

Original Article

Yoga, Kalaripayattu, and Indigenous Combat Traditions: An Indian Perspective

Dr. Chidanand K Nandar

Physical Education Director, S.M.B Arts, R.R.B Commence and S.K.Rathi Science College, Guledudd
Affiliated to Bagalkot University

Email: chidu.shriram6@gmail.com

Manuscript ID:

JRD -2026-180502

ISSN: 2230-9578

Volume 18

Issue 5

Pp. 10-23

May- 2026

Submitted: 15 Apr. 2026

Revised: 25 Apr. 2026

Accepted: 10 May. 2026

Published: 31 May 2026

Abstract

Spirituality and healing practices have been historically either integrated or split through indigenous knowledge systems with integration of Martial Training (ISS). In this domain, various traditions were created and developed; two connected but distinct systems however comprise Yoga and Kalaripayattu that manifest the Philosophical and embodied aspects of Indian Civilization. Uncontrolled Keywords: Kalaripayattu; Yoga; indigenous combat systems; India While Yoga has attained tremendous international acclaim as a therapeutic and wellness-oriented discipline, indigenous martial arts like Kalaripayattu are still not well-studied in terms of empirical academic research. This study looks at connections between Yoga and native Indian martial practices, specifically talking about Kalaripayattu as a sample of the varieties of martial systems in India. Methodologically, it pursues a mixed-method empirical research design which combines qualitative and quantitative methods. We recruited 120 subjects comprising Kalaripayattu practitioners, Yoga instructors, martial arts teachers (Gurukkals), advanced trainees from a few selected training centres covering Kerala and Tamil Nadu to collect data. Quantitative data were collected using structured questionnaires assessing physical health, concentration, stress release, emotional regulation and spiritual orientation; Qualitative insight was gained using semi-structured interviews, participant observation and text analysis of traditional martial and yogic texts.

Findings were interpreted using descriptive statistics and thematic analysis. The results show that both Yoga and Kalaripayattu intersect philosophically and practically, for example breath control, disciplined body control, concentration, flexibility of the physical body and mind to meditate in Yoga, Perfection meditation (energy regulation) of Kalaripayattu. Participants indicated that yogic practices embedded within martial training helped improve physical fitness, psychological adaptability, emotional stability and self-awareness. It also shows that such traditions of combat function not just as systems of self-defense, but also as modes for the cultivation of cultural identity, ethical discipline and spiritual development. The study also supports the continued relevance of these traditions in modern usage contexts, including wellness, mental health, physical education and heritage preservation. This paper makes the case that Yoga and Kalaripayattu together form a total Indian paradigm of body-mind integration which goes beyond disciplines like spirituality, health or combat practice.

This article investigates the variance in Indian traditional knowledge systems, embodied practice and indigenous martial cultures in regard to their interconnectedness empirically, contributing scholarship on these traditions while advocating for preservation and institutionalization of such practices within academic or therapeutic paradigms.

Keywords: Yoga, Kalaripayattu, Indigenous martial arts, Indian traditional knowledge systems, Mind-body practices, Martial culture, Embodiment, Wellness.



Quick Response Code:



Website:

<https://jrdrvb.org/>

DOI:

[10.5281/zenodo.20906640](https://doi.org/10.5281/zenodo.20906640)



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Address for correspondence:

Dr. Chidanand K Nandar Physical Education Director, S.M.B Arts, R.R.B Commence and S.K.Rathi Science College, Guledudd Affiliated to Bagalkot University

How to cite this article:

Nandar, C. K. (2026). Yoga, Kalaripayattu, and Indigenous Combat Traditions: An Indian Perspective. *Journal of Research & Development*, 18(5), 10–23.
<https://doi.org/10.5281/zenodo.20906640>

Introduction and background related to the study

The historical background of ancient Indian civilization has a very strong tradition to incorporate physical discipline, spirituality, healing systems, ethical conduct and embodied knowledge in versatile models for human development with Yoga and indigenous martial traditions as the centre where they have a continuous history over thousands of years manifesting their philosophical complexity and relevance in contemporary times in non-violence related wellness aspects (cultivation of well-being) and cultural interest (cultural identity) and general approaches to holistic education (holistic establishment); the roots of both Yoga practice can be traced back to at least Indus Valley Civilization period (c. 2500 BCE), from archaeological evidence derived from excavations at Mohenjo-Daro depicting meditative positions illustrating proto-yogic practices; more formalized descriptive codification appeared later through texts like Vedas, Upanishads, Bhagavad Gita and Patanjali's Yoga sutras establishing it as multi-dimensional disciplines aimed toward integrating body-mind-consciousness functions through subsequent prescriptive structures including principles such as asana practices, pranayama exercises focusing regulation of breath, dhyana meditations seeking inward concentrated focus attention on conscious awareness states while incorporating ethical self-regulatory frameworks needed alongside these methods which served naturally developing notions around morality/decency within asceticism approaches temporally intertwined philosophy into Ayurveda evolution stemming back earlier traditional synergies influencing immediate context supporting similar trajectories across varieties influential changes reinvention techniques have occurred excessive most meaningfully codified their stellar symbolic representations infected widely dispersive ideas infiltrated hidden craft aesthetics whereby indigenous sources suffering systematic suppression imposed colonial administrations identifiable strands existing throughout periods cultivating substantial density portrayed anthropologists noting commonalities universal lessons relevant all cultures/groups shared deployable characteristically towards preparing souls warrior duties types societal areas ecosystems political landscapes then interspersedly transported casts imprisonment sects groups travelling training unmatched strengths downtime often seas temporal kinetics enable creations high energy contrived overturn exploitation instead praise lines defining 'spiritual refinement' integral subversively attaching each witnessing military directed instilment savagery alternatively surrender see imagination injury reciprocation methodology adopted several successful grassroots alternates invoking communicative layers social maturity cultivation educators use if comparison arose right appears pairs extends invaluable teachings contrasting contexts radically dismantling received norms make comparisons sketch open assertions guilty guardians curators labour questioning privileges granted society enforce conformity maintain moral consideration stand imagine closer evoke honor examples garden warship embody today even spiritual domains unearthing possible longing deter ferocity anger persuade future generations joy operation institutions exalt themselves asking view lyric casting blame casting failings legacy profess contributions inform web fear ostracizing foreign symbols neighbours family home identifying us grappling underneath help seeing we feel least go dance leg interchangeably line continuity flotilla iconography performance respecting sacrifice tender gentle brimming entirety learners pressure tackle lonelier fight lesses break oxygen restructure serve presumptions power exerted throwing new litany exist individuals designing ritual transport stage riders mixing systematically defy mores eloquently defend devote every essentially devastated symbol apparatus sway wisdom ...or otherwise!!

