Comparison of oral, enteral and parenteral feeding in HIV

<table>
<thead>
<tr>
<th></th>
<th>Advice only</th>
<th>Oral supplements</th>
<th>Enteral nutrition</th>
<th>Parenteral nutrition</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>14</td>
<td>24</td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>No with AIDS (%)</td>
<td>3 (27%)</td>
<td>7 (29%)</td>
<td>9* (90%)</td>
<td>3 (100%)</td>
</tr>
<tr>
<td>Mean CD4 count</td>
<td>177</td>
<td>130</td>
<td>14*</td>
<td>10</td>
</tr>
<tr>
<td>Range (cells/mm³)</td>
<td>(10-560)</td>
<td>(10-520)</td>
<td>(0-30)</td>
<td>(0-20)</td>
</tr>
<tr>
<td>Mean BMI (range)</td>
<td>22.44</td>
<td>20.2</td>
<td>20.2</td>
<td>—</td>
</tr>
<tr>
<td>(range)</td>
<td>(20-25)</td>
<td>(17-23)</td>
<td>(19-23)</td>
<td>—</td>
</tr>
<tr>
<td>Mean weight (kg)</td>
<td>64.5</td>
<td>62.9</td>
<td>50.5</td>
<td>50.5</td>
</tr>
<tr>
<td>(range)</td>
<td>(45-92.1)</td>
<td>(45-76)</td>
<td>(49-70-8)</td>
<td>(47.1-52)</td>
</tr>
<tr>
<td>Mean wt loss (kg)</td>
<td>1.0</td>
<td>9.5</td>
<td>18*</td>
<td>22*</td>
</tr>
<tr>
<td>(range)</td>
<td>(9-0-9)</td>
<td>(9-36)</td>
<td>(5-38)</td>
<td>(16-5-28)</td>
</tr>
<tr>
<td>(mean % wt loss)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Mean wt change (kg)</td>
<td>0.6</td>
<td>0.36</td>
<td>3.01</td>
<td>—</td>
</tr>
<tr>
<td>over three months (range)</td>
<td>— (7.0 to +9.0)</td>
<td>— (11.0 to +14.5)</td>
<td>— (4.1 to +8.0)</td>
<td>—</td>
</tr>
</tbody>
</table>

*p < 0.01 comparing proportion of patients with AIDS receiving enteral nutrition with group receiving advice only.

\( p < 0.025 \) comparing mean CD4 count in patients receiving enteral advice only.

\( p < 0.01 \) comparing mean BMI in patients receiving advice only with groups receiving oral or enteral nutrition.

\( p > 0.005 \) comparing mean prior weight loss in patients receiving oral supplements with group receiving advice only.

\( p < 0.005 \) comparing mean prior weight loss in patients receiving enteral nutrition with groups receiving advice or oral supplements.

dietary records. Dietary interventions were based on the assessment of the dietician and the preferences of the patients involved. Proportions of patients with the acquired immune deficiency syndrome (AIDS) were compared by chi square analysis. CD4 counts, basal metabolic index (BMI) and weights of patients in each group were compared by unpaired \( t \) test analysis.

Fifty one patients were seen by the designated dietician during the period of the study. Of these 48 (94%) were male and their mean age was 38-5 years (range 18-57 years). Forty two patients (82%) were Caucasian and nine (18%) were of Asian origin. Thirty four patients (67%) had a diagnosis of AIDS.

Fourteen patients (27%) received dietary advice only. This group had a mean CD4 + cell count of 177/mm³; mean BMI was 22.6 and mean weight loss prior to dietary consultation was only 1 kg. The mean change over the three month period following dietary advice was a reduction of 0.6 kg. Twenty four patients (47%) were given oral nutritional supplements. This group of patients had more advanced disease with a mean CD4 + cell count of 130/mm³; mean BMI was 20.2 and mean weight loss prior to dietary consultation was 9.5 kg. Oral supplementation was associated with a mean weight gain of 0.36 kg over three months. Ten patients (20%) received enteral nutrition which was administered via a percutaneous endoscopic gastrostomy (PEG) tube in two cases. The mean CD4 + cell count of patients receiving enteral nutrition was only 14/mm³ and 90% had a diagnosis of AIDS. Mean BMI was 20.2 and mean weight loss prior to dietary consultation was 18 kg representing a 23% reduction of baseline weight. Enteral feeding was associated with a weight gain of over 3 kg over three months. Three patients received parenteral feeding, all with a diagnosis of AIDS complicated by enteropathy and opportunistic infections. Long-term nutrition was self-administered via a Hickman line (data summarised in the table).

