

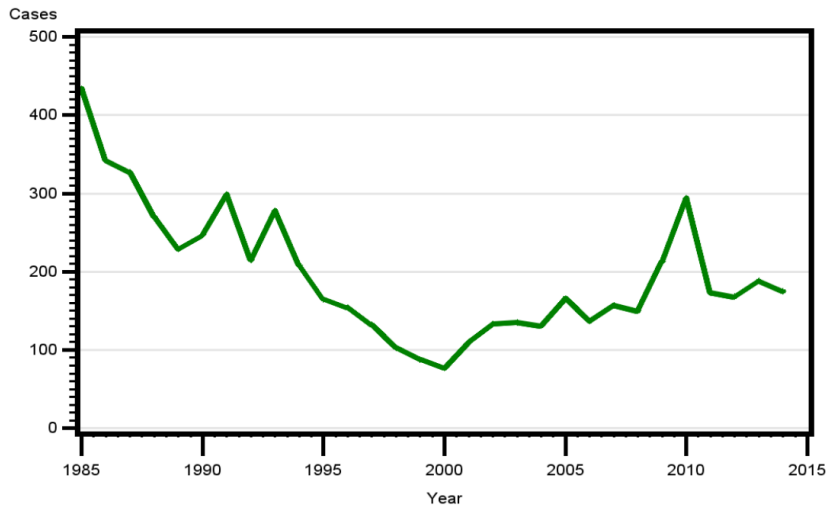
Neurologic Manifestations of Hansen's Disease

Eric W. Robbins

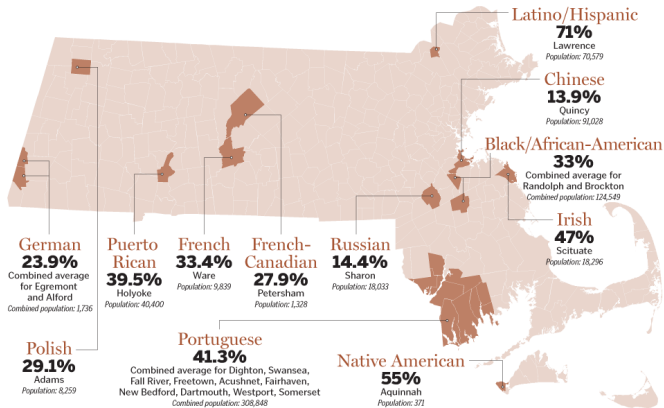
- 1 Why Care?
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 - Immunosuppression

Incidence—USA

- New US cases in 2015: 178
- 57% of cases born outside US
- Commonest states: TX, LA, AR, MS, FL
- Estimated total of 9,140 cases in US