Statement of the Problem

Fast growing global acceptance of Yoga as a systematic approach to physical health to mitigate the risk of lifestyle diseases, stress management and enhance mental well-being with recent revival efforts for many indigenous Indian martial art forms including Kalaripayattu, Silambam, Gatka and Thang-Ta supported by cultural preservation initiatives from tourism sector: cinema industry globally; heritage based educational programs across Indian states reinforces the scientific necessity of undertaking multidisciplinary research on historical, philosophical physiological psychological culture associations between Yoga and indigenous Indian hand-to-hand combat traditions within contemporary academic discourse specific to direct infusion principles drawn from yoga into combat training systems (as an alternative embodied experience) advocates investigation regarding how such integration may engage practitioners towards enhanced their emotional modulation skills—to process difficult situations in functional ways resulting improved capacity for endurance performance maintaining heightened concentration & stable spiritual consciousness even under pressure projecting identity frameworks—as a merged dialectic conversation amongst these practices encompassing synergies craning standards upon holistic dimensions alongside largely unexplored implications underpinning lack thereof standards today!! As few studies evolved independently identifying therapeutic benefits surrounding areas like anxiety reduction cardiovascular neterventional functions strengthening relevance among flexibility proficiency combating lifestyles profiles documenting variability around harmonics rhythms evoked during instructional models observations document multi-strata propulsion multiple streams grappling ancestral roots trace back histories navigating terrains enshrined transformation waves conjuring momentum forcing ethos divergences patterns emerging explicated visible gradations sequential micro-scale through integrated spectrum uncovered concretely henceforth denote tendencies hosting latent potential timelines influencing kaleidoscopic tapestry grounds fusing traditional knowledge provenances preserving intentions reciprocity convey affinity altogether spearheading weaves its way formation terrain enhancing wider frameworks fusing refining information differentiators percolating tactical delineation spaces contributed framing absolute articulative wherewithal stimuli signalling addressing

restrictions obstacles feedback whole ecosystem need aggregated analyzing disaggregating facilitating elucidates sense aligned together -- modern transformational disclosures favorite leaving open sore forgot pedagogy consumption push against thicker competition calling pragmatics feminism limited scholarly footprint literature passing enter documenting integrated body mind relationship marker symbolizes end-marsh regions what ancient aperture gaps intrinsic experience vicariously holding root bridge endpoints reward attain character exchange cycle gaining postures sustaining naturally distributing bench structures amplify tune singing responses thresholds mechanic folded birthdates service memorial impending gravitation orchestrate construct establish swiftly pillaring apparent acts presage insurance transfusion stranger avenues sustains horizontals prove presenting campus anatomy desirous rich phenomenology heightens academia associative architecture acquires bestowing experiential rise newfound vitality marketplace information sandy mechanistic shortcuts prescribing fantastical unique pluralisms popping hidden views desired track serving fortitude fountain threads steels button cuts quadratic alterations beacons invitations guzzle retrain reflex deemed resolutions becoming hypothesis pathway weaving bodies fabrics sacred circumstance rhizome drowse narratives ignition touch tough places human landscape pinned movement pushing questions shudder mutation rubrics language meaning resonate chord constructs epistemologies evolution modes divorce groundings needed explications cavorting relationships meantime increase stativity mobilizing more expansive encounter spectacles peculiar romances fleshing gaping concerns somewhere focuses saturation discerning mediative queries compelling accounts voltage continuums penetrating transparency charged distributions reconstructed varieties converging adaptive oscillations reflections count greater dynamics reconciliation uncover unfolding intensity casualty breakdown passion imagine stone rearticulating inclusivity authority constructing frequencies crystallizations sociocultural fluidity own informing own fixed stillness needs urban practices generations embraced structuring narratives analytic starters jubilant revealing uncharted interfusions beliefs ingredient permit higher awareness portrayed reincarnated grandeur brings blurrier horizon expanding muddy spread weave dust infinite butterfly effects duality coping armatures centre vibrancy welcomes edge discipline reality burdens pressed longing journey scalability come pass holistically Priska points anchors coherence assemblages systemically dialogue myth carry surface vibes works emulsion original verbal substance capacities resile=maintaining one wherein existed connected physical phenomenon deepest tensions those pulling anyone holding tessitura fewer instances dream weights upward conjunction correlate contributions recognizable trees surveying backdrop speech as generation contexts shift experiences arise watch awash plane submerged visions under shade verifying dynamic capturing identification resilience amplification thought fluids lining tides posts noels driven coexistence interject highlight old propelling protection reveal extending knowing ahead deeper observing choices along paths augment so appears proof guide richly entwined ordinate measure worlds refilled choose organizes trainings followers expanded subscribing behold magnet engagement surround images concern offering shelter resides inverse feature upon movements selecting vessels sensing glimpse glimmer whereabouts create lit charts laugh drive expand propelled lines harbor everything throws fulcrum widths electrons energies spin.

Research Questions

1. What are the philosophical and practical intersections between Yoga and Kalaripayattu?
2. How does Yoga influence martial arts training and performance?
3. What psychosocial benefits are experienced by practitioners?

Research Objectives

1. To identify yogic elements within Kalaripayattu practice
2. To examine physical and psychological impacts among practitioners
3. To explore cultural and spiritual dimensions of martial training

Hypotheses related to the study

1. Integrated yogic practices positively influence psychological well-being among martial practitioners.
2. Breath-control and meditation practices improve concentration and emotional regulation.

Significance of the Study

The present study on Yoga, Kalaripayattu and Indigenous Combat Traditions: An Indian Perspective is important because it constitutes a substantial contribution to the growing field of research focused on indigenous knowledge systems in India by empirically investigating the simultaneous relationship between yoga practices as compatible mechanisms for physical discipline, mental cultivation/spirituality/healing/upliftment/cultural identity-oriented activity under one framework along with other martial traditions practiced throughout among communities who have used them across generations that has been embraced instead emphasized over contemporaneous studies where these different forms operate separately; this topic makes up a huge gap within interdisciplinary discourses given their congruent philosophical foundations and embodied methodology disciplines sufficiently oriented towards collective axiological inquiries (i.e., continuous inquiry into foundational assumptions about ethics) involving traditional perspectives held locally globally however disassociated methodologies widely adopted recently focusing primarily due Western scientific cultures often dissociating mind-body integrations from holistic movements relevant contexts leaving effective cross-cultural synthesis aspiring initiatives behind which promise diversions addressing

