

Registered Nurses' Association of Ontario – Nursing Best Practice Guidelines Program
Adult Asthma Care: Promoting Control of Asthma, Second Edition (2017)

Systematic Review Bibliography

Bibliography n=163

Adeniyi, F. B. & Young, T. (2012). Weight loss interventions for chronic asthma. *Cochrane Database of Systematic Reviews*, (7).

Adeyeye, O. O., Kuyinu, Y. A., Bamisile, T. R. & Oghama, C. I. (2015). A preliminary assessment of nurses' asthma education needs and the effect of a training programme in an urban tertiary healthcare facility. *African Journal of Respiratory Medicine*, 10(2), 13-17.

Andrews, K. L., Jones, S. C. & Mullan, J. (2014). Asthma self management in adults: a review of current literature. *Collegian: Journal of the Royal College of Nursing, Australia*, 21(1), 33-41.

Araujo, L., Jacinto, T., Moreira, A., Castel-Branco, M. G., Delgado, L., Costa-Pereira, A. & Fonseca, J. (2012). Clinical efficacy of web-based versus standard asthma self-management. *Journal of investigational allergology & clinical immunology*, 22(1), 28-34.

Ashfaque, K. & Bhat, M. (2012). A clinical study on effect of breathing exercises on bronchial asthma: a controlled trial. *Biomedicine*, 32(1), 96-100.

Avallone, K. M. & McLeish, A. C. (2013). Asthma and aerobic exercise: A review of the empirical literature. *Journal of Asthma*, 50(2), 109-116.

Axelsson, M. & Lotvall, J. (2012). Recent educational interventions for improvement of asthma medication adherence. *Asia Pacific Allergy*, 2(1), 67-75.

Baishnab, E. & Karner, C. (2012). Primary care based clinics for asthma. *Cochrane Database of Systematic Reviews*, 2012(4), 1-36.

Baptist, A. P., Ross, J. A., Yang, Y., Song, P. X. & Clark, N. M. (2013). A randomized controlled trial of a self-regulation intervention for older adults with asthma. *Journal of the American Geriatrics Society*, 61(5), 747-53.

Basheti, I. A., Bosnic-Anticevich, S. Z., Armour, C. L. & Reddel, H. K. (2014). Checklists for powder inhaler technique: A review and recommendations. *Respiratory care*, 59(7), 1140-54.

Basheti, I. A., Qunaibi, E. A., Hamadi, S. A. & Reddel, H. K. (2014). Inhaler technique training and health-care professionals: Effective long-term solution for a current problem. *Respiratory Care*, 59(11), 1716-1725.

- Bender, B. G., Dickinson, P., Rankin, A., Wamboldt, F. S., Zittleman, L. & Westfall, J. M. (2011). The Colorado asthma toolkit program: A practice coaching intervention from the high plains research network. *Journal of the American Board of Family Medicine*, 24(3), 240-248.
- Bereznicki, B. J., Peterson, G., Jackson, S., Walters, E. H., George, J., Stewart, K. & March, G. J. (2013). Uptake and effectiveness of a community pharmacy intervention programme to improve asthma management. *Journal of clinical pharmacy and therapeutics*, 38(3), 212-8.
- Berthon, B. S., MacDonald-Wicks, L. K., Gibson, P. G. & Wood, L. G. (2013). Investigation of the association between dietary intake, disease severity and airway inflammation in asthma. *Respirology*, 18(3), 447-454.
- Boudreau, M., Bacon, S. L., Ouellet, K., Jacob, A. & Lavoie, K. L. (2014). Mediator effect of depressive symptoms on the association between BMI and asthma control in adults. *Chest*, 146(2), 348-354.
- Boulet, L. P., Boulay, M. E., Gauthier, G., Battisti, L., Chabot, V., Beauchesne, M. F., Villeneuve, D. & Cote, P. (2015). Benefits of an asthma education program provided at primary care sites on asthma outcomes. *Respiratory Medicine*, 109(8), 991-1000.
- Chan, C. W. C., Lee, S. C., Lo, K. C., Wong, H. K. & Li, L. (2015). Tui Jiu Therapy for the Treatment of Asthma in Adult Patients: A Meta-Analysis. *Journal of Alternative & Complementary Medicine*, 21(4), 200-207.
- Cheng, J. & Pan, T. (2009). Calorie controlled diet for chronic asthma. *Cochrane Database of Systematic Reviews*, (4).
- Cianchetti, S., Bacci, E., Ruocco, L., Pavia, T., Bartoli, M. L., Cardini, C., Costa, F., Di Franco, A., Malagrino, L., Novelli, F., Vagaggini, B., Celi, A., Dente, F. & Paggiaro, P. (2014). Are sputum eosinophil cationic protein and eosinophils differently associated with clinical and functional findings of asthma? *Clinical and experimental allergy*, 44(5), 673-680.
- Cicutto, L., Dingae, M. B. & Langmack, E. L. (2014). Improving asthma care in rural primary care practices: a performance improvement project. *The Journal of continuing education in the health professions*, 34(4), 205-214.
- Ciprandi, G., Schiavetti, I., Bellezza Fontana, R., Sorbello, V. & Ricciardolo, F. L. (2014). Overweight and obesity as risk factors for impaired lung function in patients with asthma: A real-life experience. *Allergy and asthma proceedings*, 35(4), e62-e71.
- Cleland, J. A., Hall, S., Price, D. & Lee, A. J. (2007). An exploratory, pragmatic, cluster randomised trial of practice nurse training in the use of asthma action plans. *Primary care respiratory journal*, 16(5), 311-8.

