



# Northern Light:

Pharmacovigilance, Grey  
Literature and Market Intelligence

David Troy: Regional Sales Manager Ovid



Wolters Kluwer

# Northern Light Benefits

## **Pharmacovigilance:**

WHO defines pharmacovigilance as “the science and activities relating to the detection, assessment, understanding and prevention of adverse effects or any other medicine-related problem”.

## **Grey Literature:**

"Information produced on all levels of government, academia, business and industry in electronic and print formats not controlled by commercial publishing i.e. where publishing is not the primary activity of the producing body." 1

## **Useful for Competitive Market Intelligence:**

Maintain current awareness of competitive presentations and grey literature pertaining to competitor product, drug and other research

1. ICGL Luxembourg definition, 1997 - Expanded in New York, 2004

# Northern Light

- More than 2.5M abstracts and posters from over 3500 global life sciences conferences
- Abstracts and posters are loaded and searchable within 3 weeks or less of the information being posted on conference sites, and often years before publication in a peer-reviewed journal
- 100% copyright-compliant
- Conferences span 2010-present; new conferences added as abstracts are posted
- **Updated weekly!**
- Multimedia content - Posters include data tables, graphs, images, video, and audio
- Uses MESH subject vocabulary variant on the Ovid Platform
- Information is drawn directly from conference websites - Summaries of conference abstracts and author information remain in the database even when the conference links expire



# Northern Light Leading Edge Research

Northern Light delivers abstracts and posters from over 3500 conferences and is updated weekly

Conferences are often the sites of early publishing – an author will discuss at a conference ongoing research or early findings **before a trial or study** is published, or they may also be important because authors may discuss trials and studies where the results are less favorable. **Many studies are never published** at all if the results don't meet early promise, and yet these are interesting to researchers.

Northern light focuses on **medical conferences in diseases, drugs and medical devices** and where possible linking takes you from a searchable record to a summary and to the original website.

Different than the conference publications which appear in EMBASE that often appear later in a journal or journal supplement.

# Grey Literature

**“Less than half of all studies, and about 60% of randomized or controlled clinical trials, initially presented as summaries or abstracts at professional meetings are subsequently published as peer-reviewed journal articles.** An important factor appearing to influence whether a study described in an abstract is published in full is the presence of ‘positive’ results in the abstract. Thus, the efforts of persons trying to collect all of the evidence in a field may be stymied, first by the failure of investigators to take abstract study results to full publication, and second, by the tendency to take to full publication only those studies reporting ‘significant’ results. The consequence of this is that systematic reviews will tend to over-estimate treatment effects.”<sup>1</sup>

Scherer RW, Langenberg P, von Elm E. Full publication of results initially presented in abstracts. Cochrane Database of Systematic Reviews 2007, Issue 2. Art. No.: MR000005. DOI: 10.1002/14651858.MR000005.pub3.

# Northern Light Abstracts and Copyright Compliant Posters

[Citation](#) | [Entry Mentions](#)

**Title:** Spontaneous Iliopsoas Tendon Rupture in an Elderly Woman with End-Stage Kidney Disease

**Conference:** National Kidney Foundation Spring Clinical Meeting 2018

**Sponsor:** National Kidney Foundation (NKF)

**Authors:** Pang Yifan - Beaumont Hospitals  
Sami Zarouk - Beaumont Hospitals

**Conference Opening Date:** 10-Apr-2018

**Conference Ending Date:** 18-Apr-2018

**Location:** Austin, TX, US

**Direct link:** [https://nkscm18.blob.core.windows.net/posters/Poster\\_481d27a6-d2c1-4c6d-b17e-9fca371300be.pdf#view=fit&toolbar=0](https://nkscm18.blob.core.windows.net/posters/Poster_481d27a6-d2c1-4c6d-b17e-9fca371300be.pdf#view=fit&toolbar=0)  
(link may have been discontinued by the website owner)

**Summary**  
Unexplained hip pain by x-ray or CT scan in ESKD patients will require an MRI to look for IPT rupture. The treatment is conservative. Keywords: spontaneous iliopsoas tendon rupture magnetic resonance imaging end-stage kidney disease Learning objectives: 1. Spontaneous iliopsoas tendon (IPT) rupture is a rare etiology of acute hip pain and usually affect the elderly, especially those with chronic diseases.

