

used and not for debate may drive support elsewhere in Europe and to us.

J P GRIFFIN
F O WELLS

British Pharmaceutical Industry,
DV

J D SWALES
K B SAUNDERS

Medical Professors of Medicine,
Medicine,
etal,
KE

ig whether to be a doctor

te with M J Kelly's views that sixth
nts need expert help in deciding
mbark on a career in medicine. For
years I have run a course at a large
ge with the specific aim of educating
edical students about the life doctors
they can make an informed choice
uture career.

se runs for two hours a week over 10
cludes information about courses,
e specialist training, the nitty gritty of
ly work, and interview technique with
ne for discussion. I include half hour
ssions for students, aimed particularly
em to evaluate whether they really do
a doctor. The students greatly appre-
ank discussion and game techniques
get the point across.

idents whom I have seen, five subse-
ided to pursue another degree course.
bright, most expecting to get AAA or
at A level, but most have little idea of
s do apart from what they have seen on
rogrammes. They usually want to be
ne wanting to be general practitioners,
ve no idea of the huge range of careers
icine. I encourage them to get work
for example, in a hospital or old
ne—and to talk to their general practi-
college also runs a pre-health course,
les first aid training.

engender in students the confidence
at they have chosen the right career for
sons and not because of parental and
ssure, glamorous fantasies, or lack of
about alternative professions that may
m with the same satisfaction. It is
o many of our young doctors become
and angry and regret their choice of
not, however, surprising in view of the
right students are swept along by a
r people's enthusiasm and their own
Medicine is a wonderful, varied, and
er also full of heartache and frustra-
r duty to educate our future colleagues
m prevail.

ANN H YORK

19AE

eing for themselves. *BMJ* 1991;303:1598-600.
mber.)
moralised doctors. *BMJ* 1990;300:56-7.

Kelly has taken an imaginative
helping potential medical students to
gt into medical school and medical
s comment on the approach of teachers
advisers in schools is right; in my
hey have little idea of the demands of
he fault, however, is not just on the
hools, for the medical schools are far
ess.

hools need to exert more authority
s: the selection process for medical
ds overhauling, and a firmer line on
those who are misfits is needed. As the

person responsible for the preregistration year in
this medical school. I know that consultants are
concerned that some graduates have difficulty in
completing their year as a house officer. These
doctors' undergraduate records often show the
signs of impending disaster. The arguments for
their continuing the course are as Kelly outlined;
when they are challenged to account for their
poor performance they give many reasons, but
how seriously is their commitment to medicine
questioned?

I have doubts about the adequacy of the current
system of selection for medical school. A consider-
able financial investment is made to educate a
doctor. Is a 10 minute interview, or none at all, an
adequate means of deciding who should benefit
from this investment? The procedure needs to be
more rigorous and professional. Roberts and
Porter called for a change in the selection process.²
Potential recruits to the armed services and
civil service and potential national airline pilots
undergo a comprehensive selection process.

Students who find their motivation to pursue a
medical career wanting may find it difficult to
express their fears. This may be reflected in poor
reports. Students must be encouraged to seek
advice; a genuine doubt about a future in medicine
needs to be handled with understanding. Student
counsellors, and interested members of staff, have
much to offer. Students should know that such
advice is available and easily accessible.

Let us ensure that those we select are of the
required standard, intellectually and emotionally.

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- 1 Kelly MJ. Seeing for themselves. *BMJ* 1991;303:1598-600.
(21-28 December.)
- 2 Roberts GD, Porter AMW. Medical student selection—time for
change: discussion paper. *J R Soc Med* 1989;82:289-91.

High potency factor VIII concentrates

SIR,—I am responding on behalf of the United
Kingdom Haemophilia Centre Directors' Organi-
sation to John D Cash's article on high potency
factor VIII concentrates.¹ The article has been
quoted by several purchasing authorities as evi-
dence for lack of benefit from high purity factor
VIII. Such a view is an oversimplification.
Presently, most factor VIII used in the United
Kingdom is of intermediate purity and is prepared,
mainly by NHS fractionation laboratories, from
voluntary donors. It has been in use since 1985 and
found to be efficacious and safe from viral infection.
Thus, continuing its use while newer products are
being introduced and evaluated seems reasonable.

High purity factor VIII, free from extraneous
protein, is both appropriate and desirable. Never-
theless, it should be introduced gradually and, as
with any new therapeutic substance, monitored for
safety and efficacy.

In 1990 the United Kingdom Haemophilia
Centre Directors' Organisation issued recom-
mendations for the treatment of haemophilia and
identified certain groups that might benefit from
high purity factor VIII. Firstly, patients receiving
intermediate purity products who develop an
allergic reaction should be changed to a high purity
product; this is consistent with Cash's view.¹
Others include patients undergoing major surgery
or receiving treatment for the first time. A high
purity product provides the haemostatic dose in a
smaller volume and is of particular benefit to
patients with poor venous access and children.
Most patients treated for the first time are children.
We accept, however, that any new treatment
should be of proved safety in adults before being
given to children. Therefore, a paediatric haemo-
philia working party has been established to

address this issue and to plan prospective trials.
These trials will also incorporate regimens for
planned prophylaxis and an appraisal of the inci-
dence of factor VIII antibodies. Concern has
been expressed that treatment with monoclonally
derived high purity products is associated with an
increased incidence of inhibitors.^{1,4}

There remains the question whether high
purity factor VIII prevents down regulation of the
immune system. Evidence of benefit continues to
accumulate, as indicated recently by de Biasi *et al.*⁵
Evans *et al.* have shown preservation of the immune
system in patients treated with only one product of
intermediate purity.⁶ If a sustained defect in the
immune system is evident, however, it seems
reasonable to change to treatment with a high
purity product, again with careful clinical and
laboratory evaluation.

