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1 The type and variation of evasive manoeuvres during an attacking task differ across a rugby league
2 development pathway

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15 Running Title: Evasive manoeuvres differ between development level in rugby league

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17

18 **Abstract**

19 This study examined the relationship between evasive skill and developmental level in a rugby league
20 (RL) talent pathway. An observational and cross-sectional research design was used with a total
21 sample of 90 male participants (under 18, n = 30; under 20, n = 30; and state league, n = 30) performing
22 an attack play task, requiring three attackers to compete against two defenders to successfully
23 generate a 'line-break'. Assessment criteria of the task included start position, type of evasive
24 manoeuvre and task outcome (successful line-break or not), with relationships determined using the
25 Fischer's exact test (Crosstabs Command) with adjusted residuals (AR) and the multinomial logistic
26 regression. Outcome scores for the task did not significantly differ between development levels, but
27 the relationship between development level and evasive manoeuvres was significant ($\chi^2 = 35.916$; df
28 = 26; $P = 0.026$; ES = 0.27). State league players had a greater frequency of 'angled run', 'all square
29 run' and combinations of evasive manoeuvres compared to the other levels. This study demonstrated
30 that variation and type of evasive manoeuvre used by players differed across developmental level.
31 These results could support the design of training activities intended to develop evasive skill in
32 talented junior RL players.

33

34 **Key words:** Talent development; Team sport; Tactical skill; Deception; Performance analysis

35 **Introduction**

36 Rugby league (RL) is a team-based invasion sport, requiring players to blend a range of physical
37 (Gabbett, Jenkins, & Abernethy, 2012), technical (Pearce, Sinclair, Leicht, & Woods, 2019) and tactical
38 (Cupples & O'Connor, 2011) skills over the course of an 80 minute game. Given its popularity within
39 Australia (Trueman, 2017), state-based organisations (e.g. Queensland Rugby League Intrust Super
40 Cup Competition) have been established to nurture prospective talent, acting as 'feeder' competitions
41 for the premier RL competition, the National Rugby League (NRL) (Woods et al., 2017). Within these
42 feeder competitions talent development pathways have been established, intending to augment the
43 development of talent identified RL players (Pearce et al., 2019). Such pathways typically initiate at an
44 under 18 (U18) level, progressing into an under 20 (U20) level, and then into an open, senior level,
45 referred to as the State League (SL). Accordingly, to support the development of talent within these
46 feeder competitions and promote a smooth junior-to-senior transition, it would be important for
47 practitioners to base training practices around known performance gaps between these levels (Ireton,
48 Till, Weaving, & Jones, 2017; Till, Jones, & Geeson-Brown, 2016).

49 Relative to research conducted on the physical (Gabbett et al., 2012; Pearce, Sinclair, Leicht, & Woods,
50 2018; Till, Scantlebury, & Jones, 2017) and technical (Gabbett, 2014; Pearce et al., 2019; Waldron,
51 Worsfold, Twist, & Lamb, 2014) aspects of RL, there has been limited research examining the decision-
52 making skill of players across a talent pathway in Australia and internationally. Indeed, some research
53 has suggested that elite RL players have a reduction in their attentional demands during dual-task
54 activities when compared to their sub-elite counterparts (Gabbett, Wake, & Abernethy, 2011), while
55 others have shown that elite players perform better than non-elite players during a video-based
56 decision-making task (Connor, Crowther, & Sinclair, 2018). To date, though, research has yet to
57 quantify and compare the tactical decision-making skill of RL players within a talent development
58 pathway; a gap which would be important to fill in order to support coaches in designing training
59 activities intended to guide the tactical skill of players.

