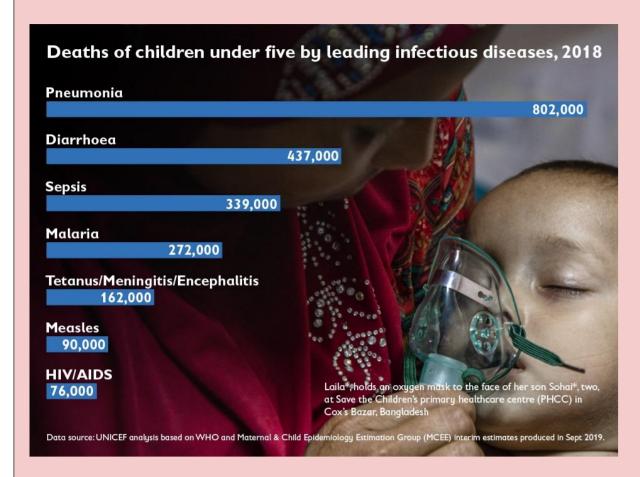
New Pneumonia Prevention in Developing Countries ~A Future for All Children with a Vaccine Patch~ Gunma Chuo Secondary School SGHN019

Introduction

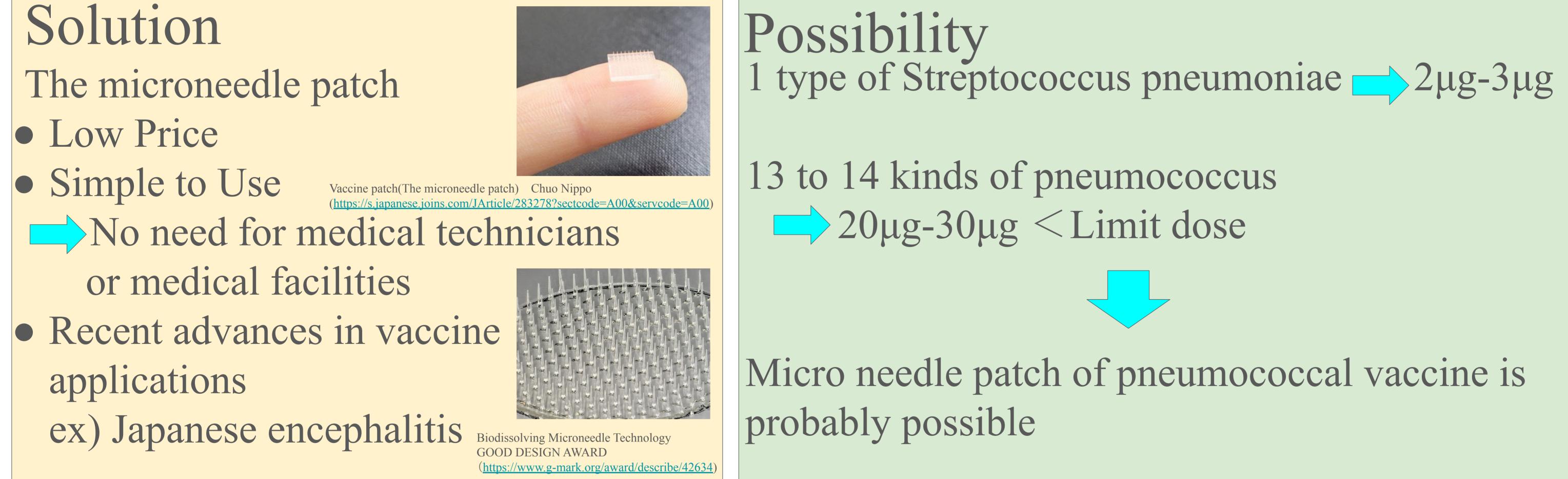


Deaths of children under five by leading infectious diseases, 2018 (https://www.savechildren.or.jp/scjcms/sc_activity.php?d=3088)

Pneumonia is the leading cause of the death of children under the age of five. The vaccine aginst it has not become widely available.

What measures should be taken to disseminate the pneumonia vaccine in developing countries?

Problems (1)Heat Sensitive Vaccines need to be stored at low temperatures, which makes transportation and storage costly. (2) The Shortage of Doctors The injection requires medical technicians to administer the vaccine in spite of the shortage of doctors. (3) The Small Number of Medical Facilities The access to medical care is difficult



Make Pediatric Pneumococcal Vaccine into Microneedle Patches



Suggetion

[In case of the vaccine of Covid-19]

