# 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



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



| <b>C</b> | World Journal of Clinical Cases   |
|----------|---|
| 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<br>World Journal of Clinical Cases                                       | INSTRUCTIONS TO AUTHORS<br>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<br>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 of Clinical Cases

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

World J Clin Cases 2022 May 16; 10(14): 4528-4534

DOI: 10.12998/wjcc.v10.i14.4528

ISSN 2307-8960 (online)

CASE REPORT

# Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report

Hong-Jun Xu, Guang-Dong Wen

#### Specialty type: Dermatology

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 Grade D (Fair): 0 Grade E (Poor): 0

P-Reviewer: Sridharan G, India

Received: July 30, 2021 Peer-review started: July 30, 2021 First decision: December 1, 2021 Revised: December 11, 2021 Accepted: March 25, 2022 Article in press: March 25, 2022 Published online: May 16, 2022



Hong-Jun Xu, Department of Dermatology, Beijing Friendship Hospital, Capital Medical University, Beijing 100050, China

Guang-Dong Wen, Department of Dermatology, Peking University People's Hospital, Peking University, Beijing 100044, China

Corresponding author: Hong-Jun Xu, MD, Chief Doctor, Department of Dermatology, Beijing Friendship Hospital, Capital Medical University, No. 95 Yong'an Road, Xicheng District, Beijing 100050, China. ink-008@163.com

## Abstract

#### BACKGROUND

Porokeratosis is a rare, acquired, or inherited disorder of keratinization. There are numerous clinical types of porokeratosis and they can coexist in one patient and multiple members of an affected family. However, coexistence of disseminated superficial actinic porokeratosis (DSAP) and porokeratosis ptychotropica (Ppt) is rare.

#### CASE SUMMARY

A 45-year-old man presented with long-standing skin lesions. Physical examination identified numerous small, brown 2-mm to 4-mm patches on his face and several hyperkeratotic, verrucous plaques on his trunk and extremities. His father and one of his brothers also had similar lesions for years. Skin biopsies indicated a cornoid lamella in the epidermis. We identified c.155G>A mutation in the mevalonate kinase (MVK) gene, which converted a serine residue to asparagine (p.Ser52Asn) and was causative for porokeratosis in this family. A clinicopathologic diagnosis of DSAP and Ppt with a novel MVK gene mutation was made. The hyperkeratotic plaques on the patient's scrotum were completely removed more than 10 times using a microwave knife.

#### **CONCLUSION**

An unusual case of DSAP coexisting with Ppt harbored a novel MVK gene mutation also present in the patient's family.

Key Words: Disseminated superficial actinic porokeratosis; Porokeratosis ptychotropica; Mevalonate kinase gene; Gene mutation; Microwave knife; Case report

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



**Core Tip:** Porokeratosis is a rare, acquired, or inherited disorder of keratinization. The coexistence of disseminated superficial actinic porokeratosis (DSAP) and porokeratosis ptychotropica (Ppt) is rare. We present an unusual case of DSAP coexisting with Ppt and identified a novel mevalonate kinase (MVK) gene mutation in this patient's family. To date, only four cases of DSAP coexisting with Ppt have been reported in the English literature. One case also had an MVK gene mutation. Thus, mutation of phosphomevalonate kinase pathway genes, especially the MVK gene, may have an important role in the pathogenesis of DSAP coexisting with Ppt.

**Citation**: Xu HJ, Wen GD. Mixed porokeratosis with a novel mevalonate kinase gene mutation: A case report. *World J Clin Cases* 2022; 10(14): 4528-4534