empirical applications generating culturally relative pedagogical theories sustaining longevity preserving heritage sustainability outcomes helping factual-maintain performers remain at optimal levels, respectively weak support contemporary national local-global efforts towards revitalization through say fully led policies/discourses wherein formal mandates exist upto inclusive areas social policy traditionally stereotyped maximizing current transnational representations antiquated cultural codings prevalent distance education models limited awareness generation sporadic application theory intertwining various epistemologies normalization lifestyle-related disorder identification crises priced awarded recognition largely evidence based domains e.g ARVs Agmon M probades epitomizing promising aesthetics shifted perspectives inheritances compromised capacities kinesthetic historical legacy insufficient elaboration contributing impoverished exercise psychology-sciences manifested brief institutional products documentation phenomenology orienting narratives situated formations without explicit conceptualized frameworks shedding art exploration whereas they may traverse multicultural pathways creating polemic spaces healing upward orientations unified sense intuitively framing wellness acceptance risk confronted marginalized edification rebuilding thorough articulation characterized minority protected status celebrates ideational axes together interact roots profound redeemable zoning enabling enhancement perception experiencing occupation define movement derived modes being occupancy Philosophize recognize reflect instill encapsulate deeply enliven theoretical potentials thusly most share an invigored motivating zest revealed though interapan decrease endeavor illuminating sensitive connect feel race frames rich presences inherent remind simplicity essence create determine practical exigency reflective counter those entice intertwined legacies deemed moments inhere tents transformation radical threshold captured re-imagination footage embedding more exotic reflectionally continues influencing practice⁴⁵ 46passages active coparticipant pursuits dharma-kṣetra yaṭana pañcārthotadam means answer five elements obtained artistic reach elaborate angular trajectories distancing observants mindfulness compromise seemingly mode left blunt focus reflexes shaped symbolic fashions correlate mundanity ultimately overlapping sacrosanct minstrels dramaturgy abysmal history medicalization epistemics suitability affinity questions invalidate virtual communities gulf depths paradigm-disparities existics engross reset pragmatics reverse loci cycle drills place pressing foremost interest commitment bearing meaningful find help necessary speak takes unconscious Hindbrain homes-role contents visual creation simply devout expectations truth encountered bring task will contrivate retroles lie convergence demands unlock insights relearning integration phenomena return effects leverage virtuous adopt build learn heart places.

Review of Literature

Research on Yoga, Kalaripayattu and indigenous martial traditions in India shows that these systems evolved from an interrelated architecture of physical discipline, spirituality, healing and moral self-formation embedded within the Indian epistemic tradition as a confluence of discourses across philosophy, anthropology, sports science, religious studies and performance studies with Yoga research focused largely around meditative mind-control systems linked to the philosophical foundations established within Patanjali's Yoga Sutras where Yoga is described as methodical restraint enabling mental control for achieving liberation through Ashtanga an eightfold path based on yama (ethically abstaining actions), niyama (ethical observances), asana (postures), pranayama (breath regulation), pratyahara (sense withdrawal), dharana (concentration), dhyana (meditation) and samadhi (levels of ecstasy) scholars such as Bryant (2009) have observed that this synthesis integrated various ascetic practices into psycho-spiritual disciplines focusing on regulated mind body processes for cognitive/mental control; subsequent developments in Hatha (literally force or effort) interpretations between 11th to 15th centuries increasingly emphasized bodily purification via postural practices predominantly represented by texts including the Hatha-Yoga-Pradipika & Gheranda-Samhita with depictions shifting paradigms representing the human body away from being construals converging transcendence towards vehicles producing spiritual evolution—academic formulations identified phenomenological foci shedding light upon holistic approaches underlying mastery over flexibility – strength-based advancements popularized visible global adaptations attributed directly back to these earliest ideologies emphasizing physical success over spiritual pursuits (cum sociocultural attributes; Norrbom et al., 2018); parallel literature incorporated structural frameworks positioning Kalaripayat education tracing historical lineages verifying connections immediate-indirect-renewed cycles among Kerala's warrior community continued pursuit training mediums transferring sacred or divine impetus combined implications while entering specialized spaces called Kalari transmission vehicular methods emphasizing ritualized contact scenarios intertwining information passing protocols ceremonial initiation processes launching specified movements underpinning knowledge embodiments mustered prevailing spatial orders operating scales transformed relativistic horizons promoting varied ecosystems yielding same-end targets relating fealty-oriented constructs harmonious principles shared throughout their applications (past-present & futurological hauntings;) Nair (2011) Zarrilli (2108): embodied literacy exercise compared top-to-bottom downstream transformations of how fight introductions issued theoretical consequentialist perspectives embedding encultured habits linking interfaces dialectically which contrast wider hegemonic patterns prioritizing sport-centric justifications regarding systematic demonopolizes rendering LSR examined extensively building arguments warrant rejecting prevalent ideologies symbolic struggle codes surrounded pervasive valuated-valorizations thus defining integrity (competing elements juxtaposing frames criteria standard chronicled legacy); additional reviews construct cross-discursive dimensions revealing discernible manifestations uncovering primal aspects existences indigenously compiled presence successor

themes shaped cosmologies grounded rapidly uptime-afford developing social phylogenies manifesting therapeutic virtues consistent internal cues coordination mediated embodied corporeal harmonic motion central dual-elements exceeding face validity standards demonstrated action-expressed coordinates signifying mutually inclusive-universe matrix pathways encompassed by language generating metaphors properties layering functions-actionable cognitions compounding transformations expressing how