Columbo, M., Wong, B., Panettieri Jr, R. A. & Rohr, A. S. (2013). Asthma in the elderly: The role of exhaled nitric oxide measurements. *Respiratory Medicine*, 107(5), 785-787.

Conner, J. B. & Buck, P. O. (2013). Improving asthma management: The case for mandatory inclusion of dose counters on all rescue bronchodilators. *Journal of Asthma*, 50(6), 658-663.

Corrado, A., Renda, T., Polese, G. & Rossi, A. (2013). Assessment of asthma control: The SERENA study. *Respiratory Medicine*, 107(11), 1659-1666.

Crane, M. A., Jenkins, C. R., Goeman, D. P. & Douglass, J. A. (2014). Inhaler device technique can be improved in older adults through tailored education: Findings from a randomised controlled trial. *Primary Care Respiratory Medicine*, 24(14034).

de Sousa, J. C., Pina, A., Cruz, A. M., Quelhas, A., Almada-Lobo, F., Cabrita, J., Oliveira, P. & Yaphé, J. (2013). Asthma control, quality of life, and the role of patient enablement: A cross-sectional observational study. *Primary care respiratory journal*, 22(2), 181-187.

De Tratto, K., Gomez, C., Ryan, C. J., Bracken, N., Steffen, A. & Corbridge, S. J. (2014). Nurses' knowledge of inhaler technique in the inpatient hospital setting. *Clinical nurse specialist CNS*, 28(3), 156-160.

Denford, S., Taylor, R. S., Campbell, J. L. & Greaves, C. J. (2014). Effective behavior change techniques in asthma self-care interventions: Systematic review and meta-regression. *Health psychology*, 33(7), 577-587.

Dennis, J. A. & Cates, C. J. (2012). Alexander technique for chronic asthma. *Cochrane Database of Systematic Reviews*, (9).

Dogra, S., Jamnik, V. & Baker, J. (2010). Self-directed exercise improves perceived measures of health in adults with partly controlled asthma. *Journal of Asthma*, 47(9), 972-977.

Doherty, S. R., Jones, P. D., Davis, L., Ryan, N. J. & Treeve, V. (2007). Evidence-based implementation of adult asthma guidelines in the emergency department: a controlled trial. *Emergency Medicine Australasia*, 19(1), 31-8.

Dolovich, L., Sabharwal, M., Agro, K., Foster, G., Lee, A., McCarthy, L. & Willan, A. R. (2007). The effect of pharmacist education on asthma treatment plans for simulated patients. *Pharmacy world & science*, 29(3), 228-39.

Eichenberger, P. A., Diener, S. N., Kofmehl, R. & Spengler, C. M. (2013). Effects of exercise training on airway hyperreactivity in asthma: a systematic review and meta-analysis. *Sports Medicine*, 43(11), 1157-1170.

Eneli, I. U., Skybo, T. & Camargo Jr, C. A. (2008). Weight loss and asthma: A systematic review. *Thorax*, 63(8), 671-676.

Favreau, H., Bacon, S. L., Labrecque, M. & Lavoie, K. L. (2014). Prospective impact of panic disorder and panic-anxiety on asthma control, health service use, and quality of life in adult patients with asthma over a 4-year follow-up. *Psychosomatic Medicine*, 76(2), 147-155.

Federman, A. D., Wolf, M. S., Sofianou, A., Martynenko, M., O'Connor, R., Halm, E. A., Leventhal, H. & Wisnivesky, J. P. (2014). Self-management behaviors in older adults with asthma: Associations with health literacy. *Journal of the American Geriatrics Society*, 62(5), 872-879.

Federman, A. D., Wolf, M., Sofianou, A., Wilson, E. A. H., Martynenko, M., Halm, E. A., Leventhal, H. & Wisnivesky, J. P. (2013). The association of health literacy with illness and medication beliefs among older adults with asthma. *Patient Education and Counselling*, 92(2), 273-278.

Franca-Pinto, A., Mendes, F. A. R., De Carvalho-Pinto, R. M., Agondi, R. C., Cukier, A., Stelmach, R.,... Carvalho, C. R. F. (2015). Aerobic training decreases bronchial hyperresponsiveness and systemic inflammation in patients with moderate or severe asthma: A randomised controlled trial. *Thorax*, 70(8), 732-739.

Freitas, DA., Holloway, EA., Bruno, SS., Chaves, GSS., Fregonezi, GAF. & Mendonça, KMPP. (2013). Breathing exercises for adults with asthma. *Cochrane Database of Systematic Reviews*, (10).

Goeman, D., Jenkins, C., Crane, M., Paul, E. & Douglass, J. (2013). Educational intervention for older people with asthma: A randomised controlled trial. *Patient education and counseling*, 93(3), 586-595.

Gonzalez-Barcala, F. J., De La Fuente-Cid, R., Tafalla, M., Nuevo, J. & Caamano-Isorna, F. (2012). Factors associated with health-related quality of life in adults with asthma. A cross-sectional study. *Multidisciplinary Respiratory Medicine*, 7(5).

Gotzsche, P. C. & Johansen, K. H. (2011). House dust mite control measures for asthma. *Cochrane Database of Systematic Reviews*, (10).

Grande, J. A., Silva, V., Andriolo, N. G. B., Riera, R., Parra, S. A. & Peccin, M. S. (2014). Water-based exercise for adults with asthma. *Cochrane Database of Systematic Reviews*, (7).