**NI Analyst tags:**

**Conferences:**

- National Kidney Foundation Spring Clinical Meeting 2018, 2018-04-10 (1)

**Diseases:**

- Chronic Kidney Failure (3)
- Hypertension (1)
- Edema (1)
- Coronary Artery Disease (1)
- Amyloidosis (1)
- Hyperparathyroidism (1)
- Erythema (1)
- Diabetes Mellitus (1)

**Human Anatomy:**

- Femur (1)
- Thigh (1)

**Mechanisms of Action:**

- Analgesics (1)

**Therapeutic Areas:**

- Kidney Disease (3)
- Muscular and Skeletal Diseases (1)
- Endocrine Disorders (1)


**Diagnostics and Treatments:**

- Differential Diagnosis (1)

**Research Scenarios:**

- Chronic Kidney Failure and Coronary Artery Disease and Diabetes Mellitus are related. (12)
- Chronic Kidney Failure is related to Coronary Artery Disease. (12)
- Chronic Kidney Failure is related to Hypertension. (4)
- Coronary Artery Disease is related to Edema. (3)
- Coronary Artery Disease and Diabetes Mellitus and Hypertension are related. (3)
- Chronic Kidney Failure and Coronary Artery Disease and Hypertension are related. (12)
- Chronic Kidney Failure is related to Diabetes Mellitus. (4)
- Chronic Kidney Failure and Diabetes Mellitus and Hypertension are related. (4)
- Coronary Artery Disease and Edema and Erythema are related. (3)
- Coronary Artery Disease is related to Diabetes Mellitus. (3)
- Senior Health (3)
- Cardiovascular Diseases (1)

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## Spontaneous Iliopsoas Tendon Rupture in an Elderly Woman with End-Stage Kidney Disease

Beaumont

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OUI  
WB  
School of  
MEDICINE

### Background

- The differential diagnosis of acute hip pain is broad.
- Iliopsoas tendon (IPT) injury is a rare cause of acute hip pain and may occur spontaneously.
- On contrary to hip fracture, IPT injury is mainly treated conservatively and has an excellent prognosis.
- We present a case of spontaneous IPT rupture in an elderly woman with end-stage kidney disease (ESKD) on hemodialysis.

- She had severe pain with internal rotation and flexion of the right hip.
- No bruise, edema, erythema, deformity, or warmth of the right hip were noted.
- Parathyroid hormone was increased at 891 pg/ml.
- X-rays of the right hip, right femur, and right knee were negative for acute fracture.
- CT of the hip joints was negative for fracture or dislocation.
- MRI of the right hip showed no occult fracture, but revealed a high-grade to full-thickness tear of the IPT at its attachment to the lesser trochanter of the lesser trochanter (Figures 1-3).
- The patient was treated with analgesics and daily physical therapy, with resolution of symptoms.

### Case Presentation

- An 82-year-old woman with diabetes, hypertension, and severe coronary artery disease presented with acute right thigh pain.
- She had been on hemodialysis for 10 years.
- She denied recent trauma or fluorquinolone use.

### Discussion

- IPT injury comprises about 0.66% of all hip injuries and is more common in young athletes.
- Spontaneous IPT rupture has been associated with advanced age, female gender, chronic corticosteroid use, and chronic diseases.<sup>[1]</sup>
- Patients with secondary hyperparathyroidism due to ESKD have a higher-risk for spontaneous tendon rupture.<sup>[2]</sup>
- Dialysis-related arthropathy of the hip joints may further weaken the tendon structure. IPT injury is best evaluated by MRI.<sup>[3]</sup>
- Pain control and physical therapy are the mainstay of treatment.

### Concluding Remarks

- Unexplained hip pain by a ray or CT scan in ESKD patients will require an MRI to look for IPT rupture.
- The treatment is conservative.

### References

- DiPiero JM, Varner K, Covillalba F, et al. Atraumatic evulsion of the distal iliopsoas tendon: an unusual cause of hip pain. *Orthopedics*. 2010 Aug 13; 33(8): Published online 2010 Aug 11. doi:10.3928/01477401-20100825-23
- Raso-John N, Jure T, Eakins S, et al. Spontaneous tendon ruptures in patients with end-stage renal disease. *Kidney Int*. 2009; 75(1): 32-36. Published online 2009 Feb 12. doi:10.1053/j.ajkd.2008.09.015
- Alsharif F. Hemodialysis Induced Azygoid Arthropathy of Hip Presenting as Pathological Fracture: A Case Report and Literature Review. *Journal of Clinical and Diagnostic Research*. 2018; 12(10): 2018. doi:10.7860/JCDR/2014/10199.5040.

