palliation to successful transplantation as well as a possible alternative treatment to transplantation in selected children and adults. Quality of life and cost analyses, as well as longer follow up studies are needed to determine the best treatment for patients with primary pulmonary hypertension.

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**STAMPS IN CARDIOLOGY**

**Ferdinand Sauerbruch (1875–1951)**

Germany (West Berlin) issued this single 50 pfennig stamp in 1975 to commemorate the centenary of the birth of Sauerbruch. Other medical personalities occasionally featured on stamps from West Berlin have included Virchow (1952), von Humboldt (1952, 1985), Koch (1960), and von Graefe (1978).

Ferdinand Sauerbruch was a great pioneer of both thoracic and cardiac surgery who worked first in Zurich and Munich and then from 1928 at the Charité Hospital in Berlin. He invented inflow occlusion of the heart as a way of making it easier to suture cardiac lacerations. His method, described in 1907, was to compress the base of the heart and the venae cavae with two fingers of the same hand, or to press on the right heart with the thumb and finger. In 1912 he performed pulmonary embolectomy using the method described in 1908 by Trendelenburg. As was usual with this operation, which was still being done 20 years later, his patient died. In 1913 he was the first surgeon to resect the pericardium for constrictive pericarditis and, despite his concern that he had freed only the right ventricle, his patient was well 11 years later. In 1931 he became the first to operate, albeit by mistake, on a cardiac aneurysm. The patient had a mediastinal mass which spurted blood into his face when it was incised. He inserted a finger and found a hole surrounded by a resilient ring beyond which was a cardiac chamber which seemed to be the right ventricle. He closed the hole with silk sutures “tying knots we could not see”. The patient made a complete recovery. But perhaps he is best known for the remarkable differential pressure chamber which he devised in 1905 and which permitted the thoracic cavity to be opened without the lung collapsing. Initially his chief, Professor von Mikulicz, called him a charlatan, but later he fully supported his work. Laurence O’Shaughnessy, the British pioneer of cardiac revascularisation studied under him. Sauerbruch’s autobiography in 1953, *A Surgeon’s Life*, reveals a dynamic man, with deep concerns for his patients and colleagues. It is full of interesting stories ranging from a chest operation on the daughter of Lord Cavendish-Bentinck, removing a tooth from the young Lenin, who could not afford a dentist, to exciting Hitler’s jealousy by making friends with the dog Hitler thought was devoted to him.

M K DAVIES
A HOLLMAN