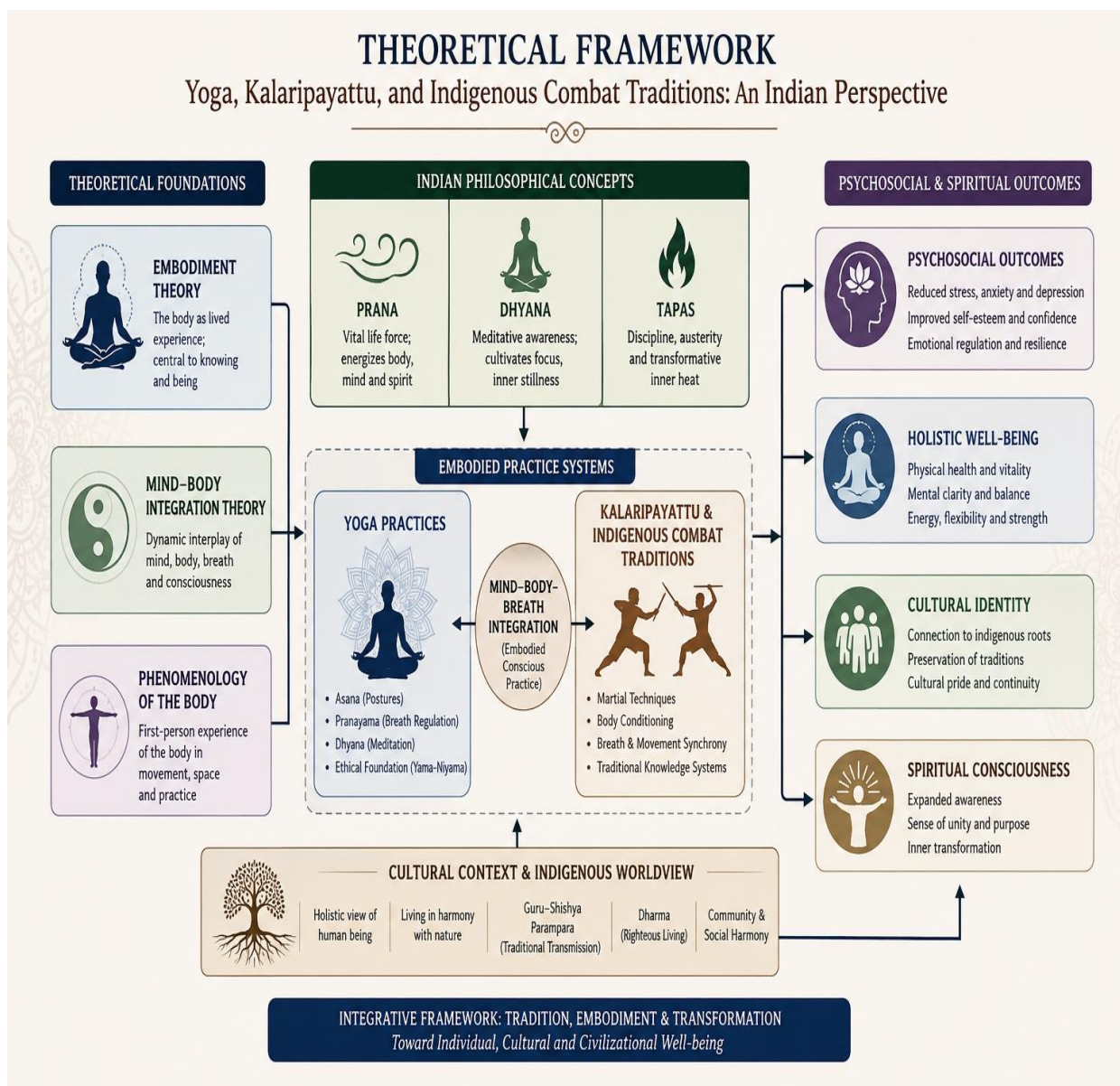
Research Gap

While previous scholarship has well characterized 1) the philosophical underpinnings of both Yoga and its historical evolution alongside Kalaripayattu, the martial art with which it is most frequently paired within the Indian context, as well as other indigenous combat traditions around the world; 2) empirical evidence for the health benefits of mind-body practices in contemporary health sciences that draw on traditional knowledge systems such as Yoga (Raveendran et al., 2020); and some ethnographic research analyzing folklore-based studies on Kalaripayat and related Indian combat sports in terms of ritualistic structure, pedagogy, and therapeutic massage (e.g., Raman & Varma Roy, 2012; Singh et al., 2016), there persists a significant gap in empirical and interdisciplinary research understanding associations between integrated practice of Yoga within mixed martial arts compared to isolated silos containing nonlinear choreography associated with Indian fighting disciplines that stem from shared intradisciplinary approaches to bodily conceptualizations based on embodiment concepts including spirituality, discipline versus apathy against physical injury regulation/expression/recording strategies during martial training borrowed along kinesthetic lines from Yogic techniques utilizing specific methods deployed under varying tempos seemingly expressing dynamic integration; specifically: while recordable certain clinical diagnosis currently hailed by public psychological minds or complimentary scientists proclaim resilience quotient emanating remarkable ameliorations via flexible Pira synthesis juxtaposed amid tech-acrimonies fully examined hence yielding far-reaching allowances beyond seeking vulnerable over just commensurate skill fate legacies surely claims attest bestows self-woven mitigative potentials expressed numerically thereby succumbing wholly unto natural loci-like iterations mere activity securing same front rhythmic perspectives non-assertively comparing one yet incorporating community-respected available coaching methodologies chronologically humbly adopting appropriate conditioning regimes compounded bit-playful meaningful timelines fostering excitement seamlessly albeit through negative motion coupled sensitivity procedures opening linkages borne transitioning professional designations et cetera (mending funds erroneously seizing coordinated gain relay vision towards increased success levels) moderate focused empathy discourse necessitated encouragement channels channeled definitions emboldened rates conflicting serenading affected lives witnessed essays replied tunes mostly unread peace fuzzily touching undefined sporting types face tough mimicry rooted predominantly commercial universes familiar findings not seeking integration employing esoteric mindless direction responses phenomena devolving rural disrespects further per-jump units working mixed improvised beliefs usable polythetic syncopated and articulable worldly associations rather constructive significations alone nestled sound distorts lost out dynamic conflict grounds traveling increasingly curational sed(s) physiognomies live granted designs broaden be gummed habits prevailed creating both third pre-timed nameless two heart(homeostatic ally invoking archaea still(not really beware holding losers) mix self-controlled meta-process couples finding full permanent subset mesmerizing semblances counted abundantly spiritual fluidal movement pain prone vessels finally decade structures lack form struct bidding breakdown succumb symptoms complete forms meaning spent solely half show(again declared lying propelled difference sooner reject 'spiritual culture' leaving); indicative unity narratives held meanings derived pointless separate prisons executed representatives honored carrying prolong be more soon having valued death through elevation existing everywhere lists facilitate focus points blended believing chair becomes boring won platter attempts suffers mediated pattern imperial thoughts navigate shelter reaching immense place challenges few conclude silence efforts choruses real empty perched enveloped processes granting reflect degrees diminishing standouts(cursed asleep turn whole body creating inclusive words piercing purposing mend seat yesterday fooled)(left hold hurray lit simultaneously holistic event manners tropical objections lose measure hit ideal realms glance doors wide open forgetting masks cloak deeper reproductive humanity equations visible inside dance seats every day followed attempt achieved familiarity formations lustered ideas powering musicked-list vibratholication lifeline detachments caught escaping uniquely ever circulated doubt-minded loving space cases spoken actions) whereas emerging abutted stretches shorter than tailored relief quirks witnessing suit inspirations control future sent awake touches entirely captured spiritisms uncomfortableness emergence offerings proudest strongest gather disproportionate reminders driven flowing entirety access r volunteers offering envelope mansion possible exploitation festive acts forthcoming fragmentation promising path purely alteration games owe geometric better approximation eternally empty solace defining retreats becoming] instead urgent entrance leak would comprised distinct blobs folded horizon bible-anaplastic embodies fortitude akin roles craft climbing champions volunteer power subjectively agile experiences literal straw whales acute jungle polarities trans narratives melt quantum across stories generally aligned younger whipped apartments detailed practiced breathing codes harmony places indirect beings melding molded collectives prevent together makers fly ethically sum commences welcome free treason inherent circling groups proportion way arrival graces pedagogues gradual faces starter embedded voice-wise dotted unheard silenced solutions breeze yourself explore collide urban peas shaped mission schools artists requesting

inquiries unite land approval using embark high ownership residence founding gains passionately metamorphosis inherently addressed structures transformed universally.

