

Clinical characteristics and legal outcomes of orthopedic malpractice claims in the constitutional court of Türkiye

Bariş Kafa¹ , Ulaş Can Kolaç¹ , Mazlum Veysel Sili¹ 

¹Department of Orthopedics and Traumatology, Faculty of Medicine, Hacettepe University, Ankara, Türkiye

Abstract

Objective: To evaluate the clinical characteristics, subspecialty distribution, and legal outcomes of orthopedic malpractice claims adjudicated through individual applications to the Turkish Constitutional Court, and to identify patterns of rights-based judicial review in orthopedic litigation.

Materials and Methods: A retrospective descriptive study was conducted using publicly accessible decisions retrieved from the official database of the Turkish Constitutional Court. A systematic search was performed using the keyword “ortopedi,” and results were further refined by applying legal filters related to medical negligence and healthcare-associated harm. A total of 111 decisions were initially identified. After applying malpractice-related filters, 15 decisions underwent full-text evaluation. Of these, 13 cases met the predefined inclusion criteria and were included in the final analysis. Decisions were assessed for clinical relevance to orthopedic practice and reviewed for clinical context, orthopedic subspecialty involvement, primary malpractice allegations, alleged constitutional rights violations, admissibility status, and final judicial outcomes. Data were extracted using a standardized framework and analyzed descriptively using frequencies and percentages.

Results: Thirteen Constitutional Court decisions involving orthopedic care were included. Trauma-related management constituted the predominant clinical context, followed by postoperative complications and diagnostic delays. The most frequently involved subspecialties were trauma and fracture management, adult reconstructive surgery, and spine care. Constitutional violations were identified in 53.8% of cases (7/13), while the remaining 46.2% resulted either in findings of no violation or inadmissibility. Among cases reviewed on the merits, violations were primarily associated with procedural deficiencies in judicial evaluation, rather than direct determinations of medical fault.

Conclusion: Orthopedic malpractice claims reaching the Turkish Constitutional Court are primarily derived from trauma-related care. These findings should be interpreted within the framework of constitutional judicial review, which evaluates procedural adequacy and protection of fundamental rights rather than directly determining medical negligence. These results underscore the distinction between clinical malpractice litigation and constitutional judicial review in orthopedic disputes.

Keywords: orthopedic surgery, medical malpractice, trauma, constitutional court, patient rights

Corresponding author: Barış Kafa • Email: drkafa@gmail.com

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Introduction

Orthopedic surgery is a high volume medical specialty that includes trauma care, elective surgical procedures, and postoperative management [1]. Due to the technical complexity of treatment and the potential for serious complications, orthopedic practice has frequently been associated with malpractice claims across healthcare systems [2,3]. Fracture care, joint replacement surgery, and trauma-related procedures are among the most commonly reported clinical contexts in litigation studies [4-6].

A key issue in orthopedic malpractice cases is the distinction between unavoidable complications and deviations from accepted standards of care [3,7,8]. Adverse outcomes such as infection, neurovascular injury, thromboembolic events, and delayed bone healing may occur despite appropriate management; however, inadequate clinical assessment, delayed treatment, insufficient postoperative monitoring, or incomplete documentation may lead to allegations of negligence [1,7]. In this context, both clinical decision-making and the legal evaluation of medical conduct influence malpractice determinations [8,9].

Judicial review of medical malpractice claims relies largely on expert reports and the adequacy of judicial reasoning [8,10]. Limited causal analysis, insufficient consideration of clinical complexity, or inadequately justified court decisions may affect the effective protection of patient rights [8]. Higher courts serve a supervisory function in ensuring that fundamental rights, including the right to life and the protection of physical integrity, are appropriately upheld in healthcare-related disputes [3,8].

In Türkiye, the individual application mechanism to the Constitutional Court allows individuals to allege violations of constitutional rights arising from judicial proceedings related to medical malpractice [11]. Since 23 September 2012, individuals have been able to submit individual applications claiming violations of fundamental rights protected under the Constitution and the European Convention on Human Rights by public authorities [7,11]. Decisions of the Constitutional Court therefore provide valuable insight into both clinical allegations and the quality of lower court evaluations of medical evidence.

