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# PUBLIC HEALTH AND THE LAW: EXAMINING VACCINE SAFETY REGULATION IN GHANA

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**Abstract:** Amidst vaccine safety hesitancy risks, this analysis applies CREAC method to interpret Ghana's Food and Drugs Law 1992 (PNDCL 305B) establishing regulation alongside Public Health Act 2012 (Act 851) enabling compulsion, evaluating policy levers balancing access assurance and outbreak response efficacy with dissent and rights protections. Key amendments and guidance recommended affirm nuanced applications upholding exemption and exclusion fairness amidst necessity, minimizing restrictions through transparent and accountable procedures. Significantly, codifying posterity considerations builds trust in oversight systems with Phase IV post-market surveillance while proactive rights jurisprudence presses judicious state action – fostering adoption not resistance.

**Keywords:** Vaccine regulation, Compulsory immunization, Public health law, Rights-based exemption, Priority populations

## Introduction & Context

Vaccine policy in Ghana stands at a crossroads amidst recurring vaccine preventable disease outbreaks traceable to safety confidence gaps while facing new pandemic threats, balancing assured access against dissent risks requires updating oversight infrastructure and composed application of extraordinary state powers.

## Relevance of Analysis

Ghana's Food and Drugs Law 1992 (PNDCL 305B) establishing FDA regulation alongside Public Health Act 2012 (Act 851) enabling emergency compulsion equip policy levers responding to resistance risks while ensuring supply protections through coordinated governance (Frankel, 2019). However, recent rested compulsory COVID-19 vaccination guidelines spotlight heterogeneity costs manifest through rights infringements on religious freedoms and medical ethics deserving integration within outbreak response protocols (Dwamena, 2022; MCI v. Ministry of Health, 2022). Thereby grounding policy in ethical applications of oversight and compulsory provisions merits re-examination.

## Justifying Focus on Vaccine Safety Assurances

Auditing oversight infrastructure builds trust. Febir et al. (2019) found vaccine safety confidence gaps amidst 25% Ghanaians comparable to only 19% globally that risk epidemic control despite willingness for compulsory interventions, spotlighting perceived assurance shortfalls. Reviewing Phase IV post-market surveillance mandates

## **Original Article**

fosters detectability of adverse events for transparent actions signaled to public while codifying informed consent considerations for priority populations protects.

### **Modernizing Application through Rights Accommodations**

While case laws uphold public welfare trade-offs, emerging bodily autonomy and religious freedoms jurisprudence presses constraint justifying exceptional access restrictions, else risking resistance and reach. Carving exemptions matching scale and duration of outbreak response alongside narrow, non-permanent schemes preserves state power legitimacy. Hence updating application procedures and protections against precipitous power cancelling hard-won trust is imperative.

In summary, Ghana's strong medical product regulation paired with outbreak response provisions deserves re-appraisal on exemptions inclusion, post-market vigilance and compassion obligations to update historical frameworks matching modern liberties jurisprudence for sustainably effective, consented protection policies as a model regionally. The objective is reinterpreting the laws facilitating access through ethical application.

### **Scientific Novelty**

This cross-disciplinary legal analysis uniquely integrates public health contexts on vaccine hesitancy risks with structured application of CREAC method interpreting Ghanaian statutory and case laws concerning oversight systems and extraordinary state powers. Grounding policy dilemmas of access assurance versus ethics, rights and consent within the medicolegal framework substantively elevates discourse on balancing health security through scientific regulation without discounts on liberty protections.

### **Practical Significance**

The recommendations provide actionable proposed amendments to codify exemption considerations for compulsory vaccination schemes targeting dissenting communities into Ghanaian public health law while simultaneously strengthening oversight through phase IV post market surveillance mandates. Additionally, the jurisprudence guidance presses Ghana's judiciary to proactively delineate infringement tests affirming rights-respecting applications of extraordinary state powers, fostering sustainable legitimacy.

### **Research Method**

This analysis used CREAC legal analysis method to interpret Ghana's vaccine oversight laws while overcoming limitations through interdisciplinary public health grounds towards rights-based amendments formalization for replicable policy application:

#### **Justifying CREAC Method Selection**

Structured legal analytical frameworks rigorize interpretive investigations on balancing statutory powers, protections and risks in context, enabling procedural reforms formalization. The IRAC (Issue, Rule, Analysis, Conclusion) and CREAC methods (adding Explanation, Application) build layered scrutiny – ideal suiting multi-angled vaccine regulation and compulsion dilemma analysis.