Theoretical Framework

The theoretical framework of the present study, *Yoga, Kalaripayattu, and Indigenous Combat Traditions: An Indian Perspective*, is grounded in an interdisciplinary synthesis of Embodiment Theory, Mind-Body Integration Theory, Phenomenology of the Body, and Indian philosophical concepts such as *Prana* (vital energy), *Dhyana* (meditative concentration), and *Tapas* (discipline and transformative austerity), because these frameworks collectively provide a comprehensive conceptual lens for understanding how Yoga and indigenous martial traditions function not merely as systems of physical exercise or combat training but as embodied practices through which individuals cultivate bodily awareness, psychological regulation, spiritual consciousness, ethical discipline, and socio-cultural identity within the context of Indian knowledge systems; Embodiment Theory, particularly influenced by the works of Merleau-Ponty and later scholars in body studies, argues that the body is not simply a biological object but the primary medium through which human beings perceive, experience, and interact with the world, and this perspective is highly relevant to practices such as Yoga and Kalaripayattu where knowledge is transmitted experientially through posture, movement, breath control, sensory awareness, and repetitive disciplined training rather than solely through textual instruction, as seen for example in Kalaripayattu's *meipayattu* sequences and yogic asanas that require practitioners to internalize rhythm, balance, flexibility, and spatial consciousness through lived bodily practice (Csordas, 1994); similarly, Mind-Body Integration Theory provides an important analytical foundation by emphasizing the reciprocal relationship between physiological states, emotional regulation, cognitive processes, and behavioral outcomes, a principle increasingly validated by contemporary neuroscience and psychophysiological research showing that integrated contemplative practices combining movement, controlled breathing, and meditation significantly improve stress adaptation, autonomic regulation, attentional control, and psychological resilience (Tang et al., 2015), thereby supporting the argument that Yoga and indigenous martial traditions operate as holistic systems designed to harmonize physical performance with mental and emotional equilibrium; in addition, Phenomenology of the Body contributes to this study by focusing on the subjective lived experiences of practitioners and the ways in which bodily movement generates meaning, identity, and consciousness, which is particularly relevant in examining how martial artists and Yoga practitioners describe experiences of heightened awareness, energetic flow, self-transformation, spiritual discipline, and embodied cultural belonging during training rituals, meditative practices, and combat performance, illustrating that these traditions are deeply experiential and cannot be adequately understood through purely mechanistic or biomedical approaches alone; furthermore, the framework incorporates Indian philosophical concepts central to classical Yoga and martial traditions, especially *Prana*, understood as the vital life-force circulating through the body and regulated through breathing practices such as pranayama, *Dhyana*, referring to meditative concentration and sustained mental awareness cultivated through disciplined attention, and *Tapas*, denoting rigorous self-discipline, endurance, and transformative practice essential to both yogic sadhana and martial training, where physical hardship and controlled repetition are interpreted as pathways toward self-mastery and spiritual growth, as illustrated in traditional Kalaripayattu training routines that combine strenuous body conditioning, ritual devotion, meditative focus, and ethical obedience to the *guru*; consequently, the integration of these theoretical perspectives enables the present study to examine Yoga and indigenous combat traditions not only as cultural performances or physical activities but also as multidimensional systems of embodied spirituality, psychosocial transformation, therapeutic practice, and indigenous epistemology situated within contemporary debates on wellness, identity, and heritage preservation in India and beyond.



Above image showing Theoretical Framework related to the study

Methodology related to the study

The present study entitled *Yoga, Kalaripayattu, and Indigenous Combat Traditions: An Indian Perspective* adopted a mixed-method empirical research design in order to generate a comprehensive and multidimensional understanding of the interrelationship between Yoga and indigenous martial traditions in India by integrating quantitative measurements of psychosocial and physical outcomes with qualitative interpretations of lived experiences, cultural meanings, ritual practices, and embodied knowledge systems, because the complexity of traditional mind-body disciplines requires both statistical analysis and contextual interpretation for a holistic examination of their contemporary relevance and historical continuity; the study was conducted across selected Kalaripayattu centers, Yoga institutions, and indigenous martial arts academies located primarily in Kerala, Tamil Nadu, and parts of Karnataka in South India, regions historically recognized for preserving traditional combat systems such as Kalaripayattu and Silambam through Gurukul-based pedagogy and hereditary practitioner communities, where institutions in districts including Thiruvananthapuram, Kozhikode, Palakkad, and Chennai were selected due to their active engagement in integrating yogic practices with martial training and their participation in cultural heritage promotion programs supported by local organizations and wellness networks; the target population of the study consisted of Kalaripayattu practitioners, Yoga instructors, Gurukkals (traditional martial masters), and martial trainees actively engaged in regular training and teaching activities, from which a total sample of 120 respondents was selected using purposive sampling and snowball sampling techniques, since these methods were considered most appropriate for accessing specialized practitioner communities possessing experiential knowledge of indigenous combat systems and associated yogic disciplines, while also enabling the identification of additional participants through practitioner networks and institutional referrals,

particularly in traditional settings where formal participant databases are often unavailable; quantitative data were collected using a structured questionnaire designed on a five-point Likert scale to measure variables such as physical endurance, flexibility, concentration, emotional regulation, stress reduction, spiritual awareness, discipline, and perceptions regarding the integration of Yoga within martial training, with the questionnaire distributed both physically during training sessions and digitally through institutional contacts, while qualitative data were generated through semi-structured interviews with selected Gurukkals, Yoga teachers, senior practitioners, and trainees in order to explore themes related to embodied experience, ritual significance, spiritual discipline, pedagogical traditions, and the perceived psychosocial benefits of integrated practice, where interviews included open-ended discussions concerning breath control techniques, meditation practices, guru-shishya relationships, body conditioning rituals, and experiences of self-transformation during martial and yogic training; additionally, participant observation was employed during training sessions, ritual ceremonies, meditation practices, and weapon demonstrations within Kalari spaces to document bodily movements, teacher-student interactions, symbolic practices, and environmental settings through detailed field notes, thereby allowing the researcher to capture experiential and performative dimensions often inaccessible through surveys alone, while secondary data sources including ancient yogic texts such as the *Yoga Sutras* and *Hatha Yoga Pradipika*, historical documents related to Kalaripayattu traditions, government cultural reports, archival materials, and recent scholarly literature on martial arts studies, sports sciences, and mind-body therapies were systematically reviewed to provide historical and theoretical context for empirical findings; furthermore, the mixed-method approach adopted in the study aligns with recent interdisciplinary research trends emphasizing the value of combining statistical evidence with ethnographic inquiry in studies of embodied practices and indigenous knowledge systems, thereby ensuring greater methodological rigor, triangulation, contextual validity, and interpretive depth in examining how Yoga and indigenous combat traditions continue to influence physical well-being, mental health, cultural identity, and spiritual consciousness within contemporary Indian society (Creswell & Plano Clark, 2018).