60 The importance of tactical decision-making skills during RL game play has been shown by Gabbett and
61 Abernethy (2012), who noted that approximately 50% of the 'tries' scored in the NRL were the
62 consequence of a deceptive or evasive action (i.e., movements that coerce an opponent into a
63 movement pattern that is then exploited by the ball carrier). Such actions are typically utilised in RL
64 with the intent of deceiving an opponent to gain territory, or to increase the opportunity to rapidly
65 continue game play following a tackle. Additionally, evasive manoeuvres may be used to draw and
66 commit a defender towards the ball carrier, increasing the opportunity for any supporting players to
67 receive an unimpeded pass (Australian Rugby League Commission, 2015). Both scenarios, however,
68 are likely to increase the chances of inducing a line-break, which may result in the attacking team
69 gaining territory downfield or ideally, scoring a try (Australian Rugby League Commission, 2015).
70 Subsequently, the development of evasive, tactical skills may lead to greater success in RL, and should
71 be a focus of training practices intended to develop talent in RL (Cupples & O'Connor, 2011).

72 The aim of this study was to examine the relationship between developmental level and the evasive
73 manoeuvres of RL players within an Australian talent pathway. Based on known physical and technical
74 differences between developmental levels (Pearce et al., 2018; Pearce et al., 2019), we hypothesized
75 that the evasive strategies used by players would differ between developmental levels, leading to the
76 SL players performing an evasive task with more success relative to the U18 and U20 levels.

77 **Methodology**

78 ***Experimental Approach to the Problem***

79 This study followed an observational and cross-sectional research design with data collected during
80 the early competition phase of the season to standardise training related adaptations. All participants
81 undertook a field-based attack task, described in detail below, which was modified from prior research
82 (Gabbett & Abernethy, 2012; Gabbett et al., 2011) that reported moderate to good rater reliability
83 (Gabbett & Abernethy, 2012).

84 ***Participants***

85 The total sample consisted of 90 male participants from five RL clubs competing in the same state-
86 based competition. Each participant was categorised according to their developmental level; U18 (n =
87 30), U20 (n = 30) and SL (n = 30). Playing position was considered, with an equal number of each
88 position (i.e., forwards and backs) spread across each developmental group. Ethical approval was
89 granted from the James Cook University Human Research Ethics Sub-Committee (H7658) and all
90 participants and / or guardians (for the U18 participants) provided written informed consent.

91 *Procedures*

92 All players performed an attack-play task, that consisted of three attackers versus two defenders (3
93 vs. 2). A schematic of the task's design is presented in Figure 1 but a brief description of the task
94 requirements is provided here. Firstly, the participant starting the task in the attacker 2 position (A2;
95 Figure 1) was the one assessed during the trial. The task was conducted within a 15 x 11m area on a
96 standard RL field, and two standard, two-dimensional video cameras (Sony CX405 Full HD Handycam,
97 Singapore) were positioned 8m behind and 6m perpendicular to the task, recording each trial for
98 analysis. Pilot testing revealed that these camera perspectives afforded optimal viewing for the task,
99 In accord with the task descriptions of Gabbett et al. (2011), the task design represented an attacking
100 play sequence following a tackle. As shown in Figure 1, each participant completed three trials in the
101 A2 starting position, being free to self-select their start position on the 0m line between their two
102 support players (A1 and A3). Participants were from the same development level and included two
103 defenders (DL, DR) who commenced at the 8m line facing the attacking participants A1-A3 (Figure 1).
104 Participants A1-A3 were instructed to perform attacking manoeuvres to elicit the desired outcome of
105 a line-break and to complete the task at game speed to progress the ball 1m beyond the 10m line. The
106 location of the starting position for player A2 was recorded as either opposite DL, opposite DR or
107 evenly spaced between defenders (Table 1). After completing three trials, all participants moved to
108 their right (e.g. A1 became A2, A2 became A3, A3 became D2, D2 moved to the D1 position).

109 ******INSERT FIGURE 1 ABOUT HERE******

110 The task commenced with a left-to-right pass (from P) to the participant (A2). In this task, the
111 defenders started within 2m of the 10m distance and were instructed to re-load (back up to the 10m
112 line) and then attempt to defend against the attacking play. Upon receipt of the pass, A2 attempted
113 to advance the ball using any legal means possible to evade defenders or draw defenders, thereby
114 enabling the participant, A1 or A3 to successfully perform a line-break. The defenders were instructed
115 to defend the attacking play and effect a tackle.

