of suitable psychologists required EML to identify practitioners across the state whose approach and experience aligned strongly with worker recovery and return to work outcomes. This was important to prove that the protocols could be implemented state-wide.

Feedback from participating workers:

"The clinical psychologist was excellent and was a huge part of my recovery. She was just amazing and it really did help."

"I felt like I got special treatment [compared to the previous experience] and looked after well. I think this should be done for everyone."

"The psychologist was unexpected but good. It changed my view on how to manage the pain and made a real difference."



RESULIS

Key results include:

- 24% of claims identified as high-risk
- 22% total savings for Intervention vs Control group
- At 18 months the average cost of claims was \$15,723 for the intervention group and \$20,148 for the control group³
- The average number of days lost for the high-risk intervention group was 30 days, compared with 56 days for the control group.

INCREASED INITIAL INVESTMENT FOR LONG-TERM BENEFIT

The early intervention of otocol required an additional spending on high-risk claims (£ \$2.500) However these costs were recouped due to the shorter claim. Infectede AE 18 months the average total cost of claims was \$20,148 for the control group and \$15,723 for the intervention group, a difference of \$4.425 and a saving of 22% (largeted saving was 20%) over the life of the claim.

IMPROVEMENTS IN THE RISK OF LONG-TERM ABSENCE

The average number of lost days for the high risk intervention group was 30 days, compared with So days, for the control group.

A shortened ore promusculoskeletal pain screening duestion halle was used to estimate lisk for developing pain related disability. It did this by questioning pain levels, self-perceived function, distress, return to work expectancy and fear-axerdance beliefs. The high-risk cut off point on the screening questionnaire was a score of \$50. Prior to the intervention the average score

of high-risk workers in the intervention group was 60, but after treatment their average score was 37, which in early participants had become loversk for psychesocial factors that could delay recovery.

Moreover those who attended the psychology sessions reported reduced emotional distress (DASS—depression anxiety and stress score), reduced disability (BPI—buet pain inventory), reduced worry (PGS—pain eatastrophisms scale), and improved confidence in performing tasks despite residual pain (PSEQ—pain self-efficacy questionnaire).



\$337K

THE CONSORTIUM'S INITIAL INVESTMENT IN THE RESEARCH PROJECT OVER 2 YEARS



66

THE NUMBER OF HIGH-RISK CLAIMS SCREENED IN THE CONTROL GROUP AVERAGE COST AFTER 18 MONTHS: \$20K



56

THE NUMBER OF CLAIMS SCREENED IN THE INTERVENTION GROUP AVERAGE COST AFTER 18 MONTHS: \$16K



22%

THE AVERAGE SAVINGS ON IMPLEMENTING THE SCREENING TOOL AND PROTOCOLS ON HIGH-RISK CLAIMS

RESULTS

"IN IDENTIFYING THESE INDIVIDUALS EARLY, WITHIN THE FIRST SEVEN DAYS, WE ARE ABLE TO DELIVER THE RIGHT SUPPORT AND THE APPROPRIATE INTERVENTIONS TO THESE WORKERS IN A TIMELY MANNER. IT'S REALLY MAKING A DIFFERENCE BY GIVING CONSIDERATION TO THE WHOLE PERSON AND NOT JUST THE INJURY."

DYLAN EML TEAM LEADER

ONGOING BENEFITS



INTERVENTION: SITES

ALL INTERVENTION SITES WILL CONTINUE WITH THE HIGH-RISK SCREENING AND PROTOCOLS FOR HIGH-RISK CLAIMS



WHOLE OF HEALTH

THE STAGED ROLL OUT ACROSS NSW HEALTH HAS COMMENCED AND WILL CONTINUE FOR THE NEXT SIX MONTHS



DEVELORMENT OF TOOLKIT

ASSISTING ICARE WITH
THE DEVELOPMENT OF
A TOOLKIT THAT WILL
HELP THAT WILL ENABLE
ALL TMF AGENCIES
TO IMPLEMENT THIS
PROTOCOL ACROSS THEIR
BUSINESSES



SCALE FOR WHOLE OF SCHEME

TO HELP WITH THE SCHEME-WIDE ROLLOUT WE HAVE PROVIDED OUR KNOWLEDGE AND TOOLKIT TO ENSURE THE PROTOCOL IS SCALED UP AND THE BENEFITS ARE REALISED ACROSS THE SCHEME

