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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul Karya Ilmiah (Artikel) : The Correlation between Risk Factors and Epstein-Barr Virus Serum Antibody with Histopathological Typing of Nasopharyngeal Carcinoma

Penulis : 7 Orang

Status Pengusul : **Awal Prasetyo1***, Udadi Sadhana1, Dewi K. Paramita2, Sofia Mubarika Haryana2, Bambang Hariwiyanto3, Soenarto Sastrowijoto3, Totok Utoro4

Identitas Jurnal Ilmiah : a. Nama Jurnal : Open Access Macedonian Journal of Medical Sciences
 b. Nomor eISSN : 1857-9655
 c. Vol, Nomor, halaman : 26; 10(A):1359-1367
 d. Edisi : 2022 Aug
 e. Penerbit : Scientific Foundation SPIROSKI, Skopje, Republic of Macedonia
 f. Jumlah halaman : 9
 g. DOI artikel (jika ada) : <https://doi.org/10.3889/oamjms.2022.10428>
 h. Alamat web jurnal : <https://oamjms.eu/index.php/mjms/article/view/10428/7839>
 i. Terindeks di : SCOPUS 3, SJR 0,257
 j. On line turnitin : https://doc-pak.undip.ac.id/13165/1/TURNITIN_The_Correlation_between_Risk_Factors.pdf

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**LEMBAR
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Scientific Foundation SPIROSKI, Skopje, Republic of Macedonia
Open Access Macedonian Journal of Medical Sciences. 2022 Apr 20 ; 10(A):879-886.
<https://doi.org/10.3889/oamjms.2022.9305>
eISSN: 1857-9655
Category: A - Basic Sciences
Section: Pathology



Immunohistochemical Study of Cancer Stem Cell marker, Tight Junction Protein, and Lymphatic Density in Malignant Salivary Gland Tumors

Marwa Maghrabi¹, Doaa A. Farag², Marwa Shakweer³, Mohamed Negm^{4*}, Nadia A. El-Siesy⁵

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Abstract

BACKGROUND: CD117/c-kit is a potent stem cell marker for malignant salivary gland tumors. The dysregulation of c-kit is closely associated with impairment of cell adhesion and migration.

AIM: The main purpose of this work is to evaluate the immunohistochemical expression of c-kit, claudin-1, and podoplanin (D2-40) in malignant salivary gland tumors and measure the density of lymph vessels density in common MSGTs by using immunohistochemical staining.

MATERIALS AND METHODS: Immunohistochemical staining with anti-c-kit, claudin-1, and podoplanin (D2-40) in malignant salivary gland tumors. The expression of c-kit, claudin-1, and stained podoplanin (D2-40) in lymphatic vessels in common MSGTs cases included 20 cases of adenoid cystic carcinoma (AdC), 10 cases of carcinoma ex pleomorphic adenoma, six cases of polymorphous adenocarcinoma (PAC).

RESULTS: The immunopositivity of c-kit (CD117) was detected in 44/50 cases (88%) of malignant salivary gland tumors. The expression of c-kit was observed in 35 (70%) of our specimens of MSGTs. Correlation between c-kit and claudin-1 was observed in 35 (70%) of our specimens of MSGTs. Correlation between c-kit and podoplanin (D2-40) was observed in 35 (70%) of our specimens of MSGTs. Correlation between claudin-1 and podoplanin (D2-40) was observed in 35 (70%) of our specimens of MSGTs. A direct correlation was observed between c-kit and lymphatic density. A direct correlation was observed between claudin-1 and lymphatic density. A direct correlation was observed between podoplanin (D2-40) and lymphatic density.

CONCLUSION: Upregulation of cancer stem cell marker c-kit (CD117), tight junction protein claudin-1 and increased density of stained lymphatic vessels were observed in malignant salivary gland tumors. The use of c-kit inhibitor to improve the treatment strategy of malignant salivary gland tumors is suggested.

