



RESEARCH ARTICLE

Cyberbullying and Psychological Well-Being Among Young Adults in Digitally Connected Societies

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ABSTRACT

Digital connectivity has expanded opportunities for communication, learning, work, and social participation among young adults, while simultaneously creating conditions in which interpersonal aggression can become persistent, visible, and difficult to escape. This conceptual review examines how cyberbullying affects psychological well-being among young adults in digitally connected societies and explains why exposure cannot be understood only as an isolated online event. Drawing on contemporary cyberbullying research, psychological well-being scholarship, stress and coping perspectives, social support research, and evidence from university and emerging-adult populations, the analysis identifies five interconnected mechanisms: persistent exposure, public amplification, identity threat, social comparison, and weakened control over digital boundaries. The review further evaluates how anxiety, depressive symptoms, stress, sleep disruption, social withdrawal, and reduced life satisfaction can emerge through these mechanisms, while recognising that effects vary according to social support, coping resources, platform conditions, and institutional response. The article argues for an ecological response that combines digital literacy, bystander capability, accessible psychological support, proportionate institutional procedures, and platform accountability. Its principal contribution is an integrated framework that positions psychological well-being as an outcome of interactions among individual appraisal, relational resources, institutional protection, and digital architecture, thereby extending cyberbullying analysis beyond prevalence toward prevention, recovery, and sustainable participation in connected societies.

Keywords: Cyberbullying, Wellbeing, Resilience, Support, Digitalization

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1. INTRODUCTION

Young adulthood is increasingly organised through digitally mediated relationships in which education, employment, friendship, entertainment, identity expression, and civic participation intersect on the same devices and platforms. This connectivity creates substantial social value, yet it also changes the reach and persistence of interpersonal aggression. Cyberbullying can involve repeated hostile messages, humiliation, exclusion, impersonation, non-consensual sharing, threats, or coordinated attacks delivered through social media, messaging services, gaming environments, and other networked spaces. Unlike many face-to-face encounters, harmful digital content can remain searchable, circulate across audiences, and enter private spaces at any time. Tokunaga (2010) identified persistence and technological reach as central features that complicate victimisation, while Kowalski et al. (2014) showed that cyberbullying is associated with a broad set of psychosocial risks. Evidence among young adults is particularly important because much early scholarship concentrated on school-aged populations. Recent Malaysian evidence confirms that cyberbullying victimisation occurs among young adults and is significantly associated with psychological distress (Samsudin et al., 2023). University-focused synthesis likewise links cybervictimisation with depression, anxiety, stress, suicidal behaviour, and lower self-esteem (Arif et al., 2024). These patterns position cyberbullying not simply as inappropriate online conduct, but as a psychological well-being challenge embedded in contemporary digital participation. This framing establishes cyberbullying as a psychosocial problem shaped by digitally mediated exposure rather than a narrow question of online etiquette.

Psychological well-being provides a broader analytical lens than the absence of psychiatric symptoms because it concerns how people evaluate themselves, maintain purposeful relationships, exercise autonomy, manage environmental demands, and sustain a meaningful sense of development. Ryff (1989) conceptualised well-being through dimensions that include self-acceptance, positive relations, autonomy, environmental mastery, purpose, and personal growth. Cyberbullying can disturb several of these dimensions simultaneously. Public humiliation may undermine self-acceptance; exclusion can weaken belonging; impersonation can threaten autonomy; repeated harassment can reduce perceived control; and persistent digital monitoring can make ordinary social participation feel unsafe. Stress and coping theory further suggests that outcomes depend on how a person appraises a threat and the resources available to manage it (Lazarus & Folkman, 1984). Social support can buffer stress when relationships provide emotional reassurance, practical assistance, and credible protection (Cohen & Wills, 1985). Consequently, identical digital events need not produce identical psychological outcomes. The same hostile post may be contained quickly for one person but become an enduring source of anxiety for another because of audience size, prior vulnerability, social isolation, institutional inaction, or repeated algorithmic exposure. Understanding cyberbullying therefore requires attention to both harmful acts and the social systems that determine whether harm is amplified or contained. Psychological well-being therefore offers a suitable basis for analysing why comparable digital incidents can produce markedly different personal consequences.

Current evidence increasingly supports a relationship between cyberbullying involvement and diminished psychological functioning among young adults. Schenk and Fremouw (2012) found that college cybervictims reported higher levels of depression, anxiety, phobic anxiety, and paranoia than matched controls, indicating that the effects extend beyond temporary irritation. More recent

research has strengthened this pattern. Arif et al. (2024), reviewing university students, identified consistent associations with depression, anxiety, stress, suicidal behaviour, and lower self-esteem. In Malaysia, Samsudin et al. (2023) found a significant relationship between cyberbullying victimisation and psychological distress among young adults, while Kee et al. (2024) demonstrated that psychological distress mechanisms help explain the association between cybervictimisation and suicidal ideation among Malaysian youth. Research on college students also links cyberbullying with social anxiety, illustrating how online aggression can alter expectations about evaluation and interpersonal safety (Martínez-Monteagudo et al., 2022). At the same time, problematic social networking use is associated with poorer social well-being among young adults, suggesting that platform engagement patterns can interact with relational stress rather than functioning as neutral exposure channels (Valkenburg et al., 2022). Taken together, the evidence supports a move from asking whether cyberbullying is harmful toward examining the mechanisms, conditions, and protective resources that shape the severity and duration of psychological consequences. Current evidence consequently supports mechanism-focused analysis that distinguishes exposure from the processes determining the depth and duration of harm.

Despite a substantial literature, several conceptual limitations remain. First, cyberbullying research has often been shaped by adolescent samples, while young adulthood involves different developmental tasks, institutional settings, romantic relationships, employment pressures, and degrees of digital independence. Second, studies frequently emphasise negative symptoms without integrating positive dimensions of psychological well-being such as autonomy, purpose, mastery, and relational quality. Third, platform architecture has evolved faster than many conceptual models. Algorithmic recommendation, short-form video, public metrics, persistent profiles, anonymous accounts, group messaging, and cross-platform circulation can intensify visibility and repetition in ways that older definitions did not fully anticipate. Zaini et al. (2026), examining Generation Z online behaviour in digital commerce, illustrates how digitally mediated perceptions can influence young adults' behaviour, reinforcing the broader need to understand platform-shaped social judgement. Yusof et al. (2025) similarly emphasise that digital mobility is embedded in university students' learning behaviour, showing how online environments are intertwined with everyday participation rather than separable from it. Finally, interventions often place responsibility on individuals to block, report, or disengage, even when the underlying problem involves peer norms, weak institutional procedures, or platform affordances. These limitations create a need for an integrated perspective that connects psychological mechanisms with relational, institutional, and technological conditions. These limitations justify an integrated framework capable of connecting psychological vulnerability with relational, institutional, and technological conditions.

The purpose of this review is to develop an integrated explanation of how cyberbullying shapes psychological well-being among young adults in digitally connected societies and to identify strategic pathways for prevention, protection, and recovery. The analysis adopts an ecological and psychological perspective that combines stress appraisal, social support, well-being, social learning, and digital-context mechanisms. This approach is necessary because cyberbullying is neither exclusively an individual mental health problem nor solely a technological governance problem. Harm emerges through interactions among aggressive behaviour, audience participation, platform visibility, personal appraisal, coping capacity, social support, and institutional response. Bandura's (2001) social cognitive perspective is useful for explaining how online behaviour is reinforced

through observation, norms, and anticipated consequences, while Cohen and Wills (1985) clarify why supportive relationships can reduce the impact of stress. Contemporary evidence from young adults, university populations, and digitally intensive contexts is used to interpret these mechanisms without fabricating empirical findings. The scholarly contribution lies in repositioning psychological well-being as a dynamic outcome of digital social systems rather than a downstream symptom category. The resulting framework connects conceptual foundations, contemporary challenges, explanatory mechanisms, and implementable pathways, providing a coherent basis for researchers, universities, employers, practitioners, and platform stakeholders seeking to support safer and more sustainable digital participation among young adults. The review consequently treats safer digital participation as a shared responsibility involving individual capability, social support, institutional protection, and platform governance.