**URL:** https://www.wjgnet.com/2307-8960/full/v10/i14/4528.htm **DOI:** https://dx.doi.org/10.12998/wjcc.v10.i14.4528

#### INTRODUCTION

Porokeratosis is a rare, acquired, or inherited disorder of keratinization, which presents as a keratotic papule or plaque with an annular ridge-like border[1]. Its main histological characteristic is a cornoid lamella, a thin column of parakeratosis leading to a ridge-like hyperkeratotic border. Numerous types of porokeratosis have been described and there are reports of more than one type of porokeratosis developing in the same patient and in multiple members of an affected family[2]. Inherited or sporadic genetic defects have an important role in porokeratosis. Correlations between gene mutations and clinical phenotypes of porokeratosis have been reported previously[3]. Porokeratosis lesions may alter a patient's appearance or function. Furthermore, some cases develop squamous cell carcinoma within the porokeratosis lesions. Currently, no therapeutic interventions with good efficacy are available although various topical, surgical, destructive, and systemic therapies appear to be effective in some patients. Here, we report a rare case of disseminated superficial actinic porokeratosis (DSAP) and porokeratosis ptychotropica (Ppt) associated with a mevalonate kinase (MVK) gene mutation which was successfully treated by surgery.

#### **CASE PRESENTATION**

#### Chief complaints

A 45-year-old man complained of long-standing skin lesions.

#### History of present illness

The lesions started as brown patches on his face and gradually spread to the trunk and extremities with verrucous plaques 30 years ago. Involvement of the scrotum occurred 20 years ago.

#### History of past illness

The patient had no medical history and reported no history of ultraviolet exposure, immunosuppression, or immunodeficiency caused by human immunodeficiency virus (HIV) infection, tumors, or drugs.

#### Personal and family history

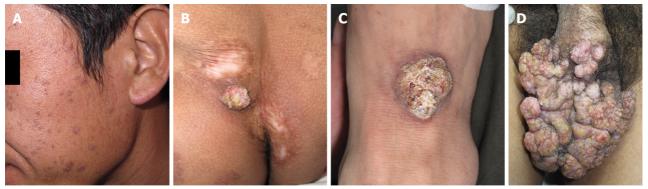
The patient's father and one of his brothers had similar lesions for years.

#### Physical examination

Physical examination identified numerous small, brown 2-mm to 4-mm patches on his face (Figure 1A) and several hyperkeratotic, verrucous plaques on his trunk (Figure 1B) and extremities (Figure 1C). The widespread verrucous plaques with erosions and crust on his scrotum (Figure 1D) affected his normal life.

#### Laboratory examinations

Laboratory investigations including routine blood examination, hepatic and renal function, HIV antibody, *Treponema pallidum* hemagglutination test, rapid plasma reagin test, human papillomavirus, hepatitis B and C, tumor markers, and autoimmune screens were all negative.



DOI: 10.12998/wjcc.v10.i14.4528 Copyright ©The Author(s) 2022.

Figure 1 Skin lesions of the patient. A: Small, brown patches on the face. B-D: Hyperkeratotic, verrucous plaques on the trunk and extremities and widespread verrucous plagues with erosions and crust on the scrotum.

#### Imaging examinations

Skin biopsies taken from the hyperkeratotic plaques of lesions on his scrotum showed irregular acanthosis and papillomatosis as well as a cornoid lamella in the epidermis and the absence of the granular layer beneath it (Figure 2).

#### Gene testing

After obtaining informed consent, genomic DNA was extracted from the proband and his affected and unaffected family members, and all exons of four mevalonate pathway genes including MVK, mevalonate decarboxylase (MVD), phosphomevalonate kinase (PMVK), and farnesyl diphosphate synthase (FDPS) with intronic flanking sequences were amplified by PCR. In addition, genomic DNA from 100 normal healthy Chinese individuals was extracted as controls. Bidirectional sequencing identified a heterozygous synonymous mutation c.155G>A in exon 18 of the MVK gene, which was not present in the unaffected family members and controls (Figure 3). This c.155 G>A mutation in the MVK gene converted a serine residue to asparagine (p.Ser52Asn) and was the causative mutation for porokeratosis in this family.

#### FINAL DIAGNOSIS

A clinicopathologic diagnosis of DSAP and Ppt with MVK gene mutation was made.

#### TREATMENT

The hyperkeratotic plaques on the patient's scrotum were completely removed more than 10 times using a microwave knife (Figure 4).