ADDITIONAL BENEFITS

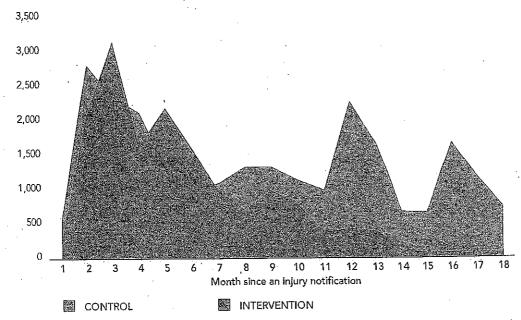
- Incorporating physical and psychological practitioners and their strategies led to a less 'silo-oriented' approach to managing ongoing injury
- Group of accredited psychologists skilled in early intervention service delivery brought expertise
- Upskilling of staff in delivery of early RTW strategies
- Case managers better able to manage caseloads through improved skills in identifying priority cases and where intervention was most beneficial
- The ability to identify soft tissue injury claims early that are at high risk of delayed RTW due to psychosocial factors
- Provides a proven early intervention protocol to effectively manage these claims, the training on how to use it, and the engagement of service providers to support protocols
- Improved outcomes leading to increased workforce participation and improved quality of life

CURRENT STATUS

- NSW Health is rolling out the WISE protocol across its entire portfolio, and is due to be business-as-usual by 31 December 2016
- 國 Final results and report to be released—this will incorporate the one-year follow-up data that has been collected

APPENDIX: ADDITIONAL INFORMATION





GRAPH 2 - WISE: WAGE REIMBURSEMENTS OVER TIME

2,000

1,500

1,000

0

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Month since an injury notification

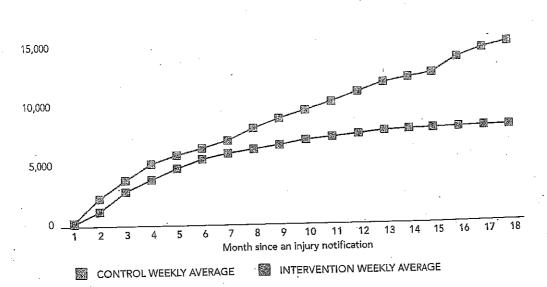
CONTROL

2,500

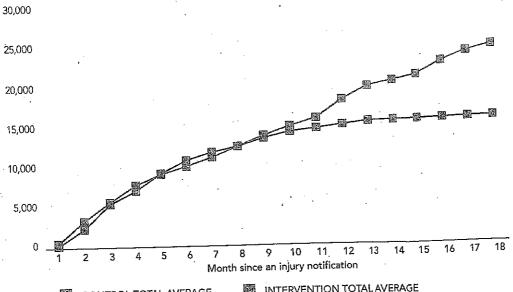
INTERVENTION

GRAPH 3 - AVERAGE WEEKLY BENEFITS COST

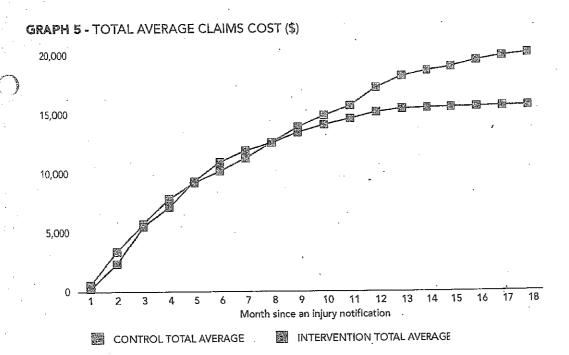
20,000



GRAPH 4 - TOTAL AVERAGE COST OF CLAIMS



INTERVENTION TOTAL AVERAGE





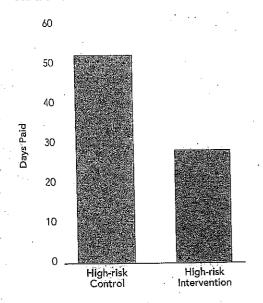


TABLE 1 - ADDITIONAL COSTS FOR HIGH-RISK INTERVENTION

Additional costs/for High risk intervention	
Average psych spent	. \$1,004
Injury Management Consultant (IMC)	\$1,000
Independent Physio Consultant (IPC)	\$260
Total additional cost	\$2,264

TABLE 2

NSW Minismy of Health (NSW Health).

The TMF agency whose workers compensation costs increased by 15 per cent in 2012-13 largely due to a steady increase in the average number of days lost for claims reaching 2 years.

NSW Health is a member of the TMF NSW Health's annual contribution to the TMF for 2012-13 year represented 52 per cent of TMF's total contributions from member agencies.

NSW Health's workers compensation insurance is managed by EML

EMIL

The TMF Service provider keen to see improved return-to-work and claims outcomes through evidenced based innovation and continuous improvement EML is one of icare's four claims management service providers contracted to provide services as icare agent to TMF agencies over the period of 2011-16.

