Contact tracing and Post-exposure prophylaxis

WHO guidance

Erwin Cooreman MD MSc DTM&H
Team Leader, Global Leprosy Programme
World Health Organization



Overview of presentation

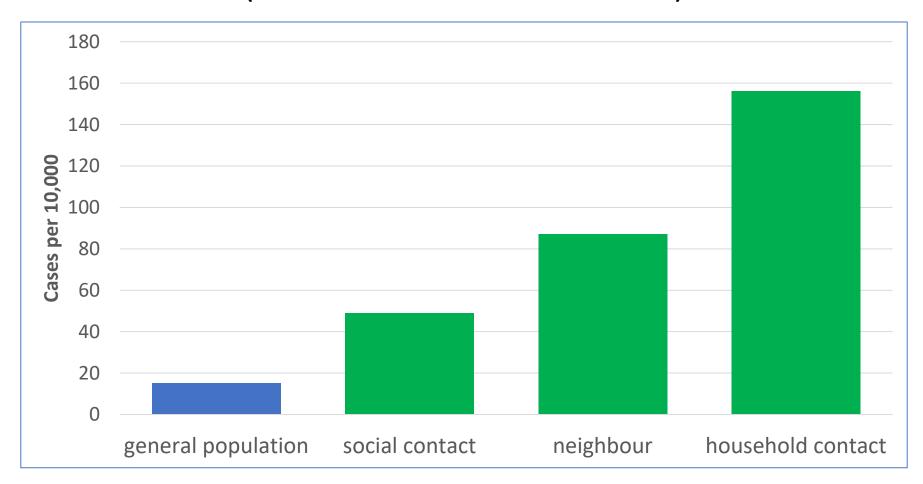
Part 1: WHO Guidelines ('what to do')

Part 2: WHO guidance document ('how to do')

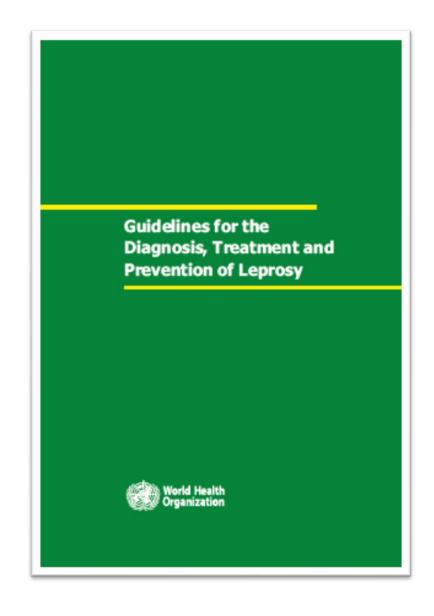


Risks for contacts to develop leprosy

(Moet et al. J Infect Dis 2006)



Part I WHO Guidelines



WHO guideline development

- Following GRADE mechanism
- Grading of Recommendations Assessment,
 Development and Evaluation
- Strictly described process: explicit, transparent
- Evidence-based
- Public health oriented