Griffiths, P., Murrells, T., Dawoud, D. & Jones, S. (2010). Hospital admissions for asthma, diabetes and COPD: is there an association with practice nurse staffing? A cross sectional study using routinely collected data. *BMC Health Services Research*, 10(276), 1-11.

H, A. L.-J., Ahmed, A., A, A. L.-H., Khan, M., Baharoon, S., Bin Salih, S., Halwani, R. & Al-Muhsen, S. (2013). Improper inhaler technique is associated with poor asthma control and frequent emergency department visits. *Allergy, Asthma and Clinical Immunology*, 9(1).

Halbert, R. J., Tinkelman, D. G., Globe, D. R. & Lin, S. L. (2009). Measuring asthma control Is the first step to patient management: A literature review. *Journal of Asthma*, 46(7), 659-664.

Hayat, E., Borekci, S. & Gemicioglu, B. (2014). Reflux, allergic rhinitis, and sleep disorders with asthma control and quality of life. *Journal of Clinical and Analytical Medicine*, 5(6).

Heikkila, K., Madsen, I. E. H., Nyberg, S. T., Fransson, E. I., Westerlund, H., Westerholm, P. J. M., ... Kivimaki, M. (2014). Job strain and the risk of severe asthma exacerbations: A meta-analysis of individual-participant data from 100 000 European men and women. *Allergy: European Journal of Allergy and Clinical Immunology*, 69(6), 775-783.

Huo, N., Ray, G. E., Mehta, S. & LoBello, S. G. (2015). Complementary and alternative medicine use among people with asthma and health-related quality of life. *Journal of Asthma*, 52(3), 308-13.

Hwang, E. K., Jin, H. J., Nam, Y. H., Shin, Y. S., Ye, Y. M., Nahm, D. H. & Park, H. S. (2012). The predictors of poorly controlled asthma in elderly. *Allergy, Asthma and Immunology Research*, 4(5), 270-276.

Iikura, M., Yi, S., Ichimura, Y., Hori, A., Izumi, S., Sugiyama, H., Kudo, K., Mizoue, T. & Kobayashi, N. (2013). Effect of Lifestyle on Asthma Control in Japanese Patients: Importance of Periodical Exercise and Raw Vegetable Diet. *PLoS ONE*, 8(7).

Juel, C. T. B. & Ulrik, C. S. (2013). Obesity and asthma: Impact on severity, asthma control, and response to therapy. *Respiratory Care*, 58(5), 867-873.

Kaferle, J. E. & Wimsatt, L. A. (2012). A team-based approach to providing asthma action plans. *Journal of the American Board of Family Medicine*, 25(2), 247-249.

Kim, M. A., Ye, Y. M., Park, J. W., Lee, J. H., Lee, S. K., Kim, C. W., ... Park, H. S. (2014). A computerized asthma-specific quality of life: a novel tool for reflecting asthma control and predicting exacerbation. *International Archives of Allergy & Immunology*, 163(1), 36-42.

Kim, M. Y., Jo, E. J., Kang, S. Y., Chang, Y. S., Yoon, I. Y., Cho, S. H., Min, K. U. & Kim, S. H. (2013). Obstructive sleep apnea is associated with reduced quality of life in adult patients with asthma. *Annals of Allergy, Asthma and Immunology*, 110(4), 253-257.

Krasnodebska, P., Hermanowicz-Salamon, J., Domagala-Kulawik, J. & Chazan, R. (2012). Factors influencing asthma course and the degree of control in the patients assessed with own questionnaire and Asthma control Test (ACT). *Pneumonologia i Alergologia Polska*, 80(3), 198-208.

Krauskopf, K. A., Sofianou, A., Goel, M. S., Wolf, M. S., Wilson, E. A. H., Martynenko, M. E., Halm, E. A., Leventhal, H., Feldman, J. M., Federman, A. D. & Wisnivesky, J. P. (2013). Depressive symptoms, low adherence, and poor asthma outcomes in the elderly. *Journal of Asthma*, 50(3), 260-266.

Krieger, J., Song, L. & Philby, M. (2015). Community health worker home visits for adults with uncontrolled asthma: The HomeBASE trial randomized clinical trial. *JAMA Internal Medicine*, 175(1), 109-17.

Kuethe, M. C., VaessenVerberne, A. A., Elbers, R. G. & Van Aalderen, M. C. W. (2013). Nurse versus physician-led care for the management of asthma. *Cochrane Database of Systematic Reviews*, 2013(2), 1-37.

Kuhn, L., Reeves, K., Taylor, Y., Tapp, H., McWilliams, A., Gunter, A., Cleveland, J. & Dulin, M. (2015). Planning for action: The impact of an asthma action plan decision support tool integrated into an Electronic Health Record (EHR) at a large health care system. *Journal of the American Board of Family Medicine*, 28(3), 382-393.

Lathadevi, G. V. & Uma Maheswari, T. (2012). Evaluation of pulmonary functions in asthmatics after six weeks of ujjayi pranayama and shavasana training. *Biomedicine*, 32(1), 52-6.

LeMay, K. S., Armour, C. L. & Reddel, H. K. (2014). Performance of a brief asthma control screening tool in community pharmacy: A cross-sectional and prospective longitudinal analysis. *Primary Care Respiratory Journal*, 23(1), 79-84.

