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### Paraneoplastic syndromes in cholangiocarcinoma

Rahman SU *et al.* Paraneoplastic syndromes in cholangiocarcinoma

Saad ur Rahman, Muhammad Khawar Sana, Zabreen Tahir, Aamir Ali, Pir Ahmad Shah

#### Abstract

Paraneoplastic syndromes are the <sup>3</sup>symptoms or signs which result from damage to tissues that are distant from the site of malignancy, due to complex interactions between the body's immune system and malignant neoplasm. Cholangiocarcinoma (CCA) is an aggressive epithelial malignancy of hepatobiliary tree and it is found to be associated with various paraneoplastic syndromes. These syndromes can present as



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### Unusual Paraneoplastic Presentation of Cholangiocarcinoma

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4606393

Oct 01, 2015 · Various **paraneoplastic cutaneous manifestations** of cholangiocarcinoma have been reported, such as **alopecia** and **migratory erythema**. However, in the literature, only one case report of subacute cutaneous lupus erythematosus (SCLE) presenting as a paraneoplastic syndrome of cholangiocarcinoma has been reported.

Cited by: 1Author: Aman Opneja, Sonia Mahajan, Sargam Kap...  
Publish Year: 2015

### A sensory neuropathy associated with cholangiocarcinoma ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5743886

May 07, 2019 · Cholangiocarcinoma is a recognised cause of **paraneoplastic hypercalcaemia, necrotic migratory erythema and alopecia** but is rarely associated with paraneoplastic neurological disease. [5–7] The blood nerve barrier is most porous at the dorsal root ganglion and this is thought to explain the vulnerability of sensory

Author: Alexander M Rossor, Julian Blake, Theo... Publish Year: 2017

### Paraneoplastic Syndromes in Cancer | Journal of Clinical ...

https://ascopubs.org/doi/10.1200/JCO.2004.08.070

Sep 21, 2016 · **Hypercalcemia** induced by the **parathyroid** hormone-related peptide associated with cholangiocarcinoma was reported in 1982. 11 Of 190 patients examined, 17.5% had disease due to cholangiocarcinoma without bone involvements. Five patients had serum immunoreactive parathyroid hormone value consistent with ectopic hyperparathyroidism.

Cited by: 4Author: Yun Yen, Peiguo G. Chu, Wei Feng  
Publish Year: 2016

### Cholangiocarcinoma and paraneoplastic hypercalcemia: a ...

https://pubmed.ncbi.nlm.nih.gov/20531035

**Cholangiocarcinoma and paraneoplastic hypercalcemia: a lethal combination revisited** South Med J. 2010 Jul;103(7):716-8. doi: 10.1097/SMJ.0b013e3181e1e3bc.

Cited by: 6Author: Guru V Trikudanathan, Constantin A. Dasanu  
Publish Year: 2010

#### PEOPLE ALSO ASK

- What are the signs of paraneoplastic syndromes?
- What causes hematologic paraneoplastic syndromes?
- What organs are affected by paraneoplastic syndromes?
- What is risk factor for paraneoplastic syndrome?

Feedback

### Unusual Paraneoplastic Presentation of Cholangiocarcinoma

https://www.researchgate.net/publication/283210644...

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### Intrahepatic Cholangiocarcinoma Associated with High ...

https://www.ncbi.nlm.nih.gov/pubmed/32051799

Jan 07, 2020 · Cholangiocarcinomas are usually associated with dermal paraneoplastic syndromes (**Sweet syndrome, porphyria cutanea tarda, acanthosis nigricans, necrotic migratory erythema, erythema multiforme, bullous pemphigoid**), hypercalcemia, leukocytosis and limbic encephalitis.

### Unusual association of diseases/symptoms: Alopecia: a ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4543136

Cholangiocarcinoma is rare in western populations; paraneoplastic manifestations of this **rare malignancy** are rare as well. We report a case of alopecia developing as a presenting sign of cholangiocarcinoma in a Caucasian woman which resolved following resection of the tumour and reappeared following recurrence of the tumour.

Cited by: 2Author: Efstathios Antoniou, Panorea Paraskeva, A...  
Publish Year: 2012

### Paraneoplastic systemic lupus erythematosus associated ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6380531

Isolated case reports have described SLE in association with leukaemia, cholangiocarcinoma, **breast, ovarian and thyroid cancer** [4–6]. Several theories for the pathological mechanism of paraneoplastic rheumatological diseases have been proposed [7, 8]. First, rheumatological diseases may result from the direct effect of cytotoxins produced by malignant cells that trigger inflammation at target sites such as ...

### Paraneoplastic syndromes of the nervous system - Symptoms ...

https://www.mayoclinic.org/diseases-conditions/... ▼

Overview	Symptoms	Causes	Risk Factors
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Paraneoplastic syndromes of the nervous system are a group of uncommon disorders that develop in some people who have cancer. Paraneoplastic syndromes can also affect other organ systems including hormone (endocrine), skin (dermatologic), blood (hematologic) and joints (rheumatologic).Paraneoplastic syndromes of the nervous system occur when cancer-fighting agents of the immune system also attack parts of the brain, spinal cord, peripheral nerves or muscle.Depending on where the nervous syste...

See more on mayoclinic.org

### Paraneoplastic fibrillary glomerulonephritis associated ...

https://www.sciencedirect.com/science/article/pii/S2210740116301012

Feb 01, 2017 · Paraneoplastic syndromes associated with **CCa are very rare (or underdiagnosed)**.