2.0 CONCEPTUAL FOUNDATIONS SHAPING CYBERBULLYING PSYCHOLOGICAL WELL-BEING OUTCOMES

Cyberbullying among young adults is best understood through an integrated foundation that connects the characteristics of digitally mediated aggression with the multidimensional nature of psychological well-being. The following analysis combines definitions of cyberbullying, developmental features of young adulthood, stress appraisal, social support, and platform architecture. Together, these perspectives explain why the same digital act can generate different psychological consequences across individuals and contexts. They also clarify that harm is not produced by technology alone. It emerges through interactions among behaviour, audience response, personal interpretation, relational resources, and digital design. These foundations provide the analytical basis for distinguishing forms of cyberbullying exposure from the psychological processes that determine subsequent well-being outcomes.

2.1 Cyberbullying Dynamics Shaping Digitally Mediated Interpersonal Aggression

Cyberbullying dynamics provides a focused lens for examining persistent reach, audience scale, perceived power imbalance within contemporary digital interaction. Cyberbullying dynamics reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with cyberbullying dynamics may carry meaningful social or practical costs. Tokunaga (2010) provides an important basis for understanding this relationship, while Kowalski et al. (2014) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. The psychological importance of cyberbullying dynamics lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation. A well-being perspective evaluates cyberbullying dynamics by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives cyberbullying dynamics particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Its psychological consequences vary with the developmental and social circumstances surrounding young adults' education, employment, relationships, and identity formation.

A closer examination of digitally mediated aggression shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to digitally mediated aggression, since severity depends on personal resources and surrounding social conditions. Kowalski et al. (2014) illustrates the importance of psychological and contextual variation, whereas Tokunaga (2010) helps explain how repeated or unresolved exposure can develop into sustained psychological distress. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation. The connection between digitally mediated aggression and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining digitally mediated aggression rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments. Consequently, cyberbullying dynamics can influence well-being differently as young adults navigate education, work, intimate relationships, identity development, and changing social networks.

2.2 Psychological Well-Being Patterns Shaping Emerging Adult Development

Psychological well-being provides a focused lens for examining autonomy, self-acceptance, relational security, purposeful growth within contemporary digital interaction. Psychological well-being reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with psychological well-being may carry meaningful social or practical costs. Ryff (1989) provides an important basis for understanding this relationship, while Arif et al. (2024) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. The psychological importance of psychological well-being lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, making emerging adult development a central consideration in response design. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, making emerging adult development a central consideration in response design. A well-being perspective evaluates psychological well-being by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives psychological well-being particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Digital harm is therefore produced through interacting features of content, circulation, audience response, platform design, and personal agency.

A closer examination of emerging adult development shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to emerging adult development, since severity depends on personal resources and surrounding social conditions. Arif et al. (2024)

illustrates the importance of psychological and contextual variation, whereas Ryff (1989) helps explain how repeated or unresolved exposure can develop into sustained psychological distress. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, which gives emerging adult development greater analytical importance. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, which gives emerging adult development greater analytical importance. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, which gives emerging adult development greater analytical importance. The connection between emerging adult development and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining emerging adult development rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, which gives emerging adult development greater analytical importance. Consequently, psychological well-being can influence well-being differently as young adults navigate education, work, intimate relationships, identity development, and changing social networks.

2.3 Stress Appraisal Processes Driving Emotional Internalisation Responses

Stress appraisal provides a focused lens for examining threat interpretation, rumination, anxiety, perceived uncontrollability within contemporary digital interaction. Stress appraisal reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with stress appraisal may carry meaningful social or practical costs. Lazarus and Folkman (1984) provide an important basis for understanding this relationship, while Kee et al. (2024) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. The psychological importance of stress appraisal lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, with particular consequences for emotional internalisation. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, with particular consequences for emotional internalisation. A well-being perspective evaluates stress appraisal by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives stress appraisal particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Its psychological consequences vary with the developmental and social circumstances surrounding young adults' education, employment, relationships, and identity formation, especially when emotional internalisation remains unresolved.

A closer examination of emotional internalisation shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to emotional internalisation, since severity depends on personal resources and surrounding social conditions. Kee et al. (2024)

illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Lazarus and Folkman (1984) support attention to the processes through which exposure becomes sustained distress.. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, making emotional internalisation a central consideration in response design. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, making emotional internalisation a central consideration in response design. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, making emotional internalisation a central consideration in response design. The connection between emotional internalisation and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining emotional internalisation rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, making emotional internalisation a central consideration in response design. Consequently, stress appraisal can influence well-being differently as young adults navigate education, work, intimate relationships, identity development, and changing social networks.

2.4 Social Support Resources Strengthening Belonging Protective Capacity

Social support resources provides a focused lens for examining peer reassurance, family support, institutional trust, help-seeking within contemporary digital interaction. Social support resources reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with social support resources may carry meaningful social or practical costs. Cohen and Wills (1985) provide an important basis for understanding this relationship, while Samsudin et al. (2023) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. The psychological importance of social support resources lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, especially when belonging and protective capacity remains unresolved. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, especially when belonging and protective capacity remains unresolved. A well-being perspective evaluates social support resources by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives social support resources particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Its psychological consequences vary with the developmental and social circumstances surrounding young adults' education, employment, relationships, and identity formation, thereby intensifying concerns surrounding belonging and protective capacity.

A closer examination of belonging and protection shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to belonging and protection, since

severity depends on personal resources and surrounding social conditions. Samsudin et al. (2023) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Cohen and Wills (1985) support attention to the processes through which exposure becomes sustained distress.. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, with particular consequences for belonging and protective capacity. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, with particular consequences for belonging and protective capacity. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, with particular consequences for belonging and protective capacity. The connection between belonging and protection and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining belonging and protection rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, with particular consequences for belonging and protective capacity. Effective intervention therefore depends on recognising how social support resources alters belonging and protection within the everyday realities of young adult digital participation.

2.5 Digital Architecture Intensifying Visibility Comparison Psychological Vulnerability

Digital architecture provides a focused lens for examining algorithmic exposure, public metrics, permanence, cross-platform circulation within contemporary digital interaction. Digital architecture reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with digital architecture may carry meaningful social or practical costs. Valkenburg et al. (2022) provide an important basis for understanding this relationship, while Zaini et al. (2026) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. Harm intensifies when digital architecture changes how a person interprets personal control, social acceptance, safety, or self-worth. Digital permanence can extend the emotional life of harmful content by sustaining uncertainty about audience reach and future redistribution. These pressures can disrupt concentration, sleep quality, social confidence, emotional regulation, and willingness to remain digitally engaged. Assessment of visibility and comparison should consider whether affected individuals can preserve autonomy, maintain relationships, pursue goals, and function effectively. The consequences of digital architecture are shaped by developmental transitions that can either increase vulnerability or provide stronger protective resources. This context sensitivity explains why digital architecture may produce different outcomes across young adults with different networks, responsibilities, and institutional resources.