Although previous research has examined orthopedic malpractice using insurance claims and registry data, studies based on constitutional or supreme court decisions remain limited [5,12,13]. The association between clinical characteristics, orthopedic subspecialties, and constitutional-level legal outcomes has not been systematically investigated. While malpractice litigation is commonly evaluated through civil or criminal courts focusing on clinical fault, constitutional-level review primarily examines whether judicial processes adequately protected fundamental rights, representing a distinct layer of assessment.

This study aimed to analyze the clinical characteristics, subspecialty distribution, primary malpractice allegations, and legal outcomes of orthopedic malpractice claims reviewed in Constitutional Court decisions.

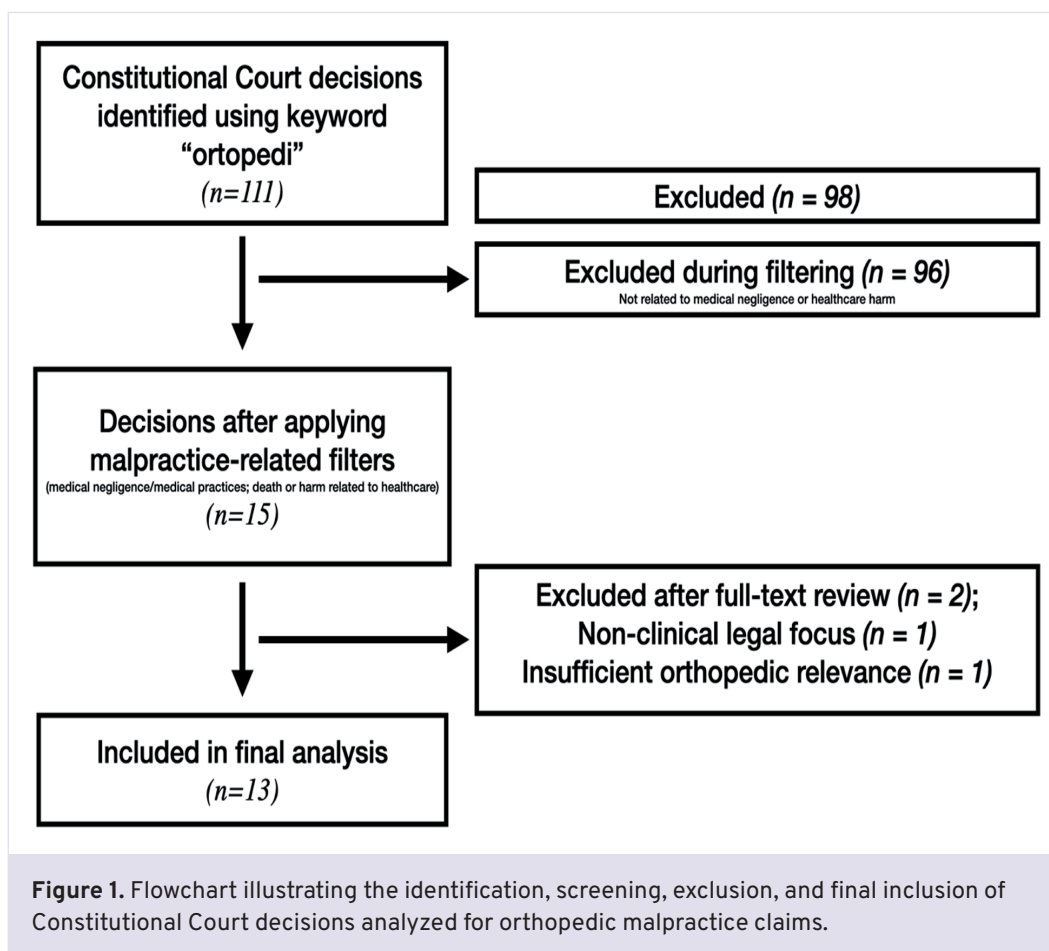
Materials and Methods

Study design

This study was designed as a retrospective descriptive analysis of orthopedic malpractice claims reviewed in decisions of the Constitutional Court of Türkiye. The search was conducted on 18.02.2026. Screening and eligibility assessment were performed by a single reviewer. The analysis focused on evaluating clinical characteristics, orthopedic subspecialties involved, primary malpractice allegations, and legal outcomes at the constitutional level. This study was based exclusively on publicly available judicial decisions and did not involve human participants or identifiable personal data. Therefore, institutional ethics committee approval was not required.