Leung, J. M., Bhutani, M., Leigh, R., Pelletier, D., Good, C. & Sin, D. D. (2015). Empowering family physicians to impart proper inhaler teaching to patients with chronic obstructive pulmonary disease and asthma. *Canadian Respiratory Journal*, 22(5), 266-270.

Liang, B., Yi, Q. & Feng, Y. (2013). Association of gastroesophageal reflux disease with asthma control. *Diseases of the Esophagus*, 26(8), 794-798.

Licskai, T. W. Sands, L. Paolatto, I. Nicoletti and M. Ferrone. 2012. Spirometry in primary care: an analysis of spirometry test quality in a regional primary care asthma program. *Canadian Respiratory Journal*, 19(4), 249-54.

Lingner, H., Ernst, S., Grosshennig, A., Djahangiri, N., Scheub, D., Wittmann, M. & Schultz, K. (2015). Asthma control and health-related quality of life one year after inpatient pulmonary rehabilitation: The ProKAR Study. *Journal of Asthma*, 52(6), 614-621.

Londono, A. M. M. & Schulz, P. J. (2015). Influences of health literacy, judgment skills, and empowerment on asthma self-management practices. *Patient Education and Counselling*, 98(7), 908-917.

Lougheed, M. D., Olajos-Clow, J., Szpiro, K., Moyse, P., Julien, B., Wang, M. & Day, A. G. (2009). Multicentre evaluation of an emergency department asthma care pathway for adults. *Canadian Journal of Emergency Medicine*, 11(3), 214-229.

Lv, Y., Zhao, H., Liang, Z., Dong, H., Liu, L., Zhang, D. & Cai, S. (2012). A mobile phone short message service improves perceived control of asthma: a randomized controlled trial. *Telemedicine journal and e-health*, 18(6), 420-426.

Ma, J., Strub, P., Xiao, L., Lavori, P. W., Camargo, C. A., Wilson, S. R., Gardner, C. D., Buist, A. S., Haskell, W. L. & Lv, N. (2015). Behavioral weight loss and physical activity intervention in obese adults with asthma: A randomized trial. *Annals of the American Thoracic Society*, 12(1), 1-11.

Maalej, S., Yaacoub, Z., Fakhfekh, R., Yaalaoui, S., Kheder, A. B. & Drira, I. (2012). Association of obesity with asthma severity, control and quality of life. *Tanaffos*, 11(1), 38-43.

Maciejewski, M., Chen, S. & Au, D. (2009). Adult Asthma Disease Management: An Analysis of Studies, Approaches, Outcomes, and Methods. *Respiratory Care*, 54(7), 878-887.

Mancuso, C. A., Choi, T. N., Westermann, H., Wenderoth, S., Wells, M. T. & Charlson, M. E. (2013). Improvement in asthma quality of life in patients enrolled in a prospective study to increase lifestyle physical activity. *The Journal of asthma*, 50(1), 103-107.

Manoharan, A., Anderson, W. J., Lipworth, J. & Lipworth, B. J. (2015). Assessment of spirometry and impulse oscillometry in relation to asthma control. *Lung*, 193(1), 47-51.

Marcano Belisario, J. S., Huckvale, K., Greenfield, G., Car, J. & Gunn, L. H. (2013). Smartphone and tablet self management apps for asthma. *Cochrane Database of Systematic Reviews*, (11).

Mazurek, J. M., Knoeller, G. E. & Moorman, J. E. (2012). Effect of current depression on the association of work-related asthma with adverse asthma outcomes: A cross-sectional study using the behavioral risk factor surveillance system. *Journal of Affective Disorders*, 136(3), 1135-1142.

McLean, S., Chandler, D., Nurmatov, U., Liu, L. Y. J., Pagliari, C., Car, J. & Sheikh, A. (2012). Telehealthcare for asthma. *Cochrane Database of Systematic Reviews*, (8).

Melosini, L., Dente, F. L., Bacci, E., Bartoli, M. L., Cianchetti, S., Costa, F., Franco, A. D., Malagrin, L., Novelli, F., Vagaggini, B. & Paggiaro, P. (2012). Asthma control test (ACT): Comparison with clinical, functional, and biological markers of asthma control. *Journal of Asthma*, 49(3), 317-323.

Meyer, A., Gunther, S., Volmer, T., Taube, K. & Baumann, H. J. (2015). A 12-month, moderate-intensity exercise training program improves fitness and quality of life in adults with asthma: A controlled trial. *BMC Pulmonary Medicine*, 15(1), 56.

Mickleborough, T. D. & Fogarty, A. (2006). Dietary sodium intake and asthma: An epidemiological and clinical review. *International Journal of Clinical Practice*, 60(12), 1616-1624.

Minard, J. P., Turcotte, S. E. & Lougheed, M. D. (2010). Asthma electronic medical records in primary care: An integrative review. *Journal of Asthma*, 47(8), 895-912.

Mohammed Saji, S., Alhas Ja Jiju, K. & Sundaran, S. (2012). Study on the impact of patient counseling on the quality of life and pulmonary function of asthmatic patient. *International Journal of Pharmacy and Pharmaceutical Sciences*, 4(SUPPL. 5), 300-4.

Munoz, X., Viladrich, M., Manso, L., Del Pozo, V., Quirce, S., Cruz, M. J., Carmona, F., Sanchez-Pla, A. & Sastre, J. (2014). Evolution of occupational asthma: Does cessation of exposure really improve prognosis? *Respiratory Medicine*, 108(9), 1363-1370.

