

## CURRICULUM VITAE

# BASHEER Y. KHASSAWNEH, M.D.

**Professor of Pulmonary, Sleep and Critical Care Medicine**  
**Department of Internal Medicine, Faculty of Medicine**  
**Jordan University of Science and Technology**  
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### Personal History

Present Position Rank: **Professor**

Department of Internal Medicine  
Jordan University of Science and Technology  
Irbid, Jordan

**Consultant: Pulmonary, Sleep and Critical Care  
Medicine**

**Director of Pulmonary and Critical care Division**

Department of Internal Medicine  
King Abdullah University Hospital  
Irbid, Jordan

Citizenship: Jordanian

## Educational History

Medical School:

8/1987 - 6/1993

Faculty of Medicine  
Jordan University of Science and Technology  
Irbid, Jordan

## Residency and Fellowship

7/1993 - 6/1994

Rotating Internship: Irbid, Jordan

8/1994 - 7/1997

Internal Medicine Residency  
University of Arkansas for Medical Sciences  
Little Rock, AR, USA

8/1997 – 7/2001

Fellowship, Pulmonary Medicine  
Fellowship, Critical Care Medicine  
Fellowship, Sleep Medicine  
University of Arkansas for Medical Sciences  
Little Rock, AR, USA

Board Certification:

America Board of Internal Medicine	1997
American Board, Pulmonary Medicine	1999
American Board, Critical Care Medicine	2001
American Diplomat, Sleep Medicine	2002

## Professional Position

### Academic Appointments

7/2002 – 5/2008

**Assistant Professor of Medicine**

Department of Internal Medicine  
Faculty of Medicine  
Jordan University of Science and Technology  
Irbid, Jordan

5/2008 – 9/2018

**Associate Professor of Medicine**

Faculty of Medicine  
Department of Internal Medicine,  
Jordan University of Science and Technology  
Irbid, Jordan

7/2017 – 7/2018

**Research Affiliate**

Division of Sleep Medicine  
Department of Medicine  
National Jewish Health  
Denver, Colorado, USA

9/2018 - current

**Full Professor**

Faculty of Medicine  
Department of Internal Medicine,  
Jordan University of Science and Technology  
Irbid, Jordan

## Administrative Appointments

2/2021 – 9/2022	<b>Director: Pulmonary and Critical Care Division</b> King Abdullah University Hospital Irbid, Jordan
3/2014 – 9/2016	<b>Deputy CEO</b> King Abdullah University Hospital Irbid, Jordan
12/2010 – 2/2014	<b>Chief Medical Officer</b> King Abdullah University Hospital Irbid, Jordan
9/2010 – 8/2011	<b>Vice-Dean</b> Faculty of Medicine Jordan University of Science and Technology Irbid, Jordan
9/2008 – 8/2010	<b>Chairman: Department of Internal Medicine</b> Faculty of Medicine Jordan University of Science and Technology Irbid, Jordan
4/2004 – 8/2008	<b>Director: Pulmonary and Critical Care Division</b> King Abdullah University Hospital Irbid, Jordan

## Professional Services and Committees

9/2018-now	<b>Chair: Scientific Committee</b> Department of Medicine Jordan University of Science and Technology
4/2014 – 9/2016	<b>Chair: Medical Record Committee</b>

	King Abdullah University Hospital Irbid, Jordan
3/2014-9/2016	<b>Chair: Central Tenders Committee</b> Jordan University of Science and Technology Irbid, Jordan
4/2013-8/2016	<b>Co-Chair: IRB Committee</b> Jordan University of Science and Technology Irbid, Jordan
12/2011- 2/2014	<b>Chair:Pharmacy and Therapeutics Committee</b> King Abdullah University Hospital Irbid, Jordan
12/2010-2/2016	<b>Quality Improvement Committee</b> King Abdullah University Hospital Irbid, Jordan
9/2007 – 12/2010	<b>Credentialing Committee</b> King Abdullah University Hospital Irbid, Jordan
2007 – 2011	<b>Jordanian Board of Internal Medicine</b> Jordanian Medical Council Amman, Jordan
2013-2018	<b>Jordanian Board of Pulmonary Medicine</b> Jordanian Medical Council Amman, Jordan