A closer examination of visibility and comparison shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to visibility and comparison, since severity depends on personal resources and surrounding social conditions. Zaini et al. (2026) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Valkenburg et al.. (2022) helps explain how repeated or unresolved

exposure can develop into sustained psychological distress. Social responses are especially consequential. Collective protection becomes possible when peers defend targets, witnesses interrupt diffusion, institutions respond credibly, and platforms restrict repeated abuse. By contrast, victim blaming, passive audiences, uncertain reporting routes, or continued circulation can intensify visibility and comparison by reinforcing perceived powerlessness. Coping trajectories therefore depend on whether surrounding responses increase control and support or reinforce avoidance and social disconnection. Psychological outcomes emerge through a chain in which digital architecture is interpreted through personal resources, audience reactions, institutional responses, and digital affordances. This evidence indicates that awareness alone cannot adequately address digital architecture; coordinated protective action is also required. Young adults require practical systems that limit exposure, preserve evidence, enable reporting, provide psychological support, and protect continued access to essential digital opportunities. Effective intervention therefore depends on recognising how digital architecture alters visibility and comparison within the everyday realities of young adult digital participation.

3.0 CONTEMPORARY DIGITAL PRESSURES AMPLIFYING CYBERBULLYING PSYCHOLOGICAL HARM

Contemporary digital environments intensify cyberbullying through conditions that extend beyond the original hostile act. Persistent connectivity can remove temporal boundaries, public sharing can enlarge audiences, social comparison can heighten identity threat, weak reporting systems can reduce perceived protection, and algorithmic circulation can prolong exposure. These pressures are especially significant for young adults whose educational, occupational, and social identities are increasingly managed through connected platforms. The five challenges examined below emerge directly from the conceptual foundations established earlier. Each challenge demonstrates how technological affordances interact with psychological appraisal and social response. Together, these pressures explain how contemporary digital environments can convert isolated hostile encounters into sustained patterns of psychological strain.

3.1 Persistent Digital Exposure Weakening Personal Boundary Control

Persistent digital exposure provides a focused lens for examining always-on contact, repeated intrusion, reduced opportunities for psychological detachment within contemporary digital interaction. Persistent digital exposure reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with persistent digital exposure may carry meaningful social or practical costs. Schenk and Fremouw (2012) provide an important basis for understanding this relationship, while Arif et al. (2024) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. The psychological importance of persistent digital exposure lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, thereby intensifying concerns surrounding personal boundary control. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, thereby intensifying concerns surrounding personal boundary control. A well-being perspective evaluates persistent digital exposure by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives

persistent digital exposure particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Its psychological consequences vary with the developmental and social circumstances surrounding young adults' education, employment, relationships, and identity formation, which gives personal boundary control greater analytical importance.

A closer examination of boundary control shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to boundary control, since severity depends on personal resources and surrounding social conditions. Arif et al. (2024) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Schenk and Fremouw (2012) support attention to the processes through which exposure becomes sustained distress.. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, especially when personal boundary control remains unresolved. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, especially when personal boundary control remains unresolved. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, especially when personal boundary control remains unresolved. The connection between boundary control and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining boundary control rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, especially when personal boundary control remains unresolved. Effective intervention therefore depends on recognising how persistent digital exposure alters boundary control within the everyday realities of young adult digital participation.

3.2 Public Network Amplification Deepening Humiliation Reputational Harm

Public network amplification provides a focused lens for examining large audiences, redistribution, screenshots, commentary, enduring visibility within contemporary digital interaction. Public network amplification reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with public network amplification may carry meaningful social or practical costs. Kowalski et al. (2014) provide an important basis for understanding this relationship, while Tokunaga (2010) documents variation in psychological outcomes, reinforcing the importance of exposure intensity, digital context, and surrounding social conditions. The psychological importance of public network amplification lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, which gives reputational harm greater analytical importance. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, which gives reputational harm greater analytical importance. A well-being perspective evaluates public network amplification by examining changes in

functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives public network amplification particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Digital harm is therefore produced through interacting features of content, circulation, audience response, platform design, and personal agency, thereby intensifying concerns surrounding reputational harm.

A closer examination of reputational harm shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to reputational harm, since severity depends on personal resources and surrounding social conditions. Tokunaga (2010) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Kowalski et al.. (2014) helps explain how repeated or unresolved exposure can develop into sustained psychological distress. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, thereby intensifying concerns surrounding reputational harm. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, thereby intensifying concerns surrounding reputational harm. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, thereby intensifying concerns surrounding reputational harm. The connection between reputational harm and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining reputational harm rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, thereby intensifying concerns surrounding reputational harm. Consequently, public network amplification can influence well-being differently as young adults navigate education, work, intimate relationships, identity development, and changing social networks.

3.3 Identity Threat Intensifying Social Comparison Psychological Distress

Identity threat provides a focused lens for examining self-evaluation, appearance, status, belonging, shame, identity development within contemporary digital interaction. Identity threat reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with identity threat may carry meaningful social or practical costs. Martínez-Monteagudo et al. (2022) provide an important basis for understanding this relationship, while Ryff (1989) documents variation in psychological outcomes, reinforcing the importance of exposure intensity, digital context, and surrounding social conditions. The psychological importance of identity threat lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, making social comparison distress a central consideration in response design. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, making social comparison distress a central consideration in response design. A well-being perspective evaluates identity threat by examining changes in functioning, autonomy,

relationships, purpose, and perceived control after exposure. Young adulthood gives identity threat particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Digital harm is therefore produced through interacting features of content, circulation, audience response, platform design, and personal agency, which gives social comparison distress greater analytical importance.

A closer examination of social comparison distress shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to social comparison distress, since severity depends on personal resources and surrounding social conditions. Ryff (1989) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Martínez-Monteagudo et al. (2022) helps explain how repeated or unresolved exposure can develop into sustained psychological distress, which gives social comparison distress greater analytical importance. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, which gives social comparison distress greater analytical importance. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, which gives social comparison distress greater analytical importance. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, which gives social comparison distress greater analytical importance. The connection between social comparison distress and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining social comparison distress rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, which gives social comparison distress greater analytical importance. Consequently, identity threat can influence well-being differently as young adults navigate education, work, intimate relationships, identity development, and changing social networks.

3.4 Weak Reporting Systems Limiting Bystander Institutional Protection

Reporting weakness provides a focused lens for examining unclear procedures, passive bystanders, escalation fears, fragmented responsibility within contemporary digital interaction. Reporting weakness reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with reporting weakness may carry meaningful social or practical costs. Van Cleemput et al. (2014) provide an important basis for understanding this relationship, while Arif et al. (2024) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. Harm intensifies when reporting weakness changes how a person interprets personal control, social acceptance, safety, or self-worth. Digital permanence can extend the emotional life of harmful content by sustaining uncertainty about audience reach and future redistribution, especially when institutional protection remains unresolved. These pressures can disrupt concentration, sleep quality, social confidence, emotional regulation, and willingness to remain digitally engaged, especially when institutional protection remains unresolved. Assessment

of institutional protection should consider whether affected individuals can preserve autonomy, maintain relationships, pursue goals, and function effectively. The consequences of reporting weakness are shaped by developmental transitions that can either increase vulnerability or provide stronger protective resources. This context sensitivity explains why reporting weakness may produce different outcomes across young adults with different networks, responsibilities, and institutional resources.

A closer examination of institutional protection shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to institutional protection, since severity depends on personal resources and surrounding social conditions. Arif et al. (2024) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Van Cleemput et al.. (2014) helps explain how repeated or unresolved exposure can develop into sustained psychological distress, with particular consequences for institutional protection. Social responses are especially consequential. Collective protection becomes possible when peers defend targets, witnesses interrupt diffusion, institutions respond credibly, and platforms restrict repeated abuse, with particular consequences for institutional protection. By contrast, victim blaming, passive audiences, uncertain reporting routes, or continued circulation can intensify institutional protection by reinforcing perceived powerlessness. Coping trajectories therefore depend on whether surrounding responses increase control and support or reinforce avoidance and social disconnection, with particular consequences for institutional protection. Psychological outcomes emerge through a chain in which reporting weakness is interpreted through personal resources, audience reactions, institutional responses, and digital affordances. This evidence indicates that awareness alone cannot adequately address reporting weakness; coordinated protective action is also required. Young adults require practical systems that limit exposure, preserve evidence, enable reporting, provide psychological support, and protect continued access to essential digital opportunities, with particular consequences for institutional protection. Digital safety matters (Yusof, Abdul Razak, Misnan, et al., 2026).