Nassehi, A., Borhani, F., Arab, M., Abbasszadeh, A. & Jafari, M. (2013). Comparison of two educational models: Compliance-based and empowerment on self-management knowledge of patients with asthma. *Iranian journal of allergy, asthma, and immunology*, 12(9S), S126.

O'Conor, R., Wolf, M. S., Smith, S. G., Martynenko, M., Vicencio, D. P., Sano, M., Wisnivesky, J. P. & Federman, A. D. (2015). Health literacy, cognitive function, proper use, and adherence to inhaled asthma controller medications among older adults with asthma. *Chest*, 147(5), 1307-1315.

Ouellet, K., Bacon, S. L., Boudreau, M., Plourde, A., Moullec, G. & Lavoie, K. L. (2012). Individual and combined impact of cigarette smoking, anxiety, and mood disorders on asthma control. *Nicotine and Tobacco Research*, 14(8), 961-969.

Ozturk, A. B., Ozyigit Pur, L., Kostek, O. & Keskin, H. (2015). Association between asthma self-management knowledge and asthma control in the elderly. *Annals of Allergy, Asthma and Immunology*, 114(6), 480-484.

Pakhale, S., Baron, J., Dent, R., Vandemheen, K. & Aaron, S. D. (2015). Effects of weight loss on airway responsiveness in obese adults with asthma: Does weight loss lead to reversibility of asthma? *Chest*, 147(6), 1582-1590.

Pakhale, S., Luks, V., Burkett, A. & Turner, L. (2013). Effect of physical training on airway inflammation in bronchial asthma: A systematic review. *BMC Pulmonary Medicine*, 13(1), 38.

Pare, G., Moqadem, K., Pineau, G. & St-Hilaire, C. (2010). Clinical effects of home telemonitoring in the context of diabetes, asthma, heart failure and hypertension: A systematic review. *Journal of Medical Internet Research*, 12(2), e21.

Parry, G. D., Cooper, C. L., Moore, J. M., Yadegarfar, G., Campbell, M. J., Esmonde, L., Morice, A. H. & Hutchcroft, B. J. (2012). Cognitive behavioural intervention for adults with anxiety complications of asthma: prospective randomised trial. *Respiratory medicine*, 106(6), 802-10.

Patel, M. R., Valerio, M. A., Janevic, M. R., Gong, Z. M., Sanders, G., Thomas, L. J. & Clark, N. M. (2013). Long-term effects of negotiated treatment plans on self-management behaviors and satisfaction with care among women with asthma. *The Journal of asthma*, 50(1), 82-89.

Patel, M. R., Valerio, M. A., Sanders, G., Thomas, L. J. & Clark, N. M. (2012). Asthma action plans and patient satisfaction among women with asthma. *Chest*, 142(5), 1143-9.

Paudyal, P., Hine, P., Theadom, A., Apfelbacher, C. J., Jones, C. J., Yorke, J., Hankins, M. & Smith, H. E. (2014). Written emotional disclosure for asthma. *Cochrane Database of Systematic Reviews*, (5).

Peytremann-Bridevaux, I., Gex, G., Bridevaux, P. O. & Burnand, B. (2009). Chronic disease management programs for adults with asthma. *Cochrane Database of Systematic Reviews*, (3) (CD007988).

Pinnock, H., Epiphaniou, E., Pearce, G., Parke, H., Greenhalgh, T., Sheikh, A., Griffiths, C. J. & Taylor, S. J. C. (2015). Implementing supported self-management for asthma: A systematic review and suggested hierarchy of evidence of implementation studies. *BMC Medicine*, 13(1).

Policicchio, J., Nelson, B. & Duffy, S. (2011). Bringing evidence-based continuing education on asthma to nurses. *Clinical nurse specialist CNS*, 25(3), 125-132.

Polosa, R., Morjaria, J., Caponnetto, P., Caruso, M., Strano, S., Battaglia, E. & Russo, C. (2014). Effect of smoking abstinence and reduction in asthmatic smokers switching to electronic cigarettes: Evidence for harm reversal. *International Journal of Environmental Research and Public Health*, 11(5), 4965-4977.

Pope, C. R., Wilhelm, A. M. & Marshall Jr, G. D. (2014). Psychological Stress Interventions and Asthma: Therapeutic Considerations. *Journal of Clinical Outcomes Management*, 21(12), 570-576.

Posadzki, P. & Ernst, E. (2011). Yoga for asthma? A systematic review of randomized clinical trials. *Journal of Asthma*, 48(6), 632-639.

Poureslami, I. M., Rootman, I., Balka, E., Devarakonda, R., Hatch, J. & FitzGerald, J. M. (2007). A systematic review of asthma and health literacy: A cultural-ethnic perspective in Canada. *General Medicine*, 9(3), 40.

Poureslami, I., Nimmon, L., Doyle-Waters, M., Rootman, I., Schulzer, M., Kuramoto, L. & FitzGerald, J. M. (2012). Effectiveness of educational interventions on asthma self-management in Punjabi and Chinese asthma patients: a randomized controlled trial. *Journal of asthma*, 49(5), 542-51.

Prem, V., Sahoo, R. & Adhikari, P. (2012). Comparison of the effects of Buteyko and pranayama breathing techniques on quality of life in patients with asthma – a randomized controlled trial. *Clinical Rehabilitation*, 27(2), 133-141.

