

Chapter 6 Bibliography

A, V. (2003). Comparison of Pap test among high and non-highrisk female. *Kathmandu University Med J.*, 1(1), 8-13.

Abd El All, H., Rye, A., & Duvillard, P. (1999). p53 immunohistochemical expression of Egyptian cervical carcinoma. *Pathol Oncol Res*, 5(4), 280-284. doi:10.1053/paor.1999.0134

Abdikarim IK, A. W., Habtu M. (2017). Prevalence and Associated Factors of Cervical Cancer Screening among Somali Women in an Urban Settlement in Kenya. *J Comm Pub Health Nursing*, 3(159). doi:10.4172/2471-9846.1000159

Abe, K., Masai, M., Isaka, S., Shimazaki, J., & Matsuzaki, O. (1993). [Nucleolar organizer regions in renal cell carcinoma]. *Nihon Hinyokika Gakkai Zasshi*, 84(4), 642-649. doi:10.5980/jpnjurol1989.84.642

About cervical cancer in India. (2020). Retrieved from <https://prescriptec.org/countries/india/> Adadevoh, S. W. K., & Forkouh, B. K. (1993). Cervical cancer screening; first results and future directions in Ghana. *43(1)*, 63-64. doi:[https://doi.org/10.1016/0020-7292\(93\)90278-5](https://doi.org/10.1016/0020-7292(93)90278-5)

Agarwal, S. S., Murthy, N. S., Sharma, S., Sharma, K. C., & Das, D. K. (1995). Evaluation of a hospital based cytology screening programme for reduction in life time risk of cervical cancer. *Neoplasma*, 42(2), 93-96.

Aggarwal, R., Sachdeva, R. K., Naru, J., Suri, V., Sharma, A., & Nijhawan, R. J. I. j. o. g. p. (2012). HPV genotyping in north Indian women infected with HIV. *31(5)*, 475-481.

Agorastos, T., Chatzistamatiou, K., Katsamagkas, T., Koliopoulos, G., Daponte, A., Constantinidis, T., & Constantinidis, T. C. (2015). Primary screening for cervical cancer based on high-risk human papillomavirus (HPV) detection and HPV 16 and HPV 18 genotyping, in comparison to cytology. *PLoS One*, 10(3), e0119755. doi:10.1371/journal.pone.0119755

Ahmed, H. G., Al-Adhraei, M. A., & Ashankyty, I. M. (2011). Association between AgNORs and Immunohistochemical Expression of ER, PR, HER2/neu, and p53 in Breast Carcinoma. *Pathology Research International*, 2011, 237217. doi:10.4061/2011/237217

Alarcón-Romero LC, I.-A. B., Flores-Alfaro E, Terán-Porcayo MA, Antonio-Véjar V, Reyes-Maldonado E. (2009). AgNOR polymorphism association with squamous intraepithelial lesions and invasive carcinoma with HPV infection. *Salud Pública de México*, 21(2), 134-140.

Alphapapilloma viruses. Retrieved from <https://www.sciencedirect.com/topics/medicine-and-dentistry/alphapapillomavirus>

The American College of Obstetricians and Gynecologists cervical cancer screening. (2012). Retrieved from <https://provider.carefirst.com/carefirst-resources/provider/pdf/acog-cervical-cancer-screening.pdf>

Anastasiou, E., McCarthy, K. J., Gollub, E. L., Ralph, L., van de Wijgert, J., & Jones, H. E. (2022). The relationship between hormonal contraception and cervical dysplasia/cancer controlling for human papillomavirus infection: A systematic review. *Contraception*, 107, 1-9. doi:10.1016/j.contraception.2021.10.018

Andrés Sánchez, N., Fisher, D., & Krasinska, L. (2022). Physiological functions and roles in cancer of the proliferation marker Ki-67. *Journal of Cell Science*, 135. doi:10.1242/jcs.258932

Arbyn, M., Simon, M., Peeters, E., Xu, L., Meijer, C. J., Berkhof, J., . . . Infection. (2021). 2020 list of human papillomavirus assays suitable for primary cervical cancer screening. *27*(8), 1083-1095.

Arbyn, M., Weiderpass, E., Bruni, L., de Sanjosé, S., Saraiya, M., Ferlay, J., & Bray, F. (2020). Estimates of incidence and mortality of cervical cancer in 2018: a worldwide analysis. *The Lancet Global Health*, 8(2), e191-e203. doi:10.1016/S2214-109X(19)30482-6

Arbyn, M., Weiderpass, E., Bruni, L., de Sanjosé, S., Saraiya, M., Ferlay, J., & Bray, F. (2020). Estimates of incidence and mortality of cervical cancer in 2018: a worldwide analysis. *Lancet Glob Health*, 8(2), e191-e203. doi:10.1016/s2214-109x(19)30482-6

Ashing-Giwa, K. T., Kagawa-Singer, M., Padilla, G. V., Tejero, J. S., Hsiao, E., Chhabra, R., . . . Tucker, M. B. (2004). The impact of cervical cancer and dysplasia: a qualitative, multiethnic study. *Psychooncology*, 13(10), 709-728. doi:10.1002/pon.785

Averbach, S., Silverberg, M. J., Leyden, W., Smith-McCune, K., Raine-Bennett, T., & Sawaya, G. F. (2018). Recent intrauterine device use and the risk of precancerous cervical lesions and cervical cancer. *Contraception*. doi:10.1016/j.contraception.2018.04.008

Baak, J. P., Kruse, A.-J., Robboy, S. J., Janssen, E. A., van Diermen, B., & Skaland, I. J. J. o. c. p. (2006). Dynamic behavioural interpretation of cervical intraepithelial neoplasia with molecular biomarkers. 59(10), 1017-1028.

Bal, M. S., Goyal, R., Suri, A. K., & Mohi, M. K. (2012). Detection of abnormal cervical cytology in Papanicolaou smears. *J Cytol*, 29(1), 45-47. doi:10.4103/0970-9371.93222

Benevolo, M., Mottolise, M., Marandino, F., Vocaturo, G., Sindico, R., Piperno, G., . . . Vocaturo, A. (2006). Immunohistochemical expression of p16INK4a is predictive of HR-HPV infection in cervical low-grade lesions. *Modern Pathology*, 19(3), 384-391. doi: <https://doi.org/10.1038/modpathol.3800551>

Bernard, H. U., Burk, R. D., Chen, Z., van Doorslaer, K., zur Hausen, H., & de Villiers, E. M. (2010). Classification of papillomaviruses (PVs) based on 189 PV types and proposal of taxonomic amendments. *Virology*, 401(1), 70-79. doi:10.1016/j.virol.2010.02.002

Berthod, F., Hayek, D., Damour, O., & Collombel, C. (1993). Collagen synthesis by fibroblasts cultured within a collagen sponge. *Biomaterials*, 14(10), 749-754. doi:10.1016/0142-9612(93)90039-5

Bhatla, N., Meena, J., Kumari, S., Banerjee, D., Singh, P., & Natarajan, J. (2021). Cervical Cancer Prevention Efforts in India. *Indian J Gynecol Oncol*, 19(3), 41. doi:10.1007/s40944-021-00526-8

Bhattacharyya, A. K., Nath, J. D., & Deka, H. (2015). Comparative study between pap smear and visual inspection with acetic acid (via) in screening of CIN and early cervical cancer. *J Midlife Health*, 6(2), 53-58. doi:10.4103/0976-7800.158942

Birajdar, S. S., Radhika, M., Paremala, K., Sudhakara, M., Soumya, M., & Gadivan, M. (2014). Expression of Ki-67 in normal oral epithelium, leukoplakic oral epithelium and oral squamous cell carcinoma. *J Oral Maxillofac Pathol*, 18(2), 169-176. doi:10.4103/0973-029x.140729

Bosch, F. X. J. E. o. o. p. (2011). Human papillomavirus: science and technologies for the elimination of cervical cancer. *12(14)*, 2189-2204.

Boshart, M., Gissmann, L., Ikenberg, H., Kleinheinz, A., Scheurlen, W., & zur Hausen, H. (1984). A new type of papillomavirus DNA, its presence in genital cancer biopsies and in cell lines derived from cervical cancer. *Embo j*, 3(5), 1151-1157. doi:10.1002/j.1460-2075.1984.tb01944.x

Broccolo, F., Fusetti, L., Rosini, S., Caraceni, D., Zappacosta, R., Ciccocioppo, L., Ceccherini-Nelli, L. J. J. o. m. v. (2013). Comparison of oncogenic HPV type-specific viral DNA load and E6/E7 mRNA detection in cervical samples: Results from a multicenter study. *85(3)*, 472-482.

Bruni L, A. G., Serrano B, Mena M, Collado JJ, Gómez D, Muñoz J, Bosch FX, de Sanjosé S. (2023, 10/03/2023). Human Papillomavirus and Related Diseases Report. Retrieved from www.hpvcentre.net

Buck, C., Cheng, N., Thompson, C., Lowy, D., Steven, A., Schiller, J., & Trus, B. (2008). Arrangement of L2 within the Papillomavirus Capsid. *Journal of virology*, 82, 5190-5197. doi:10.1128/JVI.02726-07

Burd, E. M. (2003). Human papillomavirus and cervical cancer. *Clin Microbiol Rev*, 16(1), 1-17. doi:10.1128/cmr.16.1.1-17.2003

Busby-Earle, R., Steel, C., Williams, A., Cohen, B., & Bird, C. J. B. j. o. c. (1994). p53 mutations in cervical carcinogenesis—low frequency and lack of correlation with human papillomavirus status. *69*(4), 732-737.

Carrillo-Beltrán, D., Osorio, J. C., Blanco, R., Oliva, C., Boccardo, E., & Aguayo, F. (2023). Interaction between Cigarette Smoke and Human Papillomavirus 16 E6/E7 Oncoproteins to Induce SOD2 Expression and DNA Damage in Head and Neck Cancer. *24*(8), 6907.

