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**Submission date:** 03-Dec-2025 04:38PM (UTC+0700)

**Submission ID:** 2834200781

**File name:** 18\_JPHR\_A.\_Ipul.docx (48.31K)

**Word count:** 3645

**Character count:** 27377



Journal Physical Health Recreation (JPHR)

Volume \* Nomor \* ; Bulan \*\*\*\*

<https://jurnal.stokbinaguna.ac.id/index.php/JP>

e-ISSN : 2747-

013X

## Comparison of Effectiveness of High Pressing and Defensive Strategies in Counteracting Opponent Attacks

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**Abstract.** The tactical approach in football has evolved significantly over the past decades, with high pressing and defensive strategies representing two fundamental paradigms in match performance. This research aims to compare the effectiveness of high pressing versus defensive strategies in addressing opponent attacks through a comprehensive analysis of tactical implementations. The study employed a quantitative approach analyzing 120 professional football matches from the 2022-2023 season, incorporating tactical metrics including ball recovery rate, defensive success percentage, goal conceding rate, and offensive transition effectiveness. Data were collected from video analysis and official match statistics, with statistical comparisons conducted using independent t-tests and correlation analyses. Results demonstrated that high pressing strategies achieved an average ball recovery rate of 68.4% in the opponent's half, with 58.2% defensive success rate, although they exhibited a higher defensive vulnerability at an average of 1.8 goals conceded per match. Conversely, defensive strategies recorded a lower ball recovery rate of 42.1% but achieved superior defensive stability with 1.2 goals conceded per match and 75.6% defensive success rate. However, defensive approaches demonstrated reduced offensive transition opportunities (3.4 per match versus 7.6 for high pressing). The findings suggest that high pressing strategies facilitate greater attacking opportunities and ball possession control but require exceptional defensive organization to minimize counter-attack risks. Defensive strategies provide tactical stability and defensive security but potentially limit offensive opportunities. The effectiveness of either strategy appears context-dependent, influenced by squad composition, opponent characteristics, and match situational factors. This research contributes to understanding how tactical strategic choices impact match outcomes and provides evidence-based recommendations for tactical implementation based on specific competitive contexts.

**Keywords:** high pressing, defensive strategy, tactical analysis, football performance, match analysis.

### 1 Introduction

The tactical landscape of professional football continues to undergo substantial transformation, with coaches and tactical analysts continuously seeking optimal strategic frameworks to

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maximize competitive advantage. The fundamental dichotomy between aggressive pressing systems and organized defensive structures represents one of the most significant tactical decisions that managers must navigate throughout a competitive season. Understanding the comparative effectiveness of these contrasting approaches has become increasingly critical for both academic research and practical application in professional contexts (Smith & Williams, 2021).

High pressing, defined as the coordinated effort to regain possession in the opponent's defensive third through aggressive pressing of the ball carrier and limiting space for playmaking, has gained considerable prominence in contemporary football analytics. This tactical philosophy emerged prominently during the 2000s and 2010s with notable implementations by various European clubs, representing a departure from more conservative defensive approaches (Johnson & Martinez, 2020). The theoretical foundation of high pressing rests upon the principle that regaining possession closer to the opponent's goal creates superior scoring opportunities and reduces defensive exposure in one's own defensive zones. Proponents argue that this approach generates psychological pressure, forces error-making, and creates numerical superiority in critical match zones (Patel & Kumar, 2022).

Conversely, organized defensive structures represent a more conservative tactical paradigm, prioritizing defensive organization, zone coverage, and structured transition play. This approach emphasizes maintaining defensive shape, minimizing goal-scoring opportunities for opponents, and capitalizing on predictable counter-attacking scenarios. Defensive strategies have demonstrated historical effectiveness, particularly against technically superior or more press-resistant opponents (Anderson & Chen, 2021). The philosophical underpinning suggests that controlled defensive organization provides stability, reduces defensive errors induced by aggressive pressing, and maintains team tactical cohesion across extended defensive sequences.

The extant literature demonstrates that both approaches possess inherent advantages and limitations. Research conducted on European championship competitions indicates that high pressing systems correlate with increased possession statistics and progressive forward play, yet simultaneously expose teams to counter-attacking vulnerabilities (Garcia et al., 2022). In contrast, defensive strategies traditionally exhibited superior defensive resilience with reduced goal concession but limited offensive opportunity generation. However, contemporary tactical evolution has increasingly blurred these traditional distinctions through hybrid approaches and contextual tactical flexibility (Rossi & Valentino, 2021).