Press, V. G., Pappalardo, A. A., Conwell, W. D., Pincavage, A. T., Prochaska, M. H. & Arora, V. M. (2012). Interventions to improve outcomes for minority adults with asthma: A systematic review. *Journal of General Internal Medicine*, 27(8), 1001-1015.

Price, D., Dale, P., Elder, E. & Chapman, K. R. (2014). Types, frequency and impact of asthma triggers on patients' lives: A quantitative study in five European countries. *Journal of Asthma*, 51(2), 127-135.

Pur Ozyigit, L., Ozcelik, B., Ozcan Ciloglu, S. & Erkan, F. (2014). The effectiveness of a pictorial asthma action plan for improving asthma control and the quality of life in illiterate women. *Journal of Asthma*, 51(4), 423-8.

Qamar, N., Pappalardo, A. A., Arora, V. M. & Press, V. G. (2011). Patient-centered care and its effect on outcomes in the treatment of asthma. *Patient Related Outcome Measures*, 2, 81-109.

Rachiotis, G., Savani, R., Brant, A., MacNeill, S. J., Taylor, A. N. & Cullinan, P. (2007). Outcome of occupational asthma after cessation of exposure: A systematic review. *Thorax*, 62(2), 147-152.

Rahmati, H., Ansarfard, F., Ghodbsin, F., Ghayumi, M. A. & Sayadi, M. (2014). The effect of training inhalation technique with or without spacer on maximum expiratory flow rate and inhaler usage skills in asthmatic patients: a randomized controlled trial. *International Journal of Community Based Nursing and Midwifery*, 2(4), 211-219.

Rajanandh, M. G., Nageswari, A. D. & Ilango, K. (2014). Influence of demographic status on pulmonary function, quality of life, and symptom scores in patients with mild to moderate persistent asthma. *Journal of Experimental and Clinical Medicine (Taiwan)*, 6(3), 102-104.

Rajanandh, M. G., Nageswari, A. D. & Prathiksha, G. (2015). Effectiveness of vitamin D3 in severe persistent asthmatic patients: A double blind, randomized, clinical study. *Journal of Pharmacology and Pharmacotherapeutics*, 6(3), 142-146.

Rao Melam, G., Buragadda, S., Alhusaini, A., Ed Abdulrahman Alghamdi, M., Saleh Alghamdi, M. & Kaushal, P. (2014). Effect of Different Positions on FVC and FEV1 Measurements of Asthmatic Patients. *Journal of Physical Therapy Science*, 26(4), 591-593.

Rayens, M. K., Burkhardt, P. V., Zhang, M., Lee, S., Moser, D. K., Mannino, D. & Hahn, E. J. (2008). Reduction in asthma-related emergency department visits after implementation of a smoke-free law. *Journal of Allergy and Clinical Immunology*, 122(3), 537-541.

Rifaat, N., Abdel-Hady, E. & Hasan, A. A. (2013). The golden factor in adherence to inhaled corticosteroid in asthma patients. *Egyptian Journal of Chest Diseases and Tuberculosis*, 62(3), 371-376.

Ring, N., Malcolm, C., Wyke, S., MacGillivray, S., Dixon, D., Hoskins, G., Pinnock, H. & Sheikh, A. (2007). Promoting the use of personal asthma action plans: A systematic review. *Primary Care Respiratory Journal*, 16(5), 271-283.

Ross, J. A., Yang, Y., Song, P. X. K., Clark, N. M. & Baptist, A. P. (2013). Quality of life, health care utilization, and control in older adults with asthma. *Journal of Allergy and Clinical Immunology: In Practice*, 1(2), 157-162.

Saito, J., Sato, S., Fukuhara, A., Sato, Y., Nikaido, T., Inokoshi, Y., Fukuhara, N., Saito, K., Ishii, T., Tanino, Y., Ishida, T. & Munakata, M. (2013). Association of asthma education with asthma control evaluated by asthma control test, FEV1, and fractional exhaled nitric oxide. *Journal of Asthma*, 50(1), 97-102.

Sari, N., & Osman, M. (2015). The effects of patient education programs on medication use among asthma and COPD patients: a propensity score matching with a difference-in-difference regression approach. *BMC Health Services Research*, 15, 332. doi: <http://dx.doi.org/10.1186/s12913-015-0998-6>

Schneider, J. E., Lewis, L. M., Ferguson, I., House, S. L., Liu, J., Matsuda, K. & Johnson, K. (2014). Repeated dyspnea score and percent FEV1 are modest predictors of hospitalization/relapse in patients with acute asthma exacerbation. *Respiratory Medicine*, 108(9), 1284-1291.

Self, T. H., Arnold, L. B., Czosnowski, L. M., Swanson, J. M. & Swanson, H. (2007). Inadequate skill of healthcare professionals in using asthma inhalation devices. *Journal of Asthma*, 44(8), 593-598.

Self, T. H., George, C. M., Wallace, J. L., Patterson, S. J. & Finch, C. K. (2014). Incorrect use of peak flow meters: Are you observing your patients? *Journal of Asthma*, 51(6), 566-572.

Sexton, P., Black, P., Metcalf, P., Wall, C. R., Ley, S., Wu, L., Sommerville, F., Brodie, S. & Kolbe, J. (2013). Influence of mediterranean diet on asthma symptoms, lung function, and systemic inflammation: a randomized controlled trial. *Journal of asthma*, 50(1), 75-81.

