World Journal of *Clinical Cases*

World J Clin Cases 2022 May 16; 10(14): 4327-4712





Published by Baishideng Publishing Group Inc

W J C C World Journal of Clinical Cases

Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

OPINION REVIEW

4327 Emerging role of biosimilars in the clinical care of inflammatory bowel disease patients Najeeb H, Yasmin F, Surani S

MINIREVIEWS

- 4334 Practical insights into chronic management of hepatic Wilson's disease Lynch EN, Campani C, Innocenti T, Dragoni G, Forte P, Galli A
- 4348 Adipose-derived stem cells in the treatment of hepatobiliary diseases and sepsis Satilmis B. Cicek GS. Cicek E. Akbulut S. Sahin TT. Yilmaz S

ORIGINAL ARTICLE

Clinical and Translational Research

4357 Learning curve for a surgeon in robotic pancreaticoduodenectomy through a "G"-shaped approach: A cumulative sum analysis

Wei ZG, Liang CJ, Du Y, Zhang YP, Liu Y

4368 Clinical and prognostic significance of expression of phosphoglycerate mutase family member 5 and Parkin in advanced colorectal cancer

Wu C, Feng ML, Jiao TW, Sun MJ

Case Control Study

Significance of preoperative peripheral blood neutrophil-lymphocyte ratio in predicting postoperative 4380 survival in patients with multiple myeloma bone disease

Xu ZY, Yao XC, Shi XJ, Du XR

Retrospective Study

4395 Association between depression and malnutrition in pulmonary tuberculosis patients: A cross-sectional study

Fang XE, Chen DP, Tang LL, Mao YJ

4404 Pancreatic cancer incidence and mortality patterns in 2006-2015 and prediction of the epidemiological trend to 2025 in China

Yin MY, Xi LT, Liu L, Zhu JZ, Qian LJ, Xu CF

4414 Evaluation of short- and medium-term efficacy and complications of ultrasound-guided ablation for small liver cancer

