

“マラリア対策への ODA拠出内容について”

(特活)サパ＝西アフリカの人達を支援する会
則武都子

農薬蚊帳の袋及び梱包材 の廃棄処理についての WHO内部文書

“農薬蚊帳に接触、または、農薬蚊帳に使われているピレスロイド系農薬を吸収しているかもしれない袋に暴露することにより健康への害及び環境への影響が益々懸念される”

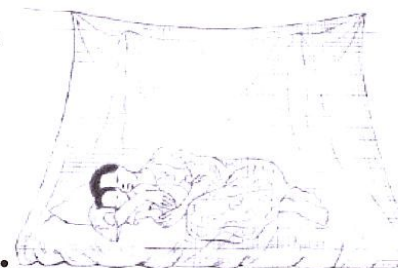
- 袋の再利用禁止
- 高温で焼却
- 安全な施設で保管
- 居住区より離れたところに埋める
- 廃棄にかかわる人々は、適切な防護用具を使用
など

WORLD HEALTH ORGANIZATION
DRAFT INTERIM RECOMMENDATIONS
ON THE SOUND MANAGEMENT OF PACKAGING
FOR LONG LASTING INSECTICIDAL NETS
(LLINs)



During Sleeping

SUN



Inhalation Exposure (mg/kg/day)

$$= \text{Airborne concentration (mg/m}^3\text{)} \times \text{Respiration volume (m}^3\text{/hr)} \times \text{Sleeping time (hr/day)} / \text{Body weight (kg)}$$

Dermal Exposure (mg/kg/day)

$$= \text{Target Dose (mg/m}^2\text{)} \times \text{Transfer from net to skin (\%)} \times \text{Area of skin in contact with net (m}^2\text{/day)} / \text{Body weight (kg)}$$

Oral Exposure through sucking (mg/kg/day)

$$= \text{Target Dose (mg/m}^2\text{)} \times \text{Net area to be sucked during night (m}^2\text{/day)} \times \text{Transfer from net to mouth (\%)} / \text{Body weight (kg)}$$

Oral Exposure through hand-to-mouth transfer (mg/kg/day)

$$= \text{Target Dose (mg/m}^2\text{)} \times \text{Transfer from net to skin (\%)} \times \text{Area of hand in contact with net (m}^2\text{/day)} \times \text{Transfer from hand to mouth (\%)} / \text{Body weight (kg)}$$

20

Method of Assessment

$$\text{MOS} = \frac{\text{NOAEL}^1) \text{ (mg/kg/day)}}{\text{Exposure}^2) \text{ (mg/kg/day)}}$$

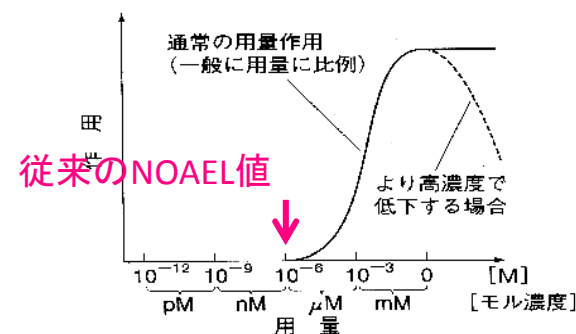
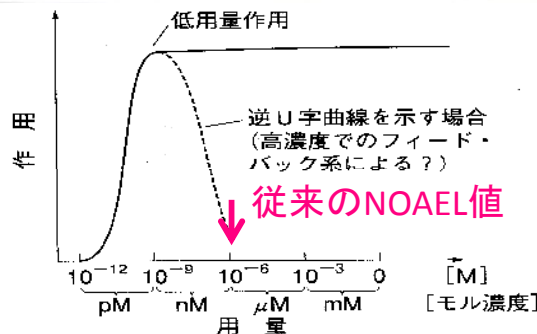
1) No observed adverse effect level