Handbook ^{6*}Guideline Development

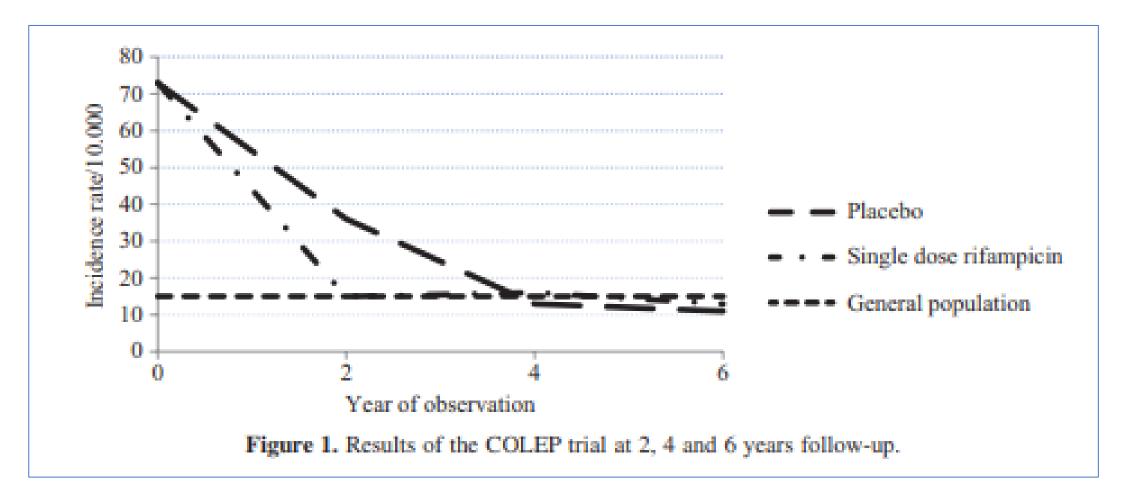
2nd edition

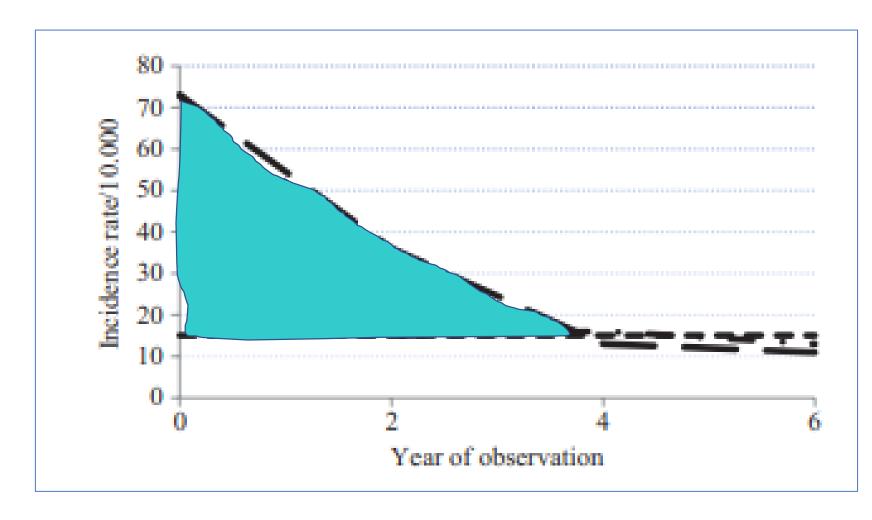


Chemoprophylaxis

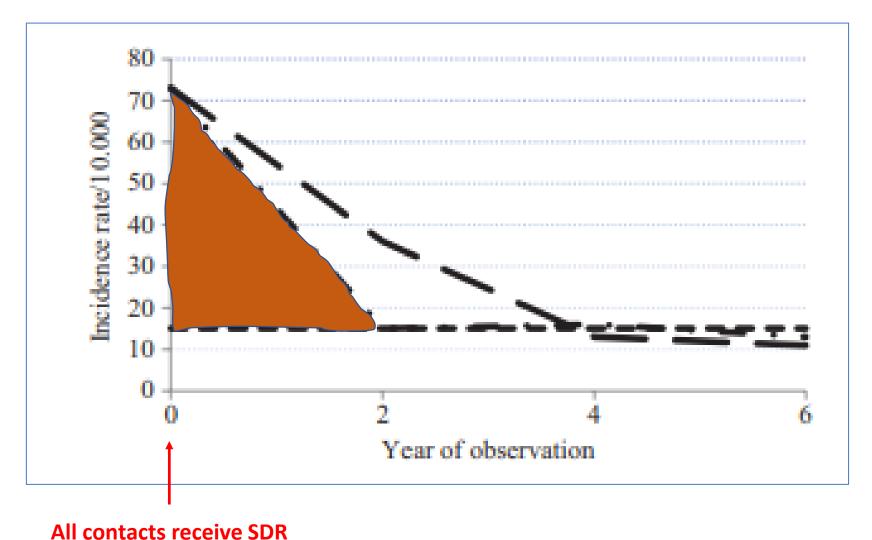
"Is there an effective and safe chemo-prophylaxis for prevention of leprosy?"

