MOST INFLUENTIAL MEDICAL PUBLICATIONS OF THE LAST 20 YEARS (1990-2012): A collection from journals with the highest impact factor

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ABSTRACT

As the performance of the clinical medicine relies on evidence-based facts as well as particular landmark researches, this collection of influential medical articles that changed and/or guided most current recommendations used in the daily basis of clinical medicine gives the top spotlight of new trends of management and treatment. The compilation is made from a search into MEDLINE, PubMed, DynaMed, CINAHL, and Academic Search Premier as well as systematically from reference lists of studies and relevant reviews. The inclusion criterion was based on the impact factor of publishing journals that were mostly renowned magazines, which expresses a measurement of the frequency that an article has been cited during a period of time. 478 articles classified according to specialties and sub-specialties were collected from 103 medical journals published approximately in a period of 20 years (1990-2012). In fact, referral materials (Books & Encyclopedias, on-line links, etc) sustained the selecting process that, although we assume exhaustive in the methodology used, but exiguous considered how challengeable and quickly-progressing clinical researches are, gave the most eventful recent researches that had influenced the clinical Medicine.

However, opinions expressed within articles compiled are not necessary gold standards or landmarking facts; though they open the perspective on multiple interchangeable evidence-based factors that guide the universal tendency upon the medical management. Thus, regarded how fast medical researches and new facts progress, we recommend checking furthermore on diagnostic and treatment new approaches.

Key words: Collection - Citation - Impact factor - Influential - Landmark - Evidence-based

RESUME

Vu que la performance des résultats cliniques s'appuie sur les preuves des faits ainsi que certains travaux de recherches marquants, une collection des articles médicaux influents qui ont changé et/ou orientés les plus récentes recommandations d'usage quotidien en médecine, donne un point de vue concis sur les nouvelles tendances de la prise en charge et le traitement entrepris.

Cette compilation est une recherche faite dans le "MEDLINE, PubMed, DynaMed, CINAHL, et Academic Search Premier" aussi bien que systématiquement dans les listes des références des études et révues de référence. Le critère d'inclusion est basé sur le facteur impact des journaux les plus lus; entre autre une mesure indirecte de la fréquence de citation d'un article paru dans un journal durant une période de temps fixée. 478 articles regroupés selon les spécialités et sous-spécialités, sont collectés à partir de 103 journaux médicaux, sur une période approximative de 20 ans (1990-2012). En effet, d'autres outils de référence (livres, encyclopédies, liens internet, etc.) ont renforcé le processus de sélection; qui, bien que exhaustive dans la méthodologie utilisée, mais limitative vue le challenge et l'évolution rapide des recherches cliniques, donnant de fait le plus des récentes nouveautés cliniques qui ont influencé la médecine.

Cependant, les conclusions émises dans les articles compilés ne sont pas nécessairement les facteurs limitatifs ou standards; en outre elles ouvrent une connaissance sur les diverses variétés des faits qui dirigent la tendance universelle de la prise en charge médicale. Ainsi, considérant la progression rapide des recherches cliniques et des nouveaux faits, nous recommandons de rechercher d'avantage de plus amples connaissances sur ces techniques de diagnostic et de traitement exposées.

Mots-clés: Collection - Citation - Facteur impact - Influant - Evénement limitatif - Médecine factorielle

EMERGENCY & ICU


Most influential medical publications: (1990-2012)

**ANESTHESIA & PERIOPERATIVE**
- 2009: Patient controlled opioid analgesia vs conventional opioid analgesia for postoperative pain [Cochrane Library 2009; Issue 1] 7 - 142 citations
- 2008: Drugs for preventing post-operative nausea and vomiting [Cochrane Library 2008; Issue 4] 7 - 130 citations
- 2005: Predicting difficult intubation in apparently normal patients [Anesthesiology 2005; 103:429-37] 6 - 258 citations