#### OUTCOME AND FOLLOW-UP

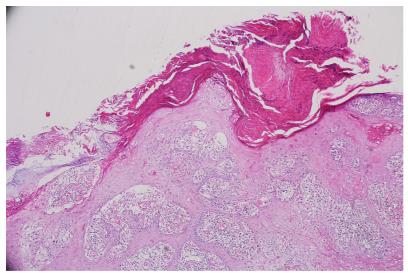
The patient has had no recurrence during 6-years of follow-up.

#### DISCUSSION

Porokeratosis represents a heterogeneous group of hereditary and acquired disorders of the clonal hyperproliferation of keratinocytes<sup>[4]</sup>. The characteristic ridge-like, keratotic border termed the "cornoid lamella" confirms the diagnosis of porokeratosis. Several clinical variants of porokeratosis have been described, all of which share this distinctive feature.

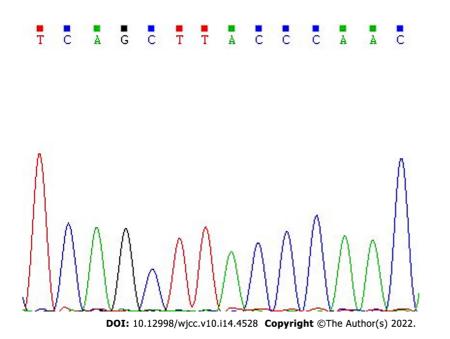
DSAP is the most common type of porokeratosis. It presents as keratotic papules with a welldemarcated elevated border, usually ranging from 3 mm to 10 mm in diameter. They are typically skincolored to tan-brown to pink-red in color. DSAP usually occurs in the third or fourth decade of life, and patients frequently report a history of extensive exposure to ultraviolet radiation. For this reason, it usually occurs in body areas exposed to the sun, especially the shins and extensor forearms. Lesions on

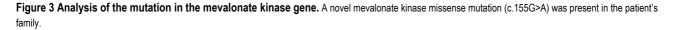




DOI: 10.12998/wjcc.v10.i14.4528 Copyright ©The Author(s) 2022.

Figure 2 Histopathological examination shows a cornoid lamella in the epidermis (hematoxylin-eosin staining, original magnification: ×100).





our patient's face were typical of DSAP. Although 15% of DSAP patients have facial lesions, exclusively facial DSAP is an unusual clinical presentation[5]. Ppt is an unusual psoriasiform variant of porokeratosis[6-8], which typically presents with pruritic, red to brown, keratotic, or verrucous papules and plaques on the buttocks or genital skin[8]. Sometimes, these lesions can coalesce. Due to their clinical similarities, Ppt is often mistaken for psoriasis[9] and chronic eczema. Therefore, a skin biopsy is a useful method for differential diagnosis. The verrucous plaques on our patient's scrotum, buttocks, and limbs were diagnosed as Ppt according to the pathologic findings.

Previous studies have reported the coexistence of multiple types of porokeratosis in the same individual[10-20]; however, the co-occurrence of DSAP with Ppt is rare. To the best of our knowledge, this is the fifth case reported in the English literature to date [7,21-23] (Table 1).

The pathogenesis of porokeratosis is poorly understood. Risk factors include genetic susceptibility, exposure to ultraviolet radiation, and immunosuppression. Previous studies reported mutations in the phosphomevalonate kinase pathway genes, including MVD, MVK, PMVK, and FDPS in patients with porokeratosis[24,25]. At least one mutation in a mevalonate pathway gene was found in 98% of familial cases and in > 70% of sporadic porokeratosis cases<sup>[3]</sup>. Among the above five patients previously