- Population:
 - Contacts of PB and MB (adults, children)
 - Population of endemic areas
- Intervention: SDR, post-exposure
- Comparison: no intervention
- Outcomes: disease, adverse events

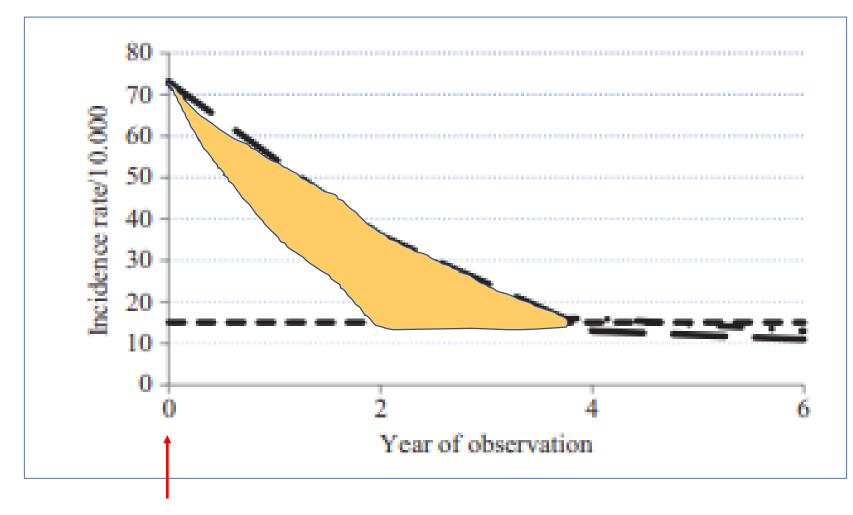




- Scenario 1: Leprosy among contacts who did not receive SDR
- Periodic follow up of contacts and treatment with MDT of cases among them
- Leprosy incidence reduces to level of general community transmission in four years



- Scenario 2: Leprosy among contacts who received SDR
- Periodic follow up of contacts and treatment with MDT of cases among them
- SDR for all eligible contacts
- Leprosy goes down faster to reach level of community transmission within two years and less cases emerged



- Leprosy cases among contacts averted with SDR
- No deferral of disease
- Efficacy: ↓57% risk after two years
- NNT to prevent one case:
 ~333

All contacts receive SDR or placebo



WHO recommendation on chemoprophylaxis

| Area of recommendation | Recommendation | Strength | Quality of evidence |
|--|---|-------------|---------------------|
| PREVENTION | | | |
| Chemoprophylaxis for contacts of leprosy cases | Single-dose rifampicin may be used as leprosy preventive treatment for contacts of leprosy patients (adults and children aged 2 years and above), after excluding leprosy and tuberculosis disease, and in the absence of other contra-indications. | Conditional | Moderate |
| | This intervention shall be implemented only by programmes that can ensure: (a) Adequate management of contacts; and (b) Consent of the index case to disclose his/her disease | | |



Chemoprophylaxis: SDR

Table 5. Rifampicin dose for single-dose rifampicin (SDR)

| Age/weight | Rifampicin single dose | |
|------------------------------------|------------------------|--|
| 15 years and above | 600 mg | |
| 10–14 years | 450 mg | |
| Children 6–9 years (weight ≥20 kg) | 300 mg | |
| Children <20 kg (≥2 years) | 10–15 mg/kg | |

- Feasibility study: The Leprosy Post-Exposure Prophylaxis (LPEP) programme: update and interim analysis (interim report): Lepr Rev (2018) 89, 102–116
- Approaches:
 - For contacts: need agreement of index case
 - Blanket approach: in areas of high endemicity, overcrowding
- SDR improves contact screening, rejuvenates programme



Part II

WHO technical guidance on contact tracing and chemoprophylaxis

In press



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- Supply chain management
- Recording and reporting
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- Annex 2: Consent form for index case
- Annex 3: Consent form for contact



















Contact Tracing & Screening



1 Identification of Index Case/s

Identification of index case(s), including address*, with mobile/ telephone number at the time of diagnosis or from the treatment register for cases detected earlier.