2) Sum of exposures from potential exposure routes

MOS > 100

is generally considered as an **acceptable margin***.
 (× 10 for **interspecies** differences, × 10 for **intraspecies** differences)

*: WHO/PCS/04.1,
 A Generic Risk Assessment Model for Insecticide Treatment and Subsequent Use of Mosquito Nets



従来のNOAEL値: 農薬などは通常の試験システムで毒性作用などが出ない従来のNOAEL値以下の低用量において、ホルモンかく乱作用などの低用量作用が出ることが科学的に立証されている。

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アメリカ小児科学会が子どもへの農薬曝露の危険性について公式見解を発表

American Academy
of Pediatrics



DEDICATED TO THE HEALTH OF ALL CHILDREN®

FROM THE AMERICAN ACADEMY OF PEDIATRICS

Organizational Principles to Guide and Define the Child Health Care System and/or Improve the Health of all Children

POLICY STATEMENT

Pesticide Exposure in Children

COUNCIL ON ENVIRONMENTAL HEALTH

KEY WORDS

pesticides, toxicity, children, pest control, integrated pest management

ABBREVIATIONS

EPA—Environmental Protection Agency

IPM—integrated pest management

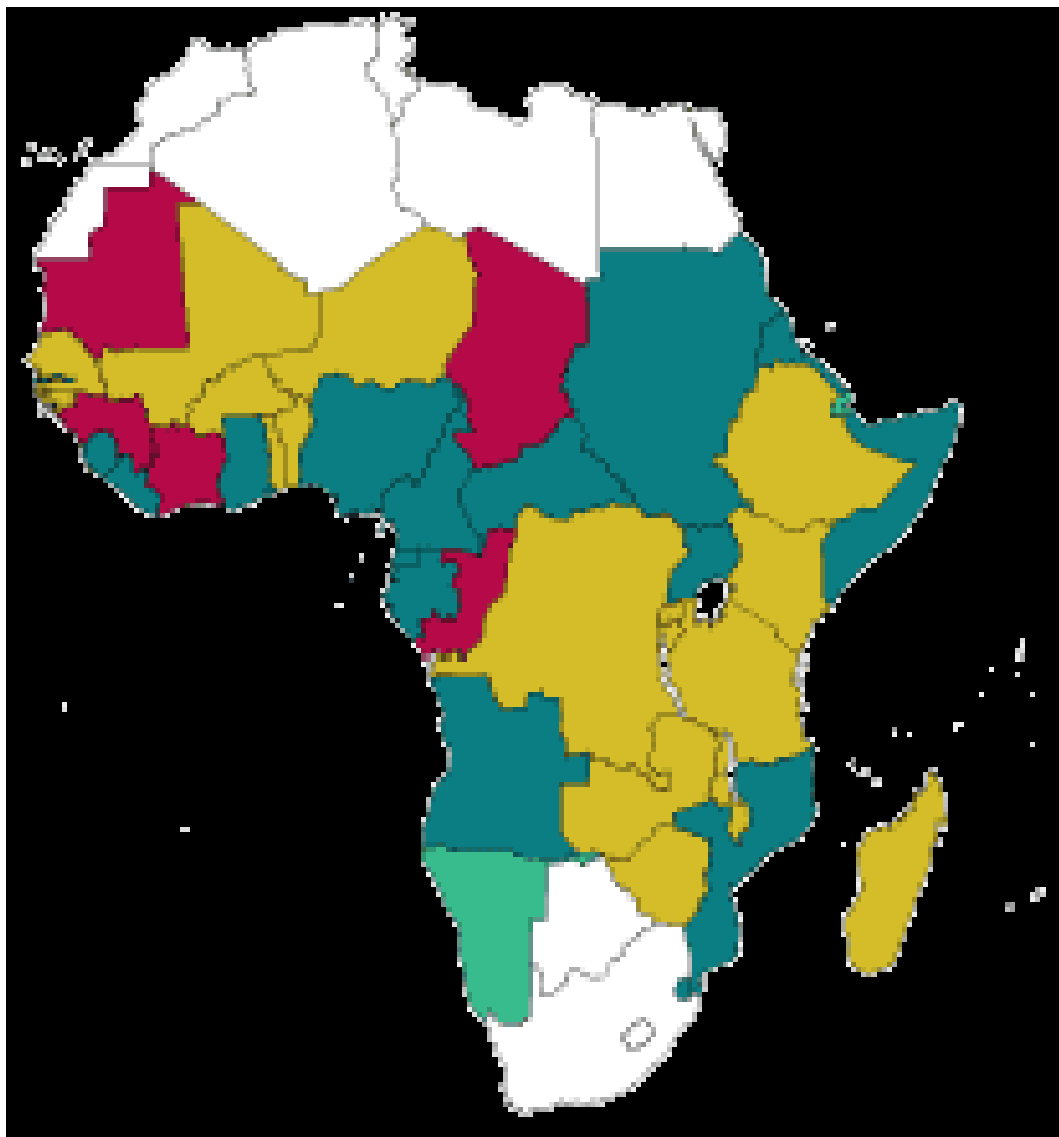
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abstract

