**Reason for optimism**

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Peter Doshi

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Home haemodialysis

UK nephrology misunderstood

Blagg criticises the UK renal community for lagging behind some other high income countries in the proportion of patients receiving home haemodialysis (HD).

A generation of UK nephrologists was forced, by lack of facilities, to give patients a stark choice between home HD, home peritoneal dialysis, or death. As hospital and satellite dialysis facilities have expanded, the proportion of patients receiving home based treatment has rightly reduced. Whether that reduction is due to poor availability or to free choice between home HD and other options remains open to question.

Many patients perceive no advantage of home HD when the alternative is a local satellite dialysis unit. Patients receiving satellite or hospital based HD can also control many aspects of their own treatment. What the “correct” proportion should be cannot be based on comparisons with Australia and New Zealand, where for reasons of geographical dispersion, home HD remains the only viable option for many patients. Provision of home HD requires a community team of nurses and technologists. Some UK units therefore choose to refer their patients to a neighbouring unit for home HD rather than run their own home HD programme; this is not evidence in itself that suitable patients are not offered home HD.

Policy in the UK supporting the use of home HD is set by the Departments of Health and the National Institute for Health and Clinical Excellence (NICE). UK nephrologists fully agree that home HD should be offered to all suitable patients, but they have doubts that the NICE target—15% of all HD should be performed at home—is based on good evidence. Similarly, whereas they are enthusiastic about daily short hours or nightly long hours HD, this treatment is not endorsed by national policy or by NICE—largely because there is not, at this point, sound evidence of benefit.

Author’s reply

Selection bias has an important role, but almost all reports on quality of life have shown the benefits of home haemodialysis (HD), and patients are vocal about the advantages they have experienced. Even if survival is no better, surely willing and suitable patients should have access to a treatment that provides, for example, opportunity for longer or more frequent dialysis, improved quality of life, rehabilitation, and flexibility of scheduling? In terms of urbanisation, Australia ranks 19th in the world (91% urbanisation) compared with the UK, which is 20th (90% urbanisation), and New Zealand, which is 32nd (86% urbanisation). On the basis of their registries, the rates per million for HD, peritoneal dialysis, and transplantation are also similar—303, 85, and 317 in the UK; 330, 88, and 322 in Australia; and 277, 176, and 302 in New Zealand.

Missing facts, different countries

Blagg states that home haemodialysis (HD) is cost effective. In the United States, where there is less likelihood of receiving a cadaveric transplant than in the United Kingdom (45% v. 30%), the economics are different. In the United Kingdom the break even point on the set up and running costs of home HD v in-centre HD is about two years. Analysis of data from the UK Renal Registry shows that within 20 months of starting, half of the patients receiving home HD would have received a kidney transplant. This makes the cost neutral point towards 3-4 years.

It will always be difficult to show that home HD improves survival as patients on the home HD programme in any renal unit are always highly selected. They are unlikely to have any comorbid conditions and have good fistulas (not central lines). It is difficult even with age matching to allow for all these selection factors in matching a similar cohort.

Short daily dialysis is a separate (and more costly) entity than standard home HD requiring specific equipment and is currently undergoing evaluation in the UK.

The high rates of home HD in New Zealand are related to some specific factors in their healthcare system but do not imply a free choice. The UK also has a larger peritoneal dialysis programme than the US and other EU countries. In those countries some patients receiving home HD may rather have chosen peritoneal dialysis. All these factors increase the complexity of any international comparison.

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Competing interests: None declared.