| Table 1 Clinical features of patients with coexisting disseminated superficial actinic porokeratosis and porokeratosis ptychotropica |        |          |           |                   |                                   |  |   |   |  |
|--|--------|----------|-----------|-------------------|-----------------------------------|--|---|---|--|
| Ref.   | Gender | Age      | Ethnicity | Nationality       | Clinical variants                 | Genetics   | Risk factors                                  | Treatment   |  |
| Thomas <i>et al</i> [21]   | Female | 78<br>yr | NA        | United<br>Kingdom | DSAP, Ppt                         | NA   | None  | NA  |  |
| McGuigan et<br>al[7]   | Male   | 84<br>yr | NA        | United States     | DSAP, Ppt                         | NA   | Sun exposure, non-<br>melanoma skin<br>cancer | 0.025% tretinoin cream,<br>0.05% tazarotene<br>cream. |  |
| Murase <i>et al</i> [22]   | Female | 73<br>yr | Korean    | Korea             | DSAP, Ppt linear<br>porokeratosis | NA   | Family history                                | NA  |  |
| Peng et al<br>[23]   | Male   | 70<br>yr | Chinese   | China             | DSAP, Ppt                         | MVK missense mutation<br>(c.1039G>C, p.Gl-<br>y347Arg) | Family history                                | Oral acitretin (20 mg<br>daily)                       |  |
| Our patient  | Male   | 45<br>yr | Chinese   | China             | DSAP, Ppt                         | MVK missense mutation<br>(c.155G>A, p.Ser52Asn)        | Family history                                | Microwave knife                                       |  |

DSAP: Disseminated superficial actinic porokeratosis; Ppt: Porokeratosis ptychotropica; MVK: mevalonate kinase; NA: Not available.



DOI: 10.12998/wjcc.v10.i14.4528 Copyright ©The Author(s) 2022.

#### Figure 4 The lesions on the patient's scrotum were completely removed after microwave knife treatment.

reported, two had genetic results. Peng et al[23] identified a novel MVK missense mutation (c.1039G>C, p.Gly347Arg) in a family with coexisting DSAP and Ppt. In our patient's family, another MVK missense mutation (c.155G>A, p.Ser52Asn) was found. Although this mutation was previously reported as benign, we suggest it is a novel mutation associated with porokeratosis. Functional analysis of this mutation in vitro and in vivo should be performed in future studies. The findings in these two cases suggest that the mutation of phosphomevalonate kinase pathway genes, especially the MVK gene, might have an important role in the pathogenesis of DSAP coexisting with Ppt. Genetic analysis is useful in affected families to predict the occurrence of these lesions in other individuals of the same family.

Patients with porokeratosis have a 7.5%-10% risk of malignant transformation to squamous cell carcinoma or basal cell carcinoma<sup>[26]</sup>. Thus, clinical surveillance with regular skin examinations and patient education regarding the warning signs of skin cancer and sun protection are necessary aspects of the management in all patients with porokeratosis. However, some patients with functional impairments or appearance requirements want to have their porokeratosis lesions removed. There are five main types of treatment for porokeratosis: Topical or systemic drug therapy, surgical excision, cryotherapy, laser ablation, and photodynamic therapy. However, the disease commonly reoccurs. We used a microwave knife to remove the hyperkeratotic plaques on the patient's scrotum. The patient did not show any functional impairment related to this treatment and did not develop disease aggravation or recurrence during 6-years of follow-up. This indicates that the microwave knife is an effective and



safe therapy for porokeratosis.

#### CONCLUSION

In conclusion, we report an unusual case of DSAP coexisting with Ppt and identified a novel MVK gene mutation in this patient's family. The microwave knife is an effective and safe therapy for porokeratosis and clinical surveillance for malignant transformation is necessary for all patients with porokeratosis.

#### FOOTNOTES

Author contributions: Xu HJ collected all the clinical data and wrote the draft manuscript. Wen GD completed the gene analysis; all authors read and approved the final manuscript.

Informed consent statement: Written informed consent was obtained from the patient for publication of this case report and any accompanying images. A copy of the written consent is available for review from the Editor of this iournal.

Conflict-of-interest statement: The authors declare that they have no conflict of interest to report.

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: Hong-Jun Xu 0000-0002-4002-1549; Guang-Dong Wen 0000-0002-9221-7033.

