October 1999

Sustainability of Prosthetic and Orthotic Programs

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by Michael A. Boddington, POWER

This paper examines the overall incidence of disability and, specifically, of motor-disability in low-income countries of the world. It observes the attitude of society toward those suffering from disabilities, and argues that there is a need for long-term support for services to the motor-disabled by the international community. In order to generate this support, low-income countries must develop highly efficient services that minimize the call on international resources. Such services are likely to be outside government. They will be within private nonprofit organizations: ring fenced, transparent, and capable of regular audit.

Motor-Disability in the Low-Income World

POWER was established to provide high-quality prosthetic and orthotic devices to the victims of conflict, mostly to those who had lost limbs as a result of the plague of landmines. Over the years, we have come to reassess our priorities. There is a huge global population of disabled people. Einer Helander has reported on surveys carried out in 55 countries between 1976 and 1994, suggesting that the rate of disability can vary from 0.2 percent to 21 percent. Much of the variation comes from poor definition of disability. There are problems of definition and survey method, but broadly speaking the conclusions that most of these are dependent on others to one degree or another. Helander expects this figure to apply to 210 million people in low-income countries.

Helande'r's estimates of the causes of disability are not broken down by the standard groupings employed by WHO. However, I have allocated six of his categories of disability to motor-disability and derived a percentage, which I have then applied to the figure of 210 million derived above. The result suggests a population of motor-disabled of about 125 million people in the low-income world.

Figures generally quoted for the number of landmine survivors suggest that there are about 250,000 to 300,000 surviving amputees. There are thought to be 25,000 new victims every year of whom about half die and the remainder are left severely impaired. Given that a number of those who have been previously afflicted will die from various causes during any one year, the total number of landmine survivors is unlikely to increase by more than about 5,000 to 10,000 per annum.

Tribes as the landmine plague is, and the plight of landmine survivors, we cannot expect to treat them in isolation. We must treat amputee landmine victims within the overall context of motor-disability.

Disabled People in Society

This paper is concerned with the problem of disability in low-income countries. My observation of people with disability is that they are marginalized. If one comes from a Dwarvish stable, then the reasons for that marginalization are understandable. Survival of the fittest requires that species reject less able-bodied specimens. We can note behavioral patterns amongst other species that support this thesis. Mankind, however, lives in a different social and cultural paradigm in which life is valued for its own sake and we are able to recognize the contribution of all human lives. We also recognize and defend the rights of all humanity to certain basic norms of existence.

Despite our intellectual capacity to recognize that many of the world's countries have very limited resources and huge demands on those resources. The provision of services for motor-disabled people is not a priority. Even where overseas funding is received for the service, it can easily be diverted to other purposes.

The second reason is that staff salaries within government services are frequently very low: consecutively, most of the services, and staff eventually leave. It is tragic to spend eight or 10 years developing a service, with the provision of well-trained and competent staff, only to see that advantage whirled away as qualified personnel leave to join other industries or leave the country.

The solution to these problems is to create a body that can continue the service outside government. This body may be a local NGO, and it may be a partnership between public and private organizations. It will be a nonprofit establishment. This model has been devised by a group of international experts—many of them from the low-income world—at the 1997 Helsinki on Thanes Technical Workshop.

The workshop came together to attempt to define a model or models that will deliver high-quality services for the rehabilitation of disabled persons in low-income countries on a sustainable basis.

The Mozambique Experience

The International Committee for the Red Cross (ICRC) established or developed four ortho-prosthetic centers at Maputo, Beira, Quelimane, and Nampula during the 1980s. A part of the Maputo center is a manufacturing facility, making prosthetic and orthotic components, chiefly from polyprop.
come within the POWER management, and this proved a considerable drawback. A requirement of the contract with USAID was that POWER would establish a local NGO and place the management of the four centers within this organization. In the event this did not prove possible.

Last year, POWER completely renegotiated its agreement with MISAU, withdrawing from direct involvement in the four centers. Mindful of the reasons for services failing, POWER has agreed with MISAU to continue providing materials for the manufacture of limbs, both to the four centers for which it had responsibility, as well as to those that HI established.

POWER is also undertaking considerable training activity to strengthen management and professional capacity in the centers. Two Category II prosthetists/orthotists will attend a four year course in Strathclyde University, Glasgow, Scotland, to upgrade to Category I. Meanwhile, HI has arranged for three staff members to attend a course in Laos, France, to upgrade to Category I. Thus, of the Category II prosthetists/orthotists, five will be overseas training from September onward. In addition, one has been promoted to an administrative position, one has been fired, and one has moved occupation. Only 16 will be available in the upcoming year to service the requirements of the 10 centers.

Absolutely central and critical to POWER's new program is an agreement with the Associação dos Deficientes Mozambicanos (ADEMO), to strengthen its management and financial capacity, and to jointly initiate the Council for Action on Disability (CAD) which, it is hoped, will eventually take over POWER's program in Mozambique. CAD is open to any organization working for the benefit of the disabled in Mozambique to join, and five or six organizations currently attend board meetings as observers. Also central and critical is the development of a new ortho-prosthetic center in Chimoio, Manica province. This will be within the private, nonprofit sector and will be managed by CAD. It is intended that this center will lead the way in demonstrating that high levels of productivity and quality can be achieved when staff are properly and fully incentivized.

In 1999, the Mozambique Red Cross Society (MRCS) is opening a center in Manjacaze in Gaza province, with support from the Jaipur Limb Campaign and the Diana Princess of Wales Memorial Fund. The center is in the private, nonprofit sector and will fit Jaipur Limbs, using staff trained in the technique in India.

It is now MISAU policy to maintain one ortho-prosthetic center in each of the 10 provinces. The center at Vilanculos in Inhambane province is to be closed down. With the opening of the POWER center in Chimoio, Manica province, and the MRCS center in Manjacaze, Gaza province, this policy will be fulfilled.

It is the responsibility of the Ministry for Coordination of Social Action (MICAS) to make patients aware of the availability of prosthetic and orthotic services and to assist their journeys to the centers. MICAS has a number of a transit centers, where patients can stay free of charge while they are receiving treatment at the centers. Currently, this system is not working well, largely as a result of an inability of MICAS to resource its responsibilities. MICAS also undertakes a means test of all patients and makes charges appropriate to their circumstances for the services that they receive.

I believe that the service in Mozambique is now moving slowly towards the optimum. The establishment of CAD and the collaboration of organizations working for the service of disabled people are huge steps in the right direction. The development of centers in the private, nonprofit sector will give excellent opportunity to make comparisons between services delivered through the public sector and those available within the private sector.

Conclusions

• There is a huge number of motor-disabled throughout the low-income world.
• Landmine survivors represent a small proportion of this number, and their treatment must be subsumed within the broader need.
• Disabled people in general are marginalized and their needs are rarely met, either in whole or in part, by state provision.
• If the needs of the motor-disabled in the low-income world are to be met, it will tend to be as a result of financial support from the international community.
• Such financial support is likely to be required for the very long term.
• In order to minimize the demand on international financial resources, it is necessary to set up effective and competent services within the low-income world.
• Such services are not likely to be within government; the best model will be in the private, nonprofit sector whenever possible in partnership with government.
• Mozambique can provide a model for the rest of the world.