



Appropriately interpreting and managing environmental stressors is a significant predictor of athletic success. Lazarus and Folkman's (1984) transactional model provides an effective framework for examining such cognitive appraisals. Baseball also provides a unique opportunity to examine these processes. The game involves long periods of inactivity during competition. The pitcher is the only athlete playing at his own pace; other players must wait for balls to come to them rather than control the action directly. This gap between plays can influence infielders because it offers them lengthy periods of time to overanalyze their performance. Five male collegiate baseball infielders were interviewed. Inductive analysis (Lincoln & Guba, 1985) of the interviews showed four themes related to primary appraisal, secondary appraisal area, reappraisal area, and field position property area. The results suggest Folkman and Lazarus' (1984) transactional stress model is an effective framework to understand infielders' cognitive appraisals. That is, infielders appraise an event by a complex cognitive process based on personal and situational factors. Moreover, field position property is an important factor in infielders' cognitive appraisals. That is, depending on their specific positions, infielders have inclinations that exert different influences on their cognitive appraisals. Implications of these results for performance and coaching will be discussed.

### **INTRODUCTION**

• Features of baseball

- Team sport
- Divided into both offense and defense
- Each player is require to play both
- Use different equipment while playing offense and defense
- <u>Time interval between activities</u>
- Time interval between activities
  - A pitcher is the only one person who can play at his own pace - A hitter surely predicts when a ball will be coming to him
  - A infielder needs to wait for the times when the ball will be coming to him
- •Two hypothetical players two different appraisals
  - Player A: "If I throw the ball away, a run will score. Our team will lose a game because of my error. The coach will lose confidence in me, and I'll lose my position. I hope the next ball doesn't come to me."
  - Player B: "Now is the moment that will decide our fate. I will catch every batted ball. This is a good chance to show my fielding. All I have to do is relax and react quickly to a ball. Now, come on and hit to me."

#### **STUDY PURPOSES**

- 1. To describe the cognitive appraisal process of baseball infielders while playing defense
- 2. To delineate thought patterns that influence cognitive appraisal.

# The Cognitive Appraisal Process of Collegiate Baseball Players While Playing Defense

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1). 	METHODS	an a
	<b>D</b>	
	<b>Participants</b>	
<ul><li>All infielders</li><li>19-21 years old</li></ul>	n 1 institution, located in the Midwes	t A
	<b>Procedures</b>	
nterview		
- 45 - 90 minutes		
- An interview g	uide was developed to standardize the minimize interview bias.	e questioning of each
나와 옷이에서 잘 못하면 것을 가장 다 아파 옷이에서 잘 못했다.	ou think about during the time into	erval while playing
How do yo	ou feel if a ball rarely comes to you	
Analysis		
<ul> <li>All interviews were</li> <li>The researcher devent transcriptions and line</li> <li>Raw data themes were</li> <li>The raw data themes</li> </ul>	e recorded and transcribed verbatim. eloped familiarity with all interviews istening to the interview tapes. ere identified. es were divided into interpretable cate organize hierarchically divided raw o	egories.
RES	ULTS & DISCUSSIO	N i
processes: (1) prin reappraisal or cont	cussed via the model's three cognitiv nary appraisal, (2) secondary appraisa tinuous appraisal. Field position pro- ifferent matrix as another important f l.	al, and (3) perties were
	Primary Appraisal	
Primary appraisal	serves a judgment stage for individua	als. Infielders
	nt by using both person and situationand situationant semerged from the interview to help	
process; experienc	e, beliefs, commitments, time, situati	onal demands, and

**Experience** (Predictability)

uncertainty.

This guy...the first time flew out to right field...grounded to a firstbasemen...hit a grounder up the middle...so you know that he hits the ball to the right side...so you can adjust yourself mentally and physically to the position that you need to be in and then when the balls hit to you.

If you see someone struggle with one play...then you see them when they have that play they shy away or tend to make another error on that play because their confidence from their past situations...their experience was negative and somehow mentally that always keeps coming up.