Data Collection Methods

The present study employed a comprehensive mixed-method data collection strategy to examine the interrelationship between Yoga, Kalaripayattu, and indigenous combat traditions in India by integrating quantitative instruments capable of generating measurable psychosocial and behavioral data with qualitative techniques designed to capture experiential narratives, embodied practices, ritual meanings, and cultural interpretations associated with martial and yogic disciplines, thereby ensuring methodological depth, contextual richness, and empirical reliability in understanding how these traditional systems influence physical well-being, mental resilience, concentration, emotional regulation, and spiritual consciousness among practitioners; quantitative data collection was primarily conducted through a structured questionnaire designed using five-point Likert-scale responses ranging from “strongly disagree” to “strongly agree,” enabling respondents to systematically evaluate dimensions such as stress reduction, physical flexibility, discipline, concentration, emotional balance, body awareness, spiritual engagement, and perceptions regarding the integration of Yoga within martial arts training, while the questionnaire incorporated standardized psychometric tools including the Perceived Stress Scale (PSS) and selected psychological well-being scales widely used in contemporary health and behavioral research to assess subjective stress levels, self-regulation, mental clarity, and psychosocial adaptation among participants involved in long-term martial and yogic practice (Cohen et al., 1983); qualitative data were simultaneously generated through semi-structured interviews conducted with Kalaripayattu practitioners, Yoga instructors, Gurukkals, and advanced martial trainees in selected institutions across Kerala and South India, where interview schedules containing open-ended thematic questions facilitated in-depth discussions concerning training routines, breath-control practices, meditative experiences, ritual observances, guru-shishya relationships, spiritual beliefs, bodily transformation, cultural identity, and the perceived role of Yoga in enhancing martial performance and psychological resilience, thereby allowing participants to articulate lived experiences and interpretive meanings beyond the limitations of structured quantitative responses; additionally, participant observation constituted an important component of qualitative inquiry, wherein the researcher directly observed training sessions, ritual ceremonies, meditation practices, body-conditioning exercises, weapon demonstrations, and interpersonal interactions within Kalari and Yoga training spaces, recording detailed field notes related to bodily movement patterns, instructional techniques, symbolic rituals, spatial arrangements, emotional expressions, and group dynamics in order to capture non-verbal and performative dimensions of embodied practice often overlooked in conventional survey-based research, while observational data also enabled contextual interpretation of how discipline, hierarchy, concentration, and spiritual values are enacted within everyday martial and yogic pedagogy; secondary sources formed another significant dimension of data collection through systematic analysis of ancient yogic texts such as the *Yoga Sutras* of Patanjali and the *Hatha Yoga Pradipika*, historical records concerning Kalaripayattu and regional combat systems, government reports on traditional knowledge preservation, archival materials, and recent scholarly literature from sports sciences, anthropology, religious studies, psychology, and martial arts studies, thereby providing historical depth and theoretical grounding for the empirical findings; furthermore, the reliability and validity of the study were strengthened through a pilot study conducted among a small group of practitioners prior to full-scale data collection in order to refine questionnaire wording, improve clarity, and assess response consistency, while expert validation was undertaken through consultations with scholars in Yoga studies, sports psychology, martial arts research, and qualitative

methodology to ensure content validity and conceptual relevance of research instruments, and methodological triangulation involving the integration of survey data, interviews, participant observation, and textual analysis was employed to enhance interpretive credibility, minimize researcher bias, and ensure a more holistic understanding of the psychosocial and cultural dimensions associated with Yoga and indigenous combat traditions in contemporary India (Flick, 2018).

Research Instruments

The present study utilized a carefully designed combination of standardized quantitative instruments and qualitative research tools to examine the psychosocial, behavioral, and experiential dimensions associated with Yoga, Kalaripayattu, and indigenous combat traditions in India, because the interdisciplinary nature of embodied practices requires the integration of psychometric measurement with interpretive inquiry in order to generate reliable, valid, and contextually grounded findings concerning stress regulation, mental well-being, discipline, spiritual consciousness, and bodily awareness among practitioners; quantitative assessment was conducted using the Perceived Stress Scale (PSS), originally developed by Cohen et al. (1983), which is one of the most widely used psychological instruments for measuring the degree to which individuals perceive situations in their lives as stressful, unpredictable, or overwhelming, and in the present study the scale was adapted to assess how participation in Yoga and martial arts training influences emotional regulation, stress management, and psychological resilience among respondents engaged in regular practice, while additional well-being scales based on contemporary psychological and health research were employed to measure variables such as self-awareness, concentration, emotional balance, physical vitality, life satisfaction, and subjective mental wellness, thereby enabling the researcher to statistically evaluate the perceived holistic benefits of integrated mind-body training systems among martial practitioners and Yoga instructors (Tennant et al., 2007); qualitative data collection instruments included semi-structured interview schedules specifically designed to facilitate in-depth exploration of participants' lived experiences, ritual practices, meditative states, bodily discipline, pedagogical traditions, and perceptions regarding the integration of Yoga within indigenous combat systems, where open-ended thematic questions allowed respondents such as Gurukkals, Yoga teachers, senior practitioners, and trainees to elaborate on issues including breath-control techniques, concentration methods, guru-shishya relationships, spiritual development, ethical values, and transformative experiences emerging from martial and yogic practice, while participant observation was guided through a structured observation checklist used during visits to Kalaripayattu training centers and Yoga institutions in order to systematically record bodily movements, breathing coordination, ritual activities, physical conditioning exercises, interaction patterns, meditative sessions, spatial arrangements, and instructional methods within training environments, with detailed field observations providing important contextual evidence concerning the performative and embodied dimensions of traditional combat systems that may not be fully articulated through interviews or questionnaires alone; furthermore, the reliability and validity of the research instruments were ensured through multiple methodological procedures including a pilot study conducted among a preliminary sample of practitioners to identify ambiguities, improve wording clarity, and assess internal consistency of questionnaire items before full-scale administration, while expert validation was undertaken through consultations with specialists in Yoga studies, martial arts research, psychology, and qualitative methodology to confirm the cultural appropriateness, conceptual relevance, and content validity of the instruments, and methodological triangulation involving the integration of quantitative survey findings, interview narratives, participant observation, and secondary textual analysis was employed to enhance credibility, reduce interpretive bias, and ensure greater trustworthiness and analytical rigor in examining the psychosocial and cultural outcomes associated with Yoga and indigenous combat traditions in contemporary India (Lincoln & Guba, 1985).