Catarino, R., Petignat, P., Dongui, G., & Vassilakos, P. (2015). Cervical cancer screening in developing countries at a crossroad: Emerging technologies and policy choices. *World J Clin Oncol*, 6(6), 281-290. doi:10.5306/wjco.v6.i6.281

Cell cycle regulators. *Cervical Cancer Treatment – Health Professional Version*. 2019. (February 6, 2019). Retrieved from <https://www.cancer.gov/types/cervical/hp/cervical-treatment-pdq>

Chan, C. K., Aimagambetova, G., Ukybassova, T., Kongrtay, K., & Azizan, A. (2019). Human Papillomavirus Infection and Cervical Cancer: Epidemiology, Screening, and Vaccination— Review of Current Perspectives. *Journal of Oncology*, 2019, 3257939. doi:10.1155/2019/3257939

Changkun, Z., Bishwajit, G., Ji, L., & Tang, S. (2022). Sociodemographic correlates of cervix, breast and oral cancer screening among Indian women. *PLoS One*, 17(5), e0265881. doi:10.1371/journal.pone.0265881

Chen, M., Cui, Q., Chen, M., Xia, M., Liu, D., Chen, P., . . . He, M. (2022). Risk of human papillomavirus infection and cervical intraepithelial lesions in Chinese renal transplant recipients. *Front Oncol*, 12, 905548. doi:10.3389/fonc.2022.905548

Chouhy, D., Bolatti, E. M., Pérez, G. R., & Giri, A. A. (2013). Analysis of the genetic diversity and phylogenetic relationships of putative human

papillomavirus types. *J Gen Virol*, 94(Pt 11), 2480-2488.
doi:10.1099/vir.0.055137-0

Cohen, P. A., Jhingran, A., Oaknin, A., & Denny, L. (2019). Cervical cancer. *The Lancet*, 393(10167), 169-182. doi:https://doi.org/10.1016/S0140-6736(18)32470-X

Crocker, J., Boldy, D. A., & Egan, M. J. (1989). How should we count AgNORS? Proposals for a standardized approach. *J Pathol*, 158(3), 185-188.
doi:10.1002/path.1711580303

Cubie, H. A. (2013). Diseases associated with human papillomavirus infection. *Virology*, 445(1), 21-34. doi:https://doi.org/10.1016/j.virol.2013.06.007

Darkwah, W. K., Aidoo, G., Akoto, D., Alhassan, K., Adormaa, B. B., & Pupilampu, J. B. J. A. L. (2021). Proliferative activity of various grades and types of breast carcinoma using AgNOR (Argyrophilic Nuclear Organizer Region) expression and its prognostic significance. *14(1)*, 375- 391.

Das, B., Sharma, J., Gopalkrishna, V., Das, D., Singh, V., Gissmann, L., . . . Luthra, U. K. J. J. o. m. v. (1992). A high frequency of human papillomavirus DNA sequences in cervical carcinomas of Indian women as revealed by Southern blot hybridization and polymerase chain reaction. *36(4)*, 239-245.

Das, P., Thomas, A., Mahantshetty, U., Shrivastava, S. K., Deodhar, K., & Mulherkar, R. J. P. o. (2012). HPV genotyping and site of viral integration in cervical cancers in Indian women. *7(7)*, e41012.

Dehghan, M., Isari, Z., Abbaszadeh, M. H., & Ghonchehpour, A. (2022). Menopause symptoms in women and its relation with using complementary and alternative medicines: A survey in southeast Iran. *Front Public Health*, 10, 947061. doi:10.3389/fpubh.2022.947061

Delahunt, B. (1998). Histopathologic prognostic indicators for renal cell carcinoma. *Semin Diagn Pathol*, 15(1), 68-76.

Delahunt, B., Ribas, J. L., Nacey, J. N., & Bethwaite, P. B. (1991). Nucleolar organizer regions and prognosis in renal cell carcinoma. *J Pathol*, 163(1), 31-37. doi:10.1002/path.1711630107

DeVita, V. T. (2020). DeVita, Hellman, and Rosenberg's Cancer: Principles & Practice of Oncology. In. Retrieved from <https://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&db=nlabk&AN=2356865>

Dhillon, P. K., Mathur, P., Nandakumar, A., Fitzmaurice, C., Kumar, G. A., Mehrotra, R., . . . Swaminathan, R. J. T. L. O. (2018). The burden of cancers and their variations across the states of India: the Global Burden of Disease Study 1990–2016. *19(10)*, 1289-1306.

Dix, D., & Cohen, P. (1999). On the role of aging in carcinogenesis. *Anticancer Res*, 19(1b), 723-726.

Dyson, N., Howley, P. M., Münger, K., & Harlow, E. (1989). The human papilloma virus-16 E7 oncoprotein is able to bind to the retinoblastoma gene product. *Science*, 243(4893), 934-937. doi:10.1126/science.2537532

Egan, M., Freeth, M., & Crocker, J. J. G. o. (1990). Relationship between intraepithelial neoplasia of the cervix and the size and number of nucleolar organizer regions. *36(1)*, 30-33.

Fan, Y., Meng, Y., Yang, S., Wang, L., Zhi, W., Lazare, C., . . . Wu, P. (2018). Screening of Cervical Cancer with Self-Collected Cervical Samples and Next-Generation Sequencing. *Dis Markers*, 2018, 4826547. doi:10.1155/2018/4826547

Faubion, S. S., Kuhle, C. L., Shuster, L. T., & Rocca, W. A. (2015). Long-term health consequences of premature or early menopause and considerations for management. *Climacteric*, 18(4), 483-491. doi:10.3109/13697137.2015.1020484

Favre, M., Orth, G., Croissant, O., & Yaniv, M. J. P. o. t. N. A. o. S. (1975). Human papillomavirus DNA: physical map. *72(12)*, 4810-4814.

Feller, L., Khammissa, R. A. G., Wood, N. H., & Lemmer, J. (2009). Epithelial maturation and molecular biology of oral HPV. *Infectious Agents and Cancer*, 4(1), 16. doi:10.1186/1750-9378-4-16

Flores, E. R., Allen-Hoffmann, B. L., Lee, D., Sattler, C. A., & Lambert, P. F. J. V. (1999). Establishment of the human papillomavirus type 16 (HPV-16) life cycle in an immortalized human foreskin keratinocyte cell line. *Journal of Cellular Biochemistry*, 262(2), 344-354.

Fontham, E. T. H., Wolf, A. M. D., Church, T. R., Etzioni, R., Flowers, C. R., Herzig, A., . . . Smith, R. A. (2020). Cervical cancer screening for individuals at average risk: 2020 guideline update from the American Cancer Society. *CA Cancer J Clin*, 70(5), 321-346. doi:10.3322/caac.21628

Forouzanfar, M. H., Foreman, K. J., Delossantos, A. M., Lozano, R., Lopez, A. D., Murray, C. J. L., & Naghavi, M. (2011). Breast and cervical cancer in 187 countries between 1980 and 2010: a systematic analysis. *The Lancet*, 378(9801), 1461-1484. doi:10.1016/S0140-6736(11)61351-2 Fulcher, L. J., & Sapkota, G. P. (2020). Mitotic kinase anchoring proteins: the navigators of cell division. *Cell Cycle*, 19(5), 505-524. doi:10.1080/15384101.2020.1728014

Gajewska, M., Kwiecień, I., Rutkowska, E., Rzepecki, P., & Sulek, K. (2022). AgNOR patterns and configurations in adult acute leukemia patients. *Journal of Cellular Biochemistry*, 47(4), 323-331. doi:10.5114/ceji.2022.124252

Gangopadhyay, M., Chakrabarti, I., Ghosh, N., & Giri, A. (2011). Computed tomography guided fine needle aspiration cytology of mass lesions of lung: Our experience. *Indian J Med Paediatr Oncol*, 32(4), 192-196. doi:10.4103/0971-5851.95139

Garg, K. N., Raj, V., & Chandra, S. (2013). Evaluation of the efficacy of AgNOR as a proliferative marker in oral leukoplakia: A morphometric analysis. *Natl J Maxillofac Surg*, 4(1), 40-45. doi:10.4103/0975-5950.117880

Garima, Pandey, S., Pandey, L. K., Saxena, A. K., & Patel, N. (2016). The Role of p53 Gene in Cervical Carcinogenesis. *J Obstet Gynaecol India*, 66(Suppl 1), 383-388. doi:10.1007/s13224-015-0754-1

Gayathri, B., Kalyani, R., Hemalatha, A., & Vasavi, B. (2012). Significance of micronucleus in cervical intraepithelial lesions and carcinoma. *J Cytol*, 29(4), 236-240. doi:10.4103/0970-9371.103941

Ghazi, T., Arumugam, T., Foolchand, A., & Chuturgoon, A. A. (2020). The Impact of Natural Dietary Compounds and Food-Borne Mycotoxins on DNA Methylation and Cancer. *Cells*, 9(9). doi:10.3390/cells9092004

Ghosh, D., Mahata, S., Sahoo, P., Sarkar, S., Roy, A., Datta, K., . . . Nasare, V. D. J. I. J. o. G. O. (2019). Socio-demographic Characteristics and Use of Pap Smear for Cervical Cancer Screening Among Women of Eastern Part of India. 17.

Ghosh, D., Roy, A. K., Murmu, N., Mandal, S., & Roy, A. (2019). Risk Categorization with Different Grades of Cervical Pre-Neoplastic Lesions - High Risk HPV Associations and Expression of p53 and RAR β . *Asian Pac J Cancer Prev*, 20(2), 549-555. doi:10.31557/apjcp.2019.20.2.549

Gilbert, P., Brewer, N. T., Reiter, P. L., Ng, T. W., & Smith, J. S. J. A. j. o. m. s. h. (2011). HPV vaccine acceptability in heterosexual, gay, and bisexual men. 5(4), 297-305.

Global strategy to accelerate the elimination of cervical cancer as a public health problem (17 November 2020). Retrieved from <https://www.who.int/publications/i/item/9789240014107> GLOBOCAN 2012: Estimated Cancer Incidence, Mortality and Prevalence Worldwide in 2012. (2012). (Vol. 1).

