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that their country did not have a road sign warning of elderly, disabled, blind, or deaf people. Of the 118 countries for which we obtained information, 35 (30%) had a road traffic sign featuring one or more of the elderly, blind, deaf, or disabled categories (table).

Comment
In the 1960s the Worboys committee suggested that road traffic signs should be predominately symbolic, because they are clearer from a distance.\(^1\) Only eight countries that replied had a sign representing older people (table). The Namibian sign illustrated a generic picture of a pedestrian with the words “elderly people” below (fig 2). This avoids stereotyping, but the sign may not be as quickly or easily recognisable to the speeding motorist. The Australian sign has a caption only (fig 3).

Most (24/30) signs warning of disabled people were derived from the internationally recognised pictogram of a person using a wheelchair (a seated person on a wheel; fig 4). Although many patients with disabilities do not use a wheelchair, this is an easily recognisable sign.

All seven countries that had a sign representing deaf people used the internationally accepted logo of a round yellow symbol containing smaller black discs in a triangular formation (fig 5). We feel the meaning of this sign is not widely known.

Sixteen countries had road signs warning motorists of blind people in the vicinity. A popular sign, particularly in the eastern bloc, illustrated a pair of “John Lennon style” glasses (fig 6). Although many blind people do not wear these glasses, this symbol is informative and probably unobjectionable. A white stick also symbolises blindness; the Bangladeshi sign portrayed a stick (fig 7).

Many replies suggested that secondary inquiries had been made. However, we cannot corroborate this, and our study may be limited by the accuracy of the respondents.

People should not be stigmatised on road traffic signs, but signs must be clear and easily recognisable. Perhaps an international agreement on the content and style of such road signs is needed to meet these criteria. Before new designs and standardisation are embarked on, however, research is needed to see if such signs improve the safety of these pedestrians.

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How long did their hearts go on? A Titanic study
James A Hanley, Elizabeth Turner, Carine Bellera, Dana Teltsch

Several studies have examined post-traumatic stress in people who survive disasters but few have looked at longevity. The 1997 film Titanic followed one character, apparently fictional, but the longevity of the actual survivors, as a group, has not been studied. Did the survivors of the sinking of the Titanic have shortened life spans? Or did they outlive those for whom 14-15 April 1912 was a less personal night to remember?

Subjects, methods, and results
We limited our study to passengers. We used data from biographies listed in Encyclopedia Titanica, a website that claims to have “among the most accurate passenger and crew lists ever compiled.” Of the 500 passengers listed as survivors, 435 have been traced. We calculated the proportion alive at each anniversary of the sinking.

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The largest groups travelling in first and second class were North American or British; most of those in third class were emigrating from Europe to the United States. Unable to find a comparison group with the same mix of backgrounds and selection factors, we created two “next best” comparison groups from available data. We calculated what proportions of an age and sex matched group of white Americans alive in 1912 would be alive at each anniversary. To do so, we converted current (cross sectional) life tables for the years 1912–2000 into cohort life tables. We created a second comparison group from life table data for Sweden, which was already in cohort form. Longevity differences were assessed by log rank tests.


Longevity differences were assessed by log rank tests. The survival of the 435 passengers was slightly, but not significantly, longer than that of the two comparison groups (figure). On average they lived 1.7 years longer than the general population of the United States, 1929–31 to 2000. In: United States life tables, 2000. National vital statistics reports 2002;51(No 5):26–7. (DHHS Publication No (PHS)2003–1120 02-5644 (12/92))

Comment

The longevity of Titanic survivors who could be traced was not remarkably different from that of age and sex matched individuals in the general population. The available life table data did not allow us to match on social class. Nevertheless, those who travelled third class had similar survival to our comparison group. We therefore wonder why males (and maybe even females) in first and second class did not fare considerably better than the general population.

Although unable to find the perfect comparison group, we avoided errors made in other longevity comparisons. For the comparison group, we calculated the remaining lifetimes of people alive in 1912. Since age specific death rates fell substantially during the 20th century, we calculated these remaining lifetimes using the 1912–2000 death rates.

In the closing song of the 1997 film, the heroine tells us that her heart “must go on and on” and tells us twice more that it “will go on and on.” The Titanic survivors did not have shorter life spans than the general population. Nor did they, despite the determination implied by the lyric, substantially outlive them.

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