Zhong H, Hu R, Jiang YS



 4425 Hematopoiesis reconstitution and anti-tumor effectiveness of Pai-Neng-Da capsule in acute leukemia patients with haploidentical hematopoietic stem cell transplantation <i>Yuan JJ, Lu Y, Cao JJ, Pei RZ, Gao RJ.</i> 4436 Oral and maxillofacial pain as the first sign of metastasis of an occult primary tumour: A fifteen-year retrospective study <i>Shan S, Liu S, Yang ZY, Wang TM, Lin ZT, Feng YL, Pakezhatt S, Huang XF, Zhang L, Sun GW</i> 4446 Reduced serum high-density lipoprotein cholesterol levels and aberrantly expressed cholesterol metabolism genes in colorectal cancer <i>Tao JH, Wang XT, Yuan W, Chen JN, Wang ZJ, Ma YB, Zhao FQ, Zhang LY, Ma J, Liu Q</i> Observational Study 4460 Correlation of pressure gradient in three hepatic veins with portal pressure gradient <i>Wang IY, Sang QK, Yue ZD, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Meng MM, Zhang K, Jiang L, Ding HG, Zhang YN, Yang YP, Liu FQ</i> 4470 Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of leves invasive stabilization <i>Huang JG, Zhang ZY, Li L, Liu GB, Li X</i> SYSTEMATIC REVIEWS 4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orlandi N, Cavalliert F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valcania F, Zalde M</i> 4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Huguenot M, Bruhm AC, Essig M</i> 	World Journal of Clinical Case		
 patients with haploidentical hematopoietic stem cell transplantation <i>Yum JJ, Lu Y, Cao JJ, Pel RZ, Gao RJ.</i> 4436 Oral and maxillofacial pain as the first sign of metastasis of an occult primary tumour: A fifteen-year retrospective study <i>Shan S, Liu S, Yang ZY, Wang TM, Lin ZT, Feng YL, Pakeshati S, Huang XF, Zhang L, Sun GW</i> 4446 Reduced serum high-density lipoprotein cholesterol levels and aberrantly expressed cholesterol metabolism genes in colorectal cancer <i>Two JH, Wang XT, Yuan W, Chen JN, Wang ZJ, Ma YB, Zhao FQ, Zhang LY, Ma J, Liu Q</i> Observational Study 4460 Correlation of pressure gradient in three hepatic veins with portal pressure gradient <i>Wang HY, Song OK, Yue ZD, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Meng MM, Zhang K, Jang L, Ding HG, Zhang YN, Yang YP, Liu FQ</i> 4470 Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization <i>Huang JG, Zhang ZY, Li L, Liu GB, Li X</i> 54480 Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 <i>Yang J, Liu IKS, Su YY, Liang ZS, Rao IIY</i> 4470 CASE REPORT 4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orlandi N, Corollier F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratii C, Zanichelli M, Pascarellu R, Valcanic <i>F, Zade M</i> 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report <i>Higupenoi M, Bruhm AC, Exig M</i> 4519 Plexiform neurofibroma of the canda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Jushy R, Captus S, Duko J, Hendrizon V, Ruksensa O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalomate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated puncreatic injury caused by abdominal massage: A case report</i>	Conter	Thrice Monthly Volume 10 Number 14 May 16, 2022	
 4436 Oral and maxillofacial pain as the first sign of metastasis of an occult primary tumour: A fifteen-year retrospective study <i>Stan S. Lu S. Yang ZY, Wang TM, Lin ZT, Feng YL, Pakezhati S. Huang XF, Zhang L, Sun GW</i> 4446 Reduced serum high-density lipoprotein cholesterol levels and aberrantly expressed cholesterol metabolism genes in colorcclal cancer <i>Tao JH, Wang XT, Yuan W, Chen JN, Wang ZJ, Ma YB, Zhao FQ, Zhang LY, Ma J, Liu Q</i> Observational Study 4460 Correlation of pressure gradient in three hepatic veins with portal pressure gradient <i>Wang HT, Sung QK, Yue ZD, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Meng MM, Zhang K, Jiang L, Ding HG, Zhang WN, Yang TF, Liu <i>Q</i></i> 4470 Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization <i>Huang JG, Zhang ZT, Li L, Liu GB, Li X</i> 4480 Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 <i>Yang J, Liu LN, Su YT, Liang ZS, Rao HY</i> 4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Crimati N, Canallier F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Morati C, Zanichellt M, Pascarella R, Valzania F, Zade M</i> 4509 Cutaneous muccosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report <i>Higguenot M, Bruhm AC, Esig M</i> 4509 Piexiform neurofibrona of the cauda equina with follow-up of 10 years: A case report and review of literature <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH</i> 4519 Piexiform neurofibrona to the acuda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Jualys R, Cephus S, Duko J, Hendrikson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Au H, Win GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 	4425	Hematopoiesis reconstitution and anti-tumor effectiveness of Pai-Neng-Da capsule in acute leukemia patients with haploidentical hematopoietic stem cell transplantation	
 retrospective study Shan S. Lui S. Yang ZY, Wang TM, Lin ZT, Fong YL, Pakezhati S. Huang XF, Zhang L, Sun GW 4446 Reduced serum high-density lipoprotein cholesterol levels and aberrantly expressed cholesterol metabolism genes in colorectal cancer <i>Tao JH, Wang XT, Yuan W, Chen JN, Wang ZJ, Ma YB, Zhao FQ, Zhang LY, Ma J, Liu Q</i> Observational Study 4460 Correlation of pressure gradient in three hepatic veins with portal pressure gradient <i>Wang YT, Yuan W, Chen JN, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Mang MM, Zhang K, Jiang L, Ding HG, Zhang YV, Yang YP, Liu FQ</i> 4470 Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization <i>Huang JG, Zhang ZY, Li L, Liu GB, Li X</i> 5YSTEMATIC REVIEWS 4480 Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 <i>Yang J, Liu HY, Su YY, Liang ZS, Rao HY</i> CASE REPORT 4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orland N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valcania F, Edde M</i> 4502 Histological remission of cosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Huguenot M, Bruhm AC, Essig M</i> 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskitis Z, Juskys R, Caphus S, Duko J, Hendrixton Y, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal mass		Yuan JJ, Lu Y, Cao JJ, Pei RZ, Gao RL	
 4446 Reduced serum high-density lipoprotein cholesterol levels and aberrantly expressed cholesterol metabolism genes in colorectal cancer <i>Tao JH, Wang XT, Yuan W, Chen JN, Wang ZJ, Ma YB, Zhao FQ, Zhang LY, Ma J, Liu Q</i> Observational Study 4460 Correlation of pressure gradient in three hepatic veins with portal pressure gradient <i>Wang HY, Song QK, Yue ZD, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Meng MM, Zhang K, Jiang L, Ding HG, Zhang YV, Yang YP, Liu FQ</i> 4470 Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization <i>Huang JG, Zhang ZY, Li L, Liu GB, Li X</i> SYSTEMATIC REVIEWS 4480 Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 <i>Yang J, Liu HX, Su YY, Liang ZS, Rao HY</i> CASE REPORT 4494 Bow huntler's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M</i> 4502 Histological remission of cosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Haguenot M, Bruhm AC, Essig M</i> 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LI, Yi RHI</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendritsson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 	4436	Oral and maxillofacial pain as the first sign of metastasis of an occult primary tumour: A fifteen-year retrospective study	
 metabolism genes in colorectal cancer <i>Tao JH, Wang XT, Yuan W, Chen JN, Wang ZJ, Ma YB, Zhao FQ, Zhang LY, Ma J, Liu Q</i> Observational Study Correlation of pressure gradient in three hepatic veins with portal pressure gradient <i>Wang HY, Song QK, Yue ZD, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Meng MM, Zhang K, Jiang L, Ding HG, Zhang YN, Yang YF, Liu FQ</i> Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization <i>Huang JG, Zhang ZY, Li L, Liu GB, Li X</i> SYSTEMATIC REVIEWS Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 <i>Yang J, Liu HX, Su YY, Liang ZS, Rao HY</i> CASE REPORT Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania <i>F, Zedie M</i></i> Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Huguenot M, Bruhm AC, Essig M</i> Cutaneous mucoa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report <i>Chomanskis Z, Juskys R, Ceplus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> Mixed prokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> Isolated pancreatic injury caused by abdominal massage: A case report 		Shan S, Liu S, Yang ZY, Wang TM, Lin ZT, Feng YL, Pakezhati S, Huang XF, Zhang L, Sun GW	
 Observational Study 4460 Correlation of pressure gradient in three hepatic veins with portal pressure gradient Wang HY, Song OK, Yue ZD, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Meng MM, Zhang K, Jiang L, Ding HG, Zhang YY, Yang YF, Liu PQ 4470 Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization <i>Huang JG, Zhang ZY, Li L, Liu GB, Li X</i> 5YSTEMATIC REVIEWS 4480 Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 <i>Yang J, Liu HX, Su YY, Liang ZS, Rao HY</i> CASE REPORT 4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M</i> 4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Huguenot M, Bruhm AC, Essig M</i> 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanshis Z, Jushys R, Ceptus S, Duiko J, Hendrisson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 	4446	Reduced serum high-density lipoprotein cholesterol levels and aberrantly expressed cholesterol metabolism genes in colorectal cancer	
 4460 Correlation of pressure gradient in three hepatic veins with portal pressure gradient Wang HY, Song QK, Yue ZD, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Meng MM, Zhang K, Jiang L, Ding HG, Zhang YN, Yang YP, Liu FQ 4470 Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization <i>Huang JG, Zhang ZY, Li L, Liu GB, Li X</i> 5YSTEMATIC REVIEWS 4480 Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 <i>Yang J, Liu HX, Su YY, Liang ZS, Rao HY</i> CASE REPORT 4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orlandi N, Cavaliteri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzanta F, Zedde M</i> 4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Huguenot M, Bruhm AC, Essig M</i> 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature <i>Liu Y, Zhu J, Huang QR, Zhao LL, Yu RH</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 		Tao JH, Wang XT, Yuan W, Chen JN, Wang ZJ, Ma YB, Zhao FQ, Zhang LY, Ma J, Liu Q	
 Wang HY, Song QK, Yue ZD, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Meng MM, Zhang K, Jiang L, Ding HG, Zhang YN, Yang YP, Liu FQ 4470 Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization Huang JG, Zhang ZY, Li L, Liu GB, Li X SYSTEMATIC REVIEWS 4480 Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 Yang J, Liu HX, Su YY, Liang ZS, Rao HY CASE REPORT 4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M 4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report Huguenot M, Bruhm AC, Essig M 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report Xu HJ, Wen GD 4535 Isolated pancreatic injury caused by abdominal massage: A case report 		Observational Study	
 <i>IN</i>, <i>Yang YP</i>, <i>Liu FQ</i> 4470 Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization <i>Huang JG</i>, <i>Zhang ZY</i>, <i>Li L, Liu GB</i>, <i>Li X</i> SYSTEMATIC REVIEWS 4480 Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 <i>Yang J</i>, <i>Liu HX</i>, <i>Su YY</i>, <i>Liang ZS</i>, <i>Rao HY</i> CASE REPORT 4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orlandi N</i>, <i>Cavallieri F</i>, <i>Grisendi I</i>, <i>Romano A</i>, <i>Ghadirpour R</i>, <i>Napoli M</i>, <i>Moratti C</i>, <i>Zanichelli M</i>, <i>Pascarella R</i>, <i>Valzania F</i>, <i>Zedde M</i> 4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Huguenot M</i>, <i>Bruhm AC</i>, <i>Essig M</i> 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report <i>Huguenot M</i>, <i>Bruhm AC</i>, <i>Essig M</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z</i>, <i>Juskys R</i>, <i>Cepkus S</i>, <i>Dulko J</i>, <i>Hendrixson V</i>, <i>Ruksenas O</i>, <i>Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ</i>, <i>Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 	4460	Correlation of pressure gradient in three hepatic veins with portal pressure gradient	
 less invasive stabilization <i>Huang JG, Zhang ZY, Li L, Liu GB, Li X</i> SYSTEMATIC REVIEWS Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 <i>Yang J, Liu HX, Su YY, Liang ZS, Rao HY</i> CASE REPORT Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M</i> Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Huguenot M, Bruhm AC, Essig M</i> Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH</i> Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> Isolated pancreatic injury caused by abdominal massage: A case report 		Wang HY, Song QK, Yue ZD, Wang L, Fan ZH, Wu YF, Dong CB, Zhang Y, Meng MM, Zhang K, Jiang L, Ding HG, Zhang YN, Yang YP, Liu FQ	
 SYSTEMATIC REVIEWS Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 Yang J, Liu HX, Su YY, Liang ZS, Rao HY CASE REPORT Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report Huguenot M, Bruhm AC, Essig M Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report Xu HJ, Wen GD Isolated pancreatic injury caused by abdominal massage: A case report 	4470	Multi-slice spiral computed tomography in diagnosing unstable pelvic fractures in elderly and effect of less invasive stabilization	
 4480 Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020 <i>Yang J, Liu HX, Su YY, Liang ZS, Rao HY</i> CASE REPORT Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M</i> 4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Huguenot M, Bruhm AC, Essig M</i> 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 		Huang JG, Zhang ZY, Li L, Liu GB, Li X	
 Yang J, Liu HX, Su YY, Liang ZS, Rao HY CASE REPORT 4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M</i> 4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Huguenot M, Bruhm AC, Essig M</i> 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report <i>Huguenot M, Bruhm AC, Essig M</i> 4519 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 		SYSTEMATIC REVIEWS	
 CASE REPORT 4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M 4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report Huguenot M, Bruhm AC, Essig M 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report Xu HJ, Wen GD 4535 Isolated pancreatic injury caused by abdominal massage: A case report 	4480	Distribution and changes in hepatitis C virus genotype in China from 2010 to 2020	
 4494 Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature <i>Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M</i> 4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Huguenot M, Bruhm AC, Essig M</i> 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 		Yang J, Liu HX, Su YY, Liang ZS, Rao HY	
 report and review of literature Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M 4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report Huguenot M, Bruhm AC, Essig M 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report Xu HJ, Wen GD 4535 Isolated pancreatic injury caused by abdominal massage: A case report 		CASE REPORT	
 <i>F, Zedde M</i> 4502 Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report <i>Huguenot M, Bruhm AC, Essig M</i> 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 	4494	Bow hunter's syndrome successfully treated with a posterior surgical decompression approach: A case report and review of literature	
 antibody: A case report <i>Huguenot M, Bruhm AC, Essig M</i> 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 		Orlandi N, Cavallieri F, Grisendi I, Romano A, Ghadirpour R, Napoli M, Moratti C, Zanichelli M, Pascarella R, Valzania F, Zedde M	
 4509 Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 	4502	Histological remission of eosinophilic esophagitis under asthma therapy with IL-5 receptor monoclonal antibody: A case report	
 and review of literature <i>Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH</i> 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 		Huguenot M, Bruhm AC, Essig M	
 4519 Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 	4509	Cutaneous mucosa-associated lymphoid tissue lymphoma complicating Sjögren's syndrome: A case report and review of literature	
 <i>Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S</i> 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 		Liu Y, Zhu J, Huang YH, Zhang QR, Zhao LL, Yu RH	
 4528 Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report <i>Xu HJ, Wen GD</i> 4535 Isolated pancreatic injury caused by abdominal massage: A case report 	4519	Plexiform neurofibroma of the cauda equina with follow-up of 10 years: A case report	
<i>Xu HJ, Wen GD</i>4535 Isolated pancreatic injury caused by abdominal massage: A case report		Chomanskis Z, Juskys R, Cepkus S, Dulko J, Hendrixson V, Ruksenas O, Rocka S	
<i>Xu HJ, Wen GD</i>4535 Isolated pancreatic injury caused by abdominal massage: A case report	4528	Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report	
		Xu HJ, Wen GD	
Sun BL, Zhang LL, Yu WM, Tuo HF	4535	Isolated pancreatic injury caused by abdominal massage: A case report	