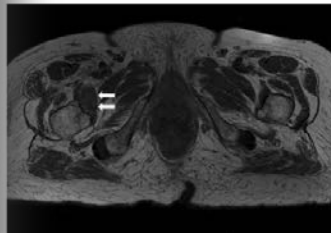


Figure 1. Axial T1 weighted MRI showed asymmetric thickening of the iliopsoas tendon on the right (arrows).

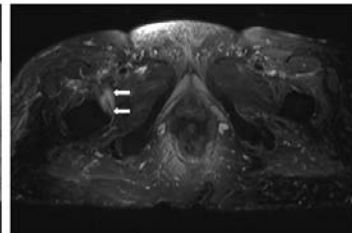


Figure 2. Axial T2 weighted MRI with fat suppression showed edema in the right iliopsoas tendon (arrows).

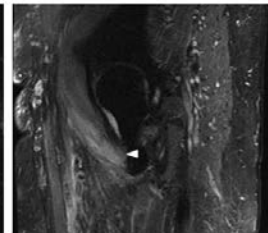


Figure 3. Sagittal T2 weighted MRI with proton density and fat suppression showed enlargement and abnormal signal intensity of the iliopsoas tendon on the right at its attachment to the lesser trochanter (arrowhead).

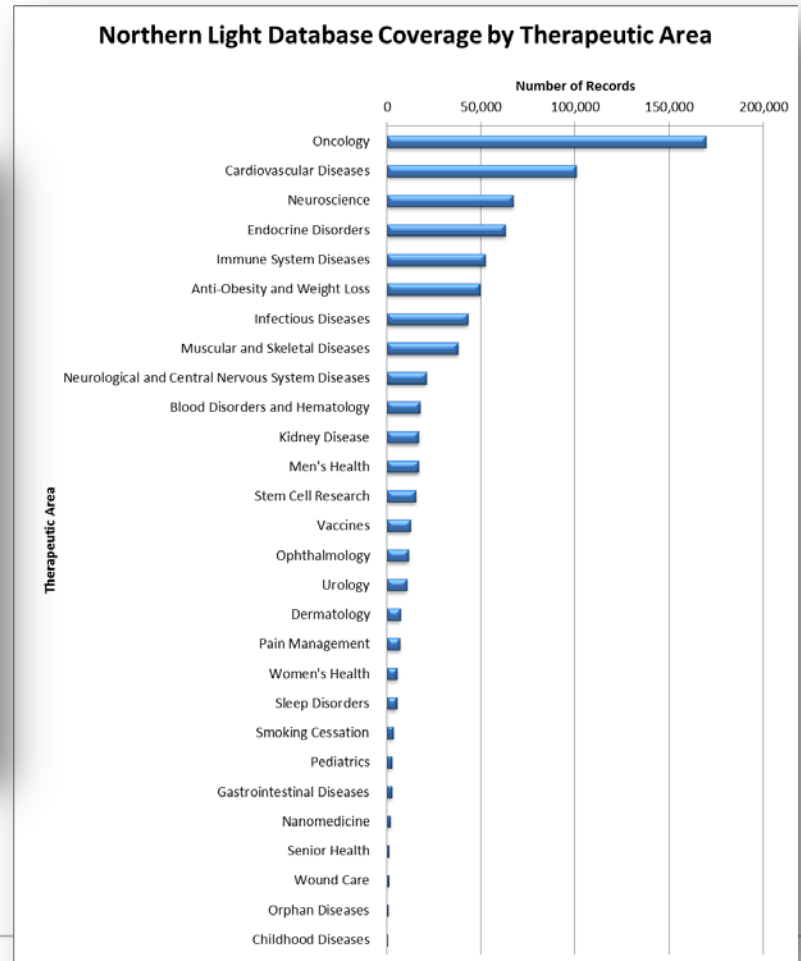
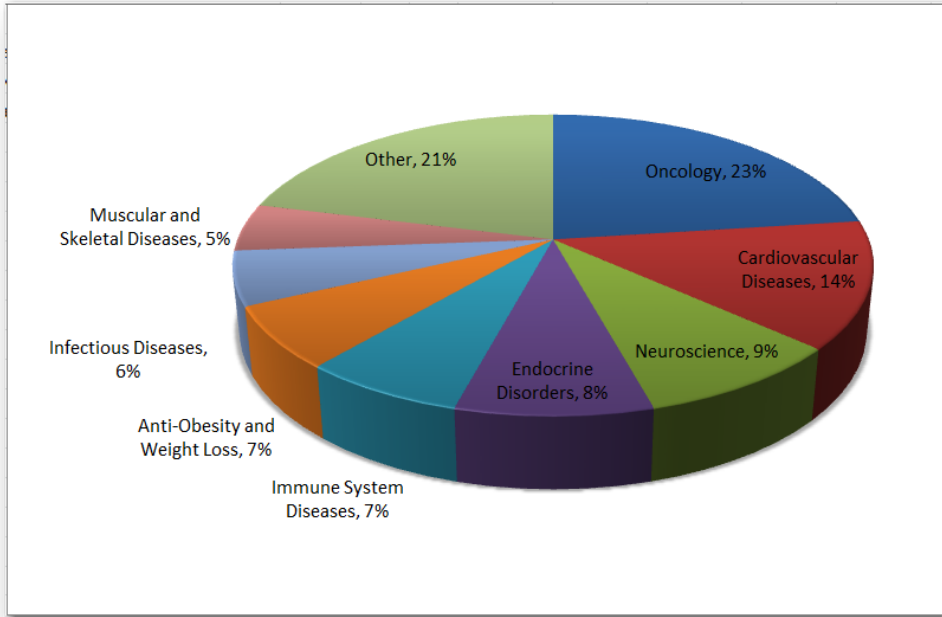
# Northern Light Breadth of Content