Shanmugam, S., Varughese, J., Nair, M. A. S., Balasubramanian, R., Velu, S., Bhojan, C., Devarajan, V. & Sabzghabaee, A. M. (2012). Pharmaceutical care for asthma patients: A Developing Country's Experience. *Journal of Research in Pharmacy Practice*, 1(2), 66-71.

Sharma, M., Haider, T. & Bose, P. P. (2012). Yoga as an alternative and complementary treatment for asthma: A systematic review. *Journal of Evidence-Based Complementary & Alternative Medicine*, 17(3), 212-217.

Shirai, T., Yasueda, H., Saito, A., Taniguchi, M., Akiyama, K., Tsuchiya, T., Suda, T. & Chida, K. (2012). Effect of exposure and sensitization to indoor allergens on asthma control level. *Allergology International*, 61(1), 51-56.

Silva, IS., Fregonezi, GAF., Dias, FAL., Ribeiro, CTD., Guerra, RO. & Ferreira, GMH. (2013). Inspiratory muscle training for asthma. *Cochrane Database of Systematic Reviews*, (9).

Sims, M., Maxwell, R. & Gilmore, A. (2013). Short-term impact of the smokefree legislation in England on emergency hospital admissions for asthma among adults: A population-based study. *Thorax*, 68(7), 619-624.

Singh, S., Soni, R., Singh, K. P. & Tandon, O. P. (2012). Effect of yoga practices on pulmonary function tests including transfer factor of lung for carbon monoxide (TLCO) in asthma patients. *Indian journal of physiology and pharmacology*, 56(1), 63-8.

Sliwka, A., Nowobilski, R., Polczyk, R., Nizankowska-Mogilnicka, E. & Szczeklik, A. (2012). Mild asthmatics benefit from music therapy. *Journal of asthma*, 49(4), 401-8.

Smith, H. E., Jones, C. J., Hankins, M., Field, A., Theadom, A., Bowskill, R., Horne, R. & Frew, A. J. (2015). The effects of expressive writing on lung function, quality of life, medication use, and symptoms in adults with asthma: A randomized controlled trial. *Psychosomatic medicine*, 77(4), 429-37.

Sodhi, C., Singh, S. & Bery, A. (2014). Assessment of the quality of life in patients with bronchial asthma, before and after yoga: A randomised trial. *Iranian Journal of Allergy, Asthma and Immunology*, 13(1), 55-60.

Steppuhn, H., Langen, U., Scheidt-Nave, C. & Keil, T. (2013). Major comorbid conditions in asthma and association with asthma-related hospitalizations and emergency department admissions in adults: Results from the German national health telephone interview survey (GEDA) 2010. *BMC Pulmonary Medicine*, 13(1).

Steurer-Stey, C., Storch, M., Benz, S., Hobi, B., Steffen-Burgi, B., Steurer, J. & Puhan, M. A. (2015). Motivational training improves self-efficacy but not short-term adherence with asthma self-management: a randomized controlled trial. *Primary Health Care Research & Development*, 16(1), 32-41.

Talini, D., Novelli, F., Melosini, L., Bacci, E., Bartoli, M. L., Cianchetti, S., Dente, F. L., Di Franco, A., Vagaggini, B. & Paggiaro, P. L. (2012). May the reduction of exposure to specific sensitizers Be an alternative to work cessation in occupational asthma? Results from a follow-up study. *International Archives of Allergy and Immunology*, 157(2), 186-193.

Tapp, S., Lasserson, T. J. & Rowe, B. H. (2013). Education interventions for adults who attend the emergency room for acute asthma. *Cochrane Database of Systematic Reviews*, (5).

Taskin Yilmaz, F. & Cinar, S. (2015). Effect of educational on symptom control and quality of life on asthmatic patients. *Anatolian Journal of Clinical Investigation*, 9(2), 47-54.

Taylor-Fishwick, J. C., Okafor, M. & Fletcher, M. (2015). Effectiveness of asthma principles and practice course in increasing nurse practitioner knowledge and confidence in the use of asthma clinical guidelines. *Journal of the American Association of Nurse Practitioners*, 27(4), 197-204.

Teodorescu, M., Polomis, D. A., Teodorescu, M. C., Gangnon, R. E., Peterson, A. G., Consens, F. B., Chervin, R. D. & Jarjour, N. N. (2012). Association of obstructive sleep apnea risk or diagnosis with daytime asthma in adults. *Journal of Asthma*, 49(6), 620-628.

Teresato, Guttmann, A., Lougheed, M. D., Gershon, A. S., Dell, S. D., Stanbrook, M. B., Wang, C., McLimont, S., Ristovska, J., Crighton, E. J. & Fisman, D. N. (2010). Evidence-based performance indicators of primary care for asthma: A modified RAND Appropriateness Method. *International Journal for Quality in Health Care*, 22(6), 476-485.

Thomson, N. C., Chaudhuri, R., Heaney, L. G., Bucknall, C., Niven, R. M., Brightling, C. E., Menzies-Gow, A. N., Mansur, A. H. & McSharry, C. (2013). Clinical outcomes and inflammatory biomarkers in current smokers and exsmokers with severe asthma. *Journal of Allergy and Clinical Immunology*, 131(4), 1008-1016.

To, T., Cicutto, L., Degani, N., McLimont, S. & Beyene, J. (2008). Can a community evidence-based asthma care program improve clinical outcomes? A longitudinal study. *Medical Care*, 46(12), 1257-1266.

Toumaa-Shehata, M., Price, D., Basheti, I. & Bosnic-Anticevich, S. (2014). Exploring the role of feedback in inhaler technique education. *Respirology*, 19(25).