World Journal of	
Conter	Thrice Monthly Volume 10 Number 14 May 16, 2022
4541	Bronchiolar adenoma with unusual presentation: Two case reports
	Du Y, Wang ZY, Zheng Z, Li YX, Wang XY, Du R
4550	Periodontal-orthodontic interdisciplinary management of a "periodontally hopeless" maxillary central incisor with severe mobility: A case report and review of literature
	Jiang K, Jiang LS, Li HX, Lei L
4563	Anesthesia management for cesarean section in a pregnant woman with odontogenic infection: A case report
	Ren YL, Ma YS
4569	Convulsive-like movements as the first symptom of basilar artery occlusive brainstem infarction: A case report
	Wang TL, Wu G, Liu SZ
4574	Globe luxation may prevent myopia in a child: A case report
	Li Q, Xu YX
4580	Computer tomography-guided negative pressure drainage treatment of intrathoracic esophagojejunal anastomotic leakage: A case report
	Jiang ZY, Tao GQ, Zhu YF
4586	Primary or metastatic lung cancer? Sebaceous carcinoma of the thigh: A case report
	Wei XL, Liu Q, Zeng QL, Zhou H
4594	Perianesthesia emergency repair of a cut endotracheal tube's inflatable tube: A case report
	Wang TT, Wang J, Sun TT, Hou YT, Lu Y, Chen SG
4601	Diagnosis of cytomegalovirus encephalitis using metagenomic next-generation sequencing of blood and cerebrospinal fluid: A case report
	Xu CQ, Chen XL, Zhang DS, Wang JW, Yuan H, Chen WF, Xia H, Zhang ZY, Peng FH
4608	Primary sigmoid squamous cell carcinoma with liver metastasis: A case report
	Li XY, Teng G, Zhao X, Zhu CM
4617	Acute recurrent cerebral infarction caused by moyamoya disease complicated with adenomyosis: A case report
	Zhang S, Zhao LM, Xue BQ, Liang H, Guo GC, Liu Y, Wu RY, Li CY
4625	Serum-negative Sjogren's syndrome with minimal lesion nephropathy as the initial presentation: A case report
	Li CY, Li YM, Tian M
4632	Successful individualized endodontic treatment of severely curved root canals in a mandibular second molar: A case report
	Xu LJ, Zhang JY, Huang ZH, Wang XZ