Northern Light covers over 25 therapeutic areas, including:

• Neuroscience	• Immune System Diseases	• Orphan Diseases	• Sleep Disorders
• Oncology	• Vaccines	• Dermatology	• Nanomedicine
• Men's Health	• Muscular and Skeletal Diseases	• Pediatrics	• Ophthalmology
• Cardiovascular Diseases	• Neurological and Central Nervous System Diseases	• Blood Disorders and Hematology	• Gastrointestinal Diseases
• Endocrine Disorders	• Stem Cell Research	• Smoking Cessation	• Childhood Diseases
• Infectious Diseases	• Women's Health	• Pain Management	• Wound Care
• Anti-Obesity and Weight Loss	• Urology	• Kidney Disease	• Senior Health

***...focuses on medical conferences in diseases, drugs and medical devices***

# Northern Light Coverage





# Northern Light Indexing and Thesaurus

Using MeSH-base taxonomy in 14 concept areas

Search Northern Light on Ovid by:

- Author
- Clinical Trial
- Conference name
- Generic Drug
- Brand-name drugs
- MeSH Words
- Disease
- Human anatomy
- Conference Sponsor
- Therapeutic area
- Medical Device
- Research scenario
- Diagnostic and treatment
- Conference date
- Other

# Pharmacovigilance and Current Awareness

- Northern Light works with Ovid to add conferences and research areas of interest
- Targeted searching—use those Ovid search commands and save time
- International in scope
- Basic and Advanced search modes
- Can use Search Tools or Multi Field Search
- Can use as a current awareness search tool
- Emerging pharmacotherapy
- New interventions
- Leading researchers/institutions

The screenshot shows the Ovid AutoAlert Options interface. At the top, there is a navigation bar with the Ovid logo and user information: "Wolters Kluwer", "My Account", "Admin Tools", "JBI Admin", "Ask a Librarian", "Support & Training", "Help", "Feedback", and "Logged in as David Troy at d Logoff". Below the navigation bar is a search bar with the text "gabapentin" and a dropdown menu set to "AutoAlert (SDI)".