## Review and Referee Activities

- Journal of Clinical Investigation
- Jordanian Medical Journal
- Annals of Thoracic Medicine
- Journal of Royal Medical Services
- Journal of Asthma

## Teaching and Examination Activities

- Director, Internal Medicine Residency
- Director, Medical students Internal Medicine course (6th year)
- Head of exam committee: 6th year students
- Examiner, Arab Board of Internal Medicine
- Teaching 4<sup>th</sup> and 6<sup>th</sup> year medical students
- Supervise Internal Medicine residents

## Invited Lectures

- **COVID-19 Case Management. HCAC Webinar.** May 2020.
- **GINA 2019 Update on the Management of Asthma.** January 2020. Irbid Jordan.
- **Management of Pulmonary Sarcoidosis.** ATS 2016. December 2016. Beirut Lebanon.
- **Noninvasive Ventilation in Acute Respiratory Failure.** 8TH International Medical Conference of the Royal Medical Services. November 2016. Amman, Jordan.
- **Chest Guidelines: Antithrombotic therapy for VTE disease.** 3rd Advances in Critical Care Medicine Conference. March 2016. Amman, Jordan
- **Septic Shock.** 7TH International Medical Conference of the Royal Medical Services. November 2014. Amman, Jordan.
- **Sleep, Safety and Fatigue at the Workplace.** Sleep Medicine Prime Time Conference. February 2012. Riyadh, KSA
- **Obesity Pandemic and Sleep Disorder Breathing.** Sleep Medicine Prime Time Conference. February 2012. Riyadh, KSA

## Research Grants, Contracts, and Special Grants

- Prospective, Randomized, Double-Blind, Multicenter, Phase 3 study To Assess the Safety and Efficacy of Intravenous Ceftolozane/Tazobactam Compared with Meropenem In Adult Patients with Ventilated Nosocomial Pneumonia.
- A Phase 3 Randomized Double-blind Study Comparing TR 701 FA and Linezolid in Ventilated Gram-positive Nosocomial Pneumonia.
- Evaluation of Asthma Management in Middle East North Africa Adult population  
Descriptive study on the management of asthma in asthmatic Middle East North Africa adult population

## Meetings and Conferences

### International

1. 2019 ERS Annual Congress Madrid, Spain
2. 2018 American Thoracic Society Meeting, San Diego USA
3. 2018 SLEEP Meeting, Baltimore USA
4. 2014 CHEST World Congress, Madrid Spain
5. 2012 ERS Annual Congress Vienna, Austria

### Local/Regional

1. 2017 8th International Medical Conference of the Royal Medical Service. Dead Sea Jordan.
2. 2017 ATS Review, Beirut Lebanon
3. 2015-2017 Advances in Critical Care Medicine Conference, Amman Jordan
4. 2014-2017 Pulmonary Medicine Forum, Dead Sea Jordan
5. 2014-2017 Pulmonary Medicine Year in Review
6. 2016 8Th International Medical Conference. JUST, Irbid, Jordan

