After Venus, mercury: syphilis treatment in the UK before Salvarsan

At the beginning of the twentieth century, the treatment of syphilis varied substantially in the UK. Two of the commonly used treatments—mercury and bismuth—were often used for long durations, which prompted the public health warning, ‘two minutes with Venus, two years with mercury’. Beyond this variation in treatment, venereology itself was a topic taught to generalists rather than specialists. Moral condemnation attached to those with syphilis, whose illness was often considered self-inflicted. Patients themselves, fearful of public scrutiny and stigma, often turned to quacks rather than face public clinics. Because UK hospitals refused to treat diseases considered to be self-inflicted, venereal diseases such as syphilis were excluded from the National Health Insurance scheme. Patients did not receive financial assistance for their treatment. Despite multiple calls for a national commission on venereal diseases, no coherent strategy to convene one occurred until a new treatment galvanised the field: Salvarsan.

In 1909, German scientist Paul Ehrlich ushered in a new era of disease-specific cures, or chemotherapies, with his antisyphilitic drug, Salvarsan. Already a Nobel laureate for his immunology research, in the first decade of the twentieth century, Ehrlich focused on developing a ‘magic bullet’ a disease-specific chemotherapy. During this era, interest in laboratory medicine was on the rise following the discoveries of Louis Pasteur and Robert Koch, priming the scientific and popular community for a laboratory science breakthrough. In Ehrlich’s laboratory, early rabbit trials were followed by the first clinical trials in 1910. Within a year after issuing the first clinical reports, Ehrlich had distributed 65 000 doses of Salvarsan for the treatment of syphilis. Clinicians from around the world flocked to Germany for the opportunity to meet Dr. Ehrlich and receive the new wonder drug for their patients with syphilis. In the UK, Alexander Fleming was the first to employ Salvarsan, pioneering work in syphilis care that foreshadowed his later discovery of penicillin.

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