116 The criteria of the task undertaken by player A2 were retrospectively documented from the video
117 footage and were as follows: the starting position, type of evasive manoeuvre and outcome of task
118 (successful line-break or not). The type of evasive manoeuvre was categorised using criteria modified
119 from previous research (Gabbett & Abernethy, 2012; Gabbett et al., 2011), with their definitions also
120 being informed in conjunction with a NRL Level 3 and RL talent development coach. These criteria and
121 their subsequent definitions are presented in Table 1.

122 ******INSERT TABLE 1 ABOUT HERE******

123 ***Statistical Analysis***

124 All analyses were conducted using the statistical software IBM SPSS version 25 for Windows (IBM.
125 Corp., Armonk, NY). Relationships between the developmental level and evasive manoeuvres, based
126 on frequencies, were determined using the Fischer's exact test (Crosstabs Command), with adjusted
127 residuals (AR) >1.96 classified as significant, and Cramer's V test used to represent the magnitude of
128 difference or effect size (ES). Multinomial logistic regression was conducted to identify associations
129 between the response variable (developmental level) and the explanatory variables of start position,
130 evasive manoeuvre and task outcome score. This regression model included a nominal dependent
131 variable with three categories (U18, U20 and SL), then each model considers a reference category that
132 is compared to each other when relating the predicted differences based on the independent
133 variables. The regression model allows to obtain the odds ratios (OR) and 95% confidence intervals
134 (CI) for each variable. The statistical significance was set at $P < 0.05$.

135 **Results**

136 The outcome score for the task did not significantly differ between development levels (U18, $4.0 \pm$
137 1.8 ; U20, 4.0 ± 1.7 ; SL, 4.3 ± 1.5). However, the relationship between development level and evasive
138 manoeuvres was significant ($\chi^2 = 35.916$; $df = 26$; $P = 0.026$; $ES = 0.27$). For the U18 level, more
139 participants completed a 'square up' move ($AR=2.2$) and less completed a combination of evasive
140 manoeuvres ($AR=-2.4$) compared to the U20 and SL levels (Table 2). For the U20 level, more
141 participants completed an 'all square run' ($AR=2.0$) compared to the other development levels (Table
142 2). The SL participants recorded a greater frequency of 'angled run' ($AR=2.2$), 'all square run' ($AR=2.0$)
143 and a combination of evasive manoeuvres ($AR=2.5$) compared to the other levels (Table 2). The SL
144 level started the task from the right more ($AR=3.8$) and less from the middle positions ($AR=-2.1$)
145 compared to the U18 and U20 development levels.

146 ******INSERT TABLE 2 ABOUT HERE******

147 The logistical regression model for development level was significant (Likelihood Ratio Tests =
148 363.131 , $\chi^2 = 102.740$; $df = 58$; $P < 0.001$), with a classification accuracy of 58.9% (Nagelkerke $R^2 =$
149 0.356). The significant predictors of developmental level were starting position and outcome score.
150 Specifically, there was a greater probability that U18 ($OR = 6.5 \times 10^{-7}$, $P < 0.05$) and SL ($OR = 2.1 \times 10^7$, P
151 < 0.05) participants would commence the task from the left position compared to U20 participants. In
152 addition, SL participants had a greater probability of performing 'step' ($OR = 9.667$; $P < 0.05$), 'square
153 up' ($OR = 7.672$; $P < 0.05$) and 'all square' runs ($OR = 3.317$; $P < 0.05$) compared to the U18 level.