### TV interviews

1. Metallic pin aspiration among Moslem women, Jordan TV
2. Obstructive Sleep Apnea, Jordan TV
3. Insomnia, Jordan TV

## Bibliography

### Published Work

1. Edinger JD, Bathgate CJ, Tsai S, **Khassawneh B**. Impact of daytime sleepiness and insomnia on simple and complex cognitive task performances. *Sleep Med*. 2021 Aug 12;87:46-55. doi: 10.1016/j.sleep.2021.08.004. Epub ahead of print. PMID: 34509774.
2. Khasawneh N, Fraiwan M, Fraiwan L, **Khassawneh B**, Ibnian A. Detection of COVID-19 from Chest X-ray Images Using Deep Convolutional Neural Networks. *Sensors (Basel)*. 2021 Sep 3;21(17):5940. doi: 10.3390/s21175940. PMID: 34502829; PMCID: PMC8434649.
3. Ikbaryieh B, Al Habashneh R, **Khassawneh B**, Alrawashdeh M, Elsalem L, Al-Nusair J. Clinical and biological indicators of periodontal disease in obese and non-obese adults with and without bronchial asthma. *J Asthma*. 2021 Aug 23:1-9. doi: 10.1080/02770903.2021.1962907. Epub ahead of print. PMID: 34324826.
4. Al-Mistarehi AH, Kheirallah KA, Yassin A, Alomari S, Aledrisi MK, Bani Ata EM, Hammad NH, Khanfar AN, Ibnian AM, **Khassawneh BY**. Determinants of the willingness of the general population to get vaccinated against COVID-19 in a developing country. *Clin Exp Vaccine Res*. 2021 May;10(2):171-182. doi: 10.7774/cevr.2021.10.2.171. Epub 2021 May 31. PMID: 34222130; PMCID: PMC8217585.
5. Khasawneh L, Odat H, **Khassawneh BY**, Kheirallah KA, Khassawneh AH, Omari AA, Smadi M, Alzoubi F, Alomari S, Al-Mistarehi AH. Efficacy of pillar implants to reduce snoring and daytime sleepiness. *Future Sci OA*. 2021 Mar 29;7(6):FSO701. doi: 10.2144/fsoa-2021-0020. PMID: 34046203; PMCID: PMC8147739.
6. Yassin A, El-Salem K, **Khassawneh BY**, Al-Mistarehi AH, Jarrah M, Zein Alaabdin AM, Abumurad SK, Qasaimeh MG, Bashayreh SY, Kofahi RM, Alhayk KA, Alshorafat D, Al Qawasmeh M. Diagnostic value of electrocardiogram during routine electroencephalogram. *Seizure*. 2021 Jul;89:19-23. doi: 10.1016/j.seizure.2021.04.016. Epub 2021 Apr 25. PMID: 33971558.
7. Fraiwan M, Fraiwan L, **Khassawneh B**, Ibnian A. A dataset of lung sounds recorded from the chest wall using an electronic stethoscope. *Data Brief*. 2021 Feb 26;35:106913. doi: 10.1016/j.dib.2021.106913. PMID: 33732827; PMCID: PMC7937981.



8. Samrah SM, Al-Mistarehi AH, Kewan T, Al-Khatib SM, Ibrani AM, Samrah RS, **Khassawneh BY**. Viral Clearance Course of COVID-19 Outbreaks. *J Multidiscip Healthc*. 2021 Mar 4;14:555-565. doi: 10.2147/JMDH.S302891. PMID: 33707949; PMCID: PMC7941054.
9. Al-Kasasbeh A, Lurz P, Ibdah R, Rawashdeh SI, **Khassawneh B**. A Floating Right Atrial and Ventricular Thrombus in a Patient with Syncope. *J Cardiovasc Echogr*. 2020 Jul-Sep;30(3):165-166. doi: 10.4103/jcecho.jcecho\_15\_20. Epub 2020 Nov 9. PMID: 33447508; PMCID: PMC7799064.
10. Samrah SM, Al-Mistarehi AH, Aleshawi AJ, Khasawneh AG, Momany SM, Momany BS, Abu Za'nouneh FJ, Keelani T, Alshorman A, **Khassawneh BY**. Depression and Coping Among COVID-19-Infected Individuals After 10 Days of Mandatory in-Hospital Quarantine, Irbid, Jordan. *Psychol Res Behav Manag*. 2020 Oct 6;13:823-830. doi: 10.2147/PRBM.S267459. PMID: 33116970; PMCID: PMC7547909.
11. Yassin A, Al-Mistarehi AH, Beni Yonis O, Aleshawi AJ, Momany SM, **Khassawneh BY**. Prevalence of sleep disorders among medical students and their association with poor academic performance: A cross-sectional study. *Ann Med Surg (Lond)*. 2020 Sep 8;58:124-129. doi: 10.1016/j.amsu.2020.08.046. PMID: 32983431; PMCID: PMC7494598.
12. Samrah SM, W Al-Mistarehi AH, Ibrani AM, Raffee LA, Momany SM, Al-Ali M, Hayajneh WA, Yusef DH, Awad SM, **Khassawneh BY**. COVID-19 outbreak in Jordan: Epidemiological features, clinical characteristics, and laboratory findings. *Ann Med Surg*. 2020 Jul 18;57:103-108. doi: 10.1016/j.amsu.2020.07.020. eCollection 2020 Sep.
13. Samrah S, Shraideh H, Rawashdeh S, **Khassawneh B**. Tricuspid valve calcification in familial pulmonary alveolar microlithiasis: A case report. *Ann Med Surg (Lond)*. 2020 May 30;55:256-259. doi: 10.1016/j.amsu.2020.05.039. eCollection 2020 Jul.
14. Yusef D, Hayajneh W, Awad S, Momany S, **Khassawneh B**, Samrah S, Obeidat B, Raffee L, Al-Faouri I, Issa AB, Al Zamel H, Batatineh E, Qdaisat R Large Outbreak of Coronavirus Disease among Wedding Attendees, Jordan. *Emerg Infect Dis*. 2020 May 20;26(9). doi: 10.3201/eid2609.201469.
15. Samrah S, Aleshawi A, **Khassawneh B**, Lahren K. Bronchoscopy in the diagnosis of pulmonary blastomycosis. *Int J Infect Dis*. 2020 Jul;96:187-191. doi: 10.1016/j.ijid.2020.04.077. Epub 2020 May 1.
16. The EGFR rs2233947 polymorphism is associated with lung cancer risk: a study from Jordan. Bashir NA, Morad FR, Khabour OF, AlFaqih MA, **Khassawneh BY**. *Acta Biochim Pol*. 2019 Sep 13;66(3):315-319. doi: 10.18388/abp.2019\_2781.

