

MOLECULAR PATHOBIOLOGY OF CANCER**HUMAN PAPILLOMAVIRUS DNA DETECTION BY POLYMERASE CHAIN REACTION IN SQUAMOUS INTRA-EPITHELIAL LESIONS OF THE CERVIX**

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The aim of the present study is to detect which types of Human Papillomavirus (HPV) are found in Squamous Intra-epithelial Lesions (SIL) of the cervix diagnosed and treated in the Portuguese Institute of Oncology, Porto. In this study we present the results obtained in a first group of twenty-nine cases. This series includes 5 flat condylomas, 5 low grade SIL and 19 high grade SIL. The prevalence of type 6/11, 16, 18 and 33 HPV was investigated with the Polymerase Chain Reaction (PCR) on formalin-fixed, paraffin wax-embedded material. The PCR amplified DNA was analysed by gel electrophoresis and Southern blot hybridization. The tissues were further tested by In Situ Hybridization (ISH), with biotinilated probes to HPV 6/11, 16/18 and 31/33/51.

HPV type 16 was detected in all cases of flat condyloma, in 4 of 5 cases (80.0%) of low grade SIL and in 18 of 19 (94.5%) of high grade SIL. By ISH there was positivity to HPV DNA 16/18 probe in 4 of 19 (21.0%) of high grade SIL and positivity to HPV DNA 31/33/51 probe in another case of high grade SIL, being all the others negative.

Our results show that HPV type 16 is extremely frequent in all types of lesions in the patients diagnosed and treated in the Portuguese Institute of Oncology. It remains to be seen whether or not these results can be extrapolated to the population of Northern Portugal.



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Rotterdam, March 15, 1994
Re.: Molecular Pathobiology of Cancer
Dalfsen, April 11 - 15, 1994

Dear Mrs/Ms/Mr. R.S. Medeiros Silva,

On behalf of the Organizing Committee of the workshop Molecular Pathobiology of Cancer, we are pleased to confirm your abstract entitled:

Human papillomavirus DNA detection by polymerase chain reaction in squamous intra-epithelial lesions of the cervix

has been accepted for oral presentation.

Date of presentation: 11/04/1994

Time: 17.10 - 17.30 hrs.

Enclosed we send you the semi-final programme and travel-information with reference to this workshop. Please note that on Sunday April 10, there will be a shuttle-service from railwaystation Dalfsen to "De Bron" from approx. 16.05 hrs. every hour until 18.06 hrs. If you cannot make it to Dalfsen on time, pls note there are no taxi's in Dalfsen. If you plan to arrive any onther time have to take the train from Zwolle to Ommen and call a taxi from the telephone-booth there, the number is of Taxi Autax (05291)-52500. The taxi will arrive within 5 minutes, and the trip to "De Bron" will take about 10 minutes. Examples of time-schedules of the trains are printed on the back of the travel-information. If there are any problems please do not hesitate to contact us before your trip or on Sunday April 10 from 17.00 hrs at "De Bron". (The telephone number is mentioned on the travel-information leaflet.

We are looking forward to meeting you in April in Dalfsen.

Yours sincerely,


R.E.E. Schrijver
Office for Post-graduate Medical Education

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