FREE

This statement presents the position of the American Academy of Pediatrics on pesticides. Pesticides are a collective term for chemicals intended to kill unwanted insects, plants, molds, and rodents. Children encounter pesticides daily and have unique susceptibilities to their potential toxicity. Acute poisoning risks are clear, and understanding of chronic health implications from both acute and chronic exposure are emerging. Epidemiologic evidence demonstrates associations between early life exposure to pesticides and pediatric cancers, decreased cognitive function, and behavioral problems. Related animal toxicology studies provide supportive biological plausibility for these findings. Recognizing and reducing problematic exposures will require attention to current inadequacies in medical training, public health tracking, and regulatory action on pesticides. Ongoing research describing toxicologic vulnerabilities and exposure factors across the life span are needed to inform regulatory needs and appropriate interventions. Policies that promote integrated pest management, comprehensive pesticide labeling, and marketing practices that incorporate child health considerations will enhance safe use. *Pediatrics* 2012;130:e1757–e1763



マラリア罹患 減少率50%以上地域

- * Namibia (農薬蚊帳保有率80%以上)
 - * Sao Tome and Principe(保有率?)
 - Solomon Islands
 - Suriname
 - Thailand
 - Viet Nam
 - Cambodia*
 - Gambia*
 - * Tanzania (保有率50-79%)
 - (United Republic)*
- Above 80%, 50-79%, 20-49%, <20%

アフリカで3ヶ国のみ

THE HEAVY BURDEN OF BEING A ROBBER IN KISAUNI. He is said to have demanded money from an attendant at a mobile money transfer agent at gunpoint, but the latter raised the alarm forcing the robber and his accomplice to take off on a motorbike.

Osman Warfa yesterday said lack of political goodwill had hampered security agencies' efforts to seize illegal firearms. **Page 35**

Mwea: Police are questioning a district commissioner accused of slapping a schoolboy. The boy was among demonstrators

a multi-billion-shilling bank scandal is seeking Sh1.92 billion from the government for whistleblowing. In a suit filed in a US court by Mr Peter George Odhiambo, who was hired by Charterhouse Bank in April 2003, he states that several accounts were operated illegally. **Page 9**