Edited by: Sinisa Stojanovski
Citation: Maghrabi M, Farag DA, Shakweer M, Negm M, El-Siesy NA. Immunohistochemical Study of Cancer Stem Cell marker, Tight Junction Protein, and Lymphatic Density in Malignant Salivary Gland Tumors. Open Access Macedonian Journal of Medical Sciences. 2022 Apr 20; 10(A):879-886. <https://doi.org/10.3889/oamjms.2022.9305>
Keywords: Malignant salivary gland tumors; c-kit (CD117); Claudin-1; Podoplanin
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Received: 13-Mar-2022
Revised: 08-Apr-2022
Accepted: 10-Apr-2022
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Funding: This research did not receive any financial support
Competing Interests: The authors have declared that no competing interests exist
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Introduction

Malignant salivary gland tumors (MSGTs) constitute an extensive collection of highly

stem cell factor (SCF) [1]. SCF promotes malignant cell metastatic activities. The deregulation of the cell the surrounding tissue

Scientific Foundation SPIROSKI, Skopje, Republic of Macedonia
Open Access Macedonian Journal of Medical Sciences. 2022 Mar 21; 10(A):1151-1156.
<https://doi.org/10.3889/oamjms.2022.8745>
eISSN: 1857-9655
Category: A - Basic Sciences
Section: Pathology



Erythroblasts in the Vessels of the Placenta – Factor of Chronic Hypoxic Damage to the Fetus

Olga Kostyleva¹, Leila Stabayeva^{1*}, Maida Tussupbekova¹, Irfan Mukhammad¹, Yev S. N. Zhuravlev

Department of Pathology, Karaganda Medical University, Karaganda, Kazakhstan

Abstract

BACKGROUND: Earlier identification of newborns with subcompensated chronic hypoxia based on clinical and laboratory data alone is difficult. Since it is extremely uncharacteristic for hypoxia to occur at different times at different stages of the dynamic process of fetal growth and development, which affects the functioning of its organs and systems, has uniform clinical manifestations, a systematic search for additional signs of hypoxic damage to the fetus, which will help to identify it in time, prevent complications, and reduce morbidity and mortality.

AIM: The aim is a comparative histological study of the relative number of erythroblasts in the villi of placentas from a full-term pregnancy with a low and high risk of fetal hypoxia.

MATERIAL AND METHODS: Based on data on the course of pregnancy and the condition of the fetus/newborn, as well as histological examination of the placenta, 100 placentas were selected in two groups: A high-risk group for chronic hypoxic damage to the fetus and a control group. Laboratory signs of fetal/newborn hypoxia. The relationship between the number of erythroblasts in the placenta and chronic hypoxic damage to the fetus was analyzed.

RESULTS: The high risk of chronic hypoxic fetal damage is higher for placental lesions in the villi vessels (OR = 3.175; 95% CI = 1.921–5.248, $p < 0.001$), with maternal hypoxia (OR = 1.506–5.164, $p = 0.001$), and combined (cross) placental lesions (OR = 3.175; 95% CI = 1.921–5.248, $p < 0.001$) with damage of $\geq 30\%$ of placental tissue.

CONCLUSION: Eight or more fetal erythroblasts in the lumen of the villi vessels are an independent factor in chronic hypoxic damage to the fetus. These results suggest that it is necessary to form a group of newborns with a high risk of chronic hypoxic damage in the postnatal period to reduce infant morbidity and mortality.

Edited by: Sinisa Stojanovski
Citation: Kostyleva O, Stabayeva L, Tussupbekova M, Mukhammad I, Kotov Y, Kossitsyn D, Zhuravlev SN. Erythroblasts in the Vessels of the Placenta – An Independent Factor of Chronic Hypoxic Damage to the Fetus. Open Access Maced J Med Sci. 2022 Mar 21; 10(A):1151-1156. <https://doi.org/10.3889/oamjms.2022.8745>
Keywords: Erythroblasts; Chronic hypoxia; Fetal distress
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Received: 24-Jan-2022
Revised: 07-Mar-2022
Accepted: 11-Mar-2022
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Funding: This research did not receive any financial support
Competing interests: The authors have declared that no competing interests exist
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Introduction

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Traditional his
an important part of c
only the identification
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