154 **Discussion**

155 The aim of this study was to examine the relationship between evasive skill, measured via an attack
156 play task, and developmental level in an Australian RL talent pathway. Results showed consistent task
157 outcome scores across developmental levels, but significant differences in the type and variety of
158 evasive manoeuvres used, in addition to starting position, between developmental levels. Notably,
159 the U18 and U20 levels adopted similar evasive manoeuvres with significant differences being found

160 between these levels and the SL level. Accordingly, while differences in task outcome were not
161 observed, this study showed that the type and variation of evasive manoeuvre used by players differed
162 across developmental level. Importantly, our results have the potential to enrich training designs in
163 Australian and international RL development pathways, indicating that younger levels (i.e., U18 and
164 U20) may benefit from greater exposure to training activities intended to augment evasive skill (e.g.
165 the use of small-sided games).

166 Relative to their U18 and U20 counterparts, the SL players generally performed a greater range of
167 intentional evasive manoeuvres and appeared to deliberately position themselves opposite one
168 particular defender at the initiation of the task compared to U18 and U20. This indicated that the SL
169 players may have engaged in a pre-emptive strategy (starting position manipulation) that they
170 perceived would increase their likelihood of achieving the task goal (e.g. to score via evading
171 opponents). This response could be indicative of greater knowledge of their performance
172 environment relative to the younger developmental levels (Davids, Araújo, Seifert, & Orth, 2015),
173 potentially developed over prolonged exposure to rich and diverse practice designs. Further, the SL
174 participants were more likely to use a variety of evasive manoeuvres to achieve the task goal relative
175 to the U18 and U20 levels. This suggested that the SL participants were able to interpret defensive
176 movements and then readjust their attacking movements to maintain their chances of achieving the
177 task goal. For example, the ball carrier could accelerate and adjust their speed in accordance with the
178 drawn defender to deceive them into altering their momentum and unbalance the defender (i.e., to
179 wrong-foot them). The ball carrier could then exploit this by evading their defender through changing
180 direction and stepping back toward the origin of the pass, further drawing the defender from the
181 defensive line to allow a supporting attacking player to run into the hole created in the defensive line.
182 Accordingly, it would seem important, from our results, for practitioners at the U18 and U20 levels to
183 promote an environment that encourages this type of evasive maneuverability. Such a training
184 environment may consist of activities that afford players opportunities to explore different ways of
185 evading opponents with coach instruction reflecting the desired outcome, not the possible movement

186 solutions. For example, a training activity could simply have the task goal of *to progress the ball to the*
187 *try line* with players then being awarded additional points if they evade their opponent in a highly
188 creative way. Such a design may function to minimize an apparent gap within the tactical skill of
189 players across a developmental pathway in Australia.

190 As mentioned previously, the starting position for the U18 and U20 players was similar, with players
191 positioning themselves between both defenders. Importantly, defenders were free to position
192 themselves in a way they felt could stop the attackers. When compared to the SL, it seemed these
193 younger levels were less inclined to undertake a pre-task strategy intended to improve their chances
194 of achieving the task goal. While speculative, this could indicate a tactical knowledge gap with players
195 in these levels being unable to recognise opportunities present in their environment that could be of
196 assistance to evade a defender (such as their starting position). It may be also be that more
197 experienced SL A2 knew the pass could be well executed by his teammate and may have prior
198 knowledge of the opposing defender's ability to be drawn. This knowledge would be important for
199 game play, particularly during set plays (i.e., following a scrum), as positioning oneself in such a way
200 that could 'wrong-foot' a defender may increase the chances of a line-break following a stoppage in
201 play. Accordingly, using our novel results, coaches at these younger developmental levels could
202 implement training activities (similar to the study task) that encourage players to explore differing
203 start positions and evasive manoeuvres. Further, to increase the knowledge of these younger players,
204 coaches could use questioning to educate a player's attention toward critical features of their
205 environment that may assist their capability to detect and exploit the positioning of defenders (Chow
206 et al., 2007). Nonetheless, these findings have clear practical utility for coaches within the RL talent
207 pathway in Australia and internationally.