Golub, N. V., Maryńska-Nadachowska, A., Anokhin, B. A., & Kuznetsova, V. G. (2023). Expanding the Chromosomal Evolution Understanding of Lygaeoid True Bugs (Lygaeoidea, Pentatomomorpha, Heteroptera) by Classical and Molecular Cytogenetic Analysis. *Genes (Basel)*, 14(3). doi:10.3390/genes14030725

Gopalkrishna, V., Francis, A., Sharma, J. K., & Das, B. C. (1992). A simple and rapid method of high quantity DNA isolation from cervical scrapes for detection

of human papillomavirus infection. *J Virol Methods*, 36(1), 63-72. doi:10.1016/0166-0934(92)90157-9

Goyal, R., Mohi, K. M., & Bal Singh, M. (2012). AgNOR Count and its Correlation with Colposcopy in Suspicious Cervix. *J Obstet Gynaecol India*, 62(4), 437-441. doi:10.1007/s13224-012-0300-3

Guo, Z., & Eisenberg, D. (2008). The structure of a fibril-forming sequence, NNQQNY, in the context of a globular fold. *Protein Sci*, 17(9), 1617-1623. doi:10.1110/ps.036368.108

Gupta, S. M., & Mania-Pramanik, J. (2019). RETRACTED ARTICLE: Molecular mechanisms in progression of HPV-associated cervical carcinogenesis. *Journal of Biomedical Science*, 26(1), 28. doi:10.1186/s12929-019-0520-2

Gustafsson, L., Sparén, P., Gustafsson, M., Pettersson, B., Wilander, E., Bergström, R., & Adami, H. O. (1995). Low efficiency of cytologic screening for cancer in situ of the cervix in older women. *Int J Cancer*, 63(6), 804-809. doi:10.1002/ijc.2910630610

Haerslev, T., Jacobsen, G. K., & Zedeler, K. (1996). Correlation of growth fraction by Ki-67 and proliferating cell nuclear antigen (PCNA) immunohistochemistry with histopathological parameters and prognosis in primary breast carcinomas. *Breast Cancer Res Treat*, 37(2), 101- 113. doi:10.1007/bf01806492

Hajesmaeel-Gohari, S., Shafiei, E., Ghasemi, F., & Bahaadinbeigy, K. (2021). A study on women's health information needs in menopausal age. *BMC Women's Health*, 21(1), 434. doi:10.1186/s12905-021-01582-0

Harsha Kumar, H., & Tanya, S. (2014). A Study on Knowledge and Screening for Cervical Cancer among Women in Mangalore City. *Ann Med Health Sci Res*, 4(5), 751-756. doi:10.4103/2141-9248.141547

Health Technology Assessment of Strategies for Cervical Cancer Screening in India. In. Retrieved from [https://dhr.gov.in/sites/default/files/HTA_CaCx%20Screening % 20in%20India.pdf](https://dhr.gov.in/sites/default/files/HTA_CaCx%20Screening%20in%20India.pdf)

Hosseini, M. S., Talayeh, M., Afshar Moghaddam, N., Arab, M., Farzaneh, F., & Ashrafganjoei, T. (2023). Comparison of Ki67 index and P16 expression in different grades of cervical squamous intraepithelial lesions. *Caspian J Intern Med*, 14(1), 69-75. doi:10.22088/cjim.14.1.69

Hunt, C. R., Hale, R. J., Buckley, C. H., & Hunt, J. (1996). p53 expression in carcinoma of the cervix. *J Clin Pathol*, 49(12), 971-974. doi:10.1136/jcp.49.12.971

Jakić-Razumović, J., Petrovecki, M., & Dominis, M. (1995). AgNORs predictive value of prognosis in non-Hodgkin's lymphoma according to the Kiel classification. *Mod Pathol*, 8(2), 143-149.

Janicek, M. F., & Averette, H. E. (2001). Cervical Cancer: Prevention, Diagnosis, and Therapeutics. 51(2), 92-114. doi:<https://doi.org/10.3322/canjclin.51.2.92>

Jayant, K., Rao, R., Nene, B., & Dale, P. J. I. J. o. C. (1995). Improved stage at diagnosis of cervical cancer with increased cancer awareness in a rural Indian population. 63(2), 161-163.

Jeffers, M. D., Richmond, J., Farquharson, M., & McNicol, A. M. (1994). p53 immunoreactivity in cervical intraepithelial neoplasia and non-neoplastic cervical squamous epithelium. *J Clin Pathol*, 47(12), 1073-1076. doi:10.1136/jcp.47.12.1073

Jhingran, A., Russell, A. H., Seiden, M. V., Duska, L. R., Goodman, A., Lee, S. L., . . . Fuller, A. F. (2020). Cancers of the cervix, vulva, and vagina. In *Abeloff's Clinical Oncology* (pp. 1468-1507. e1468): Elsevier.

Jo, E.-H., Kim, S.-H., Ra, J.-C., Kim, S.-R., Cho, S.-D., Jung, J.-W., . . . Aruoma, O. I. J. C. I. (2005). Chemopreventive properties of the ethanol extract of chinese

licorice (*Glycyrrhiza uralensis*) root: induction of apoptosis and G1 cell cycle arrest in MCF-7 human breast cancer cells. 230(2), 239-247.

Joffe, G. P., Foxman, B., Schmidt, A. J., Farris, K. B., Carter, R. J., Neumann, S., . . . Walters, A. M. (1992). Multiple partners and partner choice as risk factors for sexually transmitted disease among female college students. *Sex Transm Dis*, 19(5), 272-278. doi:10.1097/00007435-199209000-00006

Juhi D Mahadik, S. P., Swati Gupta, Avani S Patel, Pankaj R Ramani. (2017). Epithelial abnormalities on Pap smear in Postmenopausal Women: A two-year hospital-based study. *International Journal of Medical Science and Public Health*, 6(2), 365-371. doi:10.5455/ijmsph.2017.06082016624

Kainz, C., Kohlberger, P., Gitsch, G., Sliutz, G., Breitenecker, G., & Reinthaller, A. (1995). Mutant p53 in patients with invasive cervical cancer stages IB to IIB. *Gynecol Oncol*, 57(2), 212-214. doi:10.1006/gyno.1995.1127

Kaliff, M., Sorbe, B., Mordhorst, L. B., Helenius, G., Karlsson, M. G., & Lillsunde-Larsson, G. (2018). Findings of multiple HPV genotypes in cervical carcinoma are associated with poor cancer-specific survival in a Swedish cohort of cervical cancer primarily treated with radiotherapy. *Oncotarget*, 9(27), 18786-18796. doi:10.18632/oncotarget.24666

Kalyani, R., Das, S., Bindra, S., & Kumar, H. M. L. (2010). Cancer profile in the Department of Pathology of Sri Devaraj Urs Medical College, Kolar: a ten years study. *Indian Journal of Cancer*, 47(2).

Kalyani, R., Das, S., Bindra Singh, M. S., & Kumar, H. (2010). Cancer profile in the Department of Pathology of Sri Devaraj Urs Medical College, Kolar: a ten years study. *Indian J Cancer*, 47(2), 160-165. doi:10.4103/0019-509x.63011

Kaneshiro, B., & Aeby, T. (2010). Long-term safety, efficacy, and patient acceptability of the intrauterine Copper T-380A contraceptive device. *Int J Womens Health*, 2, 211-220. doi:10.2147/ijwh.s6914

Khieu M, B. S. (05 January 2022). High Grade Squamous Intraepithelial Lesion. Retrieved from <https://www.ncbi.nlm.nih.gov/books/NBK430728/>

Khieu, M., & Butler, S. L. (2022). High Grade Squamous Intraepithelial Lesion. In StatPearls [Internet]: StatPearls Publishing.

Kim, J. M., Yang, Y. S., Lee, S. H., & Jee, S. H. (2021). Association between Early Menopause, Gynecological Cancer, and Tobacco Smoking: A Cross-Sectional Study. *Asian Pac J Cancer Prev*, 22(10), 3165-3170. doi:10.31557/apjcp.2021.22.10.3165

Kim, Y. T., & Zhao, M. (2005). Aberrant cell cycle regulation in cervical carcinoma. *Yonsei Med J*, 46(5), 597-613. doi:10.3349/ymj.2005.46.5.597

KIRWAN, P., NAFTALIN, N. J. J. B. A. I. J. o. O., & Gynaecology. (1985). Topical 5-fluorouracil in the treatment of vaginal intraepithelial neoplasia. 92(3), 287-291.

Klaes, R., Woerner, S. M., Ridder, R., Wentzensen, N., Duerst, M., Schneider, A., . . . von Knebel Doeberitz, M. (1999). Detection of high-risk cervical intraepithelial neoplasia and cervical cancer by amplification of transcripts derived from integrated papillomavirus oncogenes. *Cancer Res*, 59(24), 6132-6136.

Ko, E. M., Tambouret, R., Wilbur, D., & Goodman, A. (2011). HPV Reflex Testing in Menopausal Women. *Patholog Res Int*, 2011, 181870. doi:10.4061/2011/181870

Kocjan, B. J., Gale, N., Hočevar Boltežar, I., Seme, K., Fujs Komloš, K., Hošnjak, L., . . . Balažic, J. J. T. J. o. i. d. (2013). Identical human papillomavirus (HPV) genomic variants persist in recurrent respiratory papillomatosis for up to 22 years. 207(4), 583-587.

Koliopoulos, G., Nyaga, V. N., Santesso, N., Bryant, A., Martin-Hirsch, P. P., Mustafa, R. A., . . . Arbyn, M. (2017). Cytology versus HPV testing for cervical cancer screening in the general population. *Cochrane Database Syst Rev*, 8(8),

Cd008587. doi:10.1002/14651858.CD008587.pub2 Konno, R., Shin, H.-R., Kim, Y.-T., Song, Y. S., Sasagawa, T., Inoue, M., & Park, J.-S. (2008).

