

COHRED

THE COUNCIL ON HEALTH RESEARCH FOR DEVELOPMENT

Thanks to national health research...

Brazil discovered Chagas disease

Carlos Chagas discovered American Trypanosomiasis (Chagas disease) in 1909.¹

India developed Oral Rehydration Therapy (ORT)

HN Chatterjee published the first human study of ORT in 1953.²

Chile led the development of the first copper intrauterine contraceptive device (IUD)

Jaime Zipper Abragan and Howard Tatum developed the first copper IUD in 1969.³

China developed Artemisinin for the treatment of malaria

Chinese researchers isolated Artemisinin from a traditional Chinese fever remedy in 1972.⁴

Sudan altered its malaria treatment protocol

Using national research on resistance to Chloroquine, Sudanese policy makers altered their national programme in 2004 to provide the Artemisinin-based combination therapy as first and second line treatments.⁵

Cuba developed the first Meningitis B vaccine

VG Sierra and HC Campa published the first randomised controlled trial of their Meningitis B vaccine in 1991.⁶

Thailand built up the evidence to inform its national health reforms

Health research and good research management played a pivotal role in the reform of the Thai health system. Research is one of eight pillars of the new system and is considered central to efforts to implement, monitor and evaluate further reforms.⁷

¹ Reference: Chagas, C. Nova espécie morbida do homem, produzida por um Trypanosoma (Trypanosoma cruzi): Nota prévia, *Brasil Médico* 23: 161, 1909.

Chagas, C. Nova tripanozomíase humana. Estudos sobre a morfologia e o ciclo evolutivo do Schizotrypanum cruzi n.g., n.s.p., agente etiológico de nova entidade mórbida no homem. *Mem. Inst. Oswaldo Cruz* 1: 159–218, 1909.

² Source: Sack BR. History of the development of oral rehydration fluids. *JJMA* 2003; 101: 360–365.

Reference: Chatterjee HN. Control of vomiting in cholera and oral replacement fluid. *Lancet* 1953; ii: 1063.

³ Source: Thiery M. Intrauterine contraception: from silver ring to intrauterine contraceptive implant. *Eur J Obstet Gynecol Reprod Biol.* 2000;90(2):145–52.

Reference: Zipper J, Tatum HJ, Pastene L et al. Metallic copper as a complementary adjunct to the 'T' intrauterine contraceptive device. *Am J Obstet Gynecol* 1969;15:1275.

⁴ Source: van Agtmael MA, Egglelte TA, van Boxtel CJ. Artemisinin drugs in the treatment of malaria: from medicinal herb to registered medication. *Trends in Pharmacological Science* 1999;20: 199–205.

⁵ Source: National Malaria Control Programme. *The national protocol for the treatment of malaria*. Khartoum: Republic of the Sudan, Federal Ministry of Health, 2004.

⁶ Source: Perez O, Lastre M, Lapinet J et al. Immune response induction and new effector mechanisms possibly involved in protection conferred by the Cuban anti-meningococcal BC vaccine. *Infect Immun.* 2001;69(7):4502–8.

Reference: Sierra GV, Campa HC, Varcacel NM et al. Vaccine against group B Neisseria meningitidis: protection trial and mass vaccination results in Cuba. *NIPH Ann.* 1991;14(2): 195–207.

⁷ Source: Phoolcharoen W. *Quantum leap: The reform of Thailand's health system*. Bangkok: Health Systems Research Institute, 2004.