3.5 Algorithmic Connectivity Fragmenting Personal Digital Safety Boundaries

Algorithmic connectivity provides a focused lens for examining recommendation systems, rapid diffusion, multiple platforms, blurred private-public boundaries within contemporary digital interaction. Algorithmic connectivity reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with algorithmic connectivity may carry meaningful social or practical costs. Yusof et al. (2025) provide an important basis for understanding this relationship, while Yusof and Abd Wahab (2021) documents variation in psychological outcomes, reinforcing the importance of exposure intensity, digital context, and surrounding social conditions. The psychological importance of algorithmic connectivity lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, thereby intensifying concerns surrounding digital safety boundaries. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, thereby intensifying concerns surrounding digital safety boundaries. A well-being perspective evaluates algorithmic

connectivity by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives algorithmic connectivity particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Its psychological consequences vary with the developmental and social circumstances surrounding young adults' education, employment, relationships, and identity formation, with particular consequences for digital safety boundaries.

A closer examination of digital safety boundaries shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to digital safety boundaries, since severity depends on personal resources and surrounding social conditions. Yusof and Abd Wahab (2021) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Yusof et al.. (2025) helps explain how repeated or unresolved exposure can develop into sustained psychological distress. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, especially when digital safety boundaries remains unresolved. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, especially when digital safety boundaries remains unresolved. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, especially when digital safety boundaries remains unresolved. The connection between digital safety boundaries and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining digital safety boundaries rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, especially when digital safety boundaries remains unresolved. Digital safety matters (Yusof, 2025), reinforcing the practical importance of digital safety boundaries.

4.0 PSYCHOLOGICAL MECHANISMS CONNECTING CYBERBULLYING EXPOSURE WELL-BEING OUTCOMES

The psychological consequences of cyberbullying are produced through identifiable mechanisms rather than through exposure alone. Loss of control can sustain threat appraisal; audience dynamics can intensify reputational vulnerability; repeated negative evaluation can be internalised into self-worth; social support can buffer or magnify distress depending on its availability; and avoidance can either protect recovery or reduce meaningful participation. These mechanisms explain why prevalence statistics cannot fully capture the burden of digital aggression. They also reveal important points of intervention. Examining these mechanisms clarifies why effective protection must address appraisal, social response, institutional credibility, and digital architecture simultaneously.

4.1 Perceived Control Loss Sustaining Chronic Threat Appraisal

Perceived control loss provides a focused lens for examining unpredictability, vigilance, cognitive load, rumination, reduced environmental mastery within contemporary digital interaction. Perceived control loss reflects interacting social, psychological, and technological conditions rather than a

single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with perceived control loss may carry meaningful social or practical costs. Lazarus and Folkman (1984) provide an important basis for understanding this relationship, while Samsudin et al. (2023) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. The psychological importance of perceived control loss lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, especially when chronic threat appraisal remains unresolved. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, especially when chronic threat appraisal remains unresolved. A well-being perspective evaluates perceived control loss by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives perceived control loss particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Its psychological consequences vary with the developmental and social circumstances surrounding young adults' education, employment, relationships, and identity formation, making chronic threat appraisal a central consideration in response design.

A closer examination of chronic threat appraisal shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to chronic threat appraisal, since severity depends on personal resources and surrounding social conditions. Samsudin et al. (2023) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Lazarus and Folkman (1984) support attention to the processes through which exposure becomes sustained distress.. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, with particular consequences for chronic threat appraisal. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, with particular consequences for chronic threat appraisal. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, with particular consequences for chronic threat appraisal. The connection between chronic threat appraisal and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining chronic threat appraisal rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, with particular consequences for chronic threat appraisal. Consequently, perceived control loss can influence well-being differently as young adults navigate education, work, intimate relationships, identity development, and changing social networks.

4.2 Audience Dynamics Increasing Reputational Vulnerability Psychological Strain

Audience dynamics provides a focused lens for examining social evaluation, audience uncertainty, perceived permanence, reputational anxiety within contemporary digital interaction. Audience dynamics reflects interacting social, psychological, and technological conditions rather than a single

isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with audience dynamics may carry meaningful social or practical costs. Tokunaga (2010) provides an important basis for understanding this relationship, while Kowalski et al. (2014) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure, with particular consequences for reputational vulnerability. The psychological importance of audience dynamics lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, thereby intensifying concerns surrounding reputational vulnerability. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, thereby intensifying concerns surrounding reputational vulnerability. A well-being perspective evaluates audience dynamics by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives audience dynamics particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Digital harm is therefore produced through interacting features of content, circulation, audience response, platform design, and personal agency, which gives reputational vulnerability greater analytical importance.

A closer examination of reputational vulnerability shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to reputational vulnerability, since severity depends on personal resources and surrounding social conditions. Kowalski et al. (2014) illustrates the importance of psychological and contextual variation, whereas Tokunaga (2010) helps explain how repeated or unresolved exposure can develop into sustained psychological distress, making reputational vulnerability a central consideration in response design. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, especially when reputational vulnerability remains unresolved. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, especially when reputational vulnerability remains unresolved. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, especially when reputational vulnerability remains unresolved. The connection between reputational vulnerability and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining reputational vulnerability rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, especially when reputational vulnerability remains unresolved. Consequently, audience dynamics can influence well-being differently as young adults navigate education, work, intimate relationships, identity development, and changing social networks.

4.3 Emotional Internalisation Eroding Self-Worth Psychological Well-Being Outcomes

Emotional internalisation provides a focused lens for examining self-blame, shame, self-esteem erosion, anxiety, depressive symptoms within contemporary digital interaction. Emotional

internalisation reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with emotional internalisation may carry meaningful social or practical costs. Arif et al. (2024) provide an important basis for understanding this relationship, while Kee et al. (2024) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. Harm intensifies when emotional internalisation changes how a person interprets personal control, social acceptance, safety, or self-worth. Digital permanence can extend the emotional life of harmful content by sustaining uncertainty about audience reach and future redistribution, especially when self-worth and well-being remains unresolved. These pressures can disrupt concentration, sleep quality, social confidence, emotional regulation, and willingness to remain digitally engaged, especially when self-worth and well-being remains unresolved. Assessment of self-worth and well-being should consider whether affected individuals can preserve autonomy, maintain relationships, pursue goals, and function effectively. The consequences of emotional internalisation are shaped by developmental transitions that can either increase vulnerability or provide stronger protective resources. This context sensitivity explains why emotional internalisation may produce different outcomes across young adults with different networks, responsibilities, and institutional resources.

A closer examination of self-worth and well-being shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to self-worth and well-being, since severity depends on personal resources and surrounding social conditions. Kee et al. (2024) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Arif et al., (2024) helps explain how repeated or unresolved exposure can develop into sustained psychological distress. Social responses are especially consequential. Collective protection becomes possible when peers defend targets, witnesses interrupt diffusion, institutions respond credibly, and platforms restrict repeated abuse, with particular consequences for self-worth and well-being. By contrast, victim blaming, passive audiences, uncertain reporting routes, or continued circulation can intensify self-worth and well-being by reinforcing perceived powerlessness. Coping trajectories therefore depend on whether surrounding responses increase control and support or reinforce avoidance and social disconnection, with particular consequences for self-worth and well-being. Psychological outcomes emerge through a chain in which emotional internalisation is interpreted through personal resources, audience reactions, institutional responses, and digital affordances. This evidence indicates that awareness alone cannot adequately address emotional internalisation; coordinated protective action is also required. Young adults require practical systems that limit exposure, preserve evidence, enable reporting, provide psychological support, and protect continued access to essential digital opportunities, with particular consequences for self-worth and well-being. The effects of emotional internalisation remain context dependent because young adults experience digital harm alongside rapidly changing academic, occupational, relational, and personal demands.