Human Papillomavirus Infection and Cervical Cancer Prevention in Japan and Korea. *Vaccine*, 26, M30- M42. doi:https://doi.org/10.1016/j.vaccine.2008.05.006

Koulibaly, M., Kabba, I. S., Cissé, A., Diallo, S. B., Diallo, M. B., Keita, N., . . . Parkin, D. M. (1997). Cancer incidence in Conakry, Guinea: first results from the Cancer Registry 1992-1995. *Int J Cancer*, 70(1), 39-45. doi:10.1002/(sici)1097-0215(19970106)70:1<39::aid-ijc6>3.0.co;2-7

Krawczyk, E., Suprynowicz, F. A., Liu, X., Dai, Y., Hartmann, D. P., Hanover, J., & Schlegel, R. (2008). Koilocytosis: a cooperative interaction between the human papillomavirus E5 and E6 oncoproteins. *Am J Pathol*, 173(3), 682-688. doi:10.2353/ajpath.2008.080280

Kumari, V., Neelam, K., Yadav, S. K. J. J. o. E. o. m., & Sciences, D. (2017). MENOPAUSE AND CERVICAL CANCER- DESCRIPTIVE STUDY OF PRESENTATION AND MANAGEMENT IN TERTIARY CENTRE OF JHARKHAND, INDIA. 6, 5970-5974.

Kurian, K., & al-Nafussi, A. (1999). Relation of cervical glandular intraepithelial neoplasia to microinvasive and invasive adenocarcinoma of the uterine cervix: a study of 121 cases. *J Clin Pathol*, 52(2), 112-117. doi:10.1136/jcp.52.2.112

Kushtagi P, F. P. (2002). Significance of Persistent Inflammatory Cervical Smears in Sexually Active Women of Reproductive Age. *J Obstet Gynaecol Indian J Med Microbiol*, 1(1), 8-13.

Lawal, A. T. (2017). Polycyclic aromatic hydrocarbons. A review. *Cogent Environmental Science*, 3(1), 1339841. doi:10.1080/23311843.2017.1339841

Levine, A. J., Perry, M. E., Chang, A., Silver, A., Dittmer, D., Wu, M., & Welsh, D. (1994). The 1993 Walter Hubert Lecture: the role of the p53 tumour-suppressor gene in tumorigenesis. *Br J Cancer*, 69(3), 409-416.

Li, H., Shen, H., Xu, Q., Deng, D., Wang, S., Lu, Y., & Ma, D. (2006). Expression of Pin1 and Ki67 in cervical cancer and their significance. *J Huazhong Univ Sci Technolog Med Sci*, 26(1), 120-122. doi:10.1007/bf02828056

Li, S., Hong, X., Wei, Z., Xie, M., Li, W., Liu, G., . . . Zhang, S. (2019). Ubiquitination of the HPV Oncoprotein E6 Is Critical for E6/E6AP-Mediated p53 Degradation. *Front Microbiol*, 10, 2483. doi:10.3389/fmicb.2019.02483

Li, T., Yang, Z., Zhang, C., Wang, S., & Mei, B. (2023). Genetic variation of E6 and E7 genes of human papillomavirus type 16 from central China. *Virology Journal*, 20(1), 217. doi:10.1186/s12985-023-02188-8

Lingen, M. W., Chang, K. W., McMurray, S. J., Solt, D. B., Kies, M. S., Mittal, B. B., . . . Pelzer, H. J. (2000). Overexpression of p53 in squamous cell carcinoma of the tongue in young patients with no known risk factors is not associated with mutations in exons 5-9. *Head Neck*, 22(4), 328-335.

Lopes, A., Bezerra, A. L. R., Pinto, C. A. L., Serrano, S. V., de Mello, C. A., & Villa, L. L. J. T. J. o. u. (2002). p53 as a new prognostic factor for lymph node metastasis in penile carcinoma: analysis of 82 patients treated with amputation and bilateral lymphadenectomy. *168(1)*, 81-86.

Louvanto, K. (2011). Outcomes of cervical human papillomavirus (HPV) infections among mothers in the Finnish Family HPV Study.

Mahadik JD, P. S., Gupta S, Patel AS, Ramani PR. (2017). Epithelial abnormalities on Pap smear in Postmenopausal Women: A two-year hospital-based study. *International Journal of Medical Science and Public Health*, 6(2), 365-371. doi:10.5455/ijmsph.2017.06082016624

Mane, A., Nirmalkar, A., Risbud, A., Vermund, S., Mehendale, S., & Sahasrabudhe, V. (2012). HPV Genotype Distribution in Cervical Intraepithelial Neoplasia among HIV-Infected Women in Pune, India. *PLoS One*, 7, e38731. doi:10.1371/journal.pone.0038731

Marei, H. E., Althani, A., Afifi, N., Hasan, A., Caceci, T., Pozzoli, G., . . . Cenciarelli, C. (2021). p53 signaling in cancer progression and therapy. *Cancer Cell International*, 21(1), 703. doi:10.1186/s12935-021-02396-8

Martini, F., Corallini, A., Balatti, V., Sabbioni, S., Pancaldi, C., & Tognon, M. (2007). Simian virus 40 in humans. *Infectious Agents and Cancer*, 2(1), 13. doi:10.1186/1750-9378-2-13

Mathew, A., George, P. S., Ramadas, K., Mathew, B. S., Kumar, A., Roshni, S., . . . Booth, C. M. (2019). Sociodemographic Factors and Stage of Cancer at Diagnosis: A Population-Based Study in South India. (5), 1-10. doi:10.1200/jgo.18.00160

Maxim, L. D., Niebo, R., & Utell, M. J. (2014). Screening tests: a review with examples. *Inhal Toxicol*, 26(13), 811-828. doi:10.3109/08958378.2014.955932

McGraw, S. L., & Ferrante, J. M. (2014). Update on prevention and screening of cervical cancer. *World J Clin Oncol*, 5(4), 744-752. doi:10.5306/wjco.v5.i4.744

McKinney, C. C., Hussmann, K. L., & McBride, A. A. (2015). The Role of the DNA Damage Response throughout the Papillomavirus Life Cycle. 7(5), 2450-2469.

McLaughlin-Drubin, M. E., & Munger, K. (2008). Viruses associated with human cancer. *Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease*, 1782(3), 127-150.

Meenakshisundaram K, R. K., Rajalakshmi V. (2017). Role of Argyrophilic nucleolar organiser regions [AgNOR's] in preneoplastic lesions of prostate. *Indian Journal of Pathology and Oncology*, 3(1), 86-91. doi:10.5958/2394-6792.2016.00018.1

Mehrotra, R., Hariprasad, R., Rajaraman, P., Mahajan, V., Grover, R., Kaur, P., & Swaminathan, S. (2018). Stemming the Wave of Cervical Cancer: Human Papillomavirus Vaccine Introduction in India. *J Glob Oncol*, 4, 1-4. doi:10.1200/jgo.17.00030

Mekonen, H. K., Berhe, Y., Berihu, B. A., Teka, H., Hadgu, A., Gebregziabher, L., . . . Mulugeta, A. (2021). A silent epidemic of major congenital malformations in Tigray, northern Ethiopia: hospital- based study. *Sci Rep*, 11(1), 21035. doi:10.1038/s41598-021-00240-7

Mekonnen, A. G., & Mittiku, Y. M. (2023). Early-onset of sexual activity as a potential risk of cervical cancer in Africa: A review of literature. *PLOS Glob Public Health*, 3(3), e0000941. doi:10.1371/journal.pgph.0000941

Mir, B. A., Ahmad, A., Farooq, N., Priya, M. V., Siddiqui, A. H., Asif, M., . . . Rahaman, P. F. (2023). Increased expression of HPV-E7 oncoprotein correlates with a reduced level of pRb proteins via high viral load in cervical cancer. *Sci Rep*, 13(1), 15075. doi:10.1038/s41598-023-42022-3

Mishra RK, V. S., Mitra SK, Nagger S, Shrivastava K. (2016). The use of molecular markers (Ki67 & p53) in premalignant and malignant cervical neoplasms. *Tropical Journal of Pathology and Microbiology*, 2(1), 3-8. doi:10.17511/jopm.2016.i1.01

Mistry, R., Qureshi, S., Talole, S., & Deshmukh, S. J. I. j. o. c. (2008). Cervical lymph node metastases of squamous cell carcinoma from an unknown primary: outcomes and patterns of failure. 45(2), 54-58.

Mncwabe, Z. (2017). The Application of Layered Double Hydroxide Nanoparticles (LDHs) as Potential Anticancer Drug Delivery Systems.

Moberg, M., Gustavsson, I., & Gyllensten, U. (2003). Real-time PCR-based system for simultaneous quantification of human papillomavirus types associated with high risk of cervical cancer. *J Clin Microbiol*, 41(7), 3221-3228. doi:10.1128/jcm.41.7.3221-3228.2003

Mohanty, G., Nayak, B., & Padhy, A. (2020). Diagnostic and Prognostic Significance of AgNOR Counts in Before and After Radiotherapy-Treated Cervical Carcinogenesis is Compared with Cervical Cytology and Histology. *Indian Journal of Gynecologic Oncology*, 18. doi:10.1007/s40944-020- 00393-9

Mohanty, G., & Padhy, A. K. (2020). AgNOR Count in Cervical Swab Under Cytological Normal and Other Pathologic Conditions: A Tumour Proliferative Marker. *Indian Journal of Gynecologic Oncology*, 18(4), 111. doi:10.1007/s40944-020-00462-z

Moody, C. (2017). Mechanisms by which HPV Induces a Replication Competent Environment in Differentiating Keratinocytes. 9(9), 261.