Figure 1: U.S. Reported Hansen's Disease Cases by Year 1985-2014

Demographics in MA

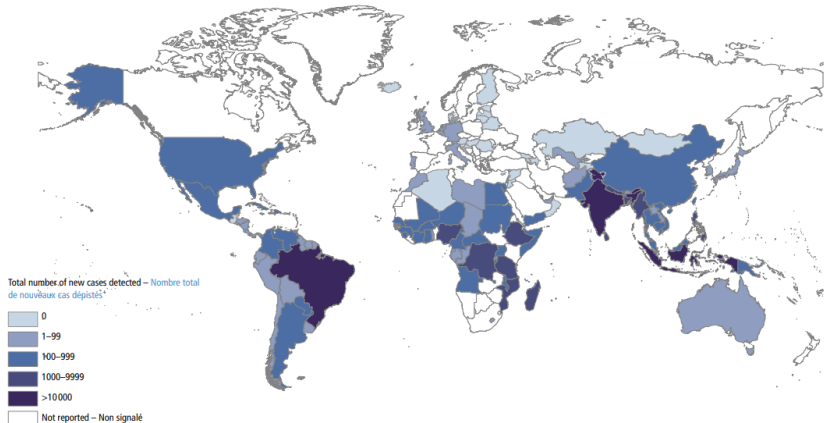


Incidence—Worldwide

REVUE ÉPIDÉMIOLOGIQUE HEBDOMADAIRE, N° 35, 1^{er} SEPTEMBRE 2017

Map 1 **Geographical distribution of new leprosy cases, 2016**

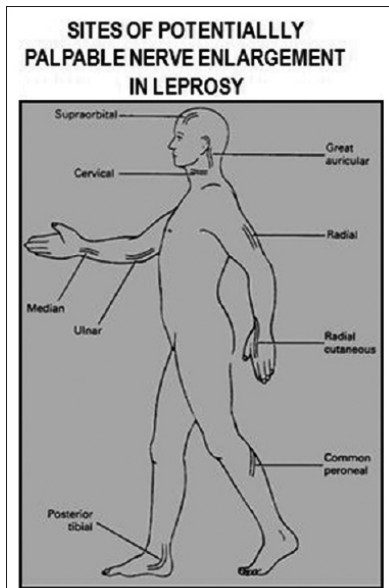
Carte 1 **Répartition géographique des nouveaux cas de lèpre en 2016**



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement. – Les limites et appellations figurant sur cette carte ou les désignations employées n'impliquent de la part de l'Organisation mondiale de la Santé aucune prise de position quant au statut juridique des pays, territoires, villes ou zones, ou de leurs autorités, ni quant au tracé de leurs frontières ou limites. Les lignes en pointillé sur les cartes représentent des frontières approximatives dont le tracé peut ne pas avoir fait l'objet d'un accord définitif.

Source: World Health Organization/ National leprosy programmes – Organisation mondiale de la santé / Programmes nationaux de lutte contre la lèpre

Sites of Manifestation



Palpable (and Visible) Neuritis



Palpable (and Visible) Neuritis



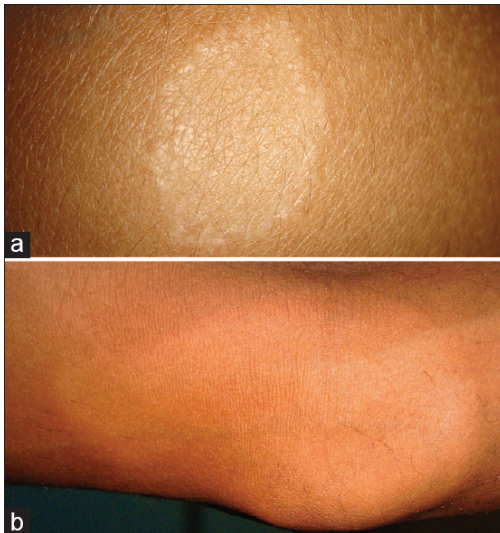
Multiple Nerves



Facial Nerve Palsy



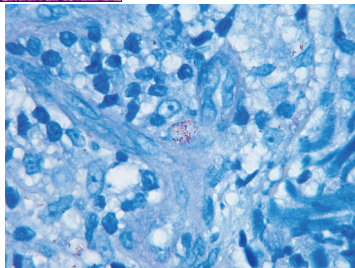
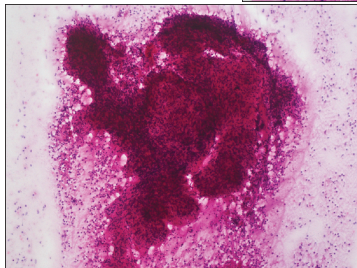
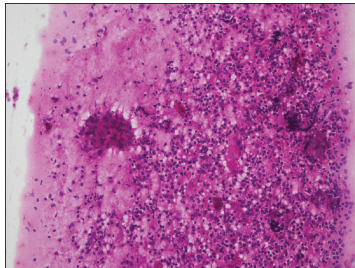
Anesthetic Hypopigmented Plaques



Erythema Nodosum Leprosum



Findings on Biopsy



Treatment—Antimicrobials



Images from: WebMD.com, Buy-Pharma.md

Treatment—Neuritis

- Type 1 Reactions (a.k.a. reversal reactions)
 - First line: prednisone 40–60 mg/day
 - Second line: cyclosporine
 - Unable to take steroids: MTX
- Type 2 Reactions (a.k.a. ENL)
 - Erythema nodosum leprosum

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