17. Screening for obstructive sleep apnea among patients undergoing coronary catheterization in Jordan. Jarrah MI, Yassin AM, Ibdah RK, Ibnian AM, Eyadeh AA, **Khassawneh BY**. *Vasc Health Risk Manag*. 2019 May 1;15:109-113. doi: 10.2147/VHRM.S203307. eCollection 2019.
18. **Khassawneh B**, Tsai SC, Meltzer LJ. Polysomnographic characteristics of adolescents with asthma and low risk for sleep-disordered breathing. *Sleep Breath*. 2019 Jan 28. doi: 10.1007/s11325-018-01774-3. [Epub ahead of print] PubMed PMID: 30689097.
19. **Khassawneh BY**, Bathgate CJ, Tsai SC, Edinger JD. Neurocognitive Performance in Insomnia Disorder: The Impact of Hyperarousal and Short Sleep Duration. *J Sleep Res*. 2018. ACCEPTED
20. **Khassawneh BY**, Samrah SM, Jarrah MI, Ibdah RK, Ibnian AM, Almistarehi AW, Zghayer AA, Abuqudairi SI, Khader YS. Prevalence of Undiagnosed chronic obstructive pulmonary disease in male patients with coronary artery disease: a cross-sectional study in Jordan. *Int J Chron Obstruct Pulmon Dis*. 2018. ACCEPTED
21. **Khassawneh BY**, Alkhatib LL, Ibnian AM, Khader YS. The association of snoring and risk of obstructive sleep apnea with poor academic performance among university students. *Sleep Breath*. 2018 Apr 20. doi: 10.1007/s11325-018-1665-z. Epub ahead of print] PubMed PMID: 29679310.
22. **Khassawneh B**, Alhabashneh R, Ibrahim F. The association between bronchial asthma and periodontitis: a case-control study in Jordan. *J Asthma*. 2018 Apr 18:0. doi: 10.1080/02770903.2018.1466315. [Epub ahead of print] PubMed PMID: 29667525.
23. Bashir NA, Morad FR, Khabour OF, AlFaqih MA, **Khassawneh BY**. The EGFR rs2233947 polymorphism is associated with lung cancer risk: a study from Jordan. *Acta Biochim Pol*. 2019 Sep 13;66(3):315-319.
24. Jarrah MI, Yassin AM, Ibdah RK, Ibnian AM, Eyadeh AA, **Khassawneh BY**. Screening for obstructive sleep apnea among patients undergoing coronary catheterization in Jordan. *Vasc Health Risk Manag*. 2019 May 1;15:109-113. doi: 10.2147/VHRM.S203307. eCollection 2019. PubMed PMID: 31118652; PubMed Central PMCID: PMC6501777.
25. Bashir N, Ragab E, Khabour O, **Khassawneh B**, AlFaqih M, Momani J. The Association between Epidermal Growth Factor Receptor (EGFR) Gene Polymorphisms and Lung Cancer. *Biomolecules*. 2018. ACCEPTED