208 Despite the unique findings of this study, it was not without limitations that should be acknowledged
209 to guide future research. Firstly, this study explicitly focused on the structured talent development
210 pathway within one state-based organisation in Australia. As such, we do not have reference data for

211 comparison to the NRL, which would offer practical insight into the performance gaps between
212 developmental levels and the elite level. Secondly, although the task was performed in a
213 representative context, it would be interesting for future work to compare the evasive manoeuvres
214 of players across these developmental levels during actual game play. This type of notational analysis
215 may uncover further differences between levels that could support practice designs intended to
216 develop talent. Lastly, while specifically focusing on the attacking evasive manoeuvres, future work
217 could look to examine how the defender's actions shape the evasive opportunities for the attackers
218 by adopting a more dyadic system perspective, rather than just focusing on one player's (evasive)
219 movement.

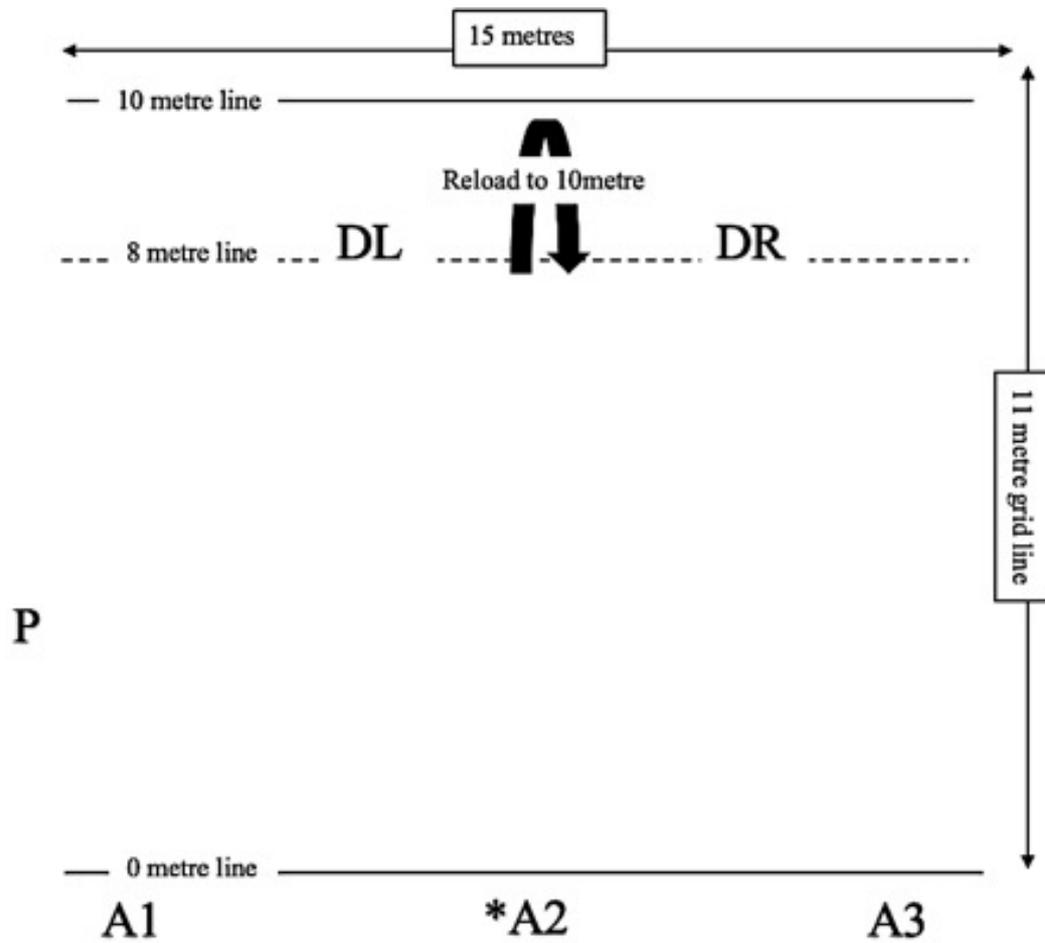
220 **Conclusion**

221 This study demonstrated that the type and variety of evasive manoeuvre significantly associated with
222 developmental level in a RL talent pathway in Australia. Of note, the SL players performed a greater
223 variety and combination of evasive manoeuvres when compared to the U18 and U20 levels. These
224 results emphasise the importance of affording practice designs at these younger developmental levels
225 that encourage players to explore a variety of ways of evading an opponent. In doing so, it is perceived
226 that players will deepen their knowledge of their environment, increasing their capacity to detect
227 relevant opportunities to evade a defender, which could assist with the junior-to-senior transition
228 within an Australian and international RL talent pathway.

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*participant being assessed

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296 **Figure 1.** A schematic of the attack-play task as used to measure evasive manoeuvres.

297 DL=defender left; DR=defender right; P=participant executing initial pass; A1=attack player 1;

298 *A2=attack player 2 and the participant being observed; A3=attack player 3.

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Table 1. The evasive manoeuvres and subsequent definitions as used in the attack play task.

Evasive Manoeuvre	Definition