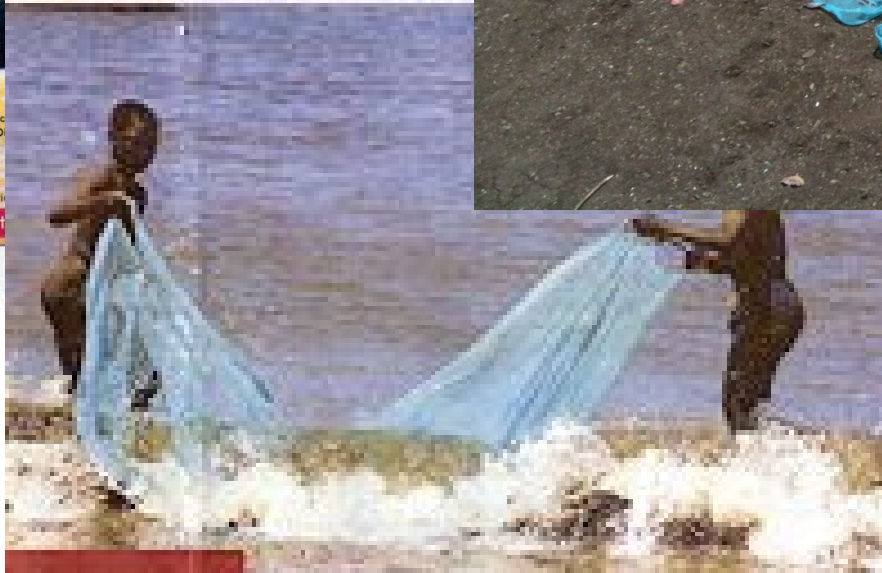


ISAAC WALE | NATION

This mosquito net is used for keeping chicken at a village in Shimiloli, Shinyalu constituency instead of being used to protect its owners from mosquitoes that transmit malaria.



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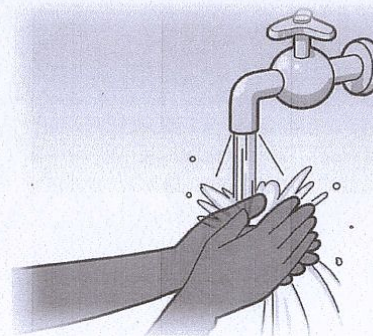
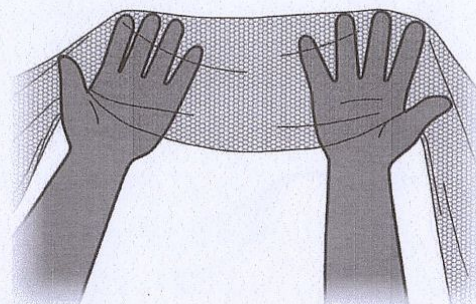
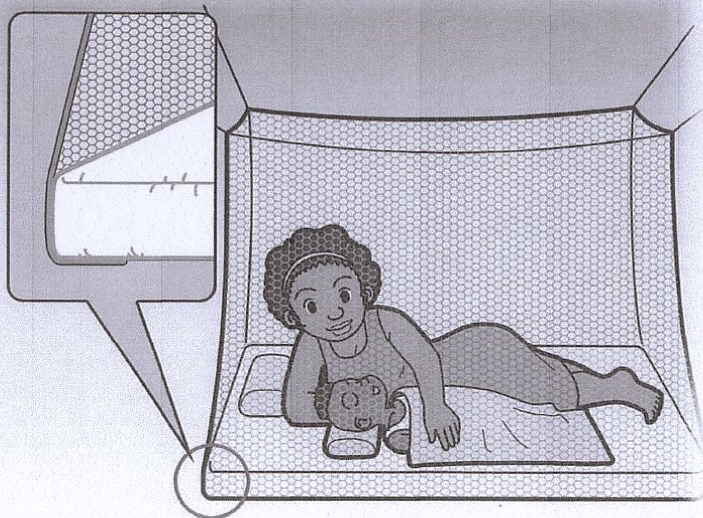
with Pat