Data source and search strategy

All publicly available decisions were retrieved from the official Constitutional Court decision database (<https://www.anayasa.gov.tr/tr/kararlar-bilgi-bankasi>). A systematic search was performed using the keyword “ortopedi” (orthopedics). To ensure relevance to malpractice-related claims, results were further filtered using the legal categories “medical negligence/medical practices” and “death or harm resulting from medical



negligence or lack of access to healthcare services.” The initial search yielded 111 decisions. After application of the malpractice-related filters, 15 decisions were identified for full-text review, Figure 1.

Eligibility criteria

Decisions were included if they involved orthopedic clinical care and contained allegations related to medical negligence, delayed diagnosis or treatment, inadequate management, or malpractice. Cases were excluded if they primarily addressed non-clinical issues, such as custodial care, ill treatment unrelated to medical practice, or procedural complaints without substantive evaluation of orthopedic care. Following full text review, two decisions were excluded due to insufficient clinical relevance, resulting in a final sample of 13 Constitutional Court decisions. Clinical relevance was defined as cases involving direct orthopedic diagnosis, treatment, or postoperative management.

Data extraction

For each included decision, clinical and legal data were systematically extracted from the full texts. Extracted variables included the clinical context of orthopedic care, the orthopedic subspecialty involved, the primary malpractice allegation, the reported clinical outcome, the Constitutional Court’s ruling, and any remedies ordered.

Subspecialty classification

Orthopedic subspecialties were categorized according to the predominant clinical scenario described in each case, including trauma-related care, elective orthopedic surgery, postoperative complication management, pediatric orthopedic care, and hand surgery. When classification was uncertain, the clinical context was reassessed to ensure consistent categorization.

Outcome Measures and Analysis

The primary outcomes were the distribution of orthopedic subspecialties, types of malpractice allegations, and legal outcomes of Constitutional Court decisions. Secondary analysis examined clinical patterns associated with findings of constitutional violations. Data were analyzed descriptively using frequencies and percentages. Judicial reasoning was qualitatively reviewed to identify recurring factors contributing to constitutional violations.

Results

Trauma-related orthopedic care constituted the majority of included cases, accounting for 61.5% (8/13). Elective orthopedic surgery and postoperative complication management each represented 15.4% of cases (2/13), while pediatric and hand surgery contexts accounted for 7.7% (1/13) of cases (Table 1, Figure 2).

Delayed diagnosis or treatment was the most common malpractice allegation, occurring in 30.8% of cases (4/13). Inadequate clinical management accounted for 23.1% (3/13), followed by poor complication management and insufficient monitoring or follow-up, each representing 15.4% (2/13). Inadequate informed consent and multidisciplinary system-related delays were observed less frequently, each in one case (7.7%) (Table 2).

Constitutional violations were identified in 53.8% of cases (7/13). No violation was determined in 30.8% (4/13), while 15.4% (2/13) of applications were declared inadmissible (Figure 3).

Among trauma-related cases, constitutional violations were observed in 50.0% (4/8), whereas two cases resulted in no violation and two were deemed inadmissible. Both cases involving postoperative complication management resulted in findings of constitutional violations. In elective orthopedic surgery, one case resulted in a violation and one in no violation, while the single pediatric or hand surgery case resulted in no violation (Table 3). Importantly, constitutional violation findings were predominantly related to deficiencies in judicial reasoning, expert evaluation, or procedural safeguards rather than direct confirmation of orthopedic malpractice.

Discussion

This study demonstrates that trauma-related orthopedic care constituted the majority of cases reviewed at the constitutional level; however, these findings reflect the characteristics of disputes subjected to rights-based judicial review rather than the overall incidence of orthopedic malpractice. Delayed diagnosis or treatment and inadequate clinical management were the most frequently observed allegations. Cases involving postoperative complication management demonstrated a consistently high rate of constitutional violations.

The predominance of trauma related care among malpractice claims is consistent with the clinical characteristics of orthopedic practice [7,14]. Trauma management frequently occurs in emergency settings where rapid assessment and decision making are required [15]. Injury patterns may be complex, and early clinical findings can evolve over time [15]. These factors may increase the likelihood of diagnostic uncertainty, delayed recognition of complications, or incomplete documentation. Furthermore, trauma care often involves coordination among multiple medical teams, and communication gaps or referral delays may contribute to adverse outcomes [15,16].