26. Tarraf H, Al-Jahdali H, Al Qaseer AH, Gjurovic A, Haouichat H, **Khassawneh B**, Mahboub B, Naghshin R, Montestruc F, Behbehani N. Asthma control in adults in the Middle East and North Africa: Results from the ESMAA study. *Respir Med.* 2018;138:64-73.
27. Ayesha Haj Yousef MH, **Khassawneh B**. Granulocyte-colony stimulating factor induces disseminated intravascular coagulation in dormant acute promyelocytic leukemia. *Leuk Lymphoma.* 2016;57:2222-2223.
28. Al Habashneh R, **Khassawneh B**, Khader YS, Abu-Jamous Y, Kowolik MJ. Association Between Obstructive Sleep Apnea and Periodontitis Among Male Adults Attending a Primary Healthcare Facility in Jordan. *Oral Health Prev Dent.* 2016;14:157-164
29. Al-Omari M, **Khassawneh B**, Khader Y, Dauod AS, Bergus G Prevalence of chronic obstructive pulmonary disease among adult male cigarettes smokers: a community based study in Jordan. *Int J Chron Obstruct Pulmon Dis.* 2014;9 Pages 753—758
30. Samrah S, Khatib I, Omari M, **Khassawneh B**, Momany S, Daoud A, Malkawi M, Khader Y. Vitamin D deficiency and level of asthma control in women from North of Jordan: a case-control study. *J Asthma.* 2014 May 20:1-7
31. Alawneh KM, **Khassawneh BY**, Ayesha MH, Smadi M. Rheumatoid arthritis in Jordan: a cross sectional study of disease severity and associated comorbidities. *Ther Clin Risk Manag.* 2014 May 19;10:363-6
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33. Alzoubi KH, **Khassawneh BY**, Obeidat B, Asfoor SS, Al-azzam SI. Awareness of patients who undergo cesarean section about venous thromboembolism prophylaxis. *J Vasc Nurs.* 2013 Mar;31(1):15-20
34. Ayesha MH, Jadalal K, Al Awadi E, Alawneh K, **Khassawneh B**. Association between vitamin B12 level and anti-parietal cells and anti-intrinsic factor antibodies among adult Jordanian patients with Helicobacter pylori infection. *Braz J Infect Dis.* 2013 Nov-Dec;17(6):629-32.
35. Ayesha MH, Alawneh K, **Khassawneh B**, Khader Y, Kasasbeh A. Adult primary and secondary immune thrombocytopenic purpura: a comparative analysis of characteristics and clinical course. *Clin Appl Thromb Hemost.* 2013 Jun;19(3):32730.

36. El-Salem K, **Khassawneh B**, Alrefai A, Dwairy AR, Rawashdeh S. Interval neurophysiological changes in non septic critically ill mechanically ventilated patients. *J Clin Neurophysiol*. 2012 Aug;29(4):349-52.
37. Ayesh M, **Khassawneh B**, Matalkah I, Alawneh K, Jaradat S. Cytogenetic and morphological analysis of de novo acute myeloid leukemia in adults: a single center study in Jordan. *Balkan J Med Genet*. 2012 Jun;15(1):5-10.
38. Khader YS, **Khasawneh B**, Daoud AK, Khatatbeh M. The association between metabolic syndrome and coronary artery disease in Jordan. *Chronic Illn*. 2009 Dec;5(4):235-42.
39. **Khassawneh B**, Ghazzawi M, Khader Y, Alomari M, Amarin Z, Shahrour B, Hammouda M. Symptoms and risk of obstructive sleep apnea in primary care patients in Jordan. *Sleep Breath*. 2009 Aug;13(3):227-32
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41. Khader Y, **Khassawneh B**, Obeidat B, Hammad M, El-Salem K, Bawadi H, Al-akour N. Periodontal status of patients with metabolic syndrome compared to those without metabolic syndrome. *J Periodontol*. 2008 Nov;79(11):2048-53
42. Khader YS1, **Khasawneh B**, Daoud AK, Khatatbeh M. The association between metabolic syndrome and coronary artery disease in Jordan. *Chronic Illn*. 2009 Dec;5(4):235-42.
43. **Khasswneh, Basheer**. "Periodic Limb Movement Disorder", *Sleep: A Comprehensive Handbook*. Ed. Teofilo Lee-Chiong, John Wiley & Sons, Inc., 2005