**CARDIOLOGY**
- 2004: Use of B-type Natriuretic peptide in the evaluation and management of acute dyspnea (BASEL) [NEJM 2004; 350:647-54] 1 - 889 citations
- 1999: “ REMATCH Trial “ Increased Survival of 23% vs 8% with LVAD (Left ventricular assist device) vs medical management of heart failure after 2 years. Heartmate VAD has a biologic surface, therefore does not require long-term anticoagulation, but higher risk of infection [Ann Thorac Surg 1999; 67:723-730] 12-232 citations

**DERMATOLOGY**
- 2010: Interventions for vitiligo [Cochrane Database of syst Rev 2010; Issue 1: CD003263] 8 – 107 citations
- 1998: Does this patient have a mole or melanoma? [JAMA 1998; 279(9): 696-701] 2 - 92 citations
Most influential medical publications: (1990-2012)

ENDOCRINOLOGY

- 2008: Radioiodine therapy for Graves’ disease and the effect on ophthalmopathy – A systematic Review [Clin Endocrinol (Oxf) 2008; Apr 21] 16 - 68 citations
- 2002: Simvastatin to lower CAD risk - the heart protection study [The Lancet 2002; 360:7-22] 4 - 6656 citations

FAMILY MEDICINE

- 2008: Nicotine Replacement Therapy for smoking cessation [Cochrane Database of Syst Rev 2008; Issue 1] 8-715 citations
- 2007: Prophylactic vaccination against human papillomavirus infection and disease in Women: A
systematic Review of randomized controlled Trials [CMAJ 2007; 177(5):469-479] - 149 citations


- 2006: Echinacea for preventing and treating the common cold [Cochrane database of Syst Rev 2006; Issue 1] - 193 citations

- 2006: Does this patient have hearing impairment? [JAMA 2006; 295:416-428] - 107 citations

- 2006: The effects of lifestyle modification on diet, weight, physical fitness and blood pressure control, 18-month follow-up results from the PREMIER collaborative research Group [Ann intern Med 2006; 4; 144(7):127] - 303 citations


**GASTROENTEROLOGY**


- 2010: Enteral vs parenteral nutrition for acute pancreatitis [Gastroenterol 2010; Issue 1] - 173 citations


- 2008: Prophylactic antibiotics cannot reduce infected pancreatic necrosis and mortality in acute necrotizing pancreatitis: Evidence from a meta-analysis of randomized controlled trials [Am
Most influential medical publications: (1990-2012)

F. Byiringiro et Al.

J Gastroenterol 2008; 103:104-10]27 - 98 citations


- 2006: “The most common cause of dyspepsia is functional (idiopathic) dyspepsia” Neither clinical impression nor computer models can adequately distinguish between organic disease and functional disease in patients referred for endoscopic evaluation of dyspepsia [JAMA 2006; 295:1566-1576] 2 - 43 citations


- 2004: Colorectal Cancer screening [Can J Gastroenterol 2004; 18(2)] 23-218 citations


GENERAL SURGERY


- 2009: Bariatric (Weight loss) surgery for obesity is considered when other treatments have failed [The Cochrane library, Issue 2, 2009: Surgery for obesity (Cochrane Review)] 7 - 243 citations

- 2008: Early vs Delayed laparoscopic cholecystectomy for biliary colic [Cochrane Database Syst Rev. 2008 Oct8; (4)] 9 - 28 citations


- 2005: Antibiotics vs Placebo for prevention of postoperative infection after appendectomy [Cochrane Database of systematic review 2005; 3] 8-167 citations


- 2003: Does this patient have acute cholecystitis? [JAMA 2003; 289:80-86] 2-164 citations- 2003:


GERIATRIC MEDICINE

- 2010: Diagnosis, Prevention, and management of delirium: Summary of NICE guidance [BMJ 2010; 341: c3704] 3 - 33 citations
- 2008: Treatment of hypertension in patients with 80 years of age or older [NEJM 2008; 358(18):1887-98]
  - 1289 citations


- 2007: Approach to falls in the elderly [JAMA 2007; 297: 77-86] 2 - 12 citations


- 2003: Beers Criteria: 48 medications to avoid in adults 65yo and older due to safety concerns [Arch Intern Med 2003; 163:2716-2724] 30 - 75 citations