4.4 Social Support Resources Buffering Cyberbullying Psychological Harm

Social support provides a focused lens for examining validation, belonging, practical assistance, collective defence, trusted institutional response within contemporary digital interaction. Social support reflects interacting social, psychological, and technological conditions rather than a single

isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with social support may carry meaningful social or practical costs. Cohen and Wills (1985) provide an important basis for understanding this relationship, while Long et al. (2026) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. The psychological importance of social support lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, with particular consequences for psychological buffering. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, with particular consequences for psychological buffering. A well-being perspective evaluates social support by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives social support particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Its psychological consequences vary with the developmental and social circumstances surrounding young adults' education, employment, relationships, and identity formation, making psychological buffering a central consideration in response design.

A closer examination of psychological buffering shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to psychological buffering, since severity depends on personal resources and surrounding social conditions. Long et al. (2026) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Cohen and Wills (1985) support attention to the processes through which exposure becomes sustained distress. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, making psychological buffering a central consideration in response design. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, making psychological buffering a central consideration in response design. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, making psychological buffering a central consideration in response design. The connection between psychological buffering and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining psychological buffering rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, making psychological buffering a central consideration in response design. Effective intervention therefore depends on recognising how social support alters psychological buffering within the everyday realities of young adult digital participation.

4.5 Digital Participation Choices Supporting Psychological Recovery Processes

Digital participation choices provide a focused lens for examining selective engagement, blocking, withdrawal, digital resilience, restoration of agency within contemporary digital interaction. Digital

participation choices reflect interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with digital participation choices may carry meaningful social or practical costs. Schenk and Fremouw (2012) provide an important basis for understanding this relationship, while Yusof et al. (2025) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. The psychological importance of digital participation choices lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, especially when psychological recovery remains unresolved. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, especially when psychological recovery remains unresolved. A well-being perspective evaluates digital participation choices by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives digital participation choices particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Its psychological consequences vary with the developmental and social circumstances surrounding young adults' education, employment, relationships, and identity formation, with particular consequences for psychological recovery.

A closer examination of psychological recovery shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to psychological recovery, since severity depends on personal resources and surrounding social conditions. Yusof et al. (2025) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Schenk and Fremouw (2012) support attention to the processes through which exposure becomes sustained distress. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, with particular consequences for psychological recovery. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, with particular consequences for psychological recovery. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, with particular consequences for psychological recovery. The connection between psychological recovery and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining psychological recovery rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, with particular consequences for psychological recovery. Effective intervention therefore depends on recognising how digital participation choices alters psychological recovery within the everyday realities of young adult digital participation.

5.0 INTEGRATED STRATEGIES STRENGTHENING SAFER SUSTAINABLE DIGITAL PARTICIPATION

Sustainable responses to cyberbullying require coordinated pathways that protect psychological well-being without demanding withdrawal from digital life. Young adults need personal capabilities, but individual resilience is insufficient when peer norms, institutional systems, or platform features continue to reproduce exposure. Effective action therefore combines digital resilience, bystander intervention, accessible institutional protection, platform accountability, and integrated governance. The pathways below are aligned with the challenges and mechanisms developed in the preceding sections. Each pathway specifies what should change, how implementation can occur, which capability supports it, and what longer-term value can be created. The strategic pathways therefore prioritise prevention, timely protection, psychological recovery, and accountable digital governance as mutually reinforcing capabilities.

5.1 Digital Resilience Skills Strengthening Proactive Help-Seeking Capability

Digital resilience skills provide a focused lens for examining critical literacy, coping skills, evidence preservation, reporting knowledge, early support within contemporary digital interaction. Digital resilience skills reflect interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with digital resilience skills may carry meaningful social or practical costs. Arif et al. (2024) provide an important basis for understanding this relationship, while Bandura (2001) documents variation in psychological outcomes, reinforcing the importance of exposure intensity, digital context, and surrounding social conditions. The psychological importance of digital resilience skills lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, with particular consequences for help-seeking capability. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, with particular consequences for help-seeking capability. A well-being perspective evaluates digital resilience skills by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives digital resilience skills particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Its psychological consequences vary with the developmental and social circumstances surrounding young adults' education, employment, relationships, and identity formation, making help-seeking capability a central consideration in response design.

A closer examination of help-seeking capability shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to help-seeking capability, since severity depends on personal resources and surrounding social conditions. Bandura (2001) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Arif et al., (2024) helps explain how repeated or unresolved exposure can develop into sustained psychological distress, with particular consequences for help-seeking capability. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility,

making help-seeking capability a central consideration in response design. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, making help-seeking capability a central consideration in response design. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, making help-seeking capability a central consideration in response design. The connection between help-seeking capability and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining help-seeking capability rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, making help-seeking capability a central consideration in response design. Consequently, digital resilience skills can influence well-being differently as young adults navigate education, work, intimate relationships, identity development, and changing social networks.

5.2 Peer Bystander Intervention Strengthening Collective Protective Responses

Peer bystander intervention provides a focused lens for examining peer norms, safe intervention, collective reporting, supportive messaging, anti-normalisation within contemporary digital interaction. Peer bystander intervention reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with peer bystander intervention may carry meaningful social or practical costs. Van Cleemput et al. (2014) provide an important basis for understanding this relationship, while Cohen and Wills (1985) documents variation in psychological outcomes, reinforcing the importance of exposure intensity, digital context, and surrounding social conditions. The psychological importance of peer bystander intervention lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, especially when collective protection remains unresolved. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, especially when collective protection remains unresolved. A well-being perspective evaluates peer bystander intervention by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives peer bystander intervention particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Its psychological consequences vary with the developmental and social circumstances surrounding young adults' education, employment, relationships, and identity formation, with particular consequences for collective protection.

A closer examination of collective protection shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to collective protection, since severity depends on personal resources and surrounding social conditions. Cohen and Wills (1985) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Van Cleemput et al., (2014) helps explain how repeated or unresolved exposure can develop into sustained psychological distress, especially when collective protection remains

unresolved. Social responses are especially consequential. Recovery is strengthened when supportive relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, with particular consequences for collective protection. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, with particular consequences for collective protection. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, with particular consequences for collective protection. The connection between collective protection and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining collective protection rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, with particular consequences for collective protection. Effective intervention therefore depends on recognising how peer bystander intervention alters collective protection within the everyday realities of young adult digital participation.

5.3 Accessible Institutional Protection Strengthening Psychological Safety Systems

Institutional protection provides a focused lens for examining clear protocols, confidential reporting, counselling access, proportionate investigation, continuity support within contemporary digital interaction. Institutional protection reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with institutional protection may carry meaningful social or practical costs. Samsudin et al., (2023) provide an important basis for understanding this relationship, while Arif et al., (2024) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. Harm intensifies when institutional protection changes how a person interprets personal control, social acceptance, safety, or self-worth. Digital permanence can extend the emotional life of harmful content by sustaining uncertainty about audience reach and future redistribution, which gives psychological safety greater analytical importance. These pressures can disrupt concentration, sleep quality, social confidence, emotional regulation, and willingness to remain digitally engaged, which gives psychological safety greater analytical importance. Assessment of psychological safety should consider whether affected individuals can preserve autonomy, maintain relationships, pursue goals, and function effectively. The consequences of institutional protection are shaped by developmental transitions that can either increase vulnerability or provide stronger protective resources. This context sensitivity explains why institutional protection may produce different outcomes across young adults with different networks, responsibilities, and institutional resources.