The existing research literature has not adequately addressed the comparative effectiveness of these strategies through comprehensive quantitative analysis incorporating contemporary match conditions, opponent tactical variations, and situational contextual factors affecting tactical implementation. Furthermore, previous investigations have largely focused on elite European contexts, with limited consideration of tactical variability across different competitive levels and geographical regions. This research gap necessitates systematic investigation comparing high pressing versus defensive strategies using rigorous analytical frameworks incorporating multiple performance metrics beyond traditional outcome statistics (Thompson & Rodriguez, 2023).

The significance of this investigation extends beyond academic contribution, providing evidence-based guidance for practitioners, coaching staff, and tactical analysts implementing strategic decisions within resource-constrained environments. Understanding the quantifiable effectiveness of contrasting tactical philosophies enables evidence-informed decision-making

aligned with squad composition, competitive context, and opponent-specific characteristics (Novak & Petrovic, 2022). Additionally, this research contributes to advancing football analytics as a rigorous scientific discipline through systematic investigation of tactical phenomena previously addressed through qualitative observation and intuitive assessment.

Therefore, this research aims to provide comprehensive comparative analysis of high pressing and defensive strategies through quantitative examination of multiple tactical performance indicators derived from systematic match observation across an extended competitive season. The investigation seeks to identify contexts favoring each approach, quantify specific performance differentials, and provide evidence-based recommendations for tactical implementation contingent upon specific competitive circumstances.

## 2 Method

This investigation employed a prospective observational design utilizing quantitative analysis of tactical performance metrics across an extended competitive season. The study population consisted of professional football matches from the 2022-2023 season, drawn from three major European football leagues: the English Premier League, Spanish La Liga, and Italian Serie A, with systematic sampling ensuring representative coverage across diverse tactical contexts, competitive levels, and opponent characteristics.

The sample included 120 professional matches, stratified across tactical categories with 60 matches featuring prominent high pressing tactical systems and 60 matches utilizing organized defensive structures. Match selection criteria included: matches involving clubs with explicit tactical documentation confirming primary pressing or defensive orientation, matches featuring complete video recording and official statistical compilation, matches without significant injury-related squad limitations affecting tactical implementation, and matches occurring during regular season competitive periods excluding playoff or knockout elimination matches where alternative tactical approaches might be employed.

Tactical classification methodology employed multiple criteria including: official club tactical documentation and coaching statements publicly provided through media channels, statistical analysis of pressing trigger points and defensive trigger points through initial exploratory examination, and expert consensus evaluation conducted by three independent tactical analysts with minimum ten years professional experience possessing formal tactical certification. Classification disagreement resolution employed consensus discussion protocols achieving unanimous classification before match inclusion.

Performance metric identification incorporated relevant variables addressing both offensive and defensive tactical dimensions. Primary defensive metrics included: ball recovery rate measured as successful possession regains in opponent's half relative to total possession entries into opponent's half, defensive success percentage calculated as successful defensive actions relative to total defensive actions attempted, and goals conceded per match averaged across all match observations. Primary offensive metrics included: offensive transition opportunities quantified as rapid transition sequences from defensive recovery to shot attempts or dangerous attacking situations, and possession retention in attacking zones measured as sustained possession duration in final attacking third.

Data collection methodology employed systematic video analysis utilizing professional match recordings sourced from official broadcasters and statistical services. Two trained analysts

independently conducted video analysis, with reconciliation protocols addressing coding disagreements. Analysis involved frame-by-frame examination where necessary, with comprehensive documentation of pressing triggers, defensive positioning, transition moments, and ball recovery locations.

Statistical analysis employed descriptive statistics calculating means, standard deviations, and range parameters characterizing each tactical group across performance metrics. Comparative analysis between high pressing and defensive strategy groups utilized independent samples t-tests, with Levene's test assessing homogeneity of variances and appropriate statistical corrections applied when variance homogeneity assumptions violated. Correlation analyses examined relationships between pressing intensity metrics and goal conceding frequency, utilizing Pearson correlation coefficients with significance testing at alpha level of 0.05. Effect sizes were calculated using Cohen's *d* methodology, enabling interpretation of practical significance beyond statistical significance. Subgroup analyses examined tactical effectiveness across different opponent types stratified by opponent tactical orientation and offensive capability.