	World Journal of Clinical Cases
Conte	Thrice Monthly Volume 10 Number 14 May 16, 2022
4640	Successful treatment in one myelodysplastic syndrome patient with primary thrombocytopenia and secondary deep vein thrombosis: A case report
	Liu WB, Ma JX, Tong HX
4648	Diagnosis of an extremely rare case of malignant adenomyoepithelioma in pleomorphic adenoma: A case report
	Zhang WT, Wang YB, Ang Y, Wang HZ, Li YX
4654	Management about intravesical histological transformation of prostatic mucinous carcinoma after radical prostatectomy: A case report
	Bai SJ, Ma L, Luo M, Xu H, Yang L
4661	Hepatopulmonary metastases from papillary thyroid microcarcinoma: A case report
	Yang CY, Chen XW, Tang D, Yang WJ, Mi XX, Shi JP, Du WD
4669	PD-1 inhibitor in combination with fruquintinib therapy for initial unresectable colorectal cancer: A case report
	Zhang HQ, Huang CZ, Wu JY, Wang ZL, Shao Y, Fu Z
4676	Cutaneous metastasis from esophageal squamous cell carcinoma: A case report
	Zhang RY, Zhu SJ, Xue P, He SQ
4684	Rare pattern of Maisonneuve fracture: A case report
	Zhao B, Li N, Cao HB, Wang GX, He JQ
4691	Suprasellar cistern tuberculoma presenting as unilateral ocular motility disorder and ptosis: A case report
	Zhao BB, Tian C, Fu LJ, Zhang XB
4698	Development of plasma cell dyscrasias in a patient with chronic myeloid leukemia: A case report
	Zhang N, Jiang TD, Yi SH
4704	Ovarian growing teratoma syndrome with multiple metastases in the abdominal cavity and liver: A case report
	Hu X, Jia Z, Zhou LX, Kakongoma N
	LETTER TO THE EDITOR
4709	Perfectionism and mental health problems: Limitations and directions for future research

Nazari N



Contents

Thrice Monthly Volume 10 Number 14 May 16, 2022

ABOUT COVER

Editorial Board Member of World Journal of Clinical Cases, Jamir Pitton Rissardo, MD, Academic Research, Adjunct Associate Professor, Research Associate, Department of Medicine, Federal University of Santa Maria, Santa Maria 97105110, Brazil. jamirrissardo@gmail.com

AIMS AND SCOPE

The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

WJCC mainly publishes articles reporting research results and findings obtained in the field of clinical medicine and covering a wide range of topics, including case control studies, retrospective cohort studies, retrospective studies, clinical trials studies, observational studies, prospective studies, randomized controlled trials, randomized clinical trials, systematic reviews, meta-analysis, and case reports.

INDEXING/ABSTRACTING

The WJCC is now indexed in Science Citation Index Expanded (also known as SciSearch®), Journal Citation Reports/Science Edition, Scopus, PubMed, and PubMed Central. The 2021 Edition of Journal Citation Reports® cites the 2020 impact factor (IF) for WJCC as 1.337; IF without journal self cites: 1.301; 5-year IF: 1.742; Journal Citation Indicator: 0.33; Ranking: 119 among 169 journals in medicine, general and internal; and Quartile category: Q3. The WJCC's CiteScore for 2020 is 0.8 and Scopus CiteScore rank 2020: General Medicine is 493/793.

RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Hua-Ge Yu; Production Department Director: Xu Guo; Editorial Office Director: Jin-Lei Wang,

NAME OF JOURNAL World Journal of Clinical Cases	INSTRUCTIONS TO AUTHORS https://www.wjgnet.com/bpg/gerinfo/204
ISSN	GUIDELINES FOR ETHICS DOCUMENTS
ISSN 2307-8960 (online)	https://www.wjgnet.com/bpg/GerInfo/287
April 16, 2013	https://www.wjgnet.com/bpg/gerinfo/240
FREQUENCY	PUBLICATION ETHICS
Thrice Monthly	https://www.wjgnet.com/bpg/GerInfo/288
EDITORS-IN-CHIEF	PUBLICATION MISCONDUCT
Bao-Gan Peng, Jerzy Tadeusz Chudek, George Kontogeorgos, Maurizio Serati, Ja Hyeon Ku	https://www.wjgnet.com/bpg/gerinfo/208
EDITORIAL BOARD MEMBERS	ARTICLE PROCESSING CHARGE
https://www.wjgnet.com/2307-8960/editorialboard.htm	https://www.wjgnet.com/bpg/gcrinfo/242
PUBLICATION DATE	STEPS FOR SUBMITTING MANUSCRIPTS
May 16, 2022	https://www.wjgnet.com/bpg/GerInfo/239
COPYRIGHT	ONLINE SUBMISSION
© 2022 Baishideng Publishing Group Inc	https://www.f6publishing.com

© 2022 Baishideng Publishing Group Inc. All rights reserved. 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA E-mail: bpgoffice@wjgnet.com https://www.wjgnet.com



W J C C World Journal C Clinical Cases

World Journal of

Submit a Manuscript: https://www.f6publishing.com

World J Clin Cases 2022 May 16; 10(14): 4676-4683

DOI: 10.12998/wjcc.v10.i14.4676

ISSN 2307-8960 (online)

CASE REPORT

Cutaneous metastasis from esophageal squamous cell carcinoma: A case report

Rui-Yan Zhang, Shi-Jie Zhu, Peng Xue, Sheng-Qi He

Specialty type: Oncology

Provenance and peer review: Unsolicited article; Externally peer

reviewed.

Peer-review model: Single blind

Peer-review report's scientific quality classification

Grade A (Excellent): 0 Grade B (Very good): 0 Grade C (Good): C, C Grade D (Fair): 0 Grade E (Poor): 0

P-Reviewer: Mitani S, Japan; Sugiyama Y, Japan

Received: November 27, 2021 Peer-review started: November 27, 2021 First decision: January 12, 2022 Revised: January 27, 2022 Accepted: March 16, 2022 Article in press: March 16, 2022 Published online: May 16, 2022



Rui-Yan Zhang, Shi-Jie Zhu, Peng Xue, Sheng-Qi He, Department of Oncology, Wangjing Hospital, China Academy of Chinese Medicine Sciences, Beijing 100102, China

Corresponding author: Sheng-Qi He, MM, Associate Chief Physician, Department of Oncology, Wangjing Hospital, China Academy of Chinese Medicine Sciences, No. 6 South Central Road, Wangjing Street, Chaoyang District, Beijing 100102, China. heshengqi@sina.com

Abstract

BACKGROUND

Esophageal cancer is a common cause of cancer-related death worldwide. Cutaneous metastasis of esophageal squamous cell carcinoma is rare, particularly in diffuse skin metastasis.