#### **CREAC Affords Comprehensive Scrutiny**

Singh et al. (2022) utilized CREAC assessing Indian medical negligence liability reforms through separating proof burdens from compensation analysis across issue dimensions. Similarly, Dwomoh (2020) justified Ghanaian land rights protections interpretations via CREAC. In fragmented analysis landscapes, CREAC

## Original Article

structurally scaffolds crossing interpretive dimensions – ideal for investigating access assurances against ethical applications of state power.

### Grounding Analysis with Interdisciplinary Contexts

However, legal analyses risks myopia on applied impacts without real-world grounding. Snowdon et al. (2022) incorporated public health contexts across CREAC investigating noncommunicable diseases statutes. Similarly, interdisciplinary founding here situates analysis clearly contrasting vaccine confidence surveys identifying safety assurance addressable through post-market vigilance codification.

### Formalizing Rights-Based Reforms

Structurally cascading analysis enabled incrementally parsing oversight gaps and precipitous state powers into amendable phases formalizing Phase IV detection mandates balancing risk transparency alongside carving exemptions matching compulsory scheme durations to outbreak realities. Thereby CREAC facilitated transitions from problem structuring through reforms packages coalescing.

### Enabling Replicable Application

Finally, the conclusion synthesized key reforms packages for legislative adoption while transitioning implementation guidance pressing judicious state restraint. Thereby replicable recommendations and oversight best practices replication offense to Ghana and analogize countries modernizing medical product governance without consent and trust discounts materializes. Staged CREAC analysis compels level-setting.

In summary, interdisciplinary-grounded CREAC legal analysis structures complex multidimensional medical product regulations assessment while scaffolding amendments right-sizing state powers applications through cross-sectoral legitimizing – optimizing delivery efficacy absent resistance triggers. The framework promises research replication in oversight modernizations to sustain effectiveness amidst heterogeneity.

## Results & Discussions Rules

### I. Background

Vaccine policies in Ghana balance access needs with safety assurance to control infectious diseases. However, public concerns over childhood immunization and new vaccines has challenged universal coverage amidst disease outbreak threats (Frankel, 2019). Otchere et al. (2019) found general willingness for mandatory vaccination amid epidemics, indicating legal compulsion could enable emergency population protection policies while managing antivaccination dissent.

### II. PNDCL 305B Establishes Vaccine Regulation and Quality Assurance

Ghana's Food and Drugs Law 1992 (PNDCL 305B) established the FDA to oversee food and drug quality via safety, efficacy and potency standards across production, registration, distribution and pharmacovigilance (PNDCL 305B p.1; Suleman et al., 2016). Per Suleman et al. (2016) and Appiah (2018), PNDCL 305B is Ghana's legislative framework for medicines access and control.

Specifically, Part VII governs pharmaceutical regulation with Section 76 prohibiting drug sales without FDA registration involving proven "safety, efficacy and quality" (PNDCL 305B Part VII, Sec. 76; 80e). Section 78 registration rules require purity, toxicity and stability data while Section 80 explicitly mandates vaccine efficacy and safety verification before public release and use (PNDCL 305B Part VII, Sec. 78, 80). By setting compulsory

## Original Article

quality assurance standards for vaccine deployment, PNDCL 305B enables scientific regulation to address safety fears. III. Act 851 Provides Backing for Compulsory Vaccination Orders

Ghana Public Health Act 2012 (Act 851) aims to prevent and control disease outbreaks (Act 851 p.1). Per Frankel (2019) and Nkrumah (2021), Act 851 contains unused provisions to enforce emergency vaccination covering policy gaps and anti-vaccination threats.

Specifically, Section 61 enables the Health Minister to issue compulsory vaccination orders during epidemics while Section 62 restricts infectious persons' movements (Act 851 Part V, Sec. 61, 62). As Appiah and Aikins (2018) observe, these boost disease control powers but require case law support. Indeed, *Ghana Lotto Operators Association v. National Lottery Authority* [2007-2008] justified mandatory public welfare schemes while *Republic v. FDA* affirmed destroying public health threats, legally backing compulsory infection containment. Thereby Act 851 equips health authorities to rapidly mandate emergency vaccination when reasonable voluntary efforts fail, preserving population wellbeing above singular objections.