Munhoz, N., Rodrigues, D., Pedregosa, J., Rodrigues, J., Junqueira, M., Yonamine, P., . . . Cordeiro, J. (2009). The Use of Molecular Markers (p16, Ki67 and E-Cadherin) in Uterine Cervical Biopsies. *The Open Pathology Journal*, 3, 10-17. doi:10.2174/1874375700903010010

Nakamura, M., Obata, T., Daikoku, T., & Fujiwara, H. (2019). The Association and Significance of p53 in Gynecologic Cancers: The Potential of Targeted Therapy. *Int J Mol Sci*, 20(21). doi:10.3390/ijms20215482

Nanashima, A., Yamaguchi, H., Nishizawa-Takano, J. E., Hatano, K., Shibasaki, S., Sawai, T., Yasutake, T., Obatake, M., Nakagoe, T., & Ayabe, H. (2002). Application of argyrophilic nucleolar organizer region (AgNOR) staining for cytology of biliary tract carcinomas. *Journal of hepato-biliary-pancreatic surgery*, 9(4), 485–489. <https://doi.org/10.1007/s005340200060>

Neha E. L., N. R. K. (June 2017). Socio-demographic, reproductive and clinical profile of women diagnosed with cervical cancer in a tertiary care center in middle Kerala. *International Journal Of Community Medicine And Public Health*, 4(6), 2112–2117. doi:<https://doi.org/10.18203/2394-6040.ijcmph20172186>

Nene, B. M., Jayant, K., Malvi, S. G., Dale, P. S., & Deshpande, R. (1994). Experience in screening for cervical cancer in rural areas of Barsi Tehsil (Maharashtra). *Indian J Cancer*, 31(1), 34-40.

Newbold, K. M., Rollason, T. P., Luesley, D. M., & Ward, K. (1989). Nucleolar organiser regions and proliferative index in glandular and squamous carcinomas of the cervix. *J Clin Pathol*, 42(4), 441-442. doi:10.1136/jcp.42.4.441-b

- Ngan, H. Y., Stanley, M., Liu, S. S., & Ma, H. K. (1994). HPV and p53 in cervical cancer. *Genitourin Med*, 70(3), 167-170. doi:10.1136/sti.70.3.167
- Nigam, A., Saxena, P., Acharya, A. S., Mishra, A., & Batra, S. J. I. S. R. N. (2014). HPV vaccination in India: critical appraisal. 2014.
- Nikicicz, E., & Norback, D. (1990). Argrophilic nucleolar organiser region (Ag-NOR) staining in normal bone marrow cells. *J Clin Pathol*, 43, 723-727. doi:10.1136/jcp.43.9.723
- Nilima, Puranik, A., Shreenidhi, S. M., & Rai, S. N. (2020). Spatial evaluation of prevalence, pattern and predictors of cervical cancer screening in India. *Public Health*, 178, 124-136. doi:10.1016/j.puhe.2019.09.008
- Noraini, M. D., Siti-Aishah, M. A., & Kwan, S. W. (2003). An immunohistochemical study of retinoblastoma gene product in normal, premalignant and malignant tissues of the uterine cervix. *Malays J Med Sci*, 10(1), 52-59.
- Norman, I. (2015). Human papillomavirus and cervical cancer: detection of potential markers of disease progression using liquid-based cytology: Karolinska Institutet (Sweden).
- Ogunsola, J., & Antia, R. (2018). Adaptation of the agyrophil technique for nucleolar organizer regions to canine peripheral blood smears. *Open Vet J*, 8(2), 182-185. doi:10.4314/ovj.v8i2.11
- Oka, K., Nakano, T., & Arai, T. (1993). p53CM1 expression is not associated with prognosis in uterine cervical carcinoma. *Cancer*, 72(1), 160-164. doi:10.1002/1097-0142(19930701)72:1<160::aid-cnrcr2820720130>3.0.co;2-c
- Okunade, K. S. (2020). Human papillomavirus and cervical cancer. *J Obstet Gynaecol*, 40(5), 602-608. doi:10.1080/01443615.2019.1634030
- Olivier, M., Hollstein, M., & Hainaut, P. (2010). TP53 mutations in human cancers: origins, consequences, and clinical use. *Cold Spring Harb Perspect Biol*, 2(1), a001008. doi:10.1101/cshperspect.a001008

Omoniyi-Esan, O. G., Osasan, S. A., & Ojo, O. S. (2006). Non-neoplastic diseases of the cervix in Nigerians: a histopathological study. *Afr Health Sci*, 6(2), 76-80. doi:10.5555/afhs.2006.6.2.76

Onwudiegwu, U., Makinde, O., Ezechi, O., Adeyemi, A. J. J. o. O., & Gynaecology. (1999). Decision- caesarean delivery interval in a Nigerian university hospital: implications for maternal morbidity and mortality. 19(1), 30.

Operational Framework for Management of Common Cancers. (2016). Retrieved from [https://main.mohfw.gov.in/sites/default/files/Operational %20 Framework%20](https://main.mohfw.gov.in/sites/default/files/Operational%20Framework%20)

Management%20of%20Common%20Cancers_1.pdf, Organization of the HPV genome Retrieved from <http://www.clinsci.org/cs/110/0525/cs1100525f02.htm>. Oxford Textbook of Cancer Biology. (2019). Oxford University Press.

Pande, S., Jain, N., Prusty, B. K., Bhambhani, S., Gupta, S., Sharma, R., . . . Das, B. C. (2008). Human papillomavirus type 16 variant analysis of E6, E7, and L1 genes and long control region in biopsy samples from cervical cancer patients in north India. *J Clin Microbiol*, 46(3), 1060-1066. doi:10.1128/jcm.02202-07

Patro, B., & Nongkynrih, B. J. I. j. o. p. h. (2007). Review of screening and preventive strategies for cervical cancer in India. 51(4), 216-221.

Payan, C., Ducancelle, A., Aboubaker, M. H., Caer, J., Tapia, M., Chauvin, A., . . . Lunel, F. (2007). Human papillomavirus quantification in urine and cervical samples by using the Mx4000 and LightCycler general real-time PCR systems. *J Clin Microbiol*, 45(3), 897-901. doi:10.1128/jcm.02022-06

Pecorelli, S. (2009). Revised FIGO staging for carcinoma of the vulva, cervix, and endometrium. *Int J Gynaecol Obstet*, 105(2), 103-104. doi:10.1016/j.ijgo.2009.02.012

Peirson, L., Fitzpatrick-Lewis, D., Ciliska, D., & Warren, R. (2013). Screening for cervical cancer: a systematic review and meta-analysis. *Systematic Reviews*, 2(1), 35. doi:10.1186/2046-4053-2-35

Perkins, R. B., Guido, R. L., Saraiya, M., Sawaya, G. F., Wentzensen, N., Schiffman, M., & Feldman, S. (2021). Summary of Current Guidelines for Cervical Cancer Screening and Management of Abnormal Test Results: 2016-2020. *J Womens Health (Larchmt)*, 30(1), 5-13. doi:10.1089/jwh.2020.8918

Petignat, P., & Roy, M. (2007). Diagnosis and management of cervical cancer. *Bmj*, 335(7623), 765- 768. doi:10.1136/bmj.39337.615197.80

Pillai, M., Hariharan, R., Babu, J. M., Lakshmi, S., Chiplunkar, S., Patkar, M., . . . Reddy, B. J. I. J. o. C. (2009). Molecular variants of HPV-16 associated with cervical cancer in Indian population. 125(1), 91-103.

Pimple, S., & Mishra, G. (2022). Cancer cervix: Epidemiology and disease burden. *Cytojournal*, 19, 21. doi:10.25259/cmas_03_02_2021

Pinto, A. P., Crum, C. P., & Hirsch, M. S. (2010). MOLECULAR MARKERS OF EARLY CERVICAL NEOPLASIA. *Diagn Histopathol (Oxf)*, 16(10), 445-454. doi:10.1016/j.mpdhp.2010.06.012

Ploton, D., Menager, M., Jeannesson, P., Himber, G., Pigeon, F., & Adnet, J. J. (1986). Improvement in the staining and in the visualization of the argyrophilic proteins of the nucleolar organizer region at the optical level. *The Histochemical Journal*, 18(1), 5-14. doi:10.1007/BF01676192

Prakash, P., Patne, S. C., Singh, A. K., Kumar, M., Mishra, M. N., & Gulati, A. K. (2016). PCR and Genotyping for HPV in Cervical Cancer Patients. *J Glob Infect Dis*, 8(3), 100-107. doi:10.4103/0974-777x.188591

Prakash, P., Singh, S., Dhakad, C., Pandey, S., Kumar, M., Pandey, L. K., . . . Gulati, A. K. (2014). Nested Multiplex (NMPCR) Detection of Human Papillomavirus (HPV) 16 and 18 in Pre-invasive Lesions and its Implication in Screening of Carcinoma Cervix (CaCx). *J Clin Diagn Res*, 8(2), 110-113. doi:10.7860/jcdr/2014/8119.4022

Prasad, D., Sinha, A., Mishra, U., Parween, S., Raman, R. B., & Goel, N. (2021). Colposcopic evaluation of cervix in symptomatic women and its correlation with

Pap smear. A prospective study at a tertiary care centre. *J Family Med Prim Care*, 10(8), 2923-2927. doi:10.4103/jfmprc.jfmprc_1208_20

Prasad, J. B., & Dhar, M. (2018). Projections of burden of cancers: A new approach for measuring incidence cases for India and its states – Till 2025. *Journal of Cancer Policy*, 16, 57-62. doi:https://doi.org/10.1016/j.jcpo.2018.04.007

Prathiba, D., & Kuruvilla, S. (1995). Value of AgNORS in premalignant and malignant lesions of the cervix. *Indian journal of pathology & microbiology*, 38, 11-16.

QUALITY ASSURANCE AND CONTINUOUS QUALITY IMPROVEMENT IN LABORATORIES WHICH UNDERTAKE CERVICAL CYTOLOGY. (n.d.). Eurocytology. Retrieved September 7, 2023, from <https://www.eurocytology.eu/wp-content/uploads/2023/05/Quality-Assurance-In-Laboratories-Which-Undertake-Cervical-Cytology.pdf> Retrieved from <https://hpvcentre.net/datastatistics.php>

R, D. P., Arunachalam, S., Amitkumar, K., John, J. J., & Sudalaimuthu, M. (2023). An Immunohistochemical Study on Ki-67 Expression in Squamous Cell Carcinomas of Cervix With Clinicopathological Correlation. *Cureus*, 15(1), e34155. doi:10.7759/cureus.34155

Rabjerg, M. (2017). Identification and validation of novel prognostic markers in Renal Cell Carcinoma. *Dan Med J*, 64(10).