CASE SUMMARY

In this case report, we describe an 82-year-old male who was diagnosed with esophageal squamous cell carcinoma. The tumor was staged as T4N3M1 (Stage IVB). The pathological findings revealed poorly differentiated squamous cell carcinoma of the esophagus. Four months after diagnosis, the patient began chemotherapy, and symptoms were relieved after four cycles of chemotherapy. After that, the patient returned home without a systematic physical examination. One year after diagnosis, the patient realized that the skin of the abdominal wall was hard and rough without pain, and the color became darker than normal skin. Thirteen months after diagnosis, a biopsy of the patient's abdominal lesion revealed that the skin metastasis was derived from the esophagus. Then the patient received two cycles of apatinib combined with docetaxel, but the abdominal lesion worsened. Two cycles of nivolumab were administered, but the patient eventually died of multiple organ failure.

CONCLUSION

This report highlights cutaneous metastasis as a late and untreatable metastasis of esophageal cancer.

Key Words: Esophageal carcinoma; Squamous cell carcinoma; Cutaneous metastasis; Immunological checkpoint inhibitor; Chemotherapy; Case report

©The Author(s) 2022. Published by Baishideng Publishing Group Inc. All rights reserved.

Core Tip: Cutaneous metastasis from esophageal carcinoma is rare, especially esophageal squamous cell carcinoma. We present a patient with squamous cell carcinoma of the esophagus and metastasis to diffuse cutaneous tissue. Second-line chemotherapy and immunological checkpoint inhibitor treatment were not effective, and this patient only achieved a 4-mo survival time after cutaneous metastasis.

Citation: Zhang RY, Zhu SJ, Xue P, He SQ. Cutaneous metastasis from esophageal squamous cell carcinoma: A case report. *World J Clin Cases* 2022; 10(14): 4676-4683 URL: https://www.wjgnet.com/2307-8960/full/v10/i14/4676.htm DOI: https://dx.doi.org/10.12998/wjcc.v10.i14.4676

INTRODUCTION

Esophageal carcinoma accounts for 3.2% of all new cancer cases worldwide[1]. In China, the estimated number of esophageal carcinoma cases in 2015 was 0.37 million[2]. Different from European and North American countries, the main pathological type of Chinese patients with esophageal cancer is squamous cell carcinoma, while this is merely 30% in North American countries[3].

Cutaneous metastasis from esophageal carcinoma is rare, and its prevalence is less than 1%[4]. Lookingbill *et al*[5] conducted a retrospective study of 4020 cutaneous metastasis patients and found only three primary esophageal squamous cell carcinoma cases. We present a patient with squamous cell carcinoma of the esophagus and metastasis to diffuse cutaneous tissue. This patient only achieved a 4-mo survival time after cutaneous metastasis.

CASE PRESENTATION

Chief complaints

An 82-year-old male presented to our clinic and complained of dysphagia and loss of appetite, accompanied by diffuse cutaneous metastasis.

History of present illness

An 82-year-old male presented to our outpatient clinic and complained of difficulty in dysphagia and loss of appetite, accompanied by acid reflux without nausea and vomiting from May 2018. The positron emission tomography/computed tomography (CT) revealed diffuse thickening of the esophagus and stomach wall, with a maximum standard uptake value of 11.2 and bilateral pleural effusion rendering the tumor inoperable (Figure 1A and B). Because the cytology of the patient's pleural fluid revealed pleural metastases, the tumor was staged as T4N3M1 (Stage IVB). The endoscopic study revealed a peripherally protruding neoplasm at 35 cm from the dental arch, which almost completely occluded the esophageal lumen. A biopsy was taken from the circumferential bulge. The pathological findings revealed poorly differentiated squamous cell carcinoma from the esophagus.

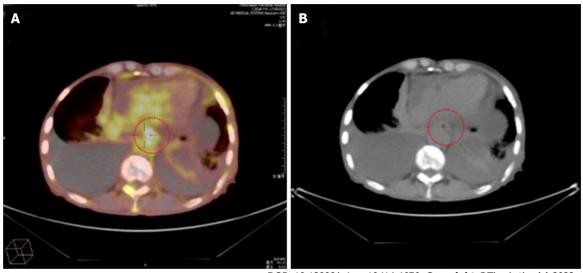
Subsequently, chemotherapy was performed: S-1 50 mg day 1-14, cisplatin 30 mg day 1, 21 d, one period, a total of four cycles (weight, 55 kg; height, 1.62 m; body surface area, 1.64 m²). After four cycles of chemotherapy, the patient's symptoms were relieved, and the pleural effusion disappeared upon evaluation of the lesion, according to the Response Evaluation Criteria in Solid Tumors 1.1 criteria. Furthermore, after completing the four cycles of chemotherapy, the patient had a partial response (based on the medical records provided by the hospital where the patient previously visited). Afterward, the patient went home.

In early March 2019, the patient realized that the skin of the abdominal wall was hard and rough without pain, and the color became darker than the normal skin (Figure 2). The CT scan of the abdomen showed no obvious changes in skin and subcutaneous soft tissue (Figure 3). At the same time, we performed a fine needle biopsy of the skin of the changing part (Figure 2). Pathological results showed that the skin metastasis was derived from the poorly differentiated squamous cell carcinoma of the esophagus (Figure 4). Thus, the patient visited our hospital for a workup for his dysphagia and diffuse cutaneous metastasis. Based on the medical history and pathological findings, the skin metastasis was derived from the poorly differentiated squamous (Figure 4).

History of past illness

The patient had a history of diabetes for 20 years and did not regulate the use of drugs. He denied the history of operation.

Zaisbidena® WJCC | https://www.wjgnet.com



DOI: 10.12998/wjcc.v10.i14.4676 Copyright ©The Author(s) 2022.

Figure 1 Positron emission tomography/computed tomography examination. A, B: Diffuse thickening of the esophagus with an elevated standard uptake value and bilateral pleural effusion.

Personal and family history

The patient had no history of smoking and occasionally drank alcohol. Furthermore, the patient quit drinking before admission to the hospital.