In toto, PNDCL 305B requires vaccine efficacy assurance as an infrastructure for science-based safety policies while Act 851 reserves extraordinary legal powers to mandate emergency mass vaccination, resolving tensions between individual dissent and population protection needs when facing infectious disease threats.

### Explanation

#### I. Vaccine Safety Concerns Pose Disease Outbreak Risks

Vaccine safety concerns have challenged immunization campaigns in Ghana, enabling disease transmission. A multi-country study by Larson et al. (2016) and Febir et al. (2019) found 25% of Ghanaian respondents lacked confidence in vaccine safety systems compared to 19% overall, while Otchere et al. (2021) established safety as the primary reported skepticism driver.

Frankel (2019) traced measles outbreaks in Ghana since 2006 to religious group childhood immunization objections as vaccine preventable disease resurgences threaten global eradication. Similarly, UNICEF (2022) links Polio outbreak risks in Africa to safety concerns over the oral polio vaccine and vaccine derived Polio virus mutations, spotlighting surveillance needs. Thereby vaccine hesitancy founded upon safety fears poses infectious disease control challenges in Ghana (Akuoko et al., 2021).

#### II. Legal Backing Advances Vaccine Coverage

Per Otchere et al. (2019), 90% acceptance of mandatory childhood vaccination during outbreaks in Ghana's Ashanti region signals legal authority could overcome hesitancy to achieve population protection. Febir et al.'s (2019) call for communication and leadership around vaccine development and regulatory efforts additionally underscores public education on safety systems advancing acceptance and disease control.

Indeed, Frankel (2019) advocates leveraging Act 851's emergency compulsory powers for stronger immunization drives, while Nkrumah (2021) stresses clarifying FDA oversight on vaccine approval, quality assurance and side effect monitoring as confidence building measures. Thereby public communication on oversight powers and compulsory provisions can enable governments to mandate emergency vaccination where reasonable voluntary efforts fail (Appiah and Aikins, 2018).

#### III. Case Laws Affirm Public Welfare Interventions

## **Original Article**

While individual rights criticisms against compulsory schemes exist, Ghanaian case laws legitimize prioritizing public welfare under law. Per *Ghana Lotto Operators Association v. National Lottery Authority* [2007-2008], running an unauthorized lottery breached regulations furthering socioeconomic development. The Supreme Court ruled participating in a scheme lawful as a reasonable restriction.

Likewise in *Republic v. FDA, Ex Parte Delata Foods LBG* [2021], destroying contaminated products without compensation was deemed lawful to prevent public harm. Thereby the courts affirm policy levers and powers driving collective advancement per laws are enforceable over individual objections.

By analogy, invoking provisions for compulsory vaccination through demonstrated legality despite dissent upholds population health rights and state duty aligned with public welfare jurisprudence.

In sum, while vaccine safety fears enable disease spread in Ghana, public education on regulatory oversight for quality assurance combined with case law backed application of Act 851 compulsory powers can provide policy levers to mandate emergency vaccination coverage amid antivaccination risks. Thereby law supports public health protection.

### **Application**

#### **I. Vaccine Regulation Basis Enables Policy Levers**

Per Suleman et al. (2016), Ghana's Food and Drugs Law, 1992 (PNDCL 305B) provides the legislative framework for quality, safety and efficacy standards for all medicines and vaccines as a precondition for use and marketing authorization. Specifically, PNDCL 305B Part VII establishes the FDA's regulatory authority on pharmaceutical access and control decisions (Appiah, 2018; PNDCL 305B p.1).

Indeed Section 76 prohibits drug sales without FDA registration while Section 80 explicitly stipulates vaccines require FDA safety and efficacy approval prior to public use, enabling sciencebased policy levers aligned with calls for clearer oversight communication by Nkrumah (2021). Thereby PNDCL 305B as the legal infrastructure for quality assurance builds structured vaccine access pathways to manage anti-vaccination risks.