Skip	Change of tempo (slow to fast). Permits maintenance of balance to affect rapid change of direction
Step	A shortened stride to a wide step off the outside leg. Weight is shifted to other leg to accelerate from standing foot
Change of direction	Change direction of current line
Start Square	Shoulder and hips face forward to initiate task run
Square up	Straightening shoulder and hips to face forward after initial angle run
Angle run	Run diagonally from pass receipt
Run angle left, pass left	Angle run to left and pass ball to left
Run angle left, pass right	Angle run to left and pass ball to right
Dummy pass	Deceiving opposition with fake pass or direction of pass
All square run	Shoulder and hips facing forward, running forward straight line
Run angle right, pass left	Angle run to right and pass ball to left
Run angle right, pass right	Angle run to right and pass ball to right
Behind flick pass	The ball is passed with a flick of the wrist behind ball carrier's torso
Combination	Two or more of the above manoeuvres executed in trial
Start Position	
Opposite defender left	Participant positions opposite the left defender
Opposite defender right	Participant positions opposite the right defender
Middle position	Participant positions evenly spaced between defenders
Outcome Score	
Evaded tackle	Linebreak completed. Increased opportunity for territory or try scoring. 5
Tackled by one defender	One defender completed two handed touch (tackle). Attack not slowed, and ball is maintained 3
Tackled by two defenders	Both defenders completed two handed touch (tackle). Attack is slowed and ball is maintained 1
Lost possession	Illegal (forward) pass, or play would result in loss of ball possession 0

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304 **Table 2.** Frequency (%) of starting position and evasive manoeuvres undertaken by under 18, under
 305 20 and State League players during the 3-v-2 attack task.

Start Position	U18 (%)	U20 (%)	SL (%)
Opposite defender left	11.1	6.7	10.0
Between defenders	88.9	93.3	82.2 ^{ab}
Opposite defender right	0.0	0.0	7.8 ^{ab}
Evasive Manoeuvre			
Skip	0.0	0.0	3.3
Step	13.3	20.0	14.4
Change of direction	21.2	22.2	20.0
Start square	1.1	5.6	8.9
Square up	8.9	5.6 ^a	6.7 ^a
Angle run	3.3	5.6	10.0 ^{ab}
Run angle left, pass left	5.6	2.2	5.6
Run angle left, pass right	1.1	0.0	4.4
Dummy pass	20.0	21.1	22.2
All square run	35.6	38.9	27.8 ^{ab}
Run angle right, pass left	0.0	1.1	4.4
Run angle right, pass right	2.2	0.0	1.1
Behind flick pass	0.0	1.1	3.3
Combination of manoeuvres	12.2	20.0	28.9 ^{ab}

306 ^a $P < 0.05$ vs U18; ^b $P < 0.05$ vs U20.

307