Physical examination

The patient's vital signs were stable. The physical examination of the abdomen revealed that the skin of the abdominal wall was hard and rough without pain, and the color became darker than normal skin (Figure 2).

Laboratory examinations

Blood tumor markers: total prostate specific antigen 6.92 ng/mL, serum CA72-4 61.32 U/mL, alphafetoprotein 3.65 ng/mL, carcinoembryonic antigen 915.10 ng/mL, serum CA125 90.91 U/mL, CA153 38.24 U/mL, gastrin-releasing peptide precursor 74.40 pg/mL, squamous cell carcinoma antigen 2.20 ug/L, neuron-specific enolase 11.00 ng/mL and serum CYFRA21-1 5.06 ng/mL.

Imaging examinations

The abdominal CT revealed no obvious changes in the skin and subcutaneous soft tissue (Figure 3).

Pathological examination

Infiltration of cancer cells was observed in the fibrous connective tissue by the puncture. The cancer cells were distributed in nests, with enlarged nuclei, hyperchromatic nuclei, heteromorphism, increased nucleoplasma ratio, and crowded arrangement (Figure 4A and B). Further immunohistochemical results showed that skin was positive for CK (Figure 4C), P40 (Figure 4D), P63 (Figure 4E), CK5/6 (Figure 4F), partially positive for P53 (Figure 4G), and about 20% positive for Ki67 (Figure 4H). The pathological results revealed that the skin metastasis was derived from the poorly differentiated squamous cell carcinoma of the esophagus (Figure 4).

FINAL DIAGNOSIS

The final diagnosis of the presented case was esophageal squamous cell carcinoma and relapse with cutaneous metastasis after first-line chemotherapy treatment.

TREATMENT

The patient received systemic treatments, including second-line chemotherapy with apatinib and docetaxel.





DOI: 10.12998/wjcc.v10.i14.4676 Copyright ©The Author(s) 2022.

Figure 2 Progression of the cutaneous metastasis disease. A: In July 2018 the normal abdominal wall skin at the beginning of diagnosed esophageal squamous cell carcinoma; B: In March 2019, the patient realized that the skin of the abdominal wall was hard and rough, and the color became darker than normal skin. At the same time, a fine needle biopsy of the skin of the changing part was performed; C: In early May 2019, the patient's cutaneous metastasis significantly increased before the anterior chest wall; D: In early June 2019, the color of the skin lesions was lighter than before. The texture was soft, and the skin lesion did not expand; E, F: At the end of June, the patient's cutaneous metastasis transferred to the anterior chest wall and abdominal wall as well as to the neck and lower limbs.

OUTCOME AND FOLLOW-UP

After two cycles of chemotherapy, the patient's abdominal wall cutaneous metastasis lesions significantly increased. Subsequently, nivolumab (120 mg, intravenous infusion on day 1) treatment was immediately applied. Unfortunately, after two cycles of nivolumab treatment, the patient's condition did not alleviate, and the skin lesions increased. Eventually, the patient died of multiple organ failure.

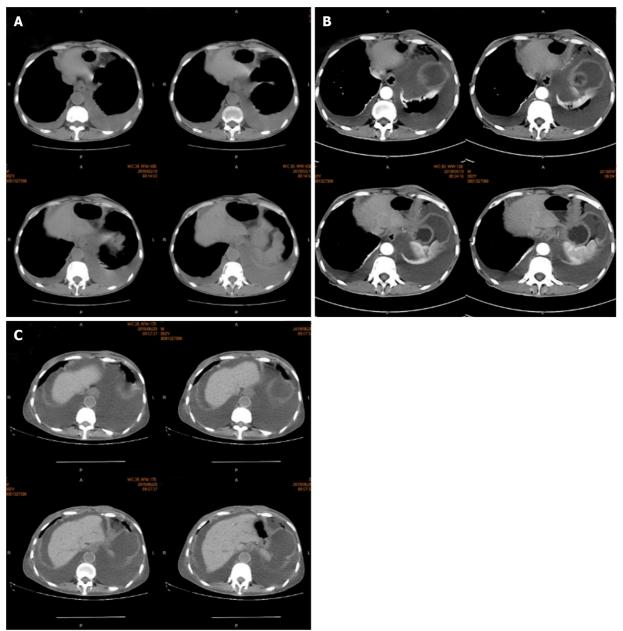
DISCUSSION

In contrast to adenocarcinoma, squamous cell carcinoma is more likely to localize near the tracheal bifurcation, has a proclivity for earlier lymphatic spread and is associated with a poorer prognosis[6]. In Eastern Europe and Asia, squamous cell carcinoma is the most common histology, while adenocarcinoma is the most widespread in North America and West Europe^[7].

The meta-analysis conducted by Strickley *et al*[8] indicated that the overall incidence of cutaneous metastasis is 5.3%. Melanoma and breast cancer is the most prone to metastasize to the skin and subcutaneous tissue[5,7]. However, other malignancies such as lung, colon, head and neck and



Baishidena® WJCC | https://www.wjgnet.com



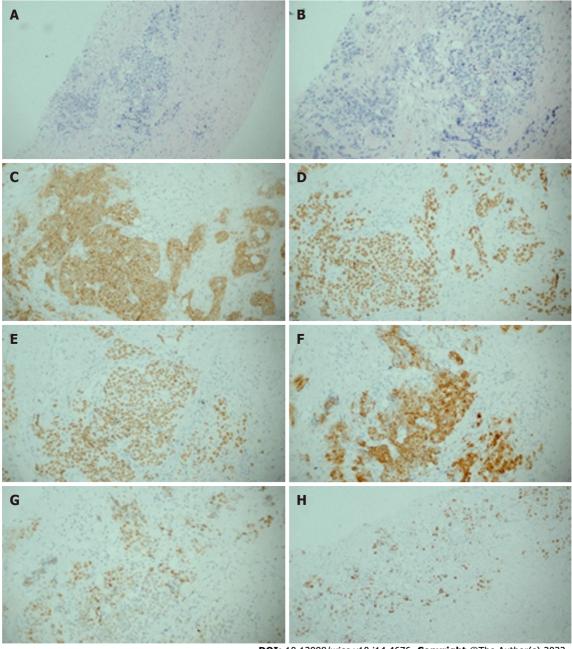
DOI: 10.12998/wjcc.v10.i14.4676 Copyright ©The Author(s) 2022.

Figure 3 Abdominal computed tomography of the skin and subcutaneous soft tissue. A: The chest computed tomography presented pleural effusion, suggesting that the disease recurred; B: This suggested ascites effusion as well as lower esophagus dilation and esophageal wall thickening; C: After two cycles of nivolumab treatment, the effusion increased, and the lower esophagus thickening became obvious. The abdominal computed tomography showed that the abdominal wall skin was thicker than the other parts, but no subcutaneous nodules could be observed. Imaging diagnosis can easily overlook skin thickening.