- 2001: Drugs that may increase the risk of falling [Am Fam Phys 2001; 61(7):2159-2172]135 - 570 citations

- 2001: Key physical findings in the elderly patient who falls or nearly falls [Am Fam Phys 2001; 61(7):2159-2172] 35 - 570 citations


- 1996: Key factors to consider in older drivers [Geriatrics 1996; 51:36-45] 38 - 43 citations


- 1993: Management of common end of life symptoms: AGS Panel on persistent pain in older persons [J Am Geriatric Soc 2002; 50(6)] Supplement:

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**GYNECOLOGY**


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Most influential medical publications: (1990-2012)

F. Byiringiro et Al.


- 2006: The gold standard diagnostic test for urinary incontinence is multichannel urodynamics. A large proportion of cases are correctly diagnosed from clinical history alone and this can be supplemented with patient urinary and intake diaries [Health Technol/Assess 2006; 10(6):1-132] 46 - 37 citations


OBSTETRICS
- 2009: Restrictive vs. Routine Episiotomies with Vaginal Births (Episiotomy for vaginal birth) [Cochrane Database of Systematic Reviews 2009; Issue 1] 8 - 175 citations
- 2008: Classification of Intrapartum EFM (Electronic fetal monitoring) Tracings [SOGC guidelines, September 2008] - 218 citations
- 2007: Continuous Support for Women during Childbirth [Cochrane Database of Systematic Reviews 2007, Issue 3] 8 - 524 citations
- 2006: Continuous CTG (Cardiotocography) as a Form of EFM for Fetal Assessment during Labor [Cochrane Database of Systematic Reviews 2006, Issue3] 8 - 287 citations

HEMATOLOGY
- 2008: Recommended Management of a Supratherapeutic INR [Pharmacology and management of the vitamin K antagonists: American College of Chest Physicians Evidence-Based Clinical Practice Guidelines; Chest 2008; (6 Suppl):160s] 84 - 12 citations
- 2006: Duration of Treatment with Vitamin K Antagonists in Symptomatic Venous Thromboembolism [Cochrane Database of Systematic Reviews 2006; Issue 1] 8 - 46 citations
- 2006: ASA Plus Dipyridamole vs ASA Alone After Cerebral Ischemia of Arterial Origin (ESPRIT): Randomized Controlled Trial [The Lancet 2006; 367:1665-73] 6 - 6 citations
citations

INFECTIOUS DISEASE
- 2008: Does This Patient with Diabetes Have Osteomyelitis of the Lower Extremity?[JAMA 2008; 299(7): 806-13] 3 - 73 citations
- 2008: Modes of Transmission by Site and Medium of HIV [Nat Rev Immunology 2008; 8:447-457] 50 - 287 citations
- 2002: Dexamethasone in Adults with Bacterial Meningitis [NEJM 2002; 347:1549-56] 1 - 726 citations
- 1999: Does This Adult Patient Have Acute Meningitis? From The Rational Clinical Examination [JAMA 1999; Vol 281, No. 2] 2 - 183 citations

NEPHROLOGY
- 2008: Renal Outcomes with Telmisartan, Ramipril, or Both in People at High Vascular Risk (ONTARGET Study) [The Lancet 2008; 372:547-553] 4 - 637 citations

IMAGERY
- 2008: Typical Effective Doses from Diagnostic Medical Exposures (in adults) [Radiology 2008; 248(1):254-63] 51 - 470 citations

Most influential medical publications: (1990-2012)
F. Byiringiro et Al.
- 2007: Reduced Exposure to Calcineurin Inhibitors in Renal Transplantation (ELITE-Symphony Trial) [NEJM 2007; 257:2562-75] 1- 612 citations

- 2001: Renoprotective Effect of Angiotensin-Receptor Antagonist Ibesartan in Patients with Nephropathy due to Type 2 Diabetes [NEJM 2001; 345:851-860] 1- 4529 citations