2 Counselling the Case

Counsel the case about the disease, its curability, spread, need for contact screening and possible prevention.





3 Consent for Disclosure

Seek consent of the case for disclosure.

If no consent, then no contact examination



5 Meet the Contacts

Home visit or by invitation to the health facility.



6 Counselling the Contact/s

Explain the importance of contact tracing and examination for finding additional leprosy cases at an early stage and possibility of providing Single Dose of Rifampicin (SDR) for the prevention of leprosy.



8 Examination of the Contact

Conduct physical examination of the contact, and repeat annually for five years.



/ Encouraging Self-Reporting

Encourage self-reporting of contacts who could not be checked during the screening, especially those who may have lesions suspect of leprosy.



Post-Exposure Prophylaxis







Counsel for Disease

After consent of the case for disclosure, follow the same steps as given in the box 'Contact Tracing & Screening'.

If no consent, then no PEP with SDR

BLANKET APPROACH



1 Advocacy with Authorities

Advocacy with health or civil authorities of the locality (consent of the index case may not be required)



Counsel the contacts or area population with regard to safety, side effects and usefulness of SDR

for Single Dose

of Rifampicin

(SDR)



4

Conduct Checks Before Dosage

Rule out active leprosy or TB.

Check for any other contraindication for SDR - liver or kidney involvement, age under 2-years, pregnancy



3

Consent for SDR

Seek consent of the contact or community member (in case of blanket approach) for SDR

If no consent, then no SDR



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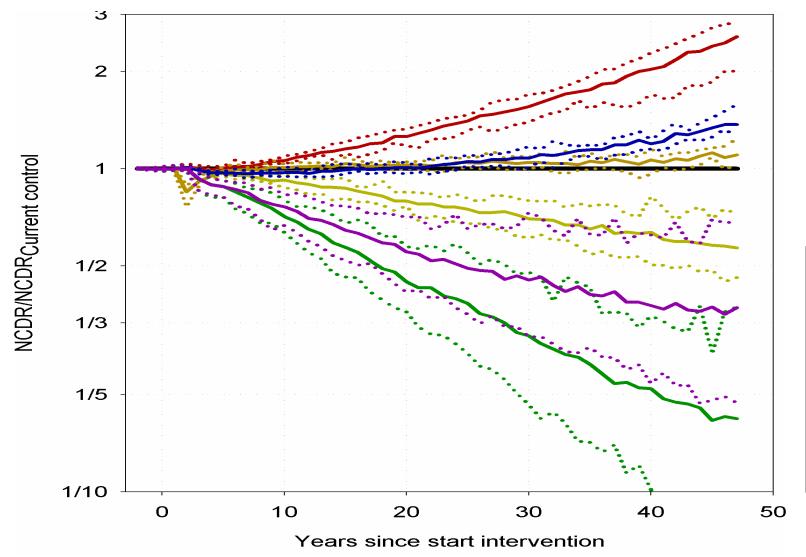
Keep Records

Record Name, Age, Address*, Date and Place of SDR administration (if eligible). If not, note reason of exclusion.

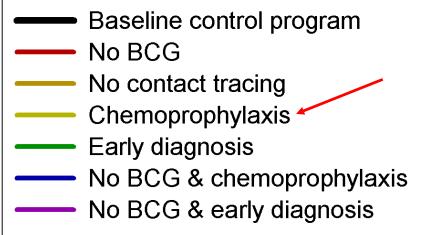


* Wherever feasible Geographical Positioning System (GPS) may be used.

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Different scenarios (modelling)



Contact tracing and post-exposure prophylaxis WHO guidance

Erwin Cooreman, WHO GLP

Country perspectives

Tanzania: Deusdedit V. Kamara, National Leprosy Programme

Colombia: Yesenia Castro, National Leprosy Programme

Ghana: Benedict Quao, National Leprsoy Programme

Perspective of persons affected

Tadesse Tesfaye, ENAPAL, Ethiopia

Paula S. Brandao, MORHAN, Brazil

Perspective of partners

Paul Saunderson, American Leprosy Missions

Blasdus Njako, German Leprosy and Tuberculosis Relief Association (Tanzania)