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## Paraneoplastic Syndromes

Medical Condition

Symptoms in cancer patients that are not directly produced by the primary tumor or by its metastases

Signs and symptoms vary depending on the body part

- Difficulty walking and maintaining balance
- Vision problems
- Unusual involuntary movements



Signs and symptoms caused indirectly by substances produced by a tumor or as part of an immune response to it.

- 🏠 Rare (Fewer than 200,000 cases per year in US)
- 🧪 Requires lab test or imaging
- 💊 Treatments can help manage condition, no known cure
- 🕒 Can last several years or be lifelong

The symptoms are caused by agents of the immune system fighting body cancer, or due to remote effects of secondary substances secreted by tumor cells. General symptoms include fever, night sweats, and loss of appetite. Other symptoms may be neurologic, endocrine, or related to the skin or blood. Treatment involves treating the cancer causing the syndrome and suppressing the immune response.

### Symptoms

General symptoms include fever, night sweats, weight loss, and decreased appetite. Further, paraneoplastic syndromes may affect many different organ systems, including the nervous system and the endocrine (hormone) system.

Skin symptoms/conditions

- Itching
- Flushing
- Acanthosis nigricans
- Dermatomyositis

Neurologic syndromes/symptoms:

- Polyneuropathy can cause weakness, loss of sensation, and reduced reflexes
- Cerebellar degeneration
- Encephalitis
- Uncontrollable eye movements
- Quick contractions of the arms and legs
- Chorea

Endocrine dysfunction

- Cushing syndrome
- Syndrome of inappropriate antidiuretic hormone
- Hypercalcemia
- Hypoglycemia
- Carcinoid syndrome

Hematologic symptoms

- Anemia
- Polycythemia
- Granulocytosis

Rheumtological, gastrointestinal, and renal symptoms may also be seen

### Treatments

Treatment generally involves treating the underlying cancer and suppressing the immune responses responsible for the signs and symptoms. Particular medicines might be given to address specific symptoms.

Medication

- Corticosteroids: Inhibit inflammation.  
**Prednisone**
- Immunosuppressants: Inhibit or prevent activity of the immune system.  
**Azathioprine · Cyclophosphamide**

Therapies: Cancer therapy

### Causes

- Paraneoplastic syndrome is not produced by the primary tumor or by its spreading (metastases). It is neither due to complications such as compression, infections, side effects of treatment, or nutritional deficiency.
- The symptoms are caused due to effects of substances produced by the tumor (such as hormones and cytokines) or due to antibodies produced by the immune system to attack cancer cells.

Data from Focus Medica. Reviewed by a panel of doctors. [Learn more](#)

Consult a medical professional for advice

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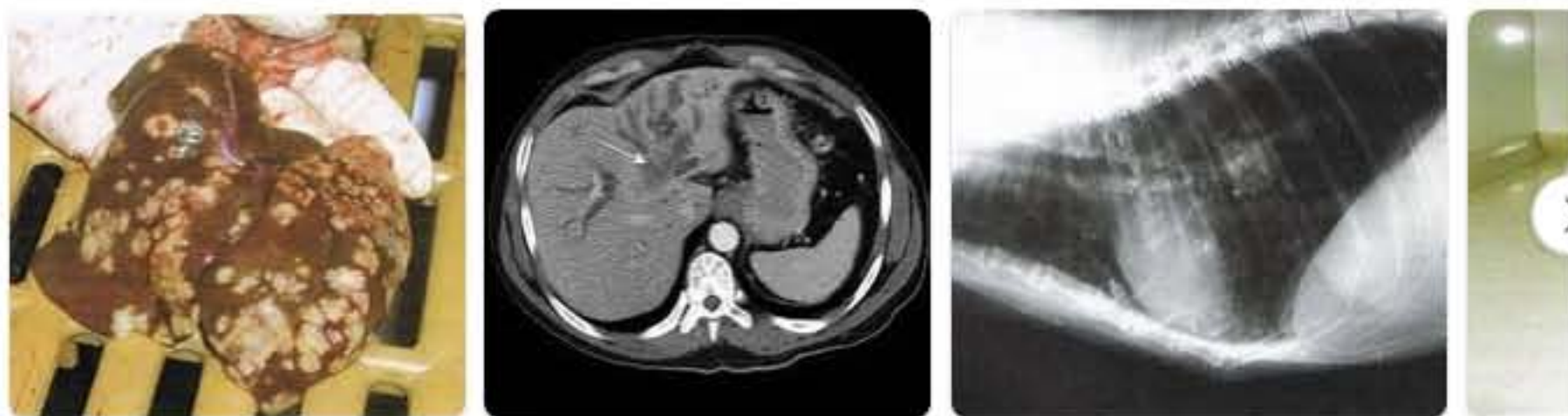
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**Publish Year:** 2015

## A sensory neuronopathy associated with cholangiocarcinoma ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5743886>

May 07, 2019 · A **pure sensory neuronopathy** (also referred to as a sensory ganglionopathy) is one of a handful of recognised neurological paraneoplastic syndromes. Current guidelines recommend that in cases of sensory neuronopathy, a search for an underlying malignancy be pursued for up to four years. In this case, a cholangiocarcinoma was detected six years after disease onset and in the absence of an ...

**Author:** Alexander M Rossor, Julian Blake, Th... **Publish Year:** 2017

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