Radu, C.-A., Matos de Melo Fernandes, N., Khalfe, S., & Stordal, B. (2023). Awareness of ovarian cancer symptoms and risk factors in a young ethnically diverse British population. *12(8)*, 9879-9892. doi: <https://doi.org/10.1002/cam4.5670>

Ramachandran, D., & Dörk, T. (2021). Genomic Risk Factors for Cervical Cancer. *Cancers (Basel)*, 13(20). doi:10.3390/cancers13205137

Rani, M. N. D., Narasimha, A., Kumar MI, H., & Sr, S. (2014). Evaluation of Pre-Malignant and Malignant Lesions in Cervico Vaginal (PAP) Smears by Nuclear Morphometry. *J Clin Diagn Res*, 8(11), Fc16-c19. doi:10.7860/jcdr/2014/10367.5221

Raychaudhuri, S., and Sukanta Mandal. (April 2012). Socio-Demographic and Behavioural Risk Factors for Cervical Cancer and Knowledge, Attitude and Practice in Rural and Urban Areas of North Bengal. *Asian Pacific Organization for Cancer Prevention*, 13(4), 1093-1096. doi:https://doi.org/10.7314/APJCP.2012.13.4.1093

Reble, C., Gersonde, I., Dressler, C., Helfmann, J., Kühn, W., & Eichler, H. J. (2014). Errata: Evaluation of Raman spectroscopic macro raster scans of native cervical cone biopsies using histopathological mapping. *Journal of biomedical optics*, 19, 27007. doi:10.1117/1.JBO.19.2.027007

Reichheld, A., Mukherjee, P. K., Rahman, S. M., David, K. V., & Pricilla, R. A. (2020). Prevalence of Cervical Cancer Screening and Awareness among Women in an Urban Community in South India-A Cross Sectional Study. *Ann Glob Health*, 86(1), 30. doi:10.5334/aogh.2735

Ren, G., Liu, F., Huang, M., Li, L., Shang, H., Liang, M., . . . Chen, R. (2020). Pathogenicity of a QX-like avian infectious bronchitis virus isolated in China. *Poultry Science*, 99(1), 111-118. doi:https://doi.org/10.3382/ps/pez568

Repp, K. K., Nielson, C. M., Fu, R., Schafer, S., Lazcano-Ponce, E., Salmerón, J., . . . Giuliano, A. R. (2012). Male human papillomavirus prevalence and association with condom use in Brazil, Mexico, and the United States. *J Infect Dis*, 205(8), 1287-1293. doi:10.1093/infdis/jis181

Revathidevi, S., Murugan, A. K., Nakaoka, H., Inoue, I., & Munirajan, A. K. J. C. I. (2021). APOBEC: A molecular driver in cervical cancer pathogenesis. 496, 104-116.

Rizzolio, F., Lucchetti, C., Caligiuri, I., Marchesi, I., Caputo, M., Klein-Szanto, A. J., . . . Giordano, A. (2012). Retinoblastoma tumor-suppressor protein

phosphorylation and inactivation depend on direct interaction with Pin1. *Cell Death Differ*, 19(7), 1152-1161. doi:10.1038/cdd.2011.202

Rudlowski, C., Becker, A. J., Schroder, W., Rath, W., Büttner, R., & Moser, M. J. A. j. o. c. p. (2003). GLUT1 messenger RNA and protein induction relates to the malignant transformation of cervical cancer. 120(5), 691-698.

Sachan, P. L., Singh, M., Patel, M. L., & Sachan, R. (2018). A Study on Cervical Cancer Screening Using Pap Smear Test and Clinical Correlation. *Asia Pac J Oncol Nurs*, 5(3), 337-341. doi:10.4103/apjon.apjon_15_18

Salcedo, M., Taja, L., Utrera, D., Chávez, P., Hidalgo, A., Pérez, C., . . . Gariglio, P. (2002). Changes in retinoblastoma gene expression during cervical cancer progression. *Int J Exp Pathol*, 83(6), 275-286. doi:10.1046/j.1365-2613.2002.00198.x

Sankalecha, T. H., Gupta, S. J., Gaikwad, N. R., Shirole, N. U., & Kothari, H. G. (2017). Yield of p53 expression in esophageal squamous cell cancer and its relationship with survival. *Saudi J Gastroenterol*, 23(5), 281-286. doi:10.4103/sjg.SJG_56_17

Sankaranarayanan, R., Esmey, P. O., Rajkumar, R., Muwonge, R., Swaminathan, R., Shanthakumari, S., Cherian, J. (2007). Effect of visual screening on cervical cancer incidence and mortality in Tamil Nadu, India: a cluster-randomised trial. *Lancet*, 370(9585), 398-406. doi:10.1016/s0140-6736(07)61195-7

Sankaranarayanan, R., Nene, B. M., Shastri, S. S., Jayant, K., Muwonge, R., Budukh, A. M., . . . Dinshaw, K. A. (2009). HPV screening for cervical cancer in rural India. *N Engl J Med*, 360(14), 1385-1394. doi:10.1056/NEJMoa0808516

Sankaranarayanan, R., Wesley, R. S., & Cancer, I. A. f. R. o. (2003). *A Practical Manual on Visual Screening for Cervical Neoplasia*: World Health Organization.

Sarma, U., Das, G. C., & Sarmah, B. (2021). Predictive Value of Marker of Proliferation Ki-67 and Cell Cycle Dependent Protein kinase Inhibitor P16INK4a

in Cervical Biopsy to Determine Its Biological Behaviour. *Asian Pac J Cancer Prev*, 22(7), 2237-2241. doi:10.31557/apjcp.2021.22.7.2237

Sawaya, G. F., Kulasingam, S., Denberg, T. D., & Qaseem, A. (2015). Cervical Cancer Screening in Average-Risk Women: Best Practice Advice From the Clinical Guidelines Committee of the American College of Physicians. *Ann Intern Med*, 162(12), 851-859. doi:10.7326/m14-2426

Scott, M., Nakagawa, M., & Moscicki, A. B. (2001). Cell-mediated immune response to human papillomavirus infection. *Clin Diagn Lab Immunol*, 8(2), 209-220. doi:10.1128/cdli.8.2.209-220.2001

Senapati, R., Nayak, B., Kar, S. K., & Dwibedi, B. (2017). HPV Genotypes distribution in Indian women with and without cervical carcinoma: Implication for HPV vaccination program in Odisha, Eastern India. *BMC Infect Dis*, 17(1), 30. doi:10.1186/s12879-016-2136-4

Shalini, R., Amita, S., Neera, M. A. J. G., & investigation, o. (1998). How alarming is post-coital bleeding— a cytologic, colposcopic and histopathologic evaluation. 45(3), 205-208.

Sharma, A., Kulkarni, V., Bhaskaran, U., Singha, M., Mujtahedi, S., Chatrath, A., . . . Kumar, A. (2017). Profile of cervical cancer patients attending Tertiary Care Hospitals of Mangalore, Karnataka: A 4 year retrospective study. *J Nat Sci Biol Med*, 8(1), 125-129. doi:10.4103/0976-9668.198354

Shenk, E. M., & Ganem, N. J. (2016). Generation and Purification of Tetraploid Cells. *Methods Mol Biol*, 1413, 393-401. doi:10.1007/978-1-4939-3542-0_24

Shrivastav, K. D., Taneja, N., Das, A. M., Rana, S., Ranjan, P., Singh, H., . . . Janardhanan, R. (2021). Socio-demographic and Clinico-pathological Profile of Cervical Cancer Patients at a Tertiary Care Centre in New Delhi: A Five-Year Retrospective analysis. *Indian Journal of Community Health*, 33(4), 634 - 639. doi:10.47203/IJCH.2021.v33i04.016

Shruthi, P. S., Kalyani, R., Lee, J. K., & Narayanaswamy, M. (2014). Clinicopathological correlation of cervical carcinoma: a tertiary hospital based study. *Asian Pacific Journal of Cancer Prevention*, 15(4), 1671-1674.

Shukla, S., Rajput, D., Acharya, S., Acharya, N., Grover, S., Samal, N., & Vagha, S. (2013). A study on the nucleolar organizer regions-as a tumour proliferative marker in cervical smears. *J Clin Diagn Res*, 7(2), 278-283. doi:10.7860/jcdr/2013/4808.2746

Singh, M., Prasad, C. P., Singh, T. D., & Kumar, L. (2018). Cancer research in India: Challenges & opportunities. *Indian J Med Res*, 148(4), 362-365. doi:10.4103/ijmr.IJMR_1711_18

Singh, M. P., Gupta, N., Deepak, T., Kumar, A., & Ratho, R. K. (2017). Multiplex polymerase chain reaction for the detection of high-risk-human papillomavirus types in formalin-fixed paraffin- embedded cervical tissues. *Indian J Med Microbiol*, 35(1), 113-115. doi:10.4103/ijmm.IJMM_15_277

Somasundaram, D., Gnanasaravanan, S., & Madian, N. (2020). Automatic segmentation of nuclei from pap smear cell images: A step toward cervical cancer screening. *International Journal of Imaging Systems and Technology*, 30. doi:10.1002/ima.22444

Sontakke, B. R., Ambulkar, P. S., Talhar, S., Shivkumar, P. V., Bharambe, M. S., & Pal, A. (2019). Molecular Genetic Study to Detect Prevalence of High-risk Human Papilloma Virus Strains (type 16 and 18) in Cervical Lesions and Asymptomatic Healthy Subjects of Rural Central India. *J Cytol*, 36(1), 32-37. doi:10.4103/joc.Joc_10_18