#### Experience (Novelty)

People always talk about first-game itters and what not...and I think it's absolutely true...if you have othing to look back to in that first game...it's hard to visualize...it's hard to be confident only with oractice

I've actually never really played shortstop before and then coming in as a freshman and playing some shortstop you know...in some big games...it's kind of nerve racking

#### **Commitments**

#### *ulnerability*;

Someone might say..."Oh...well it's just one ground ball." but to me one ground ball feels like...you know...like maybe the last...I'm going to say the ast ground ball.

#### Nork Ethic;

You know...staying after...hitting extra...fielding extra ground balls...that's what's going to...you know...that shows my commitment and then that's going to help me move on...hopefully to that next level.

#### Social factors;

f I could become a professional baseball infielder or something...then you know...they make pretty good money...knowing that I could like... support *ny parents* and stuff...they wouldn't have to work anymore.

always want to do my best because there's always a chance that if you're not loing well...perhaps your *scholarship* can be reduced at times and stuff like hat...so...you always want to be committed...while you're playing because you never want to let down and show that to your coaches.

#### ime

#### <u>mminence;</u>

feel like there's a lot of game left to make up for a mistake but when the game comes closer to the end...that's...you know... when the pressure gets a little bit higher...in a close game because you don't have time to make up for mistakes.

#### *Temporal Uncertainty;*

f I have a bad day...they might sit me one day...if I had a bad practice ...they night sit me out and so that's why I think...when I get into the game I have a ittle more stress because I'm not as comfortable yet.

#### Concentration,

I'm just thinking about trying to make the plays...besides that...I'm not trying o think about anything else and I'm not trying to think about what happened before...what might happen the next inning...I'm just trying to focus on that exact moment.

#### **Secondary Appraisal**

Secondary appraisal is the individual assessment phase regarding the athlete's coping options. Infielders judged coping options to the situation based on their orimary appraisal.

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CALL OF STANDING	Sold Second	CEMPER.	15,000	S. WINK	C Stones		A DEALER AND A DEALER	10,000

- Experience
- Outcome
- Social factors

#### **Selected coping strategies/Evaluation of coping strategy**

- Problem-focused coping
- Self-talk, positive thoughts, communication, and rational thought - Emotional-focused coping
- Music, deep breathing, attention avoidance, wish thoughts, communication, rational thoughts, and routine

- Playing Time I've been hitting the ball really well so I think my fielding is going to start coming up a little bit...so as the year goes on...I get better...and so...I feel as if the more...you know... time I get to play the game...the more my fielding goes up

In the sport setting, field position property may play an important factor for cognitive appraisal. In the interviews, second basemen and shortstops showed different responses from first-basemen and thirdbasemen on some points.

Second Baseman/Shortstop - Role -Leader - Control - Emphasis on fielding

- Task - Complex - Can't Prepare

- Mentally tough position - Expectation from others

2. Infielders appraise the event by a complex cognitive process based on person and situational factors.

3. Field position property influences players' cognitive appraisal.



#### **Reappraisal**

Reappraisal is the final stage of the appraisal process and occurs as a results of both the primary and secondary appraisal processes.

#### **Long-term Reappraisal Process** - Learning - Practice

#### **Short-term Reappraisal Process** - Inactive Time - Thoughts

When you get back in the dug-out you could think of something like...what was I thinking at that time...mentally...where could I have been thinking of something else...you know...if you make a mental mistake you try to point out why you made that mental mistake

#### **Field Position Property**

I personally feel that you can't prepare for every situation in a baseball game

#### First/Third Baseman - Role

- Making the plays - Holding a runner

- Task - Simple - Preparation

- Baseball is mentally tough - Negative self-evaluation

Usually I prepare myself for any situation and the coaches should prepare their players for every situation possible

#### CONCLUSIONS

1. The transactional model is effective as a framework to understand infielders' cognitive appraisals.