> hematologic diseases also have been described with a degree of frequency [8]. Furthermore, esophageal carcinoma cutaneous metastasis is rare, especially in esophageal squamous cell carcinoma, and the risk of skin metastasis is lower. However, esophageal adenocarcinoma more commonly metastasizes to the skin[4]. The manifestation of skin metastasis from esophageal cancer reported by most of the literature is scattered nodules that are rarely painful^[9]. The retrospective analysis reported by Ferreira *et al*^[10] revealed that similar to esophageal cancer, adenocarcinoma is the histological type of lung cancer most prone to skin metastasis. However, the most common clinical manifestation of skin metastasis of lung cancer is single nodules, and the most common site is the head^[11]. Different from esophageal and lung cancer, typical ductal or lobular carcinoma tends to involve skin metastases to the thorax and abdomen, occasionally with hardened, erythematous plaques[12]. Nevertheless, the most common clinical presentation is single or multiple skin-toned or pink nodules[13].

> Different from the literature, the present patient's skin was mainly characterized by diffuse thickening and roughness. Cutaneous metastasis from esophageal carcinoma is rare and predominantly occurs in late tumor status. This suggested a rapid disease, as shown in Figure 3. The chest CT presented pleural effusion, suggesting that the disease recurred again (Figure 3A). The results suggested ascites effusion, lower esophagus dilation and esophageal wall thickening (Figure 3B). After two cycles of





DOI: 10.12998/wjcc.v10.i14.4676 Copyright ©The Author(s) 2022.

Figure 4 Histological patterns of skin lesions. A, B: The hematoxylin and eosin staining of sites for the fine needle biopsy specimen revealed esophageal squamous cell carcinoma in A (magnification × 10), B (magnification × 20); C: Representative immunohistochemical staining for CK in the skin (magnification × 20); D:: Representative immunohistochemical staining for P40 in the skin (magnification × 20); E: Representative immunohistochemical staining for P63 in the skin (magnification × 20); F: Representative immunohistochemical staining for CK5/6 in the skin (magnification × 20); G: Representative immunohistochemical staining for P53 in the skin (magnification × 20); H: Representative immunohistochemical staining for Ki67 in the skin (magnification × 10).

> nivolumab treatment, the effusion increased, and the lower esophagus thickening became obvious (Figure 3C). The abdominal CT revealed that the abdominal wall skin was thicker than the other parts, but no subcutaneous nodules were observed. Imaging diagnosis can easily overlook the skin thickening progression and impending generalized metastatic spread[14]. Patients with esophageal cancer cutaneous metastasis have a poor prognosis. The average survival time after the development of cutaneous metastases is approximately only 4 mo[5].

> Fine-needle aspiration cytology is a rapid and safe technique that can be used for the diagnosis of skin metastases. The critical evaluation of cytomorphological features, along with relevant clinical details, can help in the localization of unknown primary sites in some cases. Furthermore, the critical assessment of the morphological features of cells and the associated clinical details can help determine the source of the skin metastatic lesion[15].

> Chemotherapy is the standard treatment for advanced esophageal cancer with distant metastases. Commonly used agents include 5-fluorouracil, platinum agents and taxanes. However, the objective

Baisbidena® WJCC | https://www.wjgnet.com

response rate of platinum-containing dual-agent chemotherapy for esophageal squamous cell carcinoma is not high[16-18]. Immunotherapy with antibodies against PD-1 immunological checkpoints has exhibited optimistic results in the treatment of esophageal squamous cell carcinoma patients. A phase 2 clinical study, which included 64 patients, confirmed nivolumab monotherapy for advanced esophageal squamous cell carcinoma. The primary endpoint was the objective response rate, and the objective response rate was 17%. The conclusion suggests that nivolumab showed promising activity with a manageable safety profile in patients with esophageal advanced squamous cell carcinoma refractory or intolerant to standard therapies^[19].

Therefore, investigators attempted to apply nivolumab for the treatment of esophageal cancer with skin metastases. In the present case, the patient was older (82-years-old), received third-line treatment, had a physical status score of 2 points and had multiple metastases with a heavier tumor burden. Hence, the treatment response at the immune checkpoint was poor[20]. Furthermore, the immune checkpoint inhibitor took a long time to achieve significant antitumor effects. After two cycles of immunological checkpoint inhibitor treatment, the tumor progressed, and the patient died. Therefore, based on the clinical trial data, it is recommended to apply the immune checkpoint inhibitor early.

In summary, extensive cutaneous metastasis of esophageal squamous cell carcinoma is extremely rare. Distributed skin metastases indicate that the tumor has advanced, and the prognosis is poor. The best treatment is timely systemic chemotherapy. For elderly patients with extensive skin metastases, immunotherapy after second-line or more than third-line treatment is less effective. This may be correlated to the low immunity of the patient, the lack of immune cell reserves and the inability to mobilize effective immune cells to clear the tumor. This hypothesis requires more experiments.

CONCLUSION

Diffuse cutaneous metastasis of esophageal squamous cell carcinoma is rare, and second-line chemotherapy and immunological checkpoint inhibitor treatment are not effective.

FOOTNOTES

Author contributions: Xue P and He SQ were the patient's oncologists, reviewed the literature and contributed to manuscript drafting; Zhang RY interpreted the imaging and pathology pictures, reviewed the literature and contributed to manuscript drafting; Zhu SJ and He SQ were responsible for the revision of the manuscript for important intellectual content; All authors issued final approval for the version to be submitted.

Informed consent statement: Treatment consent has been obtained.

Conflict-of-interest statement: The authors have no potential conflicts of interest to disclose.

CARE Checklist (2016) statement: The authors have read the CARE Checklist (2016), and the manuscript was prepared and revised according to the CARE Checklist (2016).

Open-Access: This article is an open-access article that was selected by an in-house editor and fully peer-reviewed by external reviewers. It is distributed in accordance with the Creative Commons Attribution NonCommercial (CC BY-NC 4.0) license, which permits others to distribute, remix, adapt, build upon this work non-commercially, and license their derivative works on different terms, provided the original work is properly cited and the use is noncommercial. See: https://creativecommons.org/Licenses/by-nc/4.0/

Country/Territory of origin: China

ORCID number: Rui-Yan Zhang 0000-0002-0798-7878; Shi-Jie Zhu 0000-0001-7727-557X; Peng Xue 0000-0002-9077-9542; Sheng-Qi He 0000-0001-7712-0842.