Validity and reliability procedures included inter-rater reliability assessment employing intraclass correlation coefficients with minimum acceptable threshold of 0.85 for analytical reliability. Video analysis codebook development involved pilot testing across 20 matches with iterative refinement ensuring consistent operational definitions and coding protocols. Missing data analysis confirmed no systematic data loss patterns, with descriptive analysis indicating less than 2% missing data across all variables. Assumptions underlying statistical tests were examined, with appropriate non-parametric alternatives applied when normality or homogeneity assumptions violated.

### 3 Result

Descriptive analysis of 120 professional matches revealed significant tactical differentiation between high pressing and defensive strategy implementations. The high pressing tactical group demonstrated mean ball recovery rate of 68.4% (SD = 8.2) in the opponent's half, substantially exceeding the defensive strategy group achieving 42.1% (SD = 9.6) ball recovery rate. Independent samples t-test analysis confirmed statistically significant differences in ball recovery rates between tactical groups ( $t(118) = 18.76, p < 0.001, d = 3.07$ ), with effect size indicating large practical magnitude.

Defensive performance metrics demonstrated contrasting patterns between tactical approaches. High pressing strategies exhibited mean defensive success percentage of 58.2% (SD = 7.4), while defensive strategies achieved substantially higher defensive success of 75.6% (SD = 6.1). This differential reached statistical significance ( $t(118) = 15.42, p < 0.001, d = 2.52$ ), indicating that organized defensive structures demonstrated superior immediate defensive action success despite reduced pressing activity.

Goal conceding analysis revealed that high pressing tactical implementations resulted in mean 1.8 goals conceded per match (SD = 0.9), compared to defensive strategy implementations yielding 1.2 goals conceded per match (SD = 0.7). Statistical comparison confirmed significant differences in defensive vulnerability ( $t(118) = 4.18, p < 0.001, d = 0.68$ ), suggesting heightened counter-attacking exposure associated with high pressing tactical approaches.

Offensive transition opportunities represented another critical performance differential between tactical groups. High pressing strategies generated mean 7.6 offensive transition opportunities per match (SD = 2.3), substantially exceeding defensive strategy implementations producing 3.4 offensive opportunities per match (SD = 1.8). This difference achieved statistical significance ( $t(118) = 12.34, p < 0.001, d = 2.01$ ), demonstrating substantially enhanced offensive opportunity generation through high pressing tactical approaches.

Subgroup analysis examining high pressing effectiveness against defensive-oriented opponents revealed variable success patterns. When high pressing teams faced organized defensive opponents, ball recovery success declined to 61.2% (SD = 9.1) compared to 73.4% (SD = 7.8) against offensive-oriented opponents, with significant interaction effect confirmed ( $F(1,118) = 8.42, p = 0.004$ ). Conversely, defensive strategies maintained consistent performance parameters across different opponent types, suggesting greater tactical stability across varying competitive contexts.

Correlation analysis examined relationships between pressing intensity and goal conceding frequency. Results demonstrated positive correlation between pressing trigger frequency and goals conceded ( $r = 0.42, p = 0.001$ ), indicating that more aggressive pressing implementations associated with increased defensive exposure. However, when examining contexts where pressing achieved successful recovery within five seconds of trigger implementation, correlation reversed negatively ( $r = -0.35, p = 0.002$ ), suggesting that high-intensity pressing achieving rapid recovery associated with reduced opponent attacking opportunities.

Possession retention analysis in attacking zones revealed that high pressing strategies facilitated sustained possession duration of 38.2 seconds (SD = 14.6) in attacking third, compared to defensive strategies achieving 24.7 seconds (SD = 11.2) before possession loss or transition ( $t(118) = 6.17, p < 0.001, d = 1.00$ ).

#### **4 Discussion**

The comparative analysis of high pressing and defensive strategies demonstrates distinct tactical profiles characterized by meaningful performance differentiation across multiple dimensions relevant to contemporary football competitive contexts. These findings provide empirical evidence regarding the quantifiable consequences of fundamental tactical strategic choices, addressing previously identified research gaps concerning comparative tactical effectiveness through rigorous systematic analysis.

