









evolve. Nomograms are well suited to adapt to this need [12] (Figure-11).

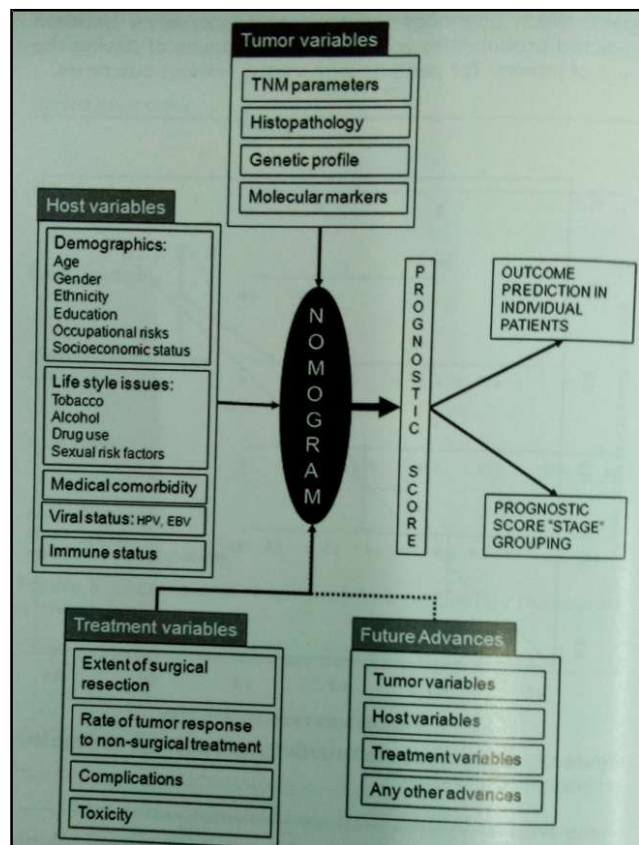


Figure 11 Nomograms can incorporate multiple prognostic factors [12].

The ability of nomograms to take into account more variables than the conventional TNM staging system also sets up the possibility that a staging system based on nomograms would more accurately stratify patients into groups with similar estimated outcomes than the currently used TNM system [13].

## References

- [1] Kulkarni MR. Head and Neck Cancer Burden in India. *Int J Head and Neck Surg* 2013; 4(1): 29-35.
- [2] Licitra L., Locati L.D., Bossi P. Head and Neck Cancer. *Annals of Oncology*: 2004; 15 (Supplement 4): iv: 267–273
- [3] Townsend C.M., Beauchamp R.D., Evers B.M., Mattox K.L. Sabiston. *Head and Neck. Textbook of Surgery: The Biological Basis of Modern Surgical Practice*. Saunders, an imprint of Elsevier Inc. Philadelphia. 19<sup>th</sup> Edition: 2012: 805-814.
- [4] Anantharaman D., Chaubal P.M., Kannan S., Bhisey R.A., Mahimkar M.B. Susceptibility to oral cancer by genetic polymorphisms at CYP1A1, GSTM1 and GSTT1 loci among Indians: tobacco exposure as a risk modulator. *Carcinogenesis*: 2007; vol.28 no.7:1455–1462.
- [5] Johnson N., Franceschi S., Ferlay J., Ramadas K., Schmid S., MacDonald D.G., Bouquot J.E., Slootweg P.J. *Squamous Cell Carcinoma. WHO Classification of Tumours-Pathology and Genetics of Head and Neck Tumours*. IARC Press, Lyon: 2005; 168-175.

- [6] Chiba I. Prevention of betel quid chewers' oral cancer in the Asian-Pacific area. *Asian Pac J Cancer Prev* 2001; 2: 263–269.
- [7] Ko YC, Huang YL, Lee CH, Chen MJ, Lin LM, Tsai CC. Betel quid chewing, cigarette smoking and alcohol consumption related to oral cancer in Taiwan. *J Oral Pathol Med* 1995; 24: 450–453.
- [8] Vokes E.E. *Head and Neck Cancer*. Harrison's principles of internal medicine. The McGraw-Hill Companies, Inc. United States of America. 18<sup>th</sup> Edition: 2012;733-736.
- [9] Mroz E.A., Tward A.D., Pickering C.R., Myers J.N., Ferris R.L., Rocco J.W. High Intra tumour Genetic Heterogeneity Is Related to Worse Outcome in Patients With Head and Neck Squamous Cell Carcinoma. *Cancer* 2013; Aug 15 Vol. 119, Issue 16: 3034-3042.
- [10] Chen P.T., Kuan F.C., Huang C.E., Chen M.F., Huang S.H., Chen M.C., Lee K.D. Incidence and Patterns of Second Primary Malignancies Following Oral Cavity Cancers in a Prevalent Area of Betel-nut Chewing: A Population-based Cohort of 26 166 Patients in Taiwan. *Jpn J Clin Oncol* 2011;41(12):1336–1343.
- [11] Patel S.G., Lydiatt W.M. Staging of head and neck cancers: is it time to change the balance between the ideal and the practical? *J Surg Oncol*. 2008; 97: 653-657.
- [12] Montero P.H., MS C.Y., Palmer F.L., Patel P.D., Ganly I., Shah J.P., Shaha A.R., Boyle J.O., Kraus D.H., Singh B., Wong R.J., Morris L.G., Kattan M.W., Patel S.G. Nomograms for preoperative prediction of prognosis in patients with oral cavity Squamous Cell Carcinoma. *Cancer* 2014; Jan 15 Vol. 120, Issue 2: 214-221.
- [13] Kattan M.W. Nomograms are superior to staging and risk grouping systems for identifying high-risk patients: preoperative application in prostate cancer. *Curr Opin Urol*. 2003; 13: 111-116.

## Author Profile



**Manoj Kumar (India)**: awarded Associate Professor on Feb 7<sup>th</sup>, 2014 in Department of Forensic Medicine, Institute of Medical Sciences, Banaras Hindu University and Headship on May 6<sup>th</sup>, 2014. Did his M.B.B.S from Patna Medical College Hospital, Patna in 1999. Got his MD in Forensic Medicine in 2004 from Institute of Medical Sciences, BHU. He has been actively involved in academic, research and medico-legal work. He has around thirty research papers published till now.



**Navin Kumar (India)**: currently pursuing MD in Forensic Medicine at Institute of Medical Sciences, Banaras Hindu University. He graduated in M.B.B.S from Nalanda Medical College, Patna in 2005. He takes keen interest in academics and research paper works.