NSW Health is a major client of EML

Sydney University

The independent research unit commissioned to manage the study because of their direct involvement in the 2008 Concord Hospital Study The Pain Management Research Institute (PMRI) is part of the Sydney University Medical School (Northern) based at Royal North Shore Hospital. Professor Michael Nicholas from the PMRI will lead a group of clinicians and researchers through the implementation, management and evaluation of the study.

reare Self-Insurance

The administrator of the Treasury Managed Fund (TMF) focused on reducing the states risk exposures and claim costs through a range of strategies including prompt and effective early intervention delivered through a world-class model of person-centred care

icare delivers insurance and care services to the people of New South Wales through the following schemes: Dust Diseases Care, Lifetime Care, Self Insurance (including the Home Building Compensation Fund), Workers Insurance and Sporting Injuries Insurance. Insuring more than 270,000 employers and 3.3 million employees, icare is one of the largest insurance providers in Australia. Administered by icare Self Insurance (the largest public-sector self-insurer in Australia), the TMF provides workers compensation, health and general liability, property, motor vehicle accident, and other miscellaneous cover to NSW government agencies and their employees.

TABLE 3

Rroject Partinet	Contribution
NSW Health - The Client	■ \$70,000 (Plus gst)
	圈 Project steering committee participation
A SECTION OF THE SECTION SECTION	Control and intervention facilities / staff
	RTW/claims management staff
	Communication of the project with NSW Health
	Approval of access to relevant NSW Health data
EML	■ \$167,220 (Plus GST)
- The Project Administrator	Project steering committee participation
	Project administration (including accounts payable/receivable)
	🛮 Case management staff
	Tracking of claimants to ensure the early intervention protocol is systematically applied
	圆 Operational reporting on intervention groups
	國 Claims data collection
	國 Provision of all agreed relevant data to Sydney University
Sydney University	Study management
-The Study Manager	Project management and reporting
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	■ Project steering committee participation
	Obtaining appropriate human ethics committee approval for study
	■ Training
	☐ RTW/case management staff training
	图 Provision of support to RTW/case management staff (NSW Health and EML) in application of the early intervention protocol
	Oversight and support for external providers to ensure adherence to study protocol
	Data collection and analysis
	Preparation and delivery of interim and final project report
	Preparation and delivery of a conference presentation reporting on the study
	■ Completion of an article for an internationally recognised journal
1975 Carlot 1975 C	9819 18819
icare	
- The Project Sponsor	Project steering committee participation (up to 2 hours per month) to include the following:
	- Project governance
	- Project governance - Project-partnership development and support
	- Scheme-wide communications
	* Salatie-Mac Communications

APPENDIX: ADDITIONAL INFORMATION

TABLE 4

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		Sqreened .	
intervention/Control facilitie: 1	High-risk (completed or ongoing protocol)	High-risk (psych assessment refused)	Lawrijsk
	14	5	46
Nepean	9	12	37
Bjäcktown/Mt Druitt	21	24	65
»Westmead St Vincents Health Network	6	5	43
(St Vincent's, St Joseph's and			•
Sacred Heart Hospice)		4.5	32
Wollongong Hospital	11	15	2
Orange Base Hospital	. 2	0	0
Bloomfield Hospital	0	0	3
Wagga Wagga Hospital	4	· 1 ·	1
Dubbo Base Hospital	0		42.
Royal Prince Alfred	20	•	42 <i>°</i> 40
St George Hospital	18	- '	16
Sutherland Hospital	16	-	33
Prince Of Wales Prince	19	-	4
Royal Hospital For Women	. 1	· -	2
*The Sydney Hospital	. 0	-	1
Bega District Hospital	1 .	-	. 1
Broken Hill Base Hospital	0		
TOTAL	144	. 65	372-+
Intervention	69	65	233
gran griding and	75		139
Control	<u></u>		

FIGURE 1 - THE OREBRO MUSCULOSKELETAL PAIN SCREENING QUESTIONNAIRE

Örebro Mu	ısculo	skele	tal Pa	in Sc	reenir	ıg Qu	estion	naire	(Short-fo	rm)(Lint	ton et al, 20)10)
Name:								Date	:			
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2. How wou	ld you	ı rate	the pa	in tha	t you !	have b	ad du	ring th	ie past wee	k? Circl		
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5. How ten	se or :	anxioi	ıs have	e vou :	felt in	the pa	ist wee	k? Cir	rcle one.			
0 1 Absolutely c	2	3	4		. 6	7	8	. 9	10 xious as I've	ever felt]
6. How mu				bothe	red by	feeli:	ng dep	ressed	in the pas	t week?	Circle one	е.
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7. In your	view,	how l	arge is	the r	isk tha	t you	r curr		n may bec	ome p e r	sistent?	
0 1 No risk	2	3	4	5	6.	. 7	8 . Þ	9 ery lar	10 ge risk		ĺ	}
8. In your or work)				are tl	ie cha	nces y	ou wil	l be wo	orking you	r norma	l duties (a	t hom
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9. An ince decre		n pair	is au	indica	ntion t	hat I s	hould	stop v	vhat I'm do	ing unti	_	
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