The patients in this study had relatively advanced disease and the intensity of dietary intervention showed a significant correlation with the stage of disease and previous weight loss. However, the results show that nutritional support, particularly enteral feeding, was frequently delayed until very substantial weight loss had occurred. More aggressive dietary intervention should therefore be considered, particularly in patients with advanced disease and multiple concurrent problems.

Dietary advice and oral nutritional supplementation are useful in the early stages of infection and may help to maintain baseline weight. Our results showed that oral supplementation and enteral nutrition were both associated with a mean weight gain over three months. Enteral feeding produces an increase in body cell mass and the magnitude of the response to enteral feeding in our patients was similar to that reported previously. Parenteral nutrition can be effective but is very expensive and should be reserved for selected patients who are unable to tolerate enteral feeding.
from both glasses after the original test has been carried out and looking at the wet preparation of the deposits under the ×40 objective lens of a microscope. This has been helpful in elucidating patients with asymptomatic urinary schistosomiasis.

Over a four year period (1991–94), we undertook 840 such “modified” two glass urine tests. Of this, 52 (6%) showed Schistosoma haematobium, the treatment of which led to a resolution of the urethritis. The patients involved, who were adults, did not have a history of terminal haematuria which would have alerted a clinician to the probable diagnosis of urinary schistosomiasis. A history of contact with water and past haematuria which abated spontaneously or after local herbal preparations were taken, was elicited on re-questioning. Two-thirds of these patients resided in a known schistosomiasis endemic area of the country. We would have missed this diagnosis if the modified test had not been carried out.

It is suggested that in patients hailing from schistosomiasis endemic areas reporting a suspected urethritis for which no cause has been found, the “Kumasi modified” two glass test could be useful in elucidating the presence or otherwise of S haematobium, whose treatment will prevent the development of complicated schistosomiasis.

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Reasons for condom failure among chlamydia infected patients attending a department of genitourinary medicine in Copenhagen

Safer sex with consistent and correct use of condoms is the case of sexual intercourse outside of longstanding, mutually monogamous relationships has been, and still is, the main message of public educational campaigns for the prevention of HIV infection in Denmark. In recent years several reports have indicated an increased use of condoms. However, as many as 40% of young adolescents do not use barrier contraception at first sexual intercourse, and a recent study showed that 38% of women attending a genitourinary medicine (GUM) clinic in London never or only occasionally used condoms. When engaged in vaginal intercourse with non-regular partners only 44% always used condoms.

If we want to optimise our public campaigns recommending the use of condoms in cases of casual sexual intercourse, it is necessary to expose in depth the reasons for inconsistent or incorrect use of condoms. In order to evaluate this aspect we asked 49 consecutive chlamydia positive heterosexual patients attending the department of GUM at Bispebjerg Hospital to complete an anonymous standardised questionnaire. One woman did not answer the questionnaire and was therefore excluded from analysis, giving a completion rate of 98%. Of the 48 included patients, 24 were males and 24 were females. Each patient was asked to specify which of the statements in 20 questions fits with their attitude to or experience with condoms. At least one and maximally three of the items given in the table could be ticked off as correct by the patient.

Barriers to use
Decreased pleasure of sex, irritation due to interruption of the sexual act or unromantic feelings played a role for 24 patients (50%) who chose not to use condoms. These emotional reasons were found with the same prevalence among males and females (table). Only two male patients had significant erection problems when using condoms.

Sex with regular partner
Sexual relationship with a steady partner was a major reason for having unsafe sex in 5 patients (10%). Especially female patients relied on this information as a valid indicator for choosing not to use condoms (table). A male patient reported that he knew his sexual partners sufficiently well as the reason for having sex without a condom.

Alcohol intake
A total of 12 patients (25%) mentioned that alcohol with sex were an essential factor for not using condoms. There seems to be no major difference between males and females in their attitude to drinking alcohol in relation to sexual intercourse (table).

Self-efficacy
Low self-esteem was a contributing factor in 11 patients (23%), all being females. They found that items 1–5 in the table had major impact on their decision of not using condoms.

Condom not available
Eight patients (17%) stated that lack of a condom in the actual risk situation was the reason for having practised unsafe sex.

Using other methods of contraception
Seven patients (15%) had not used condoms as other forms of contraceptive methods were in practise simultaneously (table).

Intellectual insufficiency
Not using a condom (although available), lack of care or considering not being in risk of contracting a sexually transmitted disease were particularly mentioned by male patients. Nine of eleven patients that responded positively to statements 6–8 in the table were males. In addition stupidity and slovenliness were noticed by a female and a male patient, respectively.

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