

## A time to be born

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One of us had a friend who was a shepherd in Gower. This shepherd had raised sheep for over 50 years and knew their gestational habits well. He used to claim that they rarely lambed at the time of the ebb tide but generally gave birth during the time of the flood. Most of Gower is close to the sea, and the times of high tides

were well known to shepherds and everyone else living there, for much depended on them. To test whether this phenomenon occurred in women we studied the population delivering at this hospital over two months, covering two lunar tidal cycles.

### Patients, methods, and results

During July and August 1987, 471 women delivered spontaneously. Their labour was therefore considered to have started spontaneously and to have run its natural length. The time at which the women delivered was noted. The nearest recorded tidal point is Putney Bridge, which is 3 km from the hospital. A conversion to British summer time was needed as tide tables are recorded in Greenwich mean time.

The number of hours between the time of birth and the time of the closest flood tide was calculated and the women placed in groups of two hours. The table shows the results. There was no significant difference in the number of women delivering on the ebb and flood tides. Furthermore, there was no quantitative increase in relation to the flood tide.

Number of women giving birth in relation to time, of high tide

Time (h) from high tide:	-6	-4	-2	+2	+4	+6
No of women:	80	76	84	81	72	78

### Comment

It seems that either our shepherd's memory is at fault or people do not behave like sheep.

We thank Deborah Everard for her help with the statistics.



Sheep on headland, Rhossili, Gower

ALLAN CASH PHOTOLIBRARY

## Orthopaedic surgery: a health hazard

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Since one of us (IJB) sustained an intraoperative injury<sup>1</sup> we have heard of numerous injuries occurring during surgery. This led us to investigate further. We drew up a detailed form, and we posted just over 1000 of these forms to consultant orthopaedic surgeons in the United Kingdom (including retired consultants). We received 355 replies. It was clear from the replies that orthopaedic surgery can be extremely hazardous and nobody in the theatre is safe.

### Just a flesh wound

Take for instance one surgeon's account of demonstrating the double cup hip operation to a senior colleague. Having made a sweeping incision, he held out the incision scalpel to the scrub nurse just as his colleague took his place by his side. The result was that he stabbed his colleague in the midriff, sinking the scalpel into his anterior abdominal wall. Fortunately, his colleague was well endowed in this area so there was no risk of peritonitis. As for the operation, it went well, although his colleague did keep his distance thereafter.

The combination of brute force and sharp instruments needed lays the orthopaedic surgeon open to painful and occasionally serious injury. Surgeons frequently skewer themselves or their assistants with Denham pins, and the number of surgeons who reported such mishaps was remarkable. The most extreme example was given by one consultant who,

during the insertion of a Denham pin into a patient's leg, managed to transfix his assistant's hand and impale the patient's other leg, giving a whole new meaning to dynamic external fixation of fractures. The unfortunate assistant had to wait to be cut free.

We found that orthopaedic surgeons are at risk even during their training. One consultant recounted his unfortunate experience. While he was doing the lower end of an abdominoperineal resection the surgeon doing the upper end was a little overenthusiastic and cut off the tip of his right index finger.



### Unexpected complications

The surgeon, however, is not always to blame, and circumstances beyond his control can conspire to cause havoc. One respondent recounted that, "A certain surgeon was about to operate on a patient under a spinal anaesthetic when suddenly a mouse ran across the floor of the theatre, causing consternation and terror among the nursing staff. Its whereabouts were