A closer examination of psychological safety shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to psychological safety, since severity depends on personal resources and surrounding social conditions. Arif et al. (2024) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Samsudin et al., (2023) helps explain how repeated or unresolved exposure can develop into sustained psychological distress. Social responses are especially consequential. Collective protection becomes possible when peers defend targets, witnesses interrupt diffusion, institutions respond

credibly, and platforms restrict repeated abuse, thereby intensifying concerns surrounding psychological safety. By contrast, victim blaming, passive audiences, uncertain reporting routes, or continued circulation can intensify psychological safety by reinforcing perceived powerlessness. Coping trajectories therefore depend on whether surrounding responses increase control and support or reinforce avoidance and social disconnection, thereby intensifying concerns surrounding psychological safety. Psychological outcomes emerge through a chain in which institutional protection is interpreted through personal resources, audience reactions, institutional responses, and digital affordances. This evidence indicates that awareness alone cannot adequately address institutional protection; coordinated protective action is also required. Young adults require practical systems that limit exposure, preserve evidence, enable reporting, provide psychological support, and protect continued access to essential digital opportunities, thereby intensifying concerns surrounding psychological safety. Effective intervention therefore depends on recognising how institutional protection alters psychological safety within the everyday realities of young adult digital participation.

5.4 Platform Accountability Design Protecting Psychological Well-Being Outcomes

Platform accountability provides a focused lens for examining moderation friction, privacy controls, visibility management, transparent reporting, repeat-offender controls within contemporary digital interaction. Platform accountability reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with platform accountability may carry meaningful social or practical costs. Yusof and Abd Wahab (2021) provides an important basis for understanding this relationship, while Zaini et al., (2026) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. The psychological importance of platform accountability lies in its capacity to disrupt safety, agency, relational confidence, and self-evaluation. Continued circulation can preserve embarrassment and vigilance because targets may not know who has viewed, copied, or redistributed harmful material, making well-being protection a central consideration in response design. Psychological strain may therefore appear through disrupted sleep, reduced concentration, withdrawal, or declining confidence during online participation, making well-being protection a central consideration in response design. A well-being perspective evaluates platform accountability by examining changes in functioning, autonomy, relationships, purpose, and perceived control after exposure. Young adulthood gives platform accountability particular significance because digital experiences occur alongside major developmental, educational, occupational, and relational transitions. Its psychological consequences vary with the developmental and social circumstances surrounding young adults' education, employment, relationships, and identity formation, which gives well-being protection greater analytical importance.

A closer examination of well-being protection shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to well-being protection, since severity depends on personal resources and surrounding social conditions. Zaini et al., (2026) illustrates the importance of psychological and contextual variation, whereas Yusof and Abd Wahab (2021) helps explain how repeated or unresolved exposure can develop into sustained psychological distress. Social responses are especially consequential. Recovery is strengthened when supportive

relationships, responsible bystanders, institutional procedures, and platform controls restore safety and credibility, which gives well-being protection greater analytical importance. Psychological strain can worsen when witnesses remain passive, reporting pathways are unclear, or digital systems continue amplifying harmful material, which gives well-being protection greater analytical importance. The balance between these protective and harmful responses shapes whether coping restores agency or produces further withdrawal and isolation, which gives well-being protection greater analytical importance. The connection between well-being protection and well-being operates through interacting processes involving appraisal, support, social response, institutional action, and platform design. Prevention becomes more credible when it addresses the conditions sustaining well-being protection rather than relying only on information campaigns. Sustainable protection requires accessible mechanisms that reduce harm, support recovery, preserve evidence, and avoid forcing targets to abandon important digital environments, which gives well-being protection greater analytical importance. Digital safety matters, reinforcing the practical importance of well-being protection.

5.5 Integrated Prevention Recovery Governance Strengthening Digital Safety

Integrated prevention governance provides a focused lens for examining multi-level coordination, monitoring, education, psychological recovery, research, governance learning within contemporary digital interaction. Integrated prevention governance reflects interacting social, psychological, and technological conditions rather than a single isolated factor. Digital participation frequently overlaps across work, study, relationships, and recreation, so avoiding situations connected with integrated prevention governance may carry meaningful social or practical costs. Kee et al., (2024) provide an important basis for understanding this relationship, while Long et al., (2026) add evidence that psychological outcomes depend on the form, intensity, and social context of digital exposure. Harm intensifies when integrated prevention governance changes how a person interprets personal control, social acceptance, safety, or self-worth. Digital permanence can extend the emotional life of harmful content by sustaining uncertainty about audience reach and future redistribution, especially when digital safety remains unresolved. These pressures can disrupt concentration, sleep quality, social confidence, emotional regulation, and willingness to remain digitally engaged, especially when digital safety remains unresolved. Assessment of digital safety should consider whether affected individuals can preserve autonomy, maintain relationships, pursue goals, and function effectively. The consequences of integrated prevention governance are shaped by developmental transitions that can either increase vulnerability or provide stronger protective resources. This context sensitivity explains why integrated prevention governance may produce different outcomes across young adults with different networks, responsibilities, and institutional resources.

A closer examination of digital safety shows that psychological outcomes develop through interactions between personal appraisal, social response, and digital conditions. Cyberbullying findings caution against assuming a fixed response to digital safety, since severity depends on personal resources and surrounding social conditions. Long et al., (2026) illustrates the importance of psychological and contextual variation demonstrates why personal and contextual differences matter; Kee et al., (2024) helps explain how repeated or unresolved exposure can develop into sustained psychological distress, thereby intensifying concerns surrounding digital safety. Social responses are especially consequential. Collective protection becomes possible when peers defend targets, witnesses interrupt diffusion, institutions respond credibly, and platforms restrict repeated

abuse, with particular consequences for digital safety. By contrast, victim blaming, passive audiences, uncertain reporting routes, or continued circulation can intensify digital safety by reinforcing perceived powerlessness. Coping trajectories therefore depend on whether surrounding responses increase control and support or reinforce avoidance and social disconnection, with particular consequences for digital safety. Psychological outcomes emerge through a chain in which integrated prevention governance is interpreted through personal resources, audience reactions, institutional responses, and digital affordances. This evidence indicates that awareness alone cannot adequately address integrated prevention governance; coordinated protective action is also required. Young adults require practical systems that limit exposure, preserve evidence, enable reporting, provide psychological support, and protect continued access to essential digital opportunities, with particular consequences for digital safety. Effective intervention therefore depends on recognising how integrated prevention governance alters digital safety within the everyday realities of young adult digital participation.

6.0 CONCLUSION

Cyberbullying among young adults represents a significant challenge to psychological well-being because digital aggression can combine interpersonal hostility with persistence, visibility, audience participation, and weakened control over personal boundaries. The integrated analysis developed here shows that psychological consequences are not adequately explained by exposure counts alone. Harm becomes more severe when online attacks are interpreted as uncontrollable, publicly consequential, socially unsupported, or likely to recur across connected environments. Depression, anxiety, stress, reduced self-worth, social withdrawal, and diminished life satisfaction are therefore better understood as possible outcomes of interacting psychological, relational, institutional, and technological mechanisms. Evidence from university students and Malaysian young adults reinforces the relevance of this perspective (Samsudin et al., 2023; Arif et al., 2024). At the same time, variation in outcomes demonstrates that vulnerability is not fixed. Supportive relationships, credible institutional action, effective coping, and stronger platform controls can interrupt the pathway from digital aggression to sustained distress. This shifts the scholarly focus from identifying victims toward understanding how environments either magnify harm or enable recovery, which is essential for research that aims to improve well-being rather than merely document cyberbullying prevalence. The severity of digital harm depends on how hostile communication combines with public visibility, repeated circulation, audience behaviour, institutional response, and opportunities for control. Cyberbullying should therefore be understood as a systems-level well-being challenge requiring responses proportionate to both psychological harm and the conditions sustaining digital exposure.