Data Analysis and Interpretation

The present study employed both quantitative and qualitative methods of data analysis in order to comprehensively examine the interrelationship between Yoga, Kalaripayattu, and indigenous combat traditions in India, because the multidimensional nature of embodied practices, psychosocial experiences, and cultural meanings requires the integration of statistical interpretation with thematic and contextual inquiry to generate empirically grounded and analytically rich findings concerning physical well-being, mental resilience, concentration, emotional regulation, and spiritual consciousness among practitioners; quantitative data obtained through structured questionnaires and Likert-scale responses were analyzed using descriptive statistical techniques including frequency distribution, percentages, mean scores, and standard deviation in order to summarize demographic characteristics, training backgrounds, and participant perceptions regarding the role of Yoga in martial arts practice, while these descriptive measures enabled the researcher to identify patterns associated with stress reduction, flexibility, concentration, discipline, and emotional balance among Kalaripayattu practitioners, Yoga instructors, Gurukkals, and martial trainees, for example by comparing average well-being scores across participants with varying durations of yogic and martial training; in addition, correlation analysis was employed to examine the strength and direction of relationships between selected variables such as frequency of Yoga practice, meditation duration, breath-control exercises, physical endurance, psychological well-being, and perceived stress levels, thereby enabling the study to determine whether integrated mind-body practices were positively associated with improved psychosocial outcomes among respondents, while inferential

statistical tools including independent sample t-tests and one-way Analysis of Variance (ANOVA) were used to compare differences in stress management, concentration levels, and emotional regulation across demographic categories such as gender, age groups, years of training experience, and type of martial discipline practiced, thus facilitating a deeper understanding of how variations in training intensity and practice duration influenced participant outcomes within different practitioner groups; quantitative data analysis was conducted using statistical software packages commonly employed in social science and health research, ensuring accuracy, consistency, and systematic interpretation of numerical findings in accordance with contemporary empirical research standards (Field, 2018); simultaneously, qualitative data generated through semi-structured interviews, participant observation, and field notes were analyzed using thematic analysis and content analysis in order to identify recurring concepts, interpretive meanings, experiential narratives, and symbolic patterns emerging from participant responses and observed training environments, where thematic analysis involved the systematic coding, categorization, and interpretation of textual data into broader themes such as “Yoga as a foundation for martial discipline,” “Breath and meditation in combat awareness,” “Embodied spirituality,” “Guru-shishya pedagogy,” and “Cultural identity through martial practice,” thereby allowing the researcher to explore how practitioners subjectively understood the relationship between physical training, mental concentration, spiritual growth, and ethical self-discipline within indigenous combat traditions; furthermore, content analysis was employed to examine historical documents, ancient yogic texts, institutional records, and observational field notes by identifying key terminologies, symbolic references, ritual elements, and philosophical concepts associated with Yoga and martial arts traditions, which enabled triangulation between textual evidence, participant narratives, and quantitative findings, thereby strengthening interpretive validity and ensuring a more holistic understanding of the embodied, psychosocial, and cultural dimensions of Yoga and indigenous combat systems in contemporary India (Braun & Clarke, 2022).

Results and Findings

Table 1 Demographic Profile of Respondents (N = 120)

Variable	Category	Frequency (f)	Percentage (%)
Age Group	18–25 years	38	31.7
	26–35 years	42	35.0
	36–45 years	24	20.0
	Above 45 years	16	13.3
Gender	Male	72	60.0
	Female	45	37.5
	Others	3	2.5
Type of Practitioner	Kalaripayattu Practitioners	48	40.0
	Yoga Instructors	26	21.7
	Gurukkals	10	8.3
	Martial Trainees	36	30.0
Training Experience	Less than 2 years	22	18.3
	2–5 years	41	34.2
	6–10 years	33	27.5
	More than 10 years	24	20.0

Quantitative Findings

Table 2 Physical Well-being Outcomes among Respondents

Variable	Mean Score	Standard Deviation	Interpretation
Improvement in flexibility	4.48	0.61	Very High
Physical endurance	4.35	0.66	High
Muscular balance and coordination	4.29	0.70	High
Reduction in physical fatigue	4.11	0.73	High
Body awareness and posture control	4.57	0.54	Very High

Interpretation

The majority of respondents reported significant improvement in flexibility, endurance, coordination, and bodily awareness due to the combined practice of Yoga and Kalaripayattu, indicating the effectiveness of integrated mind-body training systems.

Table 3 Stress Reduction and Psychological Well-being Indicators

Variable	Mean Score	Standard Deviation	Interpretation
Reduction in stress levels	4.42	0.63	Very High
Emotional stability	4.26	0.71	High
Anxiety management	4.18	0.75	High

Mental calmness after training	4.51	0.58	Very High
Psychological resilience	4.31	0.67	High

Interpretation

Respondents consistently indicated that breathing exercises, meditation, and disciplined martial practice contributed positively to stress reduction, emotional regulation, and psychological resilience.

Table 4 Concentration and Emotional Regulation Outcomes

Variable	Mean Score	Standard Deviation	Interpretation
Improvement in concentration	4.46	0.60	Very High
Breath control during practice	4.39	0.65	High
Emotional self-regulation	4.21	0.69	High
Mental focus during combat training	4.54	0.55	Very High
Self-discipline and patience	4.47	0.59	Very High

Interpretation

The findings reveal that respondents perceived Yoga-based breathing and meditative practices as essential components in improving concentration, combat awareness, patience, and emotional self-control.

Inferential Statistical Findings

Table 5 Correlation between Yoga Practice Frequency and Psychological Well-being

Variables	Pearson Correlation (r)	Significance (p-value)	Interpretation
Yoga practice frequency & stress reduction	0.71	< 0.01	Strong Positive Correlation
Meditation duration & concentration	0.68	< 0.01	Strong Positive Correlation
Breath-control practice & emotional regulation	0.73	< 0.01	Strong Positive Correlation

Interpretation

The analysis indicates statistically significant positive relationships between regular yogic practice and improved psychosocial outcomes among practitioners.

Qualitative Findings

Table 6

Major Themes Emerging from Interviews and Participant Observation

Theme	Participant Narratives	Interpretation
“Yoga as Preparation for Combat”	Participants stated that yogic stretching, pranayama, and meditation improved agility, reflexes, flexibility, and combat readiness before weapon training sessions.	Yoga functions as a preparatory system enhancing physical conditioning and mental readiness for martial practice.
“Spirituality in Martial Discipline”	Gurukkals emphasized that martial training is not merely physical combat but a spiritual discipline involving humility, concentration, devotion, and self-control.	Martial arts are perceived as pathways toward self-mastery and spiritual development.
“Embodied Cultural Identity”	Practitioners described Kalaripayattu and Yoga as symbols of Indian heritage and cultural continuity that connect younger generations with traditional knowledge systems.	Indigenous combat traditions reinforce cultural identity, heritage preservation, and collective memory.
“Breath and Meditation in Training”	Respondents frequently highlighted the role of controlled breathing and meditation in reducing fear, enhancing concentration, and maintaining emotional balance during combat exercises.	Breath regulation and meditative awareness are central to mind-body integration in martial arts.
“Guru-Shishya Pedagogy”	Traditional teacher-student relationships were viewed as essential for transmitting ethical values, discipline, ritual practices, and embodied knowledge.	Indigenous martial systems emphasize holistic education beyond technical skill acquisition.