- 2001: Effects of Losartan on Renal and Cardiovascular Outcomes in Patients with Type 2 DM and Nephropathy [NEJM 2001; 345:861-869] 1 - 5164 citations


**NEUROLOGY**


- 2010: Acute and preventive pharmacologic treatment of cluster headache (CH)[Neurology 2010; 75:463-473] 86 - 38 citations


- 2009 Most common causes of rapidly progressive neurodegenerative dementia (less than 4 yrs survival) [Arch Neur. 2009; 66 (2):201-207] 54 - 50 citations


- 2008: Recombinant interferon-β or Glatiramer acetate for delaying conversion of the first demyelinating event to multiple sclerosis [Cochrane database syst rev 2008; 2:CD005278] 8 - 2 citations


- 2006: The rational clinical examination: Does this patient with headache have a migraine or need neuroimaging? [JAMA 2006; 296:1274-83] 2 - 93 citations

- 2006: High-dose atorvastatin after Stroke or transient Ischemic attack (SPARCL trial)[NEJM 2006; 355:549-559] 1 - 1045 citations


**NEUROSURGERY**


- 2001: Canadian Head CT rule [The Lancet 2001; 357:9266; 1391-1396] 4 - 548 citations


**OPHTHALMOLOGY**


- 2010: Antiviral Treatment and other Therapeutic Interventions for Herpes Simplex Virus epithelial Keratitis [Cochrane Database of Systematic Reviews 2010, Issue 12] 8 - 14 citations


- 2007: Medical Interventions for Primary Open Angle Glaucoma and Ocular Hypertension [Cochrane Database of Systematic Reviews 2007, Issue 4] 8 - 122 citations


- 2006: Corneal Abrasion: To Patch or Not to Patch (PATCHING for corneal abrasion) [Cochrane Review 2006] 8 - 28 citations


- 2002: Does this Patient have GCA (Giant cell arteritis) [JAMA 2002; 287:92-101] 2 - 76 citations


- 1993: Diabetic Control and Complication Trial [NEJM 1993; 329(14)] 1 - 335 citations


**ORTHOPEDICS**


- 2001: Ruling in Rotator Cuff Tears (Diagnosis of rotator cuff tear) [The Lancet 2001; 357:769] 4 - 23 citations


**E.N.T (Otolaryngology)**

- 2009: RAI (Radioactive iodine) ablation should be offered to patients with distant metastases (M1), gross extrathyroidal extension, primary size > 4 cm regardless of patient age (Evidence Grade B and above): Revised American Thyroid Association Management Guidelines for Patients with Thyroid Nodules and Differentiated Thyroid

- 2006: Treatment of locoregionally advanced head and neck cancer with concomitant high dose radiotherapy plus cetuximab improves locoregional control and reduces mortality without increasing the common toxic effects associated with radiotherapy to the head and neck [NEJM 2006; 354(6):567-578] 1 - 2522 citations


- 2004: Antibiotics for Acute otitis Media in Children [Cochrane Database of Syst Rev 2004; Issue 1] 8 - 800 citations


**PEDIATRICS**

- 2010: Bronchodilators for Bronchiolitis [Cochrane Database of Systematic Reviews 2010; Issue 12] 98 - 155 citations


- 2003: Ketogenic Diet for Epilepsy [Cochrane Database of Systematic Reviews 2003; Issue3] 8 - 64 citations


**PLASTIC SURGERY**


**GLOBAL & COMMUNITY HEALTH**

- 2009: Saskatoon’s Motion [Canada: Chief Public health officer’s Report, 2009] 77-12 citations


- 2003: Understanding sensitivity and specificity with the...
right side of the brain [BMJ 2003; 327:716-719] - 163 citations


PSYCHIATRY

- 2010: Antidepressants for depression in medical illness [Cochrane database of Systematic Reviews 2010; Issue 3] - 177 citations


- 2007: Cannabis use and risk of psychotic or effective mental health outcomes: A systematic review [The Lancet 2007; 370:319-328] - 7 citations