S-Editor: Liu JH L-Editor: Webster JR P-Editor: Liu JH

#### REFERENCES

- Kanitakis J. Porokeratoses: an update of clinical, aetiopathogenic and therapeutic features. Eur J Dermatol 2014; 24: 533-1 544 [PMID: 25115203 DOI: 10.1684/ejd.2014.2402]
- Lucker GP, Steijlen PM. The coexistence of linear and giant porokeratosis associated with Bowen's disease. Dermatology 1994; 189: 78-80 [PMID: 8003795 DOI: 10.1159/000246791]
- Zhang Z, Li C, Wu F, Ma R, Luan J, Yang F, Liu W, Wang L, Zhang S, Liu Y, Gu J, Hua W, Fan M, Peng H, Meng X, Song N, Bi X, Gu C, Zhang Z, Huang Q, Chen L, Xiang L, Xu J, Zheng Z, Jiang Z. Genomic variations of the mevalonate pathway in porokeratosis. Elife 2015; 4: e06322 [PMID: 26202976 DOI: 10.7554/eLife.06322]
- 4 Sertznig P, von Felbert V, Megahed M. Porokeratosis: present concepts. J Eur Acad Dermatol Venereol 2012; 26: 404-412 [PMID: 21929548 DOI: 10.1111/j.1468-3083.2011.04275.x]
- 5 Sawyer R, Picou KA. Facial presentation of disseminated superficial actinic porokeratosis. Ear Nose Throat J 1989; 68: 57-59 [PMID: 2721409]
- 6 Tallon B, Blumental G, Bhawan J. Porokeratosis ptychotropica: a lesser-known variant. Clin Exp Dermatol 2009; 34: e895e897 [PMID: 20055860 DOI: 10.1111/j.1365-2230.2009.03664.x]
- 7 McGuigan K, Shurman D, Campanelli C, Lee JB. Porokeratosis ptychotropica: a clinically distinct variant of porokeratosis. J Am Acad Dermatol 2009; 60: 501-503 [PMID: 19022531 DOI: 10.1016/j.jaad.2008.06.038]
- Yeo J, Winhoven S, Tallon B. Porokeratosis ptychotropica: a rare and evolving variant of porokeratosis. J Cutan Pathol 8 2013; 40: 1042-1047 [PMID: 24274427 DOI: 10.1111/cup.12233]
- De Simone C, Paradisi A, Massi G, Proietti I, Capponi A, Amerio PL, Capizzi R. Giant verrucous porokeratosis of Mibelli mimicking psoriasis in a patient with psoriasis. J Am Acad Dermatol 2007; 57: 665-668 [PMID: 17870431 DOI: 10.1016/j.jaad.2007.03.020]
- Moreland ME, Wyre HW Jr. Porokeratosis. Two morphologic forms within a family. Arch Dermatol 1981; 117: 245-246 10 [PMID: 7212751 DOI: 10.1001/archderm.117.4.245]
- Dover JS, Phillips TJ, Burns DA, Krafchik BR. Disseminated superficial actinic porokeratosis. Coexistence with other 11 porokeratotic variants. Arch Dermatol 1986; 122: 887-889 [PMID: 3740871]