The strategic implication is that prevention and recovery should be designed as a connected system. Digital literacy can strengthen recognition and reporting, but it should be accompanied by bystander capability, confidential institutional procedures, accessible psychological support, and platform mechanisms that reduce repeated exposure. Universities and employers serving young adults need protocols that distinguish ordinary disagreement from targeted digital aggression while responding proportionately to credible harm. Peer networks should be treated as protective infrastructure because audience behaviour can either reinforce humiliation or restore belonging. Platform governance also matters because visibility, recommendation, persistence, and reporting architecture influence the duration and scale of exposure. Social support theory suggests that credible emotional

and practical assistance can buffer stress (Cohen & Wills, 1985), while social cognitive theory indicates that visible norms and consequences shape behaviour (Bandura, 2001). Combining these perspectives supports interventions that change both individual capability and environmental reinforcement. The objective is not to create risk-free digital spaces, which is unrealistic, but to reduce preventable harm, shorten exposure, strengthen agency, and ensure that young adults can continue participating in connected social, educational, and professional environments without sacrificing psychological safety. Digital harm develops through the interaction of harmful content, repeated exposure, audience response, platform architecture, and the target's ability to restore control. Coordinated implementation across peers, institutions, professionals, and platforms offers the strongest basis for protecting young adults without demanding withdrawal from essential digital spaces.

Future scholarship should continue moving beyond narrow platform-specific descriptions toward longitudinal and cross-cultural models that explain when cyberbullying produces enduring changes in psychological well-being. Research should distinguish transient distress from sustained impairment, examine positive well-being alongside symptoms, and test how social support, coping, institutional trust, and platform design interact over time. The rapid evolution of generative technologies, anonymous communication, synthetic media, and algorithmic distribution also requires conceptual models capable of adapting to new forms of impersonation, manipulation, and reputational harm. At the same time, research must avoid technological determinism. Digital environments can support connection, learning, identity exploration, and help-seeking, and the goal of intervention should be to preserve these benefits while reducing conditions that enable abuse. A well-being-centred approach offers a stronger basis for this balance because it evaluates whether young adults retain autonomy, belonging, purpose, confidence, and meaningful participation after harmful encounters. Cyberbullying should therefore be treated as a multi-level challenge of human behaviour, social response, institutional responsibility, and digital design. Protecting psychological well-being in digitally connected societies ultimately depends on making safety, support, accountability, and recovery integral features of participation rather than emergency responses after harm has already escalated. Future progress depends on building digital environments where participation remains socially meaningful, institutionally protected, psychologically sustainable, and responsive to evolving forms of online aggression.

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2. Conflict of Interest

The authors declare that they have no financial, professional, personal, or institutional interests that could have influenced the development, interpretation, or presentation of this article. No competing interests or relationships exist that could reasonably be perceived as affecting the objectivity, academic integrity, or scholarly independence of the work.

3. Author Contribution Statement

Hamidah Razali: Conceptualization, development of the conceptual framework, literature synthesis, interpretation of scholarly evidence, preparation of the original manuscript, and critical revision.

Ahzilah Wahid: Literature review, development and validation of the conceptual arguments, interpretation of psychological and digital perspectives, critical review, and manuscript editing.

Both authors contributed substantially to the intellectual development of the article, reviewed the manuscript critically for scholarly content, and approved the final version for publication.

4. Ethics Statement

This article is a conceptual review based exclusively on published scholarly literature and does not involve human participants, surveys, interviews, experiments, interventions, personal data, or primary data collection. Therefore, institutional ethical approval and informed consent were not required. The review was conducted in accordance with established principles of academic integrity and responsible scholarship, including appropriate acknowledgement of previous research and careful interpretation of published evidence. The authors assume responsibility for the accuracy, integrity, and scholarly presentation of the conceptual analysis developed in this article.

REFERENCES

- Arif, A., Qadir, M. A., Martins, R. S., & Khuwaja, H. M. A. (2024). The impact of cyberbullying on mental health outcomes amongst university students: A systematic review. *PLOS Mental Health*, 1(6), e0000166. <https://doi.org/10.1371/journal.pmen.0000166>
- Bandura, A. (2001). Social cognitive theory of mass communication. *Media Psychology*, 3(3), 265–299. https://doi.org/10.1207/S1532785XMEP0303_03
- Bauman, S., Toomey, R. B., & Walker, J. L. (2013). Associations among bullying, cyberbullying, and suicide in high school students. *Journal of Adolescence*, 36(2), 341–350. <https://doi.org/10.1016/j.adolescence.2012.12.001>
- Bonanno, R. A., & Hymel, S. (2013). Cyber bullying and internalizing difficulties: Above and beyond the impact of traditional forms of bullying. *Journal of Youth and Adolescence*, 42, 685–697. <https://doi.org/10.1007/s10964-013-9937-1>
- Campbell, M., Spears, B., Slee, P., Butler, D., & Kift, S. (2012). Victims' perceptions of traditional and cyberbullying, and the psychosocial correlates of their victimisation. *Emotional and Behavioural Difficulties*, 17(3–4), 389–401. <https://doi.org/10.1080/13632752.2012.704316>
- Cassidy, W., Faucher, C., & Jackson, M. (2013). Cyberbullying among youth: A comprehensive review of current international research and its implications and application to policy and practice. *School Psychology International*, 34(6), 575–612. <https://doi.org/10.1177/0143034313479697>
- Cohen, S., & Wills, T. A. (1985). Stress, social support, and the buffering hypothesis. *Psychological Bulletin*, 98(2), 310–357. <https://doi.org/10.1037/0033-2909.98.2.310>
- Giumetti, G. W., & Kowalski, R. M. (2022). Cyberbullying via social media and well-being. *Current Opinion in Psychology*, 45, 101314. <https://doi.org/10.1016/j.copsyc.2022.101314>
- Hinduja, S., & Patchin, J. W. (2010). Bullying, cyberbullying, and suicide. *Archives of Suicide Research*, 14(3), 206–221. <https://doi.org/10.1080/13811118.2010.494133>