The substantial differential in ball recovery rates between high pressing (68.4%) and defensive strategies (42.1%) represents the most pronounced tactical distinction identified throughout this investigation. This finding aligns theoretically with explicit design characteristics of high pressing systems emphasizing proactive possession recovery in advanced field zones, contrasting fundamentally with defensive strategies prioritizing organized territorial defense. The magnitude of this differential (difference of 26.3 percentage points, effect size  $d = 3.07$ ) suggests that tactical orientation substantially influences fundamental possession dynamics. Coaches implementing high pressing systems should anticipate substantially elevated ball recovery frequency in opponent's half, creating strategic advantages for rapid transition play. Notably, the large effect size confirms that tactical strategy represents a primary determinant of ball possession location rather than secondary tactical variable (Williams & Taylor, 2021).

Defensive success percentage analysis reveals a somewhat paradoxical finding whereby defensive strategies achieved substantially higher defensive action success (75.6%) despite lower pressing activity compared to high pressing tactical implementations achieving 58.2% success rates. This finding suggests that reduced pressing intensity facilitates improved immediate defensive action execution through enhanced spatial organization and reduced defender dispersion. The defensive success differential may reflect that high pressing tactical systems necessarily accept lower individual defensive action success rates as consequence of distributed defensive engagement across expanded field areas and pressing triggers distant from goal-side defense. This tactical trade-off exchanges defensive action success for enhanced prevention of opponent attacking opportunity generation through advanced possession recovery. The finding aligns with theoretical propositions suggesting that defensive metrics must be contextualized within broader tactical frameworks rather than interpreted as isolated performance indicators (Robinson & Hayes, 2022).

Goal conceding analysis demonstrates significantly elevated vulnerability associated with high pressing approaches, with mean 1.8 goals conceded compared to 1.2 goals conceded under defensive strategies. This 0.6 goal differential represents material defensive exposure associated with high pressing tactical implementations. While statistically significant and practically consequential, this finding requires interpretation within broader tactical context. The elevated goal conceding frequency likely reflects counter-attacking scenarios where possession recovery failure or successful opponent pressing evasion results in numerical disadvantage situations favoring attacking opportunities. Temporal analysis examining goal timing relative to pressing triggers would clarify whether elevated conceding frequency correlates with specific pressing trigger moments or represents more distributed defensive exposure. The positive correlation identified between pressing trigger frequency and goal conceding ( $r = 0.42$ ,  $p = 0.001$ ) provides preliminary evidence that elevated pressing activity associates with increased counter-attacking opportunity exposure, though this relationship appears contingent upon pressing recovery success (Islam & Haque, 2020).

Offensive transition opportunity analysis demonstrates that high pressing tactics generate substantially more rapid transition opportunities (7.6 per match) compared to defensive strategies (3.4 per match), representing a 123% increase in transition opportunity frequency. This differential directly reflects the theoretical foundation of high pressing systems whereby advanced possession recovery generates numerical superiority in attacking zones and creates goalkeeper-to-goal attacking progressions with reduced defensive organization. Coaches implementing high pressing should anticipate substantially enhanced transition opportunity availability for exploiting opponent disorganization during pressing-induced turnovers. The substantial magnitude of this differential suggests that high pressing tactical choices fundamentally alter attacking opportunity profiles beyond modest incremental gains. This finding provides empirical support for theoretical propositions that high pressing facilitates superior offensive opportunity generation, though elevated goal conceding rates suggest that numerical advantage generation does not necessarily translate to proportional goal scoring advantage (Bergmann & Schmidt, 2021).

Subgroup analysis examining tactical effectiveness across different opponent types revealed important contextual findings regarding high pressing strategy variability. The observation that high pressing strategies demonstrated decreased effectiveness (61.2% ball recovery rate) against organized defensive opponents compared to offensive-oriented opponents (73.4% recovery rate) suggests that tactical pairing effects substantially influence high pressing implementation success. This finding implies that high pressing strategies may function optimally within

specific competitive contexts rather than representing universally superior tactical approaches. Defensive-oriented opponents creating compact defensive structures may facilitate reduced passing lane availability and enhanced recovery positioning, challenging high pressing ball recovery efficiency through defensive compactness and reduced attacking ambition. Conversely, offensive-oriented opponents with advanced attacking positioning create expanded defensive voids and attacking commitment that high pressing tactics exploit through advanced recovery positioning. These findings support contextual tactical decision-making frameworks whereby coaching decisions incorporate opponent-specific tactical characteristics rather than implementing consistent tactical frameworks across heterogeneous competitive contexts (Novak & Petrovic, 2022).

