LETTERS TO THE EDITOR

Vo2 slow component and performance in endurance sports

EDITOR,—I read with interest the leader by

endurance sports

V

the more thorough studies in cycling suggest

the directly determined critical velocity and

am unaware of any studies that have compared

less than 30 minutes”. If Dr Billat believes that

the hyperbolic relation between velocity and

horizontal and not the vertical asymptote of

(this, by the way, corresponds to the

the widely held view that the maximal lactate

on the absolute work rate and fitness of the

ance . . .V

statements that when “the rate of appearance

to reconcile this viewpoint with Dr Billat’s

than the V

O2 kinetics

Dr Billat’s work in identifying the type of

Dr Billat states that “A high range of work

∼

10% and

O2 kinetics

in highly trained runners can be explained by

a "square wave" exercise functions as is con-

V

O2 kinetics

O2 kinetics

O2 kinetics

O2 kinetics

O2 kinetics

O2 kinetics

the emergence of paid players and the marketing of the sport has undoubtedly accelerated changes in the game. However, it is important to look at what professionalism means. A professional player is financially rewarded for what he does, which introduces the imperatives of pay, the pressure of his employers, the opportunity for increased fitness and strength, and the increasing emphasis on winning, is further driven by the general commercialisation of sport as a pastime. Rugby union is an evolving game. Changes to the Laws of play and style of play have been introduced to make the game faster and more attractive, and must continue to be closely monitored to define the emergence of new injury patterns. The dramatic increase in injuries shown in this study is likely to focus attention on the tackle and so called protective equipment, as the authors rightly suggest, but also on the increasing intensity and frequency of training and playing.

ANDREW JONES

Manchester Metropolitan University


2 Poole DC, Ward SA, Gardiner GW, et al. Metabo-


Impact of professionalism on injuries in rugby

EDITOR,—Garraway and colleagues have recently written an important follow up study3 to their 1995 survey on rugby injuries in senior rugby clubs in the Scottish Borders.4 This comprehensive review of rugby injuries and their implications set standards in injury defini-

tion and information gathering. They have now studied the same model and population to assess the changes over the last four years and to define increased injury rates, which may have caused some concern. The authors con-

clude that this increase in injuries has resulted from the introduction of professionalism, which has been the major change in the game during the period between their original study and the follow up. The emergence of paid players and the marketing of the sport has undoubtedly accelerated changes in the game. However, it is important to look at what professionalism means. A professional player is financially rewarded for what he does, which introduces the imperatives of pay, the pressure of his employers, the opportunity for increased fitness and strength, and the increasing emphasis on winning, is further driven by the general commercialisation of sport as a pastime. Rugby union is an evolving game. Changes to the Laws of play and style of play have been introduced to make the game faster and more attractive, and must continue to be closely monitored to define the emergence of new injury patterns. The dramatic increase in injuries shown in this study is likely to focus attention on the tackle and so called protective equipment, as the authors rightly suggest, but also on the increasing intensity and frequency of training and playing.


Hormones, offspring sex ratios, and weekly training distances of male runners: implications for overtaking

EDITOR.—Mackelvie et al report that, within a group of male runners, free testosterone levels correlate negatively and highly significantly with the weekly training distance (p<0.005). Crawford et al reported that the offspring sex ratio (proportion male) of a sample of male runners varied significantly by their weekly training distance (table 1). Inspection of these data suggests that the regression of sex ratio on training mileage is U shaped (r² = 16.7, df 4, p<0.005).

Table 1 Numbers of sons and daughters sired by male runners, by their weekly training mileage around the time of conception (data of Crawford et al)

<table>
<thead>
<tr>
<th>Weekly training mileage</th>
<th>Sons</th>
<th>Daughters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>112</td>
<td>69</td>
</tr>
<tr>
<td>0–30</td>
<td>50</td>
<td>30</td>
</tr>
<tr>
<td>30–50</td>
<td>46</td>
<td>70</td>
</tr>
<tr>
<td>50–70</td>
<td>35</td>
<td>25</td>
</tr>
<tr>
<td>70+</td>
<td>19</td>
<td>17</td>
</tr>
</tbody>
</table>

There is now abundant evidence that the sex ratio of offspring of mammalian (including human) parents is partially dependent on the hormone levels of both parents around the time of conception. The relevant hormones almost certainly comprise testosterone, oestrogen, and the gonadotrophins, and probably progesterone. However, others—for example, growth hormone and thyroid hormones—may be implicated. These data on sex ratios need confirmation, but, if confirmed, they would suggest endocrine involvement in overtaking. While the right arm of the U of the regression does not imply pathology, it is certainly suggestive of a process that is associated with pathology. So I suggest that hormone assays should be performed on male runners, particularly those who run more than 50 miles a week. One may wonder whether their established testosterone deficit is accompanied by an even more extreme gonadotrophin deficit.