The main content area is titled "AutoAlert Options" and is divided into several sections:

- Scheduling Options:** Includes radio buttons for "On Database Update[?]", "Quarterly", "Monthly - on day [1]", "Every other week - on [Monday]", and "Weekly - on [Monday]".
- Deduping Options:** Includes a checked checkbox for "90 Days".
- Include Open Access Results:** A checked checkbox.
- Delivery Options:** Includes checkboxes for "Email", "RSS", and "My Projects".
- Email Address & Subject:** Includes a text input for "Recipient's Email Address" (containing "david.troy@wolterskluwer.com") and a text input for "Email Subject" (containing "Ovid Results").
- Email Options:** Includes radio buttons for "Inline", "As an Attachment (Ovid Result Format only)", and "Output Type" (with sub-options for "HTML (Ovid Result Format only)", "ASCII", and "EXCEL (Ovid Result Format only)").
- Include Strategy:** A checked checkbox.
- Include external resolver link:** A checked checkbox.
- Report Type:** Includes radio buttons for "Includes just a titles display link", "Includes records, a titles display link, and a link to each records available full text or complete reference", "Email includes records only", and "Includes records and a titles display link".

# Grey Literature

- #1 – It's required! Systematic review standards require searching of grey literature
- #2 – Contains conference abstracts and posters that are NOT published in journals
- #3 – Source of negative and or unpublished clinical trials = reduced bias

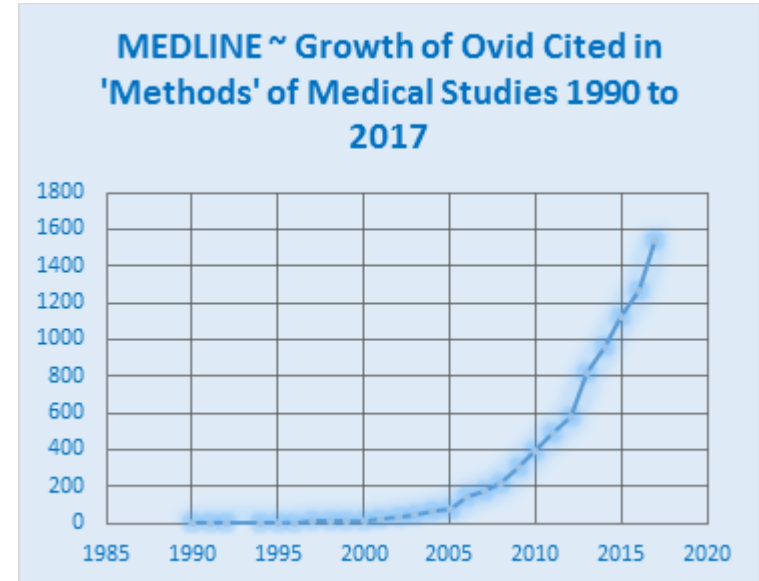
The image shows a screenshot of the Ovid search interface. On the left, search results for 'tamoxifen breast cancer' are displayed, including a list of search terms used and two search results with their respective relevance scores (5 stars) and abstract URLs. The main interface shows the 'Ovid' logo, navigation tabs (Search, Journals, Books, Multimedia, My Workspace, Links, OvidMD), and a search bar. Below the search bar, there are sections for 'Manage Projects' (listing folders like 'AMA examples', 'brincidofovir', etc.) and 'Archived Projects'. On the right, a detailed view of a project titled 'Zika Virus' is shown, including a description and a list of items with their types (File) and titles.

# Ovid for Advanced Research & Systematic Reviews

Ovid's research platform is reliable and consistently delivers content, tools and services that distinguish it from other Platforms

## Ovid benefits:

- Search operators and fields designed to improve results; ADJ, .ab, .mp, etc
- Multi-file Search across multiple databases saving time and improving efficiency
- Reliability and consistency; PubMed and others can be hard to reproduce and predict results
- Save, modify, and edit searches without having to recreate the entire search strategy
- Inline Search Strategy modifications
- Create a custom Expert Search
- Ovid Rigor for Animal versus Human searches
- Database duplicates can be removed via DOI deduping
- Ovid consistently exports results and research strategy with a push of button, making it easy for publication



# Ovid Resources for Grey Literature & Research

Embase®



Global Health

Ovid MEDLINE®

PsycEXTRA®

Medknow

PsycINFO®

OVID® EMCARE

Derwent Drug File

AudioDigest

# Thank you

**Northern Light for Pharmacovigilance, Grey Literature,  
and Useful for Competitive Market Intelligence**

Visit Wolter Kluwer at **SLA Booth #827** for more information on Northern Light or to learn about Ovid's Pharmacovigilance Tool: OvidPV or our other Resources



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