#### **II. Act 851 Supports Emergency Compulsory Powers**

Ghana's Public Health Act, 2012 (Act 851) reserves extraordinary compulsory powers to control disease outbreaks (Frankel, 2019). Specifically, Section 61 enables mass vaccination orders "during an outbreak or a threatened outbreak" while Section 62 restricts infectious persons' movements (Act 851 Part V, Sec. 61,62).

Per Frankel (2019), Act 851 provisions remain underutilized in managing vaccine refusal risks. Appiah and Aikins (2018) likewise stress Section 61's potential compulsory disease control utility given looming drug resistance threats, if backed by judiciary. Indeed, case laws in *Republic v. FDA* and *Ghana Lotto Operators Association* affirm destroying health hazards and mandating schemes for public welfare as reasonable restrictions, supporting emergency vaccination orders.

Thereby Act 851 provides robust legal powers to underpin compulsory vaccination policies amid anti-vaccination risks provided orders pass legislative and judiciary review, privileging collective protection over singular interests.

#### **III. Compulsory Orders Require Procedural Justice**

## **Original Article**

While strong compulsory capacities manage vaccine refusal risks, critics warn against overly expansive state powers (Mpoke Bigg, 2021). Procedural justice measures balancing individual rights alongside collective health duties per Act 851 orders can enable legitimacy.

McDonald (1976) developed widely applied compulsory vaccination procedural fairness principles: 1) necessity based on evidence, 2) reasonable means with minimum restrictions, 3) proportional burdens equitably borne. Requiring transparent assessments on whether voluntary efforts failed before layered approval procedures for any compulsory orders fosters accountability (Saunders, 2022).

Additionally, in the early smallpox case, *Jacobson v. Massachusetts* upheld mandatory vaccination with exemptions for medical contraindications, affirming restrictions protecting vulnerable groups. Thereby layered procedures emphasizing non-maleficence alongside necessity safeguards rights within emergency infectious disease control policies.

Summarily, PNDCL 305B provides structured vaccine access regulation in Ghana while Act 851 reserves extraordinary compulsory public health powers contingent on evidentiary justification and fair procedures, balancing individual and collective protection imperatives. Mandatory vaccination policies amid vaccine hesitancy risks must emphasize transparency, exemptions for vulnerable groups and minimal burdens to uphold social justice alongside community health.

### **Counterargument**

While Ghana's vaccine oversight laws aim to balance access with quality assurance, concerns exist on overreach of state power versus individual rights including religious freedoms and bodily integrity.

#### **I. Compulsory Powers Risk Slippery Slope Expansion**

Under Act 851, Section 61 enables compulsory vaccination orders based solely on a "threatened outbreak", a broad term allowing subjective assessments of risk (Act 851, Part V Section 61). Without stringent evidence thresholds or judicial review requirements before issuance, this provision risks executive overreach.

Indeed, recent calls to mandate COVID-19 vaccines for public school attendance absent an outbreak (Dwamena, 2022) indicate Mission Creep beyond emergency epidemics into everyday restrictions. Unless compulsory orders follow McDonald's necessity and proportionality principles with exemptions, Act 851 provisions threaten expansive applications (McDonald, 1976).

**II. Religious Freedom Objections Require Exemptions**  
A prominent counterargument is restricting religious practice freedom which encompasses objections to medical treatments under Article 21 (c) of Ghana's Constitution (GCFR 1992). The Seventh Day Adventists Church sued the Ministry of Health over restricting unvaccinated persons, arguing "forced vaccination violated religious freedom" (*MCI v Ministry of Health* [2022]).

While the High Court upheld temporary COVID vaccine mandates, differences distinguish epidemic control needs from general childhood immunization requirements. Thereby comprehensive exemptions are required to respect multiplicity values (*Quayson v. Attorney General* [2022]).

#### **III. Bodily Autonomy Questions Deserve Scrutiny**

Parental rights groups also raise bodily integrity objections against vaccinating minors lacking capacity for medical decisions (GCFR 1992). While *Jacobsen v. Massachusetts* (1905) established states can constrain

## **Original Article**

individual liberties to protect community health, emerging human rights jurisprudence on autonomy deserves counter-weighting (Harrington, 2005).

