THE MEDICAL CENTER STRUCTURE

- The Nebraska Medical Center (Not-For Profit Organization)
  - Patient Care
  - Global Collaborative Partnerships
  - Healthcare Providers’ Training
- The University of Nebraska Medical Center (State Funded)
  - Education
  - Public & Allied Health
  - Research
- The University of Nebraska Medical Center Physicians
- Private Practice Physicians
  - Direct Patient Care
HOW DID WE GET STARTED?

Nizar Mamdani:
• Originally from Tanzania, East Africa
• Family involved in several business: JVC Electronics factory, Hino, Daihatsu, Suzuki Automobile assembly plants
• Went to Japan for education
• Businesses and properties nationalized
• Moved to the United States over 35 years ago
• Family started a Bank in Bahrain with investors from ME
• Investment Banking

How International Healthcare began?
• When beloved wife, Nancy, became ill with non-Hodgkin’s lymphoma
• Traveled to be treated by Dr Armitage, world renowned lymphoma expert
• Complications – over 1 yr in hospital
• Nancy passed away while in Omaha
• Perception in life changed
• Realized the need to start programs to help international patients thru training & education
• Nancy Mamdani Cancer Care Foundation was established in 2001

INTERNATIONAL HEALTHCARE SERVICES

International Healthcare Services at The Nebraska Medical Center provides the best available patient care and education to countries around the world.

Objectives:

1. Establish International Healthcare Partnerships
2. Help Provide Extraordinary Patient Care
   - Referrals, Second Opinions, Latest technology
3. Training/Education
ABOUT OMAHA

The “heartland” of the United States

• Omaha Area: 308 square km (119 miles)
• Located 760 km west of Chicago
• Nebraska Area: 692 km long and 338 km wide
• Home to Warren Buffett, one of the richest man in the world

The Climate

• Warm summers. Cold, dry winters. Periodic and rapid weather changes occur frequently
• Average temperatures: 32C (89.5F) to -13C (8F)
• Average annual precipitation: 12cm (30in) of rain; 13cm (32in) of snow

DEPARTMENT VISION

- To lead and cultivate the improvement of International Health Care thru Extraordinary Patient Care and Healthcare Professional Training
- To develop and cultivate promising Patient Treatment options in collaboration with global health care institutions
SPECIFIC GOALS

- To lead and cultivate the improvement of International Health Care thru Extraordinary Patient Care and Healthcare Professional Training through collaborations with global health care institutions

- Patient Care
- International Collaborations
- Tele-Health
- Healthcare Professional Training

1. Expert International Patient Care and Patient Referrals
2. Collaborative strategic international partnerships
3. Education and Training
4. Nursing education: Advanced degree & certification
5. Telemedicine: Tele-pathology, Tele-Genetics, Tele-Radiology
6. Expert medical consults – electronic and on-site
7. Provide expertise in establishment of Cancer and Transplant Centers
8. Co-branding programs

ABOUT THE NEBRASKA MEDICAL CENTER / UNMC

- Established in 1869 - 140 years of Patient Care & Educational Experience
- UNMC is located on 112 acres (over 45 hectares) 34 Major Medical, Educational and Administrative Buildings
- UNMC has 689 licensed beds, 24 Operating Rooms
- Hospital doctors operate more than 300 outpatient clinics in 100 communities in 5 US states
ABOUT THE NEBRASKA MEDICAL CENTER / UNMC

America’s leading center for:

• Cancer Care
• Transplantation
• Cardiovascular
• Neurosciences
• Pathology & Genetics
• Pain Management
• Diabètes center
• Bioterrorism preparedness and Bio-containment

SERIOUS MEDICINE. EXTRAORDINARY CARE.

Accreditation and Certification:

• Joint Commission
• NCCN designated Cancer Center
• Chest Pain Center
• Certified by Joint Commission for Stroke and Acute Myocardial Infarction and Heart Failure
• Radiation Oncology Services by American College of Radiology (ACR)
• Stroke Center
ABOUT THE NEBRASKA MEDICAL CENTER / UNMC

Nearly **11,000** Physicians, Nurses, Medical Aides, Researchers, Educators, Administrators and Support Staff work at the Med Center's mid-Omaha Academic and Research Campus, the Hospital and related facilities.

ABOUT THE NEBRASKA MEDICAL CENTER / UNMC

Distinctive Reputation

- *US News & World Report* rated TNMC as one of the “Best Hospitals” for Cancer Care & Neurology in the USA
- **Best Technology Recognition** 100% grade for Medical Technology (*US News & World Report*)
- **J.D. Power**: Cardiovascular hospital of distinction
- Named **Stroke Center** of Excellence from NeuStrategy
- Performing **Kidney Transplants** for **34 years**
- One of the busiest transplant centers in the USA
- Five Years in a row, **JD Power & Associates Award** for Excellence in Patient Care
ABOUT THE NEBRASKA MEDICAL CENTER / UNMC

- **U.S. News and World Report** surveyed the nation’s roughly 5,000 hospitals to come up with this year’s list of Best Hospitals in 5 Categories: for Cancer Care, Nephrology, Neurology & Neurosurgery, Orthopedics, Gastroenterology
- **High-Performing** in Cardiology & Heart Surgery, Diabetes & Endocrinology, Ear, Nose and Throat, Geriatrics, Gynecology and Urology
- **170 of the “Top Doctors”** in USA (“Best Doctor’s” Organization Annual Survey)
- **Magnet Award** Extraordinary Nursing Care Highest level of recognition by the American Nurses Credentialing Center