At present Scotland and Northern Ireland are
introducing an alternative high purity product
for all patients. The product will be fractionated
according to the technology of Burnouf *et al.*⁷ It
will be administered within prospective clinical
trials. Thus the place of high purity factor VIII is
emerging and, provided it proves to be satisfactory
on scientific evaluation, it will attain its rightful
place in the treatment of haemophilia within a
short time.

E E MAYNE

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- 1 Cash JD. High potency factor VIII concentrates: value not
proved? *BMJ* 1991;303:633-4. (14 September.)
- 2 Bell BA, Kurczynski EM, Bergman G. Inhibitors to monoclonal
antibody purified factor VIII. *Lancet* 1990;336:638.
- 3 Kessler GM, Sachse K. Factor VIII:C inhibitor associated with
monoclonal antibody purified factor VIII concentrate. *Lancet*
1990;335:1403.
- 4 Montoro JB, Rodriguez S, Altisent C, Tusell JM. Transient
factor VIII inhibitor and treatment with monoclonal antibody-
purified factor VIII. *Lancet* 1991;337:1222.
- 5 de Biasi R, Rocino A, Mireglia E, Mastrullo L, Quirino AA. The
impact of a very high purity factor VIII concentrate on the
immune system of human immunodeficiency virus-infected
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- 6 Evans JA, Pasi JK, Williams MD, Hill FGH. Consistently
normal CD4+, CD8+ levels in haemophilic boys only treated
with a virally safe factor VIII concentrate (BPL 8Y).
Br J Haematol 1991;79:457-61.
- 7 Burnouf T, Burnouf-Radosevich M, Huet JJ, Goudemand M. A
highly purified factor VIII:C concentrate prepared from cryo-
precipitate by ion exchange chromatography. *Vox Sang* 1991;
60:8-15.

Impact resistance of drinking glasses

SIR,—J P Shepherd and colleagues' letter on the
impact resistance of drinking glasses has received
considerable publicity in the national press.¹
Ravenhead does not question the accuracy of the
experiments, but the conclusions reached are not
based on fact.

We do not agree that the drinking glasses used in
attacks are usually intact, nor have we found police
records to support this statement. If this is the case
we find it difficult to understand how lacerations
occur. We believe that glass used in "glassing"
attacks, whether drinking glasses or bottles are
used, is first broken to produce lethal dagger-like
spikes. We agree that tempered glassware, if
properly tempered, can be stronger than stress
free, normal glassware, but this is only in its new,
unused condition. Within hours of first being used
in a busy pub the strength of tempered glassware
deteriorates rapidly and it can become unstable.
This is due to surface abrasion, which occurs when
it comes into contact with other objects—for
example, other glasses and cutlery.

We have yet to find a tempered glass that

BMJ

UME 304 1 FEBRUARY 1992

Please copy to J. Canavan

HCC(M) 48

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Copy [unclear]
For advice please - as for we have not entered the list
on this point from previous briefing.
But what about our role in providing a treatment protocol
for haemophilia. Should we be promoting a clear view?

GRO-C

Mr Dobson

From: Dr H Pickles RDD

R. Blood - haemophilia

Date: 24 June 1992

Copy:

Dr Reed HC(M)
Dr Lakhani HCP-PH
Dr Rejman HC(M)
Mr Scofield CAD-OPU2
Miss Simkins FC1-A1
Mr Lally FC1-A2B
Mr Canavan CAD-OPU2
Dr Henshall RD3 - with papers

for BU page

*has been
pl file of the evidence
for*

GRO-C

COST OF HIGH PURITY FACTOR 8

1. Thank you for sharing with RDD the correspondence on this issue.
2. In RDD we are particularly concerned that new interventions are not introduced into routine NHS use without proper cost-benefit analysis. It seems highly unlikely that high purity factor VIII would be seen as a sensible use of NHS resources even if it were to have the marginal safety and convenience advantages over existing material that is claimed by its protagonists. Any health gain must be so marginal - and not affecting overall mortality - that it cannot possibly justify the massive extra bill. Haemophilia specialists may need to watch their practice very carefully; they already have some of the most expensive patients in the NHS and this sort of action demonstrates to their colleagues that they are not interested in self-restraint. In a cash-limited system, their action is at the expense of colleagues in specialties with a lower profile.
3. If the Licensing Authority is persuaded that one factor VIII is safer than another, and makes appropriate changes to the licence, then the situation may have to be reassessed. But we are not there yet.
4. In other circumstances, we might suggest a formal cost-benefit analysis. In this case, though, the evidence is already quite clear: the increased costs are blatant, any increased benefits are so slight they can hardly be measured. The problem then is one for management and medical audit, not research.