Sreedevi, A., Javed, R., & Dinesh, A. (2015). Epidemiology of cervical cancer with special focus on India. *Int J Womens Health*, 7, 405-414. doi:10.2147/ijwh.S50001

Srigley, J. R., & Delahunt, B. (2009). Uncommon and recently described renal carcinomas. *Mod Pathol*, 22 Suppl 2, S2-s23. doi:10.1038/modpathol.2009.70

Srivastava, A. N., Misra, J. S., Srivastava, S., Das, B. C., & Gupta, S. (2018). Cervical cancer screening in rural India: Status & current concepts. *Indian J Med Res*, 148(6), 687-696. doi:10.4103/ijmr.IJMR_5_17

Suchitra, J., Ramaiah, D., Bhupalam, P., Vishwanathasetty, V., Sunanda, G., & Goruntla, N. (2018). Knowledge, attitude, and practice toward cervical cancer among women attending Obstetrics and Gynecology Department: A cross-sectional, hospital-based survey in South India. *Indian Journal of Cancer*, 54, 481-487. doi:10.4103/ijc.IJC_251_17

Sun, X., & Kaufman, P. D. (2018). Ki-67: more than a proliferation marker. *Chromosoma*, 127(2), 175-186. doi:10.1007/s00412-018-0659-8

Suntsova, M. V., & Buzdin, A. A. (2020). Differences between human and chimpanzee genomes and their implications in gene expression, protein functions and biochemical properties of the two species. *BMC Genomics*, 21(7), 535. doi:10.1186/s12864-020-06962-8

Suprynowicz, F., Disbrow, G., Krawczyk, E., Simic, V., Lantzky, K., & Schlegel, R. J. O. (2008). HPV-16 E5 oncoprotein upregulates lipid raft components caveolin-1 and ganglioside GM1 at the plasma membrane of cervical cells. *27(8)*, 1071-1078.

Surakasula, A., Nagarjunapu, G., & Raghavaiah, K. (2014). A comparative study of pre- and post- menopausal breast cancer: Risk factors, presentation, characteristics and management. *3(1)*, 12-18. doi:10.4103/2279-042x.132704

Tacken, M. A., Braspenning, J. C., Hermens, R. P., Spreeuwenberg, P. M., van den Hoogen, H. J., de Bakker, D. H., . . . Grol, R. P. (2007). Uptake of cervical cancer screening in The Netherlands is mainly influenced by women's beliefs about the screening and by the inviting organization. *Eur J Public Health*, 17(2), 178-185. doi:10.1093/eurpub/ckl082

Tan, G. C., Sharifah, N. A., Shiran, M. S., Salwati, S., Hatta, A. Z., & Paul-Ng, H. O. (2008). Utility of Ki- 67 and p53 in distinguishing cervical intraepithelial

neoplasia 3 from squamous cell carcinoma of the cervix. *Asian Pac J Cancer Prev*, 9(4), 781-784.

Tang, Y., Zheng, L., Yang, S., Li, B., Su, H., & Zhang, L.-p. J. V. j. (2017). Epidemiology and genotype distribution of human papillomavirus (HPV) in Southwest China: a cross-sectional five years study in non-vaccinated women. 14, 1-10.

Tannapfel, A., Hahn, H. A., Katalinic, A., Fietkau, R. J., Kühn, R., & Wittekind, C. W. (1996). Prognostic value of ploidy and proliferation markers in renal cell carcinoma. *Cancer*, 77(1), 164-171. doi:10.1002/(sici)1097-0142(19960101)77:1<164::Aid-cncr27>3.0.Co;2-2

Taplin, S. H., Anhang Price, R., Edwards, H. M., Foster, M. K., Breslau, E. S., Chollette, V., Prabhu Das, I., Clauser, S. B., Fennell, M. L., & Zapka, J. (2012). Introduction: Understanding and influencing multilevel factors across the cancer care continuum. *Journal of the National Cancer Institute. Monographs*, 2012(44), 2–10. <https://doi.org/10.1093/jncimonographs/lgs008>

Thulaseedharan, J. V., Frie, K. G., & Sankaranarayanan, R. (2019). Challenges of health promotion and education strategies to prevent cervical cancer in India: A systematic review. *J Educ Health Promot*, 8, 216. doi:10.4103/jehp.jehp_156_19

Thulaseedharan, J. V., Malila, N., Hakama, M., Esmay, P. O., Cheriyan, M., Swaminathan, R., ... Sankaranarayanan, R. (June 2012). Socio Demographic and Reproductive Risk Factors for Cervical Cancer - a Large Prospective Cohort Study from Rural India. *Asian Pacific Journal of Cancer Prevention*, 13(6), 2991–2995. doi:10.7314/apjcp.2012.13.6.2991

Tomaić, V. (2016). Functional Roles of E6 and E7 Oncoproteins in HPV-Induced Malignancies at Diverse Anatomical Sites. *Cancers (Basel)*, 8(10). doi:10.3390/cancers8100095

Travasso, C. M., Anand, M., Samarth, M., Deshpande, A., & Kumar-Sinha, C. J. J. o. b. (2008). Human papillomavirus genotyping by multiplex pyrosequencing in cervical cancer patients from India. 33, 73-80.

Trerè, D. (2000). AgNOR staining and quantification. *Micron*, 31(2), 127-131. doi:10.1016/s0968-4328(99)00069-4

Uma, S., Ritu, S., Js, M., Nisha, S., Sabuhi, Q., Jaiswar, S., & Sapna, S. (2006). AgNOR count and its diagnostic significance in cervical intraepithelial neoplasia.

Vahabi, M., & Lofters, A. J. B. P. H. (2016). Muslim immigrant women's views on cervical cancer screening and HPV self-sampling in Ontario, Canada. 16(1), 1-13.

Valdovinos-Torres, H., Orozco-Morales, M., Pedroza-Saavedra, A., Padilla-Noriega, L., Esquivel-Guadarrama, F., & Gutierrez-Xicotencatl, L. (2008). Different Isoforms of HPV-16 E7 Protein are Present in Cytoplasm and Nucleus. *Open Virol J*, 2, 15-23. doi:10.2174/1874357900802010015

Van Dyne, E. A., Hallowell, B. D., Saraiya, M., Senkomago, V., Patel, S. A., Agrawal, S., . . . Dhillon, P. K. (2019). Establishing Baseline Cervical Cancer Screening Coverage - India, 2015-2016. *MMWR Morb Mortal Wkly Rep*, 68(1), 14-19. doi:10.15585/mmwr.mm6801a4

Veerakumar, A. M., & Kar, S. S. (2017). Awareness and perceptions regarding common cancers among adult population in a rural area of Puducherry, India. *Journal of education and health promotion*, 6, 38. https://doi.org/10.4103/jehp.jehp_152_15

Vuković, D., Bjegović, V., & Vuković, G. (2008). Prevalence of chronic diseases according to socioeconomic status measured by wealth index: health survey in Serbia. *Croat Med J*, 49(6), 832-841. doi:10.3325/cmj.2008.49.832

Walboomers, J. M., Jacobs, M. V., Manos, M. M., Bosch, F. X., Kummer, J. A., Shah, K. V., Snijders, P. J., Peto, J., Meijer, C. J., & Muñoz, N. (1999). Human papillomavirus is a necessary cause of invasive cervical cancer worldwide. *The*

Journal of pathology, 189(1), 12–19. [https://doi.org/10.1002/\(SICI\)1096-9896\(199909\)189:1<12::AID-PATH431>3.0.CO;2-F](https://doi.org/10.1002/(SICI)1096-9896(199909)189:1<12::AID-PATH431>3.0.CO;2-F)

Westra, W. H. (2014). Detection of human papillomavirus (HPV) in clinical samples: evolving methods and strategies for the accurate determination of HPV status of head and neck carcinomas. *Oral Oncol*, 50(9), 771-779. doi:10.1016/j.oraloncology.2014.05.004

WHO. Cervical Cancer. Retrieved from <https://www.who.int/news-room/fact-sheets/detail/cervical-cancer>

WHO REPORT ON CANCER. Retrieved from <https://www.who.int/ru/news-room/fact-sheets/detail/cancer>

Willemsen, A., & Bravo, I. G. (2019). Origin and evolution of papillomavirus (onco)genes and genomes. *Philos Trans R Soc Lond B Biol Sci*, 374(1773), 20180303. doi:10.1098/rstb.2018.0303

Yeo-Teh, N. S. L., Ito, Y., & Jha, S. (2018). High-Risk Human Papillomaviral Oncogenes E6 and E7 Target Key Cellular Pathways to Achieve Oncogenesis. *Int J Mol Sci*, 19(6). doi:10.3390/ijms19061706

Yeo-Teh, N. S. L., Ito, Y., & Jha, S. (2018). High-Risk Human Papillomaviral Oncogenes E6 and E7 Target Key Cellular Pathways to Achieve Oncogenesis. *Int J Mol Sci*, 19(6). doi:10.3390/ijms19061706

Yim, E. K., & Park, J. S. (2005). The role of HPV E6 and E7 oncoproteins in HPV-associated cervical carcinogenesis. *Cancer Res Treat*, 37(6), 319-324. doi:10.4143/crt.2005.37.6.319

Yim, E. K., & Park, J. S. (2007). Biomarkers in cervical cancer. *Biomark Insights*, 1, 215-225.

Yuan, Y., Shi, X., Li, B., Peng, M., Zhu, T., Lv, G., . . . Qin, D. (2020). Integrated analysis of key microRNAs /TFs /mRNAs/ in HPV-positive cervical cancer based on microRNA sequencing and bioinformatics analysis. *Pathology - Research and Practice*, 216(6), 152952. doi:<https://doi.org/10.1016/j.prp.2020.152952>

Zhang, Q., Zhao, M., Cao, D., Wei, X., Wang, L., Li, Y., . . . Yang, X. (2018). Assessment of the effectiveness of HPV16/18 infection referred for colposcopy in cervical cancer screening in Northwest of China. *J Med Virol*, 90(1), 165-171. doi:10.1002/jmv.24902

Zhang, X., Zeng, Q., Cai, W., & Ruan, W. (2021). Trends of cervical cancer at global, regional, and national level: data from the Global Burden of Disease study 2019. *BMC Public Health*, 21(1), 894. doi:10.1186/s12889-021-10907-5

Zhao, C., & Yang, H. J. D. H. (2012). Human papillomavirus DNA detection in women with normal and abnormal cervical Pap cytology. *18*(8), 341-347.