Delayed diagnosis or treatment represented the most common allegation in the present series. In orthopedic trauma, early identification of fracture patterns, neurovascular compromise, or compartment syndrome is critical [17]. Even relatively short delays in appropriate intervention may lead to permanent functional impairment [18,19]. From a legal perspective, delays in care may facilitate the establishment of a causal relationship between clinical management and adverse outcomes [20]. As a result, such cases may be more likely to progress through judicial review.

An important finding was the consistent identification of constitutional violations in cases related to postoperative complication management [21]. Postoperative care requires systematic monitoring and timely response to clinical deterioration. Although complications may occur despite appropriate surgical technique, failure to recognize or manage these complications in a timely manner may be interpreted as a deviation from expected standards of care [22]. The findings suggest that courts may evaluate postoperative management with particular attention to the adequacy of monitoring and responsiveness.

Table 1. Clinical and legal characteristics of orthopedic malpractice cases reviewed by the Constitutional Court.

	Decision no.	Clinical context	Subspecialty	Primary allegation	Clinical outcome	Court decision	Remedy
1	2013/2803	Post-traumatic orthopedic care	Trauma	Inadequate fracture management	Permanent impairment	Inadmissible	None
2	2014/19349	Trauma-related orthopedic treatment	Trauma	Delayed or inadequate treatment	Severe injury	Inadmissible	None
3	2016/11550	Orthopedic treatment following injury	Trauma	Inadequate clinical management	Persistent disability	No violation	None
4	2017/18143	Postoperative complication	Postoperative care	Inadequate complication management	Neurological deficit	Violation	Retrial
5	2017/40500	Neonatal orthopedic injury	Pediatric orthopedics	Inadequate fracture and nerve injury management	Permanent functional loss	No violation	None
6	2019/4610	Trauma-related care	Trauma	Delayed diagnosis and treatment	Long-term disability	Violation	Retrial and compensation
7	2019/11247	Elective orthopedic surgery	Elective surgery	Inadequate informed consent	Permanent impairment	Violation	Retrial
8	2020/10663	Upper extremity fracture	Hand surgery	Inadequate immobilization	Delayed surgical intervention	No violation	None
9	2020/16941	Elective orthopedic surgery	Elective surgery	Alleged surgical mismanagement	Functional limitation	No violation	None
10	2020/22429	Postoperative mortality	Postoperative care	Failure to manage complications	Death	Violation	Retrial
11	2020/26359	Trauma-related orthopedic treatment	Trauma	Insufficient follow-up	Permanent disability	Violation	Retrial
12	2021/12621	Trauma management	Trauma	Insufficient clinical monitoring	Severe disability	Violation	Retrial
13	2021/51903	Major orthopedic trauma	Trauma	Delayed multidisciplinary intervention	Death	Inadmissible	None

The relatively high proportion of constitutional violations in this cohort warrants careful interpretation. Constitutional review does not primarily reassess medical fault but evaluates whether judicial proceedings adequately protected fundamental rights, including the right to life and bodily integrity [7,11]. In several decisions, violations were associated not only with clinical concerns but also with deficiencies in expert evaluation, judicial reasoning, or lower assessment [11].

This distinction highlights that constitutional findings primarily reflect procedural inadequacies in judicial evaluation rather than direct confirmation of medical negligence, emphasizing the need to interpret these results within their legal context.

The distribution of subspecialties and allegations observed in this study is broadly aligned with patterns reported in orthopedic malpractice literature, where

