Endoscopic palliation of tracheobronchial malignancies

I read with interest the review by Drs M R Hetzel and S G T Smith (May 1991;46:325-33). I think that cryotherapy is almost unknown in England, and used in only one centre.

There are some errors regarding cryotherapy. The bronchial probes now use nitrous oxide and not liquid nitrogen. The temperature obtained on the tip of the probe reaches -70° (or -80°C) but the tumour or tissues are frozen at -40°C. No cases of perforation have been reported with this technique. Flexible probes were not described by Sanderson; he used rigid cryosurgical probes (but it was the first to use flexible probes in 1985). The authors say that no comparative studies of laser treatment and cryotherapy have been published but there is one study in a French journal, and others. This technique is well known in France and used more widely than laser therapy. There are at the moment 75 cryotherapists and 1500-2000 patients have been treated.


AUTHOR'S REPLY I thank Dr Homann for his helpful comments. We tried to give a balanced view of endoscopic palliation techniques and I believe that this has been the most comprehensive review to date. Clearly, the space available for individual techniques was limited. Our review was primarily intended for British readers, among whom cryotherapy has been less popular than laser photoresection.

The papers cited by Dr Homann make the additional point, which we should have included, that the response to cryotherapy is relatively slow. This is clearly a disadvantage in severe airways obstruction, where an immediate response may be achieved with the laser. The greater safety claimed by cryotherapists might therefore be of interest. In fact, presumably, they cannot treat the most severe and life threatening obstructions, which are also likely to carry the greatest operative risk.

The comparison of laser and cryotherapy quoted is interesting, but only eight patients were included in each treatment group. They were apparently selected by the authors as most suitable for one or other technique. Although the cryotherapy group apparently did better, only two of the five laser failures subsequently benefited from cryotherapy. Studies like this are clearly desirable, but we need much larger numbers and no bias in patient selection if useful comparisons are to be made.

I would like to have heard Dr Homann's views on our point that, although cryotherapy is claimed to be safer, several initial treatments are given by the cryotherapists as opposed to the single treatment used by most laser bronchoscopists. This still seems to be an important disadvantage for patients with very limited survival, who might perhaps prefer a possibly higher operative risk with laser resection if fewer admissions for treatment were required than is apparently the case with cryotherapy.

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Pulmonary function in chronic renal failure: effect of dialysis and transplantation

We read with interest the pulmonary function data compiled by Drs A Bush and R Gabriel for patients with renal transplants and patients with chronic renal failure (June 1991;46:424-8). The authors' proposal that lung function change in the groups with chronic renal failure resulted from pulmonary oedema would be consistent with the published data on patients with chronic congestive cardiac failure. For example, Wright et al have described diffusion impairment in 31% of patients awaiting heart transplantation and as many as 67% of their patients have diffusion abnormalities if those who also have restrictive and obstructive change are included.

The suggestion of a reduction in carbon monoxide transfer factor (TLC0) in patients with renal transplants is not new. Reduced TLC0 has been described in recipients of cadaveric renal allografts during acute cytomegalovirus infection, who were compared with 12 control patients with renal transplants. It has been suggested that there is a causal relation between complement activation and the TLC0 change in these patients with cytomegalovirus infection. Do Drs Bush and Gabriel have information on whether their patients with renal transplants were infected with cytomegalovirus?

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AUTHOR'S REPLY As we acknowledged, a reduction in carbon monoxide transfer factor after successful cadaveric renal transplantation has been described before and has been related to opportunistic infection. Both these groups studied patients less than a year after transplantation. The new findings in our study were the reduction in carbon monoxide transfer factor and residual volume in well patients many years after transplantation. Of the seven patients studied who had two years after the procedure, four had a low total lung, and four had a low TLC0 per litre of accessible lung volume (defined as below 85% predicted in all cases). Unfortunately, we do not have the detailed information on cytomegalovirus status recorded by van Son et al, nor could we relate the changes to number or type of overt infectious episodes after transplantation. Ours was a cross sectional study; a longitudinal study, with detailed microbiological assessment, is needed to address the relation of opportunistic infection to changes in lung function.

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Siliosis in a Himalayan village population: role of environmental dust

We read with interest the paper by Dr T Norboo and others (May 1991;46:341-3), which reports for the first time progressive massive fibrosis of the lung, in the patients, as a result of environmental dust exposure.

One patient was a woman farmer; the sex and occupation of the other two patients were not given. Environmental silica, unlike occupational silica, was thought until recently to be free of fibrinogenic activity. We have seen a Saudi bedouin woman who developed progressive massive fibrosis (conglomeration fibrosis over 1 cm seen on computed tomogram) as a complication of desert lung. As this occurred in a woman and has not been reported in men (who have the same exposure to environmental dust) we believe that occupation could have played a part. Our patient was regularly engaged in household chores, such as grain grinding and floor