Appendix A Plagiarism Report



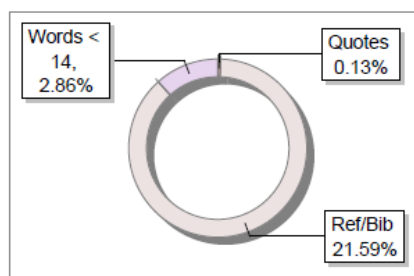
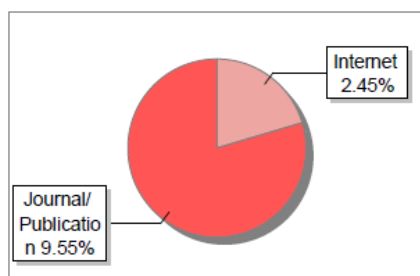
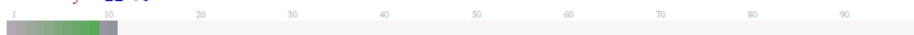
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1. Mashru R, Banerjee D*, Parmar D*, Popat V, Parmar M & Tanna D, Cervical cancer screening and its outcome – an observational study, IJBPAS, October, Special Issue, 2023, 12(10): 577-584

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**CERVICAL CANCER SCREENING AND ITS OUTCOME – AN
OBSERVATIONAL STUDY**

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and Allied Sciences (IJBPAS)**
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**AN OBSERVATIONAL STUDY OF CORRELATION BETWEEN
MENOPAUSE AND EARLY HPV INFECTION**

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Appendix C Ethical Committee's Approval



Institutional Ethics Committee
M.P. Shah Govt. Medical College & Guru Gobindsingh Hospital, Jamnagar
(EC/NEW/INST/2021/1896, Ministry of Health & Family Welfare Department of Gujarat)
Research)

APPROVAL LETTER

Date: 13/09/2022

To,
MS RIYA MASHRU
Laboratory Technician,
Multi-disciplinary Research Unit,
M P Shah Govt. Medical College,
Jamnagar-361008.

Ref: Project No. **157/04/2022** titled "MOLECULAR MARKERS OF CERVICAL CANCER AND ITS CLINICAL APPLICATIONS"

Sub: Ethics committee approval for the conduct of the referred study at "M P Shah Govt Medical College, Jamnagar", and approval of the study related documents.

Dear **MS RIYA MASHRU**,

Institutional ethics committee reviewed and discussed your application for Project proposal dated 3/09/2022 to conduct the study entitled "MOLECULAR MARKERS OF CERVICAL CANCER AND ITS CLINICAL APPLICATIONS" during the Institutional ethics committee meeting held on 13/09/2022.

Following documents were reviewed and approved:

No	Item	No	Item
1	Signature of PI and CO-PI on each page in original	9	Protocol
2	Application		<ul style="list-style-type: none"> • Introduction • Aims and objectives • Material and methods
3	Recent photograph pasted on application only of PI		<ul style="list-style-type: none"> • Description of study with study plan • Statistical analysis
4	CV of PI & CO-PI	10	Reference Article of one relevant article
5	ICMR Form-Principal Investigator form	11	UNDERTAKING form of M. P. Shah Medical College and GGG Hospital, Jamnagar
6	CRF: Case Record Form	12	Department Approval
7	Patient information sheet Hindi-Gujarati-English		
8	Consent Form Hindi-Gujarati-English		


At the Institutional ethics committee meeting held on 13/09/2022 these documents were examined and discussed. After due consideration, the committee has decided to approve the submitted documents and the proposed methods for patient accrual.

The following are members of Institutional Ethics Committee; The meeting was conducted at Meeting room, Department of Pharmacology, 5th floor, New College Building, M P Shah Govt Medical College, Jamnagar-361008

Sr. No	Name	Post in the committee	Affiliation to institute
1	Dr. Nayanaben G. Patel	Chairperson	No
2	Dr. Dinesh M. Parmar	Member Secretary	Yes
3	Dr. Jitendra H. Vachhani	Basic Medical Scientist	Yes
4	Dr. Maulik Shah	Clinician	Yes
5	Dr. Hitesh Shingala	Member	Yes
6	Dr. Shilpa P. Jadav	Member	Yes
7	Dr. Mukeshkumar Nariya	Member	No
8	Mr. Kishor L. Bhatt	Legal Expert	No
9	Mr. Bhavesh Harilal Bhatt	Social Scientist	No
10	Mr. Girish Ganatra	Lay Person	No

It is hereby confirmed that neither you nor any of the study team members have participated in the voting/decision making procedures of the committee. The project is approved in its present form. For

Institutional Ethics Committee
M.P. Shah Govt. Medical College & Guru Gobindsingh Hospital, Jamnagar
(EC/NEW/INST/2021/1896, Ministry of Health & Family Welfare Department of Gujarat)
Research)



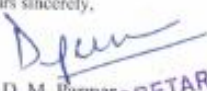
renewal/extension of the study you are requested to submit a written application along with the submission of annual status report.

Conditions of approval:

1. The Project hereby granted an approval valid for two years.
2. The committee has approved the ethical aspects of the proposed work. However, all other concerns related to the work (e.g., scientific, procedural, legal, financial, regulatory etc.) remain the sole responsibility of the Principal Investigator and /or the Co-Principal Investigator.
3. This committee is working in accordance to the ICH-GCP, New Drugs and Clinical Trial Rules-2019, ICMR guidelines and other applicable regulations.
4. Institutional ethics committee should be informed of the yearly progress in the form of annual report of the study.
5. Institutional ethics committee approved recruitment of **150** number of patients on this study.
6. It is essential that all the patients included in study should have an indoor number. They could, if necessary be registered as Free OPD patients.
7. At the end of the study all the documents are to be preserved and maintained at your respective department for at least not less than five years.
8. As required by ICH-GCP, ICMR guidelines for good clinical practice and "New Drugs and Clinical Trials Rules-2019", study monitor designated by Institutional ethics committee will periodically visit the study site with prior intimation to you to review the projects.
9. In case of PI's retirement/leaving the institute, study responsibility should be transferred to the Co-investigator after obtaining clearance from Institutional ethics committee.
10. In case of any new information or an "Serious Adverse Event" (SAE), which could affect the study, it must be informed to Institutional ethics committee. The PI should inform within 24 hours of occurrence of Serious Adverse Event with appropriate report format.
11. In the event(s) of any protocol amendments, Institutional ethics committee must be informed and only after approval, the amendment(s) then can be implemented. Amendments should be highlighted in clear terms as follows:
 - a. The exact amendment/alteration should be specified and indicated where the amendment occurred in the original proposal (Page no, Clause no etc.)
 - b. Alteration in the budgetary status should be clearly indicated and the revised consent form should be submitted.
 - c. If the amendments require a change in the consent form, the copy of revised consent form should be submitted to Institutional ethics committee for approval.
 - d. If there are any amendments in the study design, these must be incorporated in the protocol, and other study documents. These revised documents should be submitted for approval to the Institutional ethics committee.
 - e. Approval of amendment changes must be obtained prior to implementation of changes. Without including all the above points, the amendment is unlikely to be approved by the Institutional ethics committee.
 - f. Any deviation/violation/waiver in the protocol must be informed to the Institutional ethics committee.
 - g. Kindly contact ethical committee through mail mppsgmcciec_protocolsubmission@gmail.com

All the above instructions/procedure should be followed strictly without exception. Please feel free to contact the undersigned if you have any queries concerning the study.

Thanking you,
Yours sincerely,



Dr. D. M. Parmar
Member Secretary
Institutional Ethics Committee
Shree M. P. Shah Govt. Medical College
and G. G. Govt. Hospital, Jamnagar
Reg. No. ECR/INST/GUJ/2013

Appendix D
Informed Consent Form

INFORMED CONSENT FORM

**MOLECULAR MARKERS OF CERVICAL CANCER AND ITS
CLINICAL APPLICATIONS**

Mrs/Miss _____

Give consent to participate in the study. I have read and understood the information sheet for the above study. I am allowed to ask question during this study. I have been explained about its objective research status, study design, time, benefit, risks and inconveniences. I have been informed about my right to withdraw from the study without giving any reason at any point of time with full right to available regular treatment. NO RENUMERATION OR COMPENSATION WILL BE GIVEN FOR THE SAME.

After understanding all things I sign here voluntarily with full consciousness and without any pressure for participating in the study.

Name and sign of participant: _____ Date: _____

Name and sign of witness: _____

Name and sign of investigator:
Ms. Riya R. Mashru
Laboratory Technician,
Multi-Disciplinary Research Unit
Shri M.P. Shah Medical College, Jamnagar
Mo. 9429941141

Dr. Dinesh Parmar
(Member Secretary - Ethics Committee)
Shri M.P. Shah Medical College, Jamnagar
Mo. No. 9898345543

Appendix E
Case Record Form

CASE RECORD FORM

MOLECULAR MARKERS OF CERVICAL CANCER AND ITS CLINICAL APPLICATIONS

1. Personal details

Name: _____ Age: _____

Mobile no.: _____ Marital status: _____

Age of marriage: _____ Occupation: _____

Urban/Rural: _____ Community: *Community*

2. Clinical history

Complaint and duration: _____

Menstrual history: _____

Obstetrics history: _____

Contraception history: _____

Medication history: _____

Past history: _____

Personal history: _____

Family history: _____

3. Date & time of sample collection: _____

4. Types of smear: Cervical / Endocervical / Vaginal / others