CHAPTER 7

OXYGEN THERAPY A NEW NOVEL PREVENTIVE APPROACH FOR CERVICAL CARCINOMA
7.1: INTRODUCTION AND REVIEW OF LITERATURE

HPV viruses are primarily anaerobic (does not need oxygen), so it cannot exist in the elevated oxygen environments. Influenza, measles, herpes and genital warts are all anaerobic. They exist, and can reproduce, only because they are doing so in an environment that is exposed to little or no oxygen. When the cellular oxygen levels of the surroundings in which they are multiplying are significantly raised, these viruses cannot multiply, nor can they survive.

Another interesting fact about the HPV viruses is that they carry a positive charge, which makes them particularly susceptible to treatments that have been formulated using oxygenation. Because the outer orbits of the oxygen molecules have electrons missing, these molecules are constantly seeking electrons to replace what they are missing. When the oxygen molecules do find positively charged (anaerobic) organisms, they at once remove the needed electrons from their outer orbits, killing the harmful microorganisms in the process.

http://www.all4naturalhealth.com/hpv-cream.html
7.2: MATERIALS AND METHODS

Out of 100 HPV positive cases (16 DNA PCR positive and 84 HPV koilocytes smears) which were associated with abnormal cytology report were subjected to HPV clearance by oxygen therapy. Another 100 HPV positive cases as evident by presence of koilocytes having normal smear were also subjected to high pressure oxygen therapy by boyle’s apparatus (James et al., 2006) once weekly for one month. Results were analyzed after 6 months.
7.3: RESULTS AND DISCUSSION

Table 7.1: HPV clearance rate by high pressure oxygen therapy (by 6 months)

<table>
<thead>
<tr>
<th>Abnormal smear with HPV positive (Both DNA and cytology evidence)</th>
<th>No. of cases</th>
<th>Clearance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100</td>
<td>91 cases</td>
<td>91%</td>
</tr>
<tr>
<td>Normal smear with HPV positive</td>
<td>100</td>
<td>98 cases</td>
<td>98%</td>
</tr>
</tbody>
</table>

Out of 100 HPV positive cases which were associated with abnormal smears were subjected to HPV clearance by oxygen therapy has shown that 91 cases had spontaneous clearance of HPV infection (91.66%) by 6 months. Out of 100 HPV positive cases in normal smears showed 98% clearance of HPV infection by 6 months. So, oxygen therapy can play a significant role in prevention of cervical cancer. The HPV vaccination for primary prevention of cervical cancer has a protective role in range of 75% only. So, oxygen therapy can be employed as a modality of primary prevention of cervical cancer.
Oxygen therapy a new novel preventive approach for cervical carcinoma

Fig. 7.1: High pressure oxygen therapy through Boyle’s apparatus (Mark II)
Fig. 7.2 : Case History:

Mrs. Deepa Seal, aged 31 years had a HSIL on cytology report with HPV DNA positive was subjected to oxygen therapy and she was re-examined after 5 months of oxygen therapy and found to be complete regression of her cytology report to normal smear and DNA negative. Even she was allowed to complete her family. She is now carrying 6 months pregnancy.

Though the above case history gives an idea of the effectiveness of oxygen therapy, but as many as 50 patients are enjoying normal life without any surgical intervention though they were advised for removal of uterus before oxygen therapy.
Fig. 7.3: HPV DNA positive before oxygen therapy

Fig. 7.4: HPV DNA negative after oxygen therapy
7.4: CONCLUSION

Out of 100 HPV positive cases which were associated with abnormal smears were subjected to HPV clearance by oxygen therapy has shown that 91 cases had spontaneous clearance of HPV infection (91.66%) by 6 months. Out of 100 HPV positive cases in normal smears showed 98% clearance of HPV infection by 6 months. So, oxygen therapy can play a significant role in prevention of cervical cancer. The HPV vaccination for primary prevention of cervical cancer has a protective role in range of 75% only. So, oxygen therapy can be employed as a modality of primary prevention of cervical cancer. This unique study of HPV infection clearance by high pressure oxygen therapy is a unique simple procedure where it can be used as a first line of primary prevention along with vaccination or in primary vaccination failure cases. This simple procedure will be a great tool in prevention of carcinoma cervix specially in our set up where all patients can not covered by HPV vaccine because of its high cost and limited availability & having morbidity and mortality.
7.5: BIBLIOGRAPHY


(2) http://www.all4naturalhealth.com/hpv-cream.html