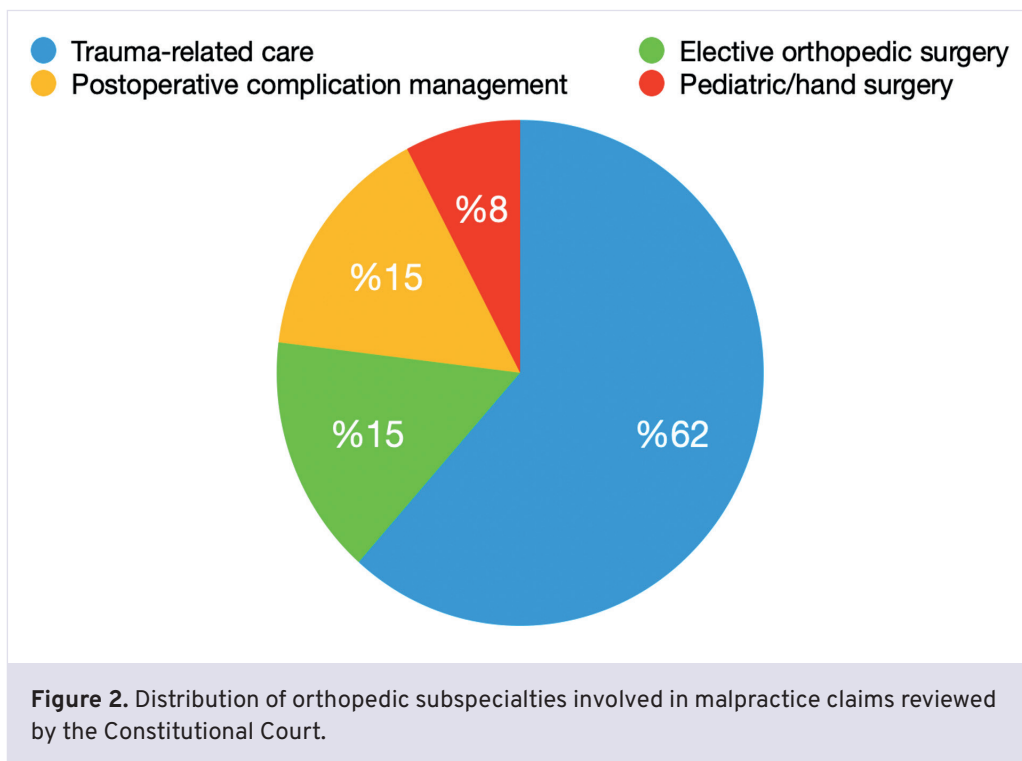


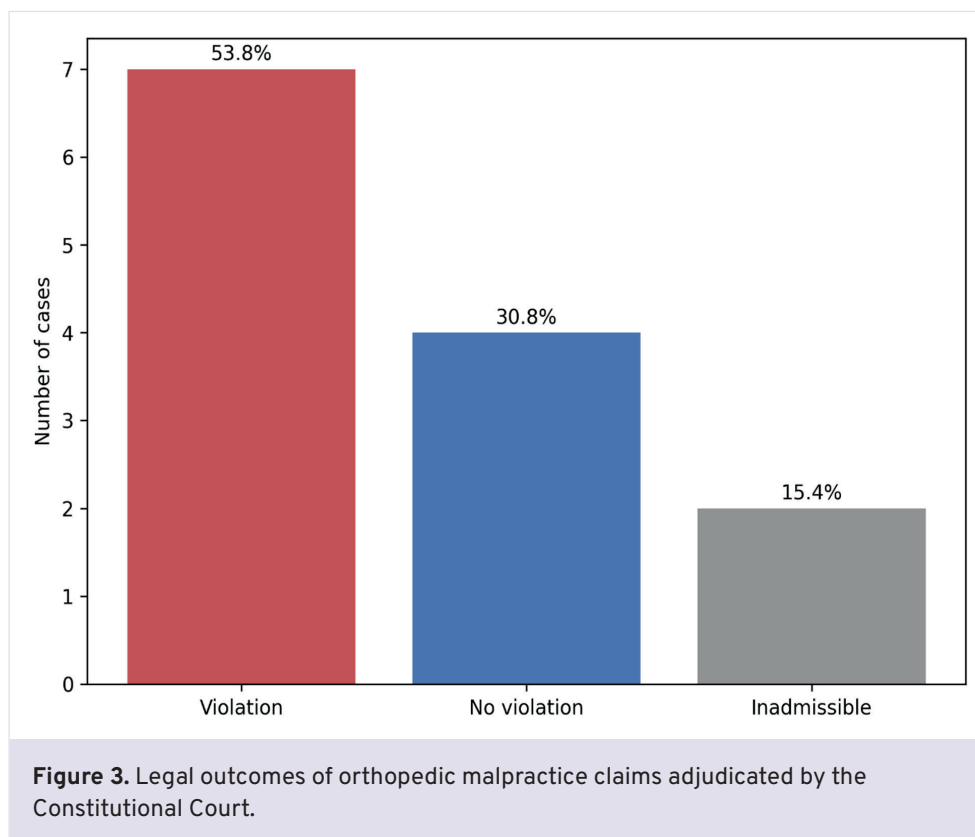
Table 2. Distribution of primary malpractice allegations in orthopedic constitutional court cases.