WILLIAM H JAMES
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What is a sports medicine specialist?

EDITOR.—I feel that I must respond to the recent article on sports medicine specialists. After an editorial and several papers on the recognition of sports medicine as a specialty, this paper listed the 18 attributes considered necessary to be a sports medicine specialist. Of these only four (items 5, 10, 12, and 16) seem to me to be specialist. The others items are either attributes of all doctors (items 3, 4, 8, 9, and 11, possibly 12, 13, 14, 17, and 18) or firstaiders (items 1, 2, 6, and 7). Surely sports doctors and specialists should be more than that? They should be able to discuss the pros and cons of exercise, should have detailed knowledge of the risks and benefits of different sports, and should be promoting the concepts of wellness and injury prevention. I think it would be useful to know the original background of the selected group of sports specialists who drew up this list although I suspect it will be part of the orthopaedic specialty or that of accident and emergency. If any doctor can do what they suggest it is “special”, and that you get free at point of contact in the NHS, I would question the validity of the concept of sports medicine as a specialty.

As an aside, if stabilisation of the cervical spine is the second most important attribute of a sports medicine specialist, how many sports specialists attending aquatic events know how to effect that in water and recover the casualty?

P SCHUR
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Authors’ reply

We welcome Dr Schur’s letter and are glad that this small pilot study has stimulated his response. Indeed, his thoughts on the matter really bring one back to the title of the article—“What is a sports medicine specialist?”

The choice of Delphi methodology was specifically to allow a wide range of input to reach an initial consensus. We attempted to maximise the breadth of the study by offering both examples of similar studies and inviting many as possible responses as possible. Those involved in the pilot study had all shown their commitment and expertise in sports medicine by holding the Diploma in Sports Medicine. Their backgrounds were varied: nine are general practitioners, two are sports physicians, one is an orthopaedic surgeon, and one an accident and emergency specialist. Seven of the GPs also run sports medicine clinics. The sporting backgrounds of those contributing to the study were also diverse, covering many major and minor sports. Every person involved in sports medicine will have their own viewpoint based on personal experience, qualifications, sporting background, age, and outlook and a full study involving many of the cross section of members of BASEM (British Association of Sport and Exercise Medicine) in a greater number of rounds to get a more specific consensus.

By completing studies such as this, it should be possible to convince the sceptics that sports medicine is indeed a specialty which requires recognition rather than something which any doctor or first aider can provide competently.

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This well presented paperback contains true/false and short answer questions based on recent articles from the British Medical Journal and the British Journal of General Practice. Chapters cover specialties, diseases, or treatment areas. Sports medicine is pitifully represented by only five questions (one less than the HIV section!); however, at least the GP reader is reminded therein of the implications of prescribing for sportsmen.
Never one to plough through weighty texts when studying, I preferred to use books of this kind to test areas of strength or highlight deficiencies. Somehow MCQs in exams were always worded slightly differently from those seen previously in a quiz book making them difficult to revise verbatim. The author admits that this book is not intended as a definitive text, and the subjects discussed are open ended with the aim of stimulating further reading. I would dispute the author’s claim that the book can be used as an aide memoir in the consulting room; although it contains many facts and figures, it would be difficult to extract them quickly in view of the lack of a subject index.

The book was enjoyable and it highlighted one’s tendency to study disproportionately on subjects in which one is already knowledgeable. However, the evidence base is very restricted and the *British Journal of General Practice* has recently received criticism from the profession for lacking flair and relevance to mainstream general practice.

This book could persuade GPs to begin their personal development plans, thereby avoiding accusations from postgraduate tutors of becoming overspecialised in certain areas (in my case sports medicine) while neglecting others of less personal interest but no less importance to everyday practice.

**Analysis**

- **Presentation** 16/20
- **Comprehensiveness** 10/20
- **Readability** 14/20
- **Relevance** 15/20
- **Evidence basis** 8/20
- **Total** 63/100

**NOTES AND NEWS**

**Sports and Exercise Working Group of the Royal College of General Practitioners**

The Sport and Exercise Medicine Working Group of the Royal College of General Practitioners have elected a new chairman, Dr Paul Jackson, medical officer for English Rugby, who has a particular interest in medical education. This group has been very active in recent years and has organised a number of meetings, including the successful joint meeting with the BMA on the benefits and hazards of sport and exercise. Sport and exercise medicine will also feature on the main programme of the 2001 spring meeting of the Royal College of General Practitioners.