②

<http://www.olyset-net.jp/download/whatisolysetnet.pdf>

Olyset 使用上の注意

Olyset Net を覆うように張って、ネットの下端を寝具など巻き込み、隙間のないようにしてください。



ネットに触れた手で食べ物に触らないでください。使用後は手を洗ってください。

 SUMITOMO CHEMICAL



✓ 毒性学、疫学、子どもの発達にかかわる専門家の意見の反映

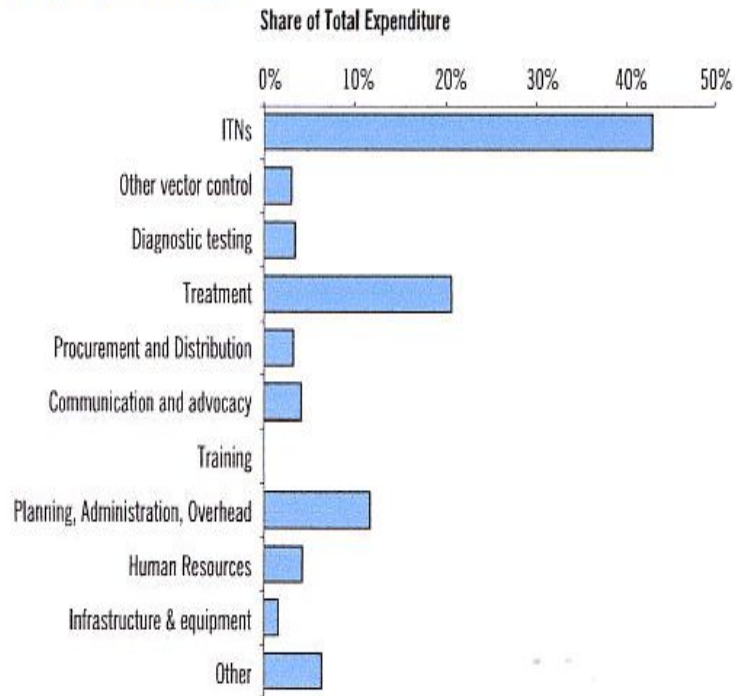
✓ 住民の声の反映



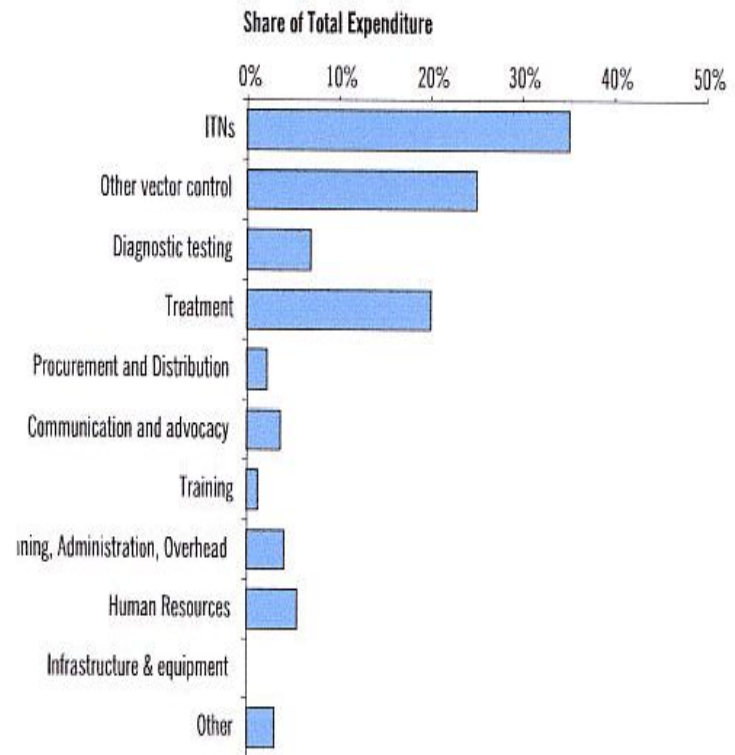
- ✓ 代替策
- 農薬の入らない普通蚊帳の配布
 - 衛生環境の整備
 - 子どもの栄養改善
 - 薬用植物の活用
 - IPM
 - ワクチン開発など



b) The Global Fund 2010



PMI Operational Plans 2011



Source: NMCP data, GF enhanced financial reporting system, PMI operational plans.