## Abstracts Presented at Meetings

1. **Basheer Khassawneh**, Ali Ibnian, Ahmed Yassin, Abdelhameed Almistarehi, Islam E'Leimat, Musaab Ali, Ahmad Shannaq, Khalid El-Salem. The outcome of patients with acute stroke requiring intensive care unit admission. *European Respiratory Journal* 2019 54: PA2283; DOI: 10.1183/13993003.congress-2019.PA2283
2. Abdel-Hameed Al-Mistarehi, Ahmed Yassin, Ömer Dulaimy, Rami Banyata, Anas Masalmeh, Tareq Arar, Omar Al Omari, Sufian Al-Tawill, Abdallah Qasaymeh, Othman Beni Yonis, Khalid El-Salem, **Basheer Khassawneh**. Water-pipe usage among Jordanian high school students: prevalence and basic features. *European Respiratory Journal* 54 (suppl 63) PA4466; DOI: 10.1183/13993003.congress-2019.PA4466 Published 21 November 2019
3. **Khassawneh B**, Bathgate CJ, Tsai S, Edinger J. Impact of short sleep duration and hyperarousal on cognitive performance among individuals with Insomnia. *Sleep*, Volume 41, Issue suppl\_1, 27 April 2018, Pages A164–A165,
4. **B. Khassawneh**, N. H. Behbehani, H. H. Al-Jahdali, A. Al Qaseer, A. Gjurovic, H. Haouichat, B. H. Mahboub, E. Malvoti, R. Naghshin, F. Montestruc, M. Tabbal, H. N. Tarraf. Predictive factors for asthma control in the Middle East and North Africa. *AJRCCM*. 2018;197:A1893
5. **B. Khassawneh**, N. H. Behbehani, H. H. Al-Jahdali, A. Al Qaseer, et. al. Quality of life in asthma patients from the Middle East and North Africa. *AJRCCM*. 2018;197:A1898
6. A. M. Ibnian, A. W. Al-Mistarehi, A. A. Zghayer, S. I. Abuqudairi, S. M. Samrah, M. I. Jarrah, R. K. Ibdah, **B. Y. Khassawneh**. Undiagnosed chronic obstructive pulmonary disease in patients undergoing cardiac catheterization. *AJRCCM*. 2018;197:A5061
7. A. M. Ibnian, L. Alkhatib, Y. Khader, **B. Khassawneh**. High risk of poor academic performance in university students with obstructive sleep apnea. *AJRCCM*. 2018;197:A1505
8. **Basheer Khassawneh**, Rola Al Habashneh, Yousef Khader, Yousef Abu-jamous. Obstructive sleep apnea and periodontitis among patients attending primary health care setting in Jordan. *European Respiratory Journal* 2012 40: P3861
9. **Khassawneh B**, Al-Omari M, Khader Y, Dauod AS, Zouhair Z, Bergus G. Prevalence of Chronic Obstructive Pulmonary Disease Among Adult Male Smokers in Jordan. *CHEST*. Volume 145, Issue 3, Supplement, Page 365A

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11. **Khassawneh B**, Khader Y, Ghazzawi M. Prevalence and significance of snoring in primary care. 18th European Respiratory Society Congress. 2008. Berlin, Germany
12. **Khassawneh B**, Alzoubi K, AL-Omari M. Poor knowledge of health care professionals in proper handling of inhaler devices. 18th European Respiratory Society Congress. 2008. Berlin, Germany
13. **Khassawneh B**, Yassin A, Allaham A, Khader Y, Al-Ali A. High Prevalence of Symptoms and Risks of Obstructive Sleep Apnea in Patients with Coronary Artery Disease. 2008 ATS Meeting, Toronto, Canada. May 2008.
14. **Khassawneh, B**, et al. The Outcome of Mechanical Ventilation after Bone Marrow Transplantation. Student Research Week. Univ. of Arkansas College of Medicine. March 1999.
15. **Khassawneh B**, White, P, Jr., et al. Pulmonary Complications after Tandem Peripheral Stem Cell Transplant for Multiple Myeloma. Abstract. Am. J. Respir. Crit. Care Med.,159:A392, 1999.
16. **Khassawneh B**, White, P, Jr., et al. Predictors of Outcome for Mechanically Ventilated Autologous Peripheral Blood Stem Cell Transplant Recipients. Abstract. Chest. Vol. 120, No. 4: 263S, 2001.