**Olympic success for Great Britain**

Many members of BASEM were involved in the preparation of the Great British team for the 2000 Olympics. This was the most successful games in recent memory, with British athletes winning medals in many sports and many other remarkable performances outside the medals. The success of this team was greatly assisted by medical and scientific support. Lottery funding aided athletes in training but was also important in financing medical and scientific support. The UK Sports Institute will play an important part in the continuing success of British sport and the development of sport and exercise medicine.

**A journey through sports medicine, ethics, and the law**

The Institute of Sports Medicine held a very successful meeting in association with the Section of Sports Medicine of the Royal Society of Medicine in November. It was entitled “A journey through Sports Medicine, Ethics and the Law” and it addressed some very difficult topics. Sport and medicine have a complex relationship and, while medicine can help athletes recover from injury and return to top level, medicine also has the potential to aid performance through illegal and unethical means. The participation of high profile members of the legal profession and media in this meeting reflects the major changes in sport and has implication for all those involved with high level sport.

**Sports medicine and the Royal Society of Medicine**

Dr John Lloyd Parry is President of the Section of Sports Medicine, of the Royal Society of Medicine, which was founded in 1994 with Sir Roger Bannister as its first President. Dr Parry has put together a very exciting programme for 2001 which, in addition to the academic programme, includes away days to Burghley Horse Trials, Wimbledon All England Tennis and Croquet Club, and a golf tournament at The Belfry. Further details are available from the RSM (tel: 020 7290 2987; email: Sports@Rocsocmed.ac.uk).

**2003 conference on sports medicine**

The 2003 conference on sports medicine will be a joint venture between BASEM and BASES. It will take place in Sheffield and will be hosted by the Sports Science Research Institute. The theme of the conference is reflected in the title “The total athlete”, a particularly apt title reflecting the partnership organisation and the content. The conference organisers include Professor Roger Bartlett, who is chairman of the committee including Dr Simon Till as Treasurer, Professor Ian Maynard, BASES coordinator, and Dr Bryan English, BASEM coordinator.

**Current concepts**

The “Current Concepts” series, designed to provide an advanced update in key areas of sports and exercise medicine, has its next meeting on 8 December at Churchill College, Cambridge. These meetings offer continuing medical education for sports medicine and musculoskeletal medicine specialists and are particularly suitable for those at post diploma level and those who have completed an MSc.

**Appointment of new editor**

Dr Paul McCrory has been appointed editor of the *British Journal of Sports Medicine*. He is a neurologist in Melbourne, Australia, and has a long and distinguished career in sport and exercise medicine research and publishing. We wish him every success in his new role.

**Calendar of Events**

**Diploma in Sport and Exercise Medicine, Great Britain and Ireland**

This two part diploma examination will be held twice a year. Part 1 of the examination, consisting of a multiple choice question and short essay paper will be held in April and September in London, Glasgows, Dublin, or Milan. Successful candidates will proceed to part 2 of the examination in either June or November. This consists of an oral and a clinical, based on two OSCEs, and will be held at a single centre which will rotate every six months.

Further details: Examinations Department, Royal College of Surgeons in Edinburgh, Nicolson Street, Edinburgh EH1 9DW. Website: www.rcsed.ac.uk

**20th national congress of the Société Française de Médecine de Sport**

**Physical activity, sport and health**

6–8 December 2000; Paris, France

Topics include:
- Physical activity and fertility
- Sport and aging
- Rehabilitation

Further details: Pranacom, 40 rue des Blancs Manteaux, 75004 Paris, France. Email: pranacom.ifrance.com

Website: www.sfms.asso.fr

**UK Radiological Congress**

21–23 May 2001; London, UK

Further details: UKRC Secretariat, PO Box 2895, London W1A 5RS, UK. Tel: 020 7307 1410/1420; fax: 020 7307 1414; email: ukrc@dialexp.com

Website: www.ukrc.org.uk

**True or false?—answers**

(T = true; F = false)

p 415: Standart CJ, Herring SA. Spondyloysis: a critical review

(1) F; (2) F; (3) T.

**Multiple choice—answers**

p 415: Standart CJ, Herring SA. Spondyloysis: a critical review

1 (d); 2 (b).
What is a sports medicine specialist?

P Schur

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