Overall compulsory vaccination risks expansive application without exemptions. Overriding religious freedoms requires strict necessity analysis while medical ethics dilemmas on proxy consent for minors warrant greater debate, pointing to risks in broad compulsory laws without nuance.

In summary, while Act 851 provides means to address vaccine access gaps amid hesitancy, Ghana should require showing failed voluntary efforts before compulsory orders with exemptions for religious beliefs and vulnerable groups to balance oversight powers with freedom of conscience and human rights. Compulsion should always be a last resort, not first instinct.

### **Conclusion**

Ghana's vaccine policy infrastructure established through Food and Drugs Law 1992 (PNDCL 305B) and Public Health Act 2012 (Act 851) aims to balance access and quality assurance with public health security. PNDCL 305B provides structured pathways for FDA oversight on safety, efficacy and quality standards for all medicines and vaccines (Suleman et al., 2016). Meanwhile Act 851 uniquely reserves extraordinary compulsory disease control powers to mandate interventions like mass vaccination amid outbreak threats, filling gaps where unfettered choice fails collective protection (Frankel, 2019).

These policy levers proved crucial managing COVID-19 with temporary FDA emergency use authorizations coupled with Executive Instructions on compulsory vaccination access rules (FDA Ghana, 2022; Dwamena, 2022). However, countervailing concerns on religious freedoms, medical ethics and human rights require nuance within future applications.

While case laws including *Republic v. FDA* justify public welfare restrictions and destroying health hazards, emerging bodily autonomy and conscience debates deserve heightened scrutiny before overriding specific communities or demographics through compulsion (*MCI v. Ministry of Health*, 2022). Policymakers must contextually balance necessity, efficacy, ethics and rights with regulatory practices and compulsory application of Act 851 provisions as last resorts.

Indeed, McDonald's (1976) procedural fairness principles rightly demand transparent failed voluntary effort assessments and compulsory order approvals accounting for minimal burdens equitably borne. As *Quayson v. Attorney General* affirmed, inclusivity accommodating multiplicity safeguards dignity within health systems. Compulsory schemes warrant exemptions for medical contraindications per Jacobsen along with extensions for religious freedoms and minority groups like wards lacking medical consent capacity.

In conclusion, Ghana's robust legal infrastructure for vaccine access and regulation can enable science-driven policy to manage anti-vaccination risks. But sustainably implementing extraordinary disease control powers requires exemptions upholding equity and rights within accountable, transparent procedures reaffirming non-maleficence duties. Getting compulsory applications right amid outbreak threats fosters lasting legitimacy and public trust in the underlying vaccine oversight systems.

### **Recommendations**

To enhance vaccine oversight in Ghana while addressing access, ethics and rights concerns on compulsory powers under Act 851, the following legal and policy changes are recommended:

## Original Article

Amendments to Public Health Act 2012, (Act 851)

1. Section 61 enabling compulsory vaccination orders should add language requiring consultation with technical experts and religious/community leaders as well as public notification procedures and legislative approval. This fosters transparency and buy-in.

2. Insert a clause demanding evidentiary justification on failed results of reasonable voluntary measures before invoking compulsory powers. This raises necessity proof burdens for extreme measures as last resorts.

Changes to Food and Drugs Law, 1992 (PNDCL 305B)

3. Section 80 on vaccines should explicitly reference Phase IV post-marketing surveillance requirements including manufacturer risk management plans for detecting adverse events Signals for timely safety actions. This strengthens oversight.

4. Create provisions requiring special considerations and exemption procedures for any compulsory schemes proposed for vulnerable groups like pregnant women and wards lacking medical consent capacity. This fosters medical ethics protection. Policy and Jurisprudence Recommendations

5. Pass regulations distinguishing procedures and exemption allowances between temporary emergency epidemic orders and general compulsory interventions like school vaccination schemes to prevent power expansion risks.

6. Supreme Court guidance affirming religious freedom and medical ethics arguments require exceptional justification through McDonald's necessity and proportionality tests before applying to dissenting communities. This reaffirms rights balancing.

Ghana's laws updated with nuanced compulsory application procedures and post-market surveillance mandates alongside Court pronounced scope protections and community exemptions can serve as a model legal infrastructure for Africa to address vaccine hesitancy through scientifically supported assurances while upholding access, safety and oversight – building trust for protection.

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## **Original Article**

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