S-Editor: Wang JL L-Editor: Filipodia P-Editor: Wang JL

REFERENCES

- Bray F, Ferlay J, Soerjomataram I, Siegel RL, Torre LA, Jemal A. Global cancer statistics 2018: GLOBOCAN estimates of 1 incidence and mortality worldwide for 36 cancers in 185 countries. CA Cancer J Clin 2018; 68: 394-424 [PMID: 30207593 DOI: 10.3322/caac.21492
- Chen W, Zheng R, Baade PD, Zhang S, Zeng H, Bray F, Jemal A, Yu XQ, He J. Cancer statistics in China, 2015. CA



Cancer J Clin 2016; 66: 115-132 [PMID: 26808342 DOI: 10.3322/caac.21338]

- Torre LA, Siegel RL, Ward EM, Jemal A. Global Cancer Incidence and Mortality Rates and Trends -- An Update. Cancer 3 Epidemiol Biomarkers Prev 2016; 25: 16-27 [PMID: 26667886 DOI: 10.1158/1055-9965.EPI-15-0578]
- Quint LE, Hepburn LM, Francis IR, Whyte RI, Orringer MB. Incidence and distribution of distant metastases from newly diagnosed esophageal carcinoma. Cancer 1995; 76: 1120-1125 [PMID: 8630886 DOI: 10.1002/1097-0142(19951001)76:7<1120::aid-cncr2820760704>3.0.co;2-w]
- 5 Lookingbill DP, Spangler N, Helm KF. Cutaneous metastases in patients with metastatic carcinoma: a retrospective study of 4020 patients. J Am Acad Dermatol 1993; 29: 228-236 [PMID: 8335743 DOI: 10.1016/0190-9622(93)70173-q]
- Siewert JR, Ott K. Are squamous and adenocarcinomas of the esophagus the same disease? Semin Radiat Oncol 2007; 17: 6 38-44 [PMID: 17185196 DOI: 10.1016/j.semradonc.2006.09.007]
- 7 Shaheen O, Ghibour A, Alsaid B. Esophageal Cancer Metastases to Unexpected Sites: A Systematic Review. Gastroenterol Res Pract 2017; 2017: 1657310 [PMID: 28659974 DOI: 10.1155/2017/1657310]
- 8 Strickley JD, Jenson AB, Jung JY. Cutaneous Metastasis. Hematol Oncol Clin North Am 2019; 33: 173-197 [PMID: 30497674 DOI: 10.1016/j.hoc.2018.08.008]
- 9 Schwartz RA. Cutaneous metastatic disease. J Am Acad Dermatol 1995; 33: 161-82; quiz 183 [PMID: 7622642 DOI: 10.1016/0190-9622(95)90231-71
- Ferreira L, Luís F, Cabral F. [Lung cancer and cutaneous metastasis]. Rev Port Pneumol 2004; 10: 475-484 [PMID: 10 15735887 DOI: 10.1016/s0873-2159(15)30615-2]
- 11 Marcoval J, Penín RM, Llatjós R, Martínez-Ballarín I. Cutaneous metastasis from lung cancer: retrospective analysis of 30 patients. Australas J Dermatol 2012; 53: 288-290 [PMID: 23157780 DOI: 10.1111/j.1440-0960.2011.00828.x]
- 12 Choate EA, Nobori A, Worswick S. Cutaneous Metastasis of Internal Tumors. Dermatol Clin 2019; 37: 545-554 [PMID: 31466594 DOI: 10.1016/j.det.2019.05.012]
- Krathen RA, Orengo IF, Rosen T. Cutaneous metastasis: a meta-analysis of data. South Med J 2003; 96: 164-167 [PMID: 13 12630642 DOI: 10.1097/01.SMJ.0000053676.73249.E5]
- Shvili Y, Talmi YP, Gal R, Kessler E, Kolkov Z, Zohar Y. Basaloid-squamous carcinoma of larynx metastatic to the skin of the nasal tip. J Craniomaxillofac Surg 1990; 18: 322-324 [PMID: 2262555 DOI: 10.1016/s1010-5182(05)80541-4]
- Handa U, Kundu R, Dimri K. Cutaneous Metastasis: A Study of 138 Cases Diagnosed by Fine-Needle Aspiration 15 Cytology. Acta Cytol 2017; 61: 47-54 [PMID: 28002821 DOI: 10.1159/000453252]
- lizuka T, Kakegawa T, Ide H, Ando N, Watanabe H, Tanaka O, Takagi I, Isono K, Ishida K, Arimori M. Phase II 16 evaluation of cisplatin and 5-fluorouracil in advanced squamous cell carcinoma of the esophagus: a Japanese Esophageal Oncology Group Trial. Jpn J Clin Oncol 1992; 22: 172-176 [PMID: 1518165]
- Kato K, Tahara M, Hironaka S, Muro K, Takiuchi H, Hamamoto Y, Imamoto H, Amano N, Seriu T. A phase II study of 17 paclitaxel by weekly 1-h infusion for advanced or recurrent esophageal cancer in patients who had previously received platinum-based chemotherapy. Cancer Chemother Pharmacol 2011; 67: 1265-1272 [PMID: 20703479 DOI: 10.1007/s00280-010-1422-x
- 18 Muro K, Hamaguchi T, Ohtsu A, Boku N, Chin K, Hyodo I, Fujita H, Takiyama W, Ohtsu T. A phase II study of singleagent docetaxel in patients with metastatic esophageal cancer. Ann Oncol 2004; 15: 955-959 [PMID: 15151954 DOI: 10.1093/annonc/mdh231]
- Kudo T, Hamamoto Y, Kato K, Ura T, Kojima T, Tsushima T, Hironaka S, Hara H, Satoh T, Iwasa S, Muro K, Yasui H, Minashi K, Yamaguchi K, Ohtsu A, Doki Y, Kitagawa Y. Nivolumab treatment for oesophageal squamous-cell carcinoma: an open-label, multicentre, phase 2 trial. Lancet Oncol 2017; 18: 631-639 [PMID: 28314688 DOI: 10.1016/S1470-2045(17)30181-X
- Haratani K, Hayashi H, Chiba Y, Kudo K, Yonesaka K, Kato R, Kaneda H, Hasegawa Y, Tanaka K, Takeda M, Nakagawa K. Association of Immune-Related Adverse Events With Nivolumab Efficacy in Non-Small-Cell Lung Cancer. JAMA Oncol 2018; 4: 374-378 [PMID: 28975219 DOI: 10.1001/jamaoncol.2017.2925]





Published by Baishideng Publishing Group Inc 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA Telephone: +1-925-3991568 E-mail: bpgoffice@wjgnet.com Help Desk: https://www.f6publishing.com/helpdesk https://www.wjgnet.com