Possession retention analysis in attacking zones revealed sustained possession duration substantially elevated under high pressing implementations (38.2 seconds) compared to defensive strategies (24.7 seconds). This finding reflects the fundamental operational difference whereby high pressing generates early possession recovery in advanced field areas enabling sustained attacking sequence development, while defensive strategies typically recover possession in deeper field zones requiring extended progressive sequences to reach attacking positions. The implications suggest that high pressing tactics facilitate superior quality of attacking position through more advanced recovery locations enabling direct attacking focus relative to the extended progression required from deeper recovery positions. This finding aligns with positional analysis indicating that possession location substantially influences subsequent attacking efficiency and goal probability metrics (Thompson & Rodriguez, 2023).

The practical implications of these findings suggest that tactical selection should incorporate contextual considerations rather than categorical strategic commitments. High pressing strategies optimize offensive opportunity generation and advanced possession location but require exceptional defensive organization to minimize counter-attacking exposure, suggesting suitability for squads possessing superior technical ability, pressing intensity, and rapid defensive reconstitution capabilities. Defensive strategies provide superior defensive stability and reduced goal conceding vulnerability but substantially limit offensive opportunity generation, suggesting suitability for squads facing superior-quality opponents or possessing offensive limitation requiring defensive focus. Hybrid tactical approaches incorporating situational pressing intensity adjustment based on match score, opponent adaptation, and fatigue factors may provide tactical flexibility optimizing advantages from both approaches while minimizing characteristic limitations. The interaction effects identified between tactical strategy and opponent characteristics suggest that effective coaching involves tactical flexibility and contextual adaptation rather than categorical tactical commitment throughout competitive seasons.

## **5 Conclusion**

This investigation provides comprehensive comparative analysis of high pressing and defensive strategies through systematic quantitative examination of tactical performance metrics across professional competitive contexts. The findings demonstrate that high pressing strategies substantially increase ball recovery frequency, offensive transition opportunities, and advanced possession location, providing tactical frameworks optimizing attacking opportunity generation. Conversely, defensive strategies demonstrate superior defensive success rates, reduced goal conceding frequency, and greater tactical stability across varying competitive contexts,

providing defensive security frameworks prioritizing stability over attacking opportunity generation.

Neither tactical approach represents universally superior strategic choice; rather, effectiveness appears substantially contingent upon squad composition, opponent characteristics, and competitive context situational factors. High pressing tactics require exceptional technical ability, pressing intensity maintenance, and defensive reconstitution capability to minimize counter-attacking exposure and optimize recovering ball possession into attacking opportunities. Defensive strategies require disciplined tactical organization, spatial awareness coordination, and rapid transition execution to capitalize upon limited offensive opportunities generated through organized defending.

The identified correlation between pressing intensity and goal conceding frequency warrants managerial consideration regarding tactical implementation intensity. High pressing implementations achieving rapid possession recovery (within five seconds of pressing trigger) demonstrated negative correlation between pressing activity and goal conceding, suggesting that successful pressing implementation effectively minimizes counter-attacking exposure. Conversely, unsuccessful pressing sequences creating extended defensive displacement demonstrated positive correlation with goal conceding frequency. This finding suggests that pressing implementation success represents critical consideration distinct from pressing intensity magnitude.

Based upon these findings, several evidence-based recommendations emerge for tactical implementation and future research. Coaching practitioners implementing high pressing tactics should incorporate periodized pressing intensity adjustment accounting for fatigue accumulation, squad personnel availability, and opponent adaptation patterns. Defensive stability maintenance through organized back-line positioning and goalkeeper communication represents essential parallel focus preventing counter-attacking exploitation of pressing-induced defensive displacement. Defensive strategy implementations should evaluate tactical flexibility incorporating situational high pressing triggers during specific match phases (early attacking period, score-trailing situations) to generate offensive opportunities while maintaining fundamental defensive organizational structure. Future research should incorporate temporal analysis examining tactical effectiveness variation across match phases, fatigue-related tactical degradation patterns, and possession quality metrics beyond possession location. Additionally, investigation of hybrid tactical approaches incorporating contextual pressing intensity adjustment provides important research avenue for understanding contemporary tactical evolution toward situational tactical flexibility. Longitudinal investigations tracking tactical effectiveness across extended competitive seasons incorporating opponent adaptation and tactical learning would substantially enhance understanding of tactical effectiveness sustainability across competitive seasons.

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