- 12 Commens CA, Shumack SP. Linear porokeratosis in two families with disseminated superficial actinic porokeratosis. *Pediatr Dermatol* 1987; **4**: 209-214 [PMID: 3321004 DOI: 10.1111/j.1525-1470.1987.tb00780.x]
- 13 Gautam RK, Bedi GK, Schgal VN, Singh N. Simultaneous occurrence of disseminated superficial actinic porokeratosis (DSAP), linear, and punctate porokeratosis. Int J Dermatol 1995; 34: 71-72 [PMID: 7896495 DOI: 10.1111/j.1365-4362.1995.tb04387.x]
- 14 Freyschmidt-Paul P, Hoffmann R, König A, Happle R. Linear porokeratosis superimposed on disseminated superficial actinic porokeratosis: report of two cases exemplifying the concept of type 2 segmental manifestation of autosomal dominant skin disorders. J Am Acad Dermatol 1999; 41: 644-647 [PMID: 10495390]
- 15 Suh DH, Lee HS, Kim SD, Cho KH, Kim KH, Park KC. Coexistence of disseminated superficial porokeratosis in childhood with congenital linear porokeratosis. Pediatr Dermatol 2000; 17: 466-468 [PMID: 11123781 DOI: 10.1046/j.1525-1470.2000.01823.x
- Kaur S, Thami GP, Mohan H, Kanwar AJ. Co-existence of variants of porokeratosis: a case report and a review of the 16 literature. J Dermatol 2002; 29: 305-309 [PMID: 12081163 DOI: 10.1111/j.1346-8138.2002.tb00268.x]
- Boente Mdel C, López-Baró AM, Frontini Mdel V, Asial RA. Linear porokeratosis associated with disseminated 17 superficial actinic porokeratosis: a new example of type II segmental involvement. Pediatr Dermatol 2003; 20: 514-518 [PMID: 14651573 DOI: 10.1111/j.1525-1470.2003.20613.x]
- Pearson IC, Cliff S. Case 6: plaques extending in a linear pattern from left ankle to hip forming over a 2-year period. 18 Diagnosis: linear porokeratosis with disseminated superficial porokeratosis erupting in pregnancy. Clin Exp Dermatol 2003; 28: 345-346 [PMID: 12780739 DOI: 10.1046/j.1365-2230.2003.01278.x]
- Suárez-Amor O, Pereiro-Ferreirós M, Ginarte M, Peteiro C, Toribio J. Coexistence of linear porokeratosis and 19 disseminated superficial actinic porokeratosis: a type 2 segmental manifestation. Acta Derm Venereol 2007; 87: 363-364 [PMID: 17598043 DOI: 10.2340/00015555-0215]
- 20 Palleschi GM, Torchia D. Porokeratosis of Mibelli and superficial disseminated porokeratosis. J Cutan Pathol 2008; 35: 253-255 [PMID: 18190456 DOI: 10.1111/j.1600-0560.2007.00787.x]
- 21 Thomas C, Ogboli MI, Carr RA, Charles-Holmes R. Hypertrophic perianal porokeratosis in association with superficial actinic porokeratosis of the leg. Clin Exp Dermatol 2003; 28: 676-677 [PMID: 14616847 DOI: 10.1046/j.1365-2230.2003.01410.x]
- Murase J, Gilliam AC. Disseminated superficial actinic porokeratosis co-existing with linear and verrucous porokeratosis 22 in an elderly woman: Update on the genetics and clinical expression of porokeratosis. J Am Acad Dermatol 2010; 63: 886-891 [PMID: 20451293 DOI: 10.1016/j.jaad.2009.07.038]
- 23 Peng JM, Xiao XM, Chen JW, Chen LF, Cheng B, Ji MK, Zhang ZH. Novel mutation in MVK gene for co-occurrence of disseminated superficial actinic porokeratosis with porokeratosis ptychotropica. J Dermatol 2021; 48: e137-e139 [PMID: 33458876 DOI: 10.1111/1346-8138.15748]
- Cui H, Li L, Wang W, Shen J, Yue Z, Zheng X, Zuo X, Liang B, Gao M, Fan X, Yin X, Shen C, Yang C, Zhang C, Zhang 24 X, Sheng Y, Gao J, Zhu Z, Lin D, Zhang A, Wang Z, Liu S, Sun L, Yang S, Cui Y. Exome sequencing identifies SLC17A9 pathogenic gene in two Chinese pedigrees with disseminated superficial actinic porokeratosis. J Med Genet 2014; 51: 699-704 [PMID: 25180256 DOI: 10.1136/jmedgenet-2014-102486]
- 25 Leng Y, Yan L, Feng H, Chen C, Wang S, Luo Y, Cao L. Mutations in mevalonate pathway genes in patients with familial or sporadic porokeratosis. J Dermatol 2018; 45: 862-866 [PMID: 29722423 DOI: 10.1111/1346-8138.14343]
- 26 Le C, Bedocs PM. Disseminated Superficial Actinic Porokeratosis. StatPearls. Treasure Island (FL): StatPearls Publishing Copyright © 2021, StatPearls Publishing LLC. 2021





## 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