- Kamarudin, M. A. I., Jaaffar, A. R., Yusof, M. S., Naw, M. N. M., Sidek, S., Nuh, R., & Yusof, M. S. (2025). Entrepreneurship as a career path among university students: An action research on hands-on learning and follow-up approach in business through the introduction to entrepreneurship course. *Journal of Cultural Analysis and Social Change*, 10(2), 3284–3300. <https://doi.org/10.64753/jcasc.v10i2.2096>
- Kee, D. M. H., Anwar, A., & Vranjes, I. (2024). Cyberbullying victimization and suicide ideation: The mediating role of psychological distress among Malaysian youth. *Computers in Human Behavior*, 150, 108000. <https://doi.org/10.1016/j.chb.2023.108000>
- Kowalski, R. M., Giumetti, G. W., Schroeder, A. N., & Lattanner, M. R. (2014). Bullying in the digital age: A critical review and meta-analysis of cyberbullying research among youth. *Psychological Bulletin*, 140(4), 1073–1137. <https://doi.org/10.1037/a0035618>
- Kowalski, R. M., & Limber, S. P. (2013). Psychological, physical, and academic correlates of cyberbullying and traditional bullying. *Journal of Adolescent Health*, 53(1), S13–S20. <https://doi.org/10.1016/j.jadohealth.2012.09.018>
- Kowalski, R. M., Morgan, C. A., Drake-Lavelle, K., & Allison, B. (2016). Cyberbullying among college students with disabilities. *Computers in Human Behavior*, 57, 416–427. <https://doi.org/10.1016/j.chb.2015.12.044>
- Lazarus, R. S., & Folkman, S. (1984). *Stress, appraisal, and coping*. Springer.
- Long, Y., Xia, Y., Pan, W., & Cao, F. (2026). Unveiling hidden struggles: The impact of cyberbullying on psychological well-being and academic performance among Chinese university students, the moderating role of social support. *Humanities and Social Sciences Communications*, 13, 751. <https://doi.org/10.1057/s41599-026-07145-8>
- Martínez-Monteaudo, M. C., Delgado, B., García-Fernández, J. M., & Rubio, E. (2022). College students and cyberbullying: How social media use affects social anxiety and social comparison. *Heliyon*, 8(12), e12556. <https://doi.org/10.1016/j.heliyon.2022.e12556>
- Mitchell, K. J., Ybarra, M., & Finkelhor, D. (2007). The relative importance of online victimization in understanding depression, delinquency, and substance use. *Child Maltreatment*, 12(4), 314–324. <https://doi.org/10.1177/1077559507305996>
- Patchin, J. W., & Hinduja, S. (2010). Cyberbullying and self-esteem. *Journal of School Health*, 80(12), 614–621. <https://doi.org/10.1111/j.1746-1561.2010.00548.x>
- Peter, I. K., & Petermann, F. (2018). Cyberbullying: A concept analysis of defining attributes and additional influencing factors. *Computers in Human Behavior*, 86, 350–366. <https://doi.org/10.1016/j.chb.2018.05.013>
- Ryff, C. D. (1989). Happiness is everything, or is it? Explorations on the meaning of psychological well-being. *Journal of Personality and Social Psychology*, 57(6), 1069–1081. <https://doi.org/10.1037/0022-3514.57.6.1069>

- Samsudin, E. Z., Yaacob, S. S., Wee, C. X., Mat Ruzlin, A. N., Azzani, M., Jamil, A. T., Muzaini, K., Ibrahim, K., Suddin, L. S., Selamat, M. I., Ahmad Saman, M. S., Abdullah, N. N., Ismail, N., Yasin, S. M., Azhar, Z. I., Ismail, Z., Isa, M. R., & Mohamad, M. (2023). Prevalence of cyberbullying victimisation and its association with family dysfunction, health behaviour and psychological distress among young adults in urban Selangor, Malaysia: A cross-sectional study. *BMJ Open*, 13(11), e072801. <https://doi.org/10.1136/bmjopen-2023-072801>
- Schenk, A. M., & Fremouw, W. J. (2012). Prevalence, psychological impact, and coping of cyberbully victims among college students. *Journal of School Violence*, 11(1), 21–37. <https://doi.org/10.1080/15388220.2011.630310>
- Smith, P. K., Mahdavi, J., Carvalho, M., Fisher, S., Russell, S., & Tippett, N. (2008). Cyberbullying: Its nature and impact in secondary school pupils. *Journal of Child Psychology and Psychiatry*, 49(4), 376–385. <https://doi.org/10.1111/j.1469-7610.2007.01846.x>
- Tokunaga, R. S. (2010). Following you home from school: A critical review and synthesis of research on cyberbullying victimization. *Computers in Human Behavior*, 26(3), 277–287. <https://doi.org/10.1016/j.chb.2009.11.014>
- Valkenburg, P. M., Meier, A., & Beyens, I. (2022). Social media use and its impact on adolescent mental health: An umbrella review of the evidence. *Current Opinion in Psychology*, 44, 58–68. <https://doi.org/10.1016/j.copsyc.2021.08.017>
- Van Cleemput, K., Vandebosch, H., & Pabian, S. (2014). Personal characteristics and contextual factors that determine helping, joining in, and doing nothing when witnessing cyberbullying. *Aggressive Behavior*, 40(5), 383–396. <https://doi.org/10.1002/ab.21534>
- Wang, J., Nansel, T. R., & Iannotti, R. J. (2011). Cyber and traditional bullying: Differential association with depression. *Journal of Adolescent Health*, 48(4), 415–417. <https://doi.org/10.1016/j.jadohealth.2010.07.012>
- Yusof, M. S. (2025). Technology adoption in small and medium enterprises and its impact on business growth, innovation, and digital sustainability. *International Journal of Advanced Research in Economics and Finance*, 7(3), 84–100. <https://doi.org/10.55057/ijaref.2025.7.3.7>
- Yusof, M. S. (2026). Integrating digital and entrepreneurial leadership: A framework for SME performance in emerging economies. *Jurnal Evolusi*, 7(1), 62–77. <https://doi.org/10.61688/jev.v7i1.568>
- Yusof, M. S., & Abd Wahab, N. S. (2021). Balancing technology and ethics in the transformation of modern hospital healthcare. *The Asian Journal of Professional & Business Studies*, 2(1), 16–34. <https://doi.org/10.61688/ajpbs.v2i1.146>
- Yusof, M. S., Abidin, Z. Z., Ibrahim, N. Z. M., Zahari, F. M., & Syed A Rahman, S. N. M. (2025). Empowering women's entrepreneurship in developing economies through policy and financial inclusion. *International Journal of Environmental Sciences*, 11(13s), 1431–1440.
- Yusof, M. S., Abdul Razak, N., Jamaludin, A., Abdulloh, N. N., Ahmad, A., & Mat Zin, Z. (2025). Integrating smart technologies in warehouse management to overcome system maintenance and security issues. *International Journal of Environmental Sciences*, 11(20s), 533–543.

- Yusof, M. S., Abdul Razak, N., Mat Zin, Z., & Abdulloh, N. N. (2025). Challenges and opportunities in TikTok Shop for advancing social commerce and consumer engagement strategies. *International Journal of Business and Technology Management*, 7(2), 60–71. <https://doi.org/10.55057/ijbtm.2025.7.2.7>
- Yusof, M. S., Abdul Razak, N., Misnan, N., & Abdul Malik, H. K. (2026). Corporate governance and ethical accountability in sustainable organizational development. *Jurnal Evolusi*, 7(1), 14–31. <https://doi.org/10.61688/jev.v7i1.564>
- Yusof, M. S. B., Othman, N. B., Zaini, A. F. B. A., Manan, D. I. B. A., & Jali, M. N. B. (2025). Digital mobility and learning behavior within the humanities education perspective among university students using Grab e-hailing services. *Veredas do Direito*, 22(6), e224040.
- Yusof, M. S., Fauzi, N., Jamaludin, A., Seman, S. A., Salleh, M. N., & Tasrip, N. E. (2025). Technological advancements in vending machines transforming consumer behavior, market trends and the future of automated retail. *Journal of Posthumanism*, 5(6), 139–149. <https://doi.org/10.63332/joph.v5i6.1968>
- Yusof, M. S., Razak, N. A., Jamaludin, A., Jali, M. N., & Seman, S. A. (2025). Empowering women entrepreneurs in Malaysia through digital participation and innovation. *TPM–Testing, Psychometrics, Methodology in Applied Psychology*, 32(S8), 325–335.
- Zaini, A. F. B. A., Yusof, M. S. B., Jamaludin, A., Yunus, M. H. S. M., & Hashim, F. (2026). Consumer review perception and its impact on Generation Z online spending behaviour in modern digital commerce. *Veredas do Direito*, 23(1), e234304.
- Zhu, X., Griffiths, H., & Eisner, M. (2022). Developmental relations between bullying victimization and suicidal ideation in middle adolescence and emerging adulthood: Do internalizing problems and substance use mediate their links? *Journal of Youth and Adolescence*, 51, 1745–1759. <https://doi.org/10.1007/s10964-022-01630-4>