- 2006: Two-year randomized controlled trial and follow-up of dialectical behavior therapy vs therapy by experts for suicidal behaviours and borderline personality disorder [Arch Gen Psychiatry 2006; 63(7):757-66] - 736 citations


- 2004: Selective serotonin reuptake inhibitors (SSRIs) vs other antidepressants for depression [Cochrane Database of systematic reviews 2004; Issue 3] - 234 citations

- 2004: Health Canada advises of potential adverse effects of SSRIs and other antidepressants on newborns [August 9, 2004] - 268 citations

- 2004: Fluoxetine, cognitive-behavioral therapy and their combination for adolescents with depression: Treatment for adolescents with depression Study (TADS) Randomized controlled trial [JAMA 2004; 292(7):807-820] - 693 citations


RESPIROLOGY

- 2010: Corticosteroids for treating severe sepsis and septic shock [Cochrane Database of Systematic Reviews 2010, Issue 1] - 31 citations


- 2008: Continuous Positive Airways Pressure for Obstructive Sleep Apnea [Cochrane Database of Systematic Reviews 2008, Issue 2] - 348 citations


- 2006: Multidetector Computed Tomography for acute pulmonary embolism (PIOPED II Trial)[NEJM 2006; 354(22):2317-27] - 848 citations

- 2005: Corticosteroids for pulmonary sarcoidosis [Cochrane Database of systematic Reviews 2005; Issue 2]


- 1999: Randomized, Placebo controlled trial of effect of a leukotriene receptor antagonist, montelukast, on tapering inhaled corticosteroids in asthmatic patients [BMJ 1999; 319:87-90] 3 - 278 citations


**RHEUMATOLOGY**

- 2010: Classification criteria for Rheumatoid arthritis (RA): total score of 6 or more classifies patient as definite RA. Patient must have at least 1 joint with definite clinical swelling, not better explained by another disease [Arthritis and rheumatism 2010; 62(9):2569-2581] 66 - 926 citations


- 2006: The safety of infliximab combined with background treatments among patients with rheumatoid arthritis and various comorbidities (START) [Arthritis rheum 2006; 54:1075-86] 67 - 194 citations


- 2002: Classification criteria for Sjogren’s Syndrome (SS): needs 4 present, one of which includes salivary gland
Most influential medical publications: (1990-2012)

1. - 2040 citations
   - 2009: Effect of selenium and vitamin E on risk of prostate cancer and other cancers: The selenium and vitamin E cancer prevention trial (SELECT) [JAMA 2009; 301(1):39-51]

2. - 884 citations

3. - 34 citations
   - 2003: The prostate cancer prevention trial (PCPT) [NEJM 2003; 349:215-224]

4. - 115 citations
   - 2008: Circumcision status and risk of HIV and sexual transmitted infections among men who have sex with men: A meta-analysis [JAMA 2008; 300(14):1674-84]

5. - 634 citations

6. - 145 citations
   - 2003: The long-term effect of doxazosin, finasteride and combination therapy on the clinical progression of benign prostatic hyperplasia (Medical Therapy of prostatic symptoms (MTOPS) Trial)[NEJM 2003; 349:2387-2398]

7. - 7 citations
   - 2003: The prostate cancer prevention trial (PCPT) [NEJM 2003; 349:215-224]

8. - 1140 citations
   - 2003: The long-term effect of doxazosin, finasteride and combination therapy on the clinical progression of benign prostatic hyperplasia (Medical Therapy of prostatic symptoms (MTOPS) Trial)[NEJM 2003; 349:2387-2398]

REFERENCES

1. NEJM: New England Journal of Medicine
2. JAMA: Journal Of the American Medical Association
3. BMJ: British Medical Journal
4. The Lancet
5. J. Thromb Haemost: Journal of Thrombosis and Haemostasis (JTH)
6. Anesthesiology
7. Cochrane Library
8. Cochrane Database Syst Rev: Cochrane Database Systematic Review
10. Ann intern Med: Annals of Internal Medicine
11. Circulation
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<td>Br J derm: British journal of dermatology</td>
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