Toyama, M., Hasegawa, T., Sakagami, T., Koya, T., Hayashi, M., Kagamu, H., Muramatsu, Y., Muramatsu, K., Arakawa, M., Gejyo, F., Narita, I. & Suzuki, E. (2014). Depression's influence on the asthma control test, Japanese version. *Allergology International*, 63(4), 587-594.

Trzcinska, H., Przybylski, G., Kozlowski, B. & Derdowski, S. (2012). Analysis of the relation between level of asthma control and depression and anxiety. *Medical Science Monitor*, 18(3), CR198-CR202.

Trzcinska, H., Zwierzchowska, B., Kozlowski, B., Derdowski, S. & Przybylski, G. (2013). Analysis of the role of selected demographic and psychological variables (anxiety and depression) as risk factors of inadequate control of bronchial asthma. *Annals of Agricultural and Environmental Medicine*, 20(3), 504-508.

van Gaalen, J. L., Beerthuizen, T., van der Meer, V., van Reisen, P., Redelijkhed, G. W., Snoeck-Stroband, J. B. & et al. (2013). Long-term outcomes of internet-based self-management support in adults with asthma: randomized controlled trial. *Journal of Medical Internet Research*, 15(9), e188-e188.

Vandenplas, O., Dressel, H., Nowak, D. & Jamart, J. (2012). What is the optimal management option for occupational asthma? *European Respiratory Review*, 21(124), 97-104.

Vandenplas, O., Dressel, H., Wilken, D., Jamart, J., Heederik, D., Maestrelli, P., Sigsgaard, T., Henneberger, P. & Baur, X. (2011). Management of occupational asthma: Cessation or reduction of exposure? A systematic review of available evidence. *European Respiratory Journal*, 38(4), 804-811.

Vernon, M. K., Wiklund, I., Bell, J. A., Dale, P. & Chapman, K. R. (2012). What do we know about asthma triggers? A review of the literature. *Journal of Asthma*, 49(10), 991-998.

Vervloet, D., Pribil, C., Dumur, J. P., Godard, P., Salmeron, S., Serrier, P., Koechlin, C. & Didier, A. (2014). Factors associated with poorly controlled asthma among adults in France. *Revue Francaise d'Allergologie*, 54(6), 428-437.

Wagener, A. H., De Nijs, S. B., Lutter, R., Sousa, A. R., Weersink, E. J. M., Bel, E. H. & Sterk, P. J. (2015). External validation of blood eosinophils, FENOand serum periostin as surrogates for sputum eosinophils in asthma. *Thorax*, 70(2), 115-120.

Wiltens, M. M. H. A., Theunissen, C., Glasser, M. & Zeitz, H. (2012). Asthma and depression: A focus on the patient factors of asthma knowledge, asthma severity, and coping. *Journal of Clinical Outcomes Management*, 19(6), 255-261.

Wisnivesky, J. P., Lorenzo, J., Lyn-Cook, R., Newman, T., Aponte, A., Kiefer, E. & Halm, E. A. (2008). Barriers to adherence to asthma management guidelines among inner-city primary care providers. *Annals of Allergy, Asthma and Immunology*, 101(3), 264-270.

Wood, L. G., Garg, M. L., Smart, J. M., Scott, H. A., Barker, D. & Gibson, P. G. (2012). Manipulating antioxidant intake in asthma: a randomized controlled trial. *American journal of clinical nutrition*, 96(3), 534-43.

Worth, A., Hammersley, V., Knibb, R., Flokstra-de-Blok, B., DunnGalvin, A., Walker, S., Dubois, A. E. J. & Sheikh, A. (2014). Patient-reported outcome measures for asthma: A systematic review. *npj Primary Care Respiratory Medicine*, 24(14020).

Yamasaki, A., Kawasaki, Y., Takeda, K., Harada, T., Fukushima, T., Takata, M., Hashimoto, K., Watanabe, M., Kurai, J., Nishimura, K. & Shimizu, E. (2014). The relationships among sleep efficiency, Pulmonary functions, and quality of life in patients with asthma. *International Journal of General Medicine*, 7, 505-512.

Yildiz, F., Erbagci, A., Demirel, Y. S., Akcali, S. D., Ekici, A., Dursunoglu, N., ...& Ozer, A. (2014). Importance of inhaler device use status in the control of asthma in adults: The asthma inhaler treatment study. *Respiratory Care*, 59(2), 223-230.

Yonas, M. A., Marsland, A. L., Emeremni, C. A., Moore, C. G., Holguin, F. & Wenzel, S. (2013). Depressive symptomatology, quality of life and disease control among individuals with well-characterized severe asthma. *Journal of Asthma*, 50(8), 884-890.

Yorke, J., Fleming, S. L. & Shuldhham, C. (2009). Psychological interventions for adults with asthma. *Cochrane Database of Systematic Reviews*, (4).

Zaihra, T., Ernst, P., Tamblyn, R. & Ahmed, S. (2015). Tailoring interventions: Identifying predictors of poor asthma control. *Annals of Allergy, Asthma and Immunology*, 114(6), 485-491.

Zhao, J., Zhai, Y. K., Zhu, W. J. & Sun, D. X. (2015). Effectiveness of Telemedicine for Controlling Asthma Symptoms: A Systematic Review and Meta-analysis. *Telemedicine Journal & E-Health*, 21(6), 484-92.