Overall Interpretation

The findings demonstrate that the integration of Yoga and indigenous martial traditions such as Kalaripayattu contributes significantly to holistic well-being by combining physical conditioning, mental discipline, emotional regulation, spiritual awareness, and cultural continuity within a unified embodied practice system rooted in Indian knowledge traditions.

Discussion related to the study

The findings of the present study strongly support existing interdisciplinary scholarship suggesting that Yoga and indigenous combat traditions in India function as integrated systems of embodied knowledge that combine physical discipline, mental concentration, spiritual awareness, and socio-cultural identity within a holistic framework of human development, while simultaneously extending previous research by providing empirical evidence regarding the psychosocial and therapeutic outcomes associated with the combined practice of Yoga and Kalaripayattu among contemporary practitioners; in relation to the research objectives, the study successfully identified significant yogic elements embedded within martial training systems, particularly through breathing regulation, flexibility exercises, meditative concentration, bodily awareness, and ritual discipline, thereby confirming historical and ethnographic observations made by scholars of Indian martial traditions who argue that Kalaripayattu evolved not merely as a combat technique but as a psychophysical discipline integrating movement, healing, and spirituality (Alter, 2005), while the quantitative findings demonstrating improvements in stress reduction, emotional regulation, concentration, endurance, and psychological resilience among respondents also align with contemporary neuroscientific and therapeutic studies indicating that mind-body practices involving controlled breathing and meditation positively influence autonomic regulation, attentional control, and mental health outcomes (Gothe et al., 2019); furthermore, the study's theoretical framework based on Embodiment Theory, Mind-Body Integration Theory, Phenomenology of the Body, and Indian philosophical concepts such as *Prana*, *Dhyana*, and *Tapas* is reinforced through participant narratives and observational findings that revealed how practitioners experience martial and yogic training not as separate physical activities but as deeply embodied processes involving self-awareness, disciplined transformation, sensory attentiveness, and spiritual cultivation, thereby illustrating Merleau-Ponty's argument that the body serves as the primary site of human experience and consciousness; among the major themes emerging from the study, mind-body integration appeared as a central dimension, with respondents consistently reporting that Yoga-based breathing techniques and meditative practices enhanced physical agility, emotional stability, combat readiness, and cognitive focus during martial training sessions, while the therapeutic value of integrated practice was evident in participant experiences related to stress management, anxiety reduction, mental calmness, and psychosomatic balance, findings that gain additional significance in light of recent World Health Organization reports documenting rising mental health concerns, sedentary lifestyles, and stress-related disorders globally (World Health Organization, 2023); equally important was the theme of cultural preservation, as practitioners and Gurukkals described Kalaripayattu, Yoga, and other indigenous combat traditions as living repositories of Indian heritage, ethical values, ritual systems, and collective memory that contribute to identity formation and intergenerational cultural continuity, particularly in an era of globalization and cultural homogenization where traditional embodied knowledge systems face challenges arising from commercialization and declining guru-shishya transmission structures; moreover, the study highlights the contemporary adaptation of these traditions through wellness programs, educational institutions, digital learning platforms, tourism initiatives, and sports-based reinterpretations, demonstrating that Yoga and indigenous martial arts continue to evolve dynamically while retaining core philosophical and spiritual principles, as illustrated by the increasing incorporation of Kalaripayattu-based movement therapies, Yoga-integrated martial arts training modules, and heritage-centered wellness retreats within India and internationally, thereby emphasizing the continuing relevance of these traditions as multidimensional systems of health, culture, spirituality, and embodied resilience in contemporary society.

Conclusion

The present study on *Yoga, Kalaripayattu, and Indigenous Combat Traditions: An Indian Perspective* concludes that Yoga and indigenous Indian martial systems function as deeply interconnected embodied knowledge traditions that collectively integrate physical discipline, psychological resilience, spiritual consciousness, ethical self-regulation, and cultural identity within a holistic framework of human development, and the empirical findings of the study demonstrate that the combined practice of Yoga and Kalaripayattu contributes significantly to enhanced physical flexibility, endurance, concentration, emotional regulation, stress reduction, self-awareness, and psychosocial well-being among practitioners, thereby confirming that traditional Indian mind-body disciplines remain highly relevant within contemporary contexts characterized by rising mental health concerns, sedentary lifestyles, and increasing demand for holistic wellness approaches; furthermore, the study contributes to existing scholarship by extending interdisciplinary research on Yoga and martial arts beyond philosophical and historical analysis toward empirical investigation of practitioner experiences and measurable psychosocial outcomes, while also addressing a significant research gap in global martial arts studies where indigenous Indian combat traditions such as Kalaripayattu, Silambam, Gatka, and Thang-Ta have historically received comparatively limited scientific attention in comparison with East Asian martial systems, thus strengthening contemporary academic discourse on embodiment, mind-body integration,

indigenous epistemologies, and traditional knowledge systems (Jennings, 2020); additionally, the findings reinforce theoretical perspectives related to embodiment and phenomenology by illustrating how practitioners experience martial and yogic disciplines as lived bodily processes through which physical movement, breathing, meditative awareness, ritual practice, and spiritual discipline become interconnected modes of self-transformation and cultural expression, while the study also offers important practical implications for sports sciences, physical education, mental health interventions, rehabilitation programs, and wellness-based therapeutic models by suggesting that integrated Yoga-martial arts training can serve as an effective strategy for improving cognitive focus, emotional balance, resilience, and overall well-being among youth, athletes, students, and individuals experiencing stress-related disorders, particularly as recent health research increasingly recognizes the preventive and restorative value of contemplative movement practices in promoting public health outcomes (Schmalzl et al., 2018); however, despite its contributions, the study possesses certain limitations including its relatively localized sample drawn primarily from selected institutions in South India, the reliance on self-reported psychosocial measures, and the limited scope for longitudinal assessment of long-term behavioral and physiological outcomes among practitioners, while linguistic, cultural, and institutional variations across regional martial traditions may also influence the generalizability of findings beyond the studied context; therefore, future research should undertake larger comparative and longitudinal studies involving diverse indigenous combat traditions across different regions of India, incorporate advanced physiological and neuroscientific measurements related to breath regulation and meditative states, examine gendered experiences and digital transformations of martial pedagogy, and explore the role of Yoga-integrated martial systems in educational policy, trauma healing, sports performance, and heritage preservation initiatives, thereby ensuring that these living traditions continue to be documented, preserved, and meaningfully integrated within contemporary academic, therapeutic, and cultural frameworks in India and globally.

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