Primary allegation	Number of cases	Percentage (%)
Delayed diagnosis or treatment	4	30.8
Inadequate clinical management	3	23.1
Poor complication management	2	15.4
Insufficient monitoring or follow-up	2	15.4
Inadequate informed consent	1	7.7
Multidisciplinary/system-related delay	1	7.7
Total	13	100

trauma care, fracture management, and delays in diagnosis are commonly identified risk areas [7,8]. Özdemir et al. examined 71 orthopedic malpractice cases from the Supreme Court and found that most claims arose from trauma care, diagnostic delays, and postoperative complications, with physicians ultimately found at fault in about one-third of cases, while many decisions were overturned due to inadequate expert evaluation [7]. In contrast, our Constitutional Court analysis of 13 cases shows a much lower rate of established rights violations, with the majority of applications dismissed as inadmissible or resulting in no violation, indicating that while clinical allegations are similar, only a small proportion escalate to constitutional level breaches of

patient rights. These findings are also consistent with international malpractice literature, where trauma-related care, delayed diagnosis, and postoperative complications are among the most frequently reported causes of litigation [8,14]. However, unlike conventional malpractice studies that directly assess physician liability, the present study reflects the subset of cases escalating to constitutional review, where procedural adequacy and protection of fundamental rights play a central role.

While direct clinical recommendations cannot be derived from constitutional decisions, the findings highlight recurrent clinical contexts, such as trauma care, delayed

**Table 3.** Orthopedic subspecialties and Constitutional Court legal outcomes.

Subspecialty	Violation	No violation	Inadmissible	Total
Trauma-related care	4	2	2	8
Elective orthopedic surgery	1	1	0	2
Postoperative complication management	2	0	0	2
Pediatric/hand surgery	0	1	0	1
Total	7	4	2	13

diagnosis, and postoperative management, that are frequently associated with medicolegal disputes. Structured evaluation protocols in trauma settings, clear documentation of decision-making processes, and timely referral to appropriate subspecialists may reduce the risk of adverse outcomes. In the postoperative period, standardized monitoring and early recognition of complications may be particularly relevant. Strengthening communication among multidisciplinary teams may also reduce system related delays.

Several limitations should be acknowledged. The number of cases is limited, reflecting the selective nature of Constitutional Court review rather than the overall frequency of orthopedic malpractice claims.

The descriptive design does not allow statistical modeling. In addition, reliance on judicial decisions restricts access to detailed clinical data. Despite these limitations, the study shows the types of orthopedic cases that reach constitutional adjudication and the clinical circumstances most frequently associated with adverse legal outcomes.

Conclusion

In conclusion, orthopedic malpractice claims reviewed at the constitutional level most commonly involve trauma related care and are frequently associated with delayed diagnosis or treatment and inadequate clinical

management. Although constitutional violations were identified in a substantial proportion of cases, these findings often reflect procedural deficiencies in judicial evaluation rather than direct determinations of medical fault. Attention to timely clinical intervention, structured postoperative monitoring, and comprehensive documentation may contribute to improved patient outcomes and reduced legal exposure.

Author contributions

Conception: B.K.; Design: B.K.; Data acquisition: U.C.K., M.V.S.; Data analysis: U.C.K., M.V.S.; Drafting of the manuscript: U.C.K., M.V.S.; Critical revision of the manuscript: B.K. All authors reviewed the results, approved the final version of the manuscript, and agreed to be accountable for all aspects of this study.

Ethical approval

Ethics committee approval and informed consent were not required for this study.

Data availability statement

The data that support the findings of this study are available from the corresponding author upon reasonable request.

Conflict of interest

The authors declare that this study was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

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Generative AI statement

The authors declare that no generative AI or AI-assisted technologies were used in the writing or preparation of this study.

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