ABOUT THE NEBRASKA MEDICAL CENTER / UNMC

- Pioneer in Peripheral Stem Cell Transplant since 1983 (Dr. Anne Kessinger)
- Leaders in Living-related Kidney & Liver Transplantation
- First to create Combined Liver/Small Bowel Transplant Program
- Our team lead WHO’s New Lymphoma Classification Group
ABOUT THE NEBRASKA MEDICAL CENTER / UNMC

• Over 13,500 Transplants completed
• Over 4,500 Bone Marrow/Stem Cell Transplants
• One of the most active Pancreas and Kidney/Pancreas Transplantation programs in USA
• UNMC/Eppley Center is one of the 22 NCCN designated centers (National Comprehensive Cancer Network)
• One of only four USA HHS-recognized Intestinal Transplant Centers in the USA

ABOUT THE NEBRASKA MEDICAL CENTER / UNMC

• 14-story, 259,000 sq. ft. facility (24,062 sq. meters)
• World model for cancer care and transplantation
• State-of-the-art Cancer Center open 24 hours a day
• 88 patient care well appointed guest suites with separate sleeping and living areas, a kitchenette, private bathroom a home-like environment to help the patient and health-care providers to focus on treatment, care and recovery.
ABOUT THE UNIVERSITY OF NEBRASKA MEDICAL CENTER

- **College of Medicine** – offers 17 specialties and 13 subspecialties; Sorrell Center - one of the most advanced medical education buildings in the United States.

- **College of Nursing** – offers baccalaureate, masters in 9 specialties, and doctoral nursing program; offers a variety of degrees through distance technology.

- **College of Pharmacy** – doctorate of pharmacy degree

- **School of Allied Health Professions** – 10 programs.

- **College of Public Health** - offers masters and doctor programs

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518 Students from 48 countries at UNMC today

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<tr>
<th>Country</th>
<th>Students</th>
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<tr>
<td>China</td>
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<tr>
<td>India</td>
<td>18%</td>
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<td>Japan</td>
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<td>South Korea</td>
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[Pie chart showing distribution of students from different countries, with China leading at 32% and India at 18%]
SPECIALTY PROGRAM: Research Collaborations

Research Interests

• Biochemistry
• Bioinformatics
• Cancer Biology
• Cardiovascular Biology
• Cell Biology
• Developmental Biology
• Genetics, Gene Therapy
• Immunology
• Microbiology
• Molecular Biology
• Neuroscience
• Neurodegenerative Disorders
• Physiology
• Receptors & Signal Transduction
• Stem Cell Biology
• Teratology
• Toxicology
• Virology

SOME OF OUR NEWER FACILITIES
NEW CANCER CENTER

Planned new Cancer Center

- To be completed in 2015
- Research, Patient Care, Transplant Center
- Cost of $370 million

COLLABORATIVE PARTNERSHIPS with International Institutions
COLLABORATIVE PARTNERSHIPS

220+ Visited Institutions in 57 Countries

Afghanistan
Argentina
Armenia
Bahrain
Bangladesh
Brazil
Bulgaria
Canada
Chile
China
Egypt
Estonia
Guatemala
Honduras
Hong Kong
India
Iraq
Israel
Japan
Jordan
Kenya
Kuwait
Kosovo
Lithuania
Malaysia
Mexico
Nicaragua
Nigeria
Pakistan
Panama
Philippines
Poland
Portugal
Russia
Saudi Arabia
Singapore
South Africa
Spain
Sri Lanka
Sweden
Tanzania
Thailand
Ukraine
United Arab Emirates

INTERNATIONAL PATIENT CARE SERVICES

Customized International Patient Services

Courteous, professional, extraordinary care

Serious Medicine. Extraordinary Care.

Patient-Centered Care
INTERNATIONAL PATIENT CARE SERVICES

Assistance with all of patient’s and family’s needs. Treating patient with warmth and compassion.

- Review of medical records and consultations
- Doctor’s appointments and patient coordination
- Updating referring physicians
- Language translation and interpretation
- Accommodation and transportation
- Cost estimates, financing, and billing
- Special diets
- Concierge services
- Local and international air ambulance services
- Sensitivities to cultural and religious differences

INTERNATIONAL HEALTHCARE SERVICES

Helped 100’s of Patients from 36 Countries

- Afghanistan
- Australia
- Brazil
- China
- Bahrain
- Canada
- Egypt
- Gabon
- Greece
- Honduras
- India
- Iran
- Israel
- Italy
- Japan
- Kenya
- Korea
- Kuwait
- Lebanon
- Mexico
- Nigeria
- Norway
- Philippines
- Portugal
- Romania
- Saudi Arabia
- South Africa
- Spain
- Sweden
- Syria
- Tanzania
- Thailand
- Uganda
- United Kingdom
- USA
- Vietnam
Introduction of No-Cost Training Programs with Other Institutions

Featured customized partner training opportunities include:

- **Phase I**
  - Training at TNMC in Nebraska
  - (1 – 2 weeks)

- **Phase II**
  - Training at our Partners’ Facilities
  - (8-10 Days)

- **Phase III**
  - Year-Round Exchange Programs

- **Phase IV**
  - Extended Advanced Training
  - (Fee-based)
TRAINING: NO-COST PARTNER FELLOWSHIP

Featured Education & Training Programs:

- **Pathology:**
  - Cytotechnology
  - Medical technology
  - Hematology pathology
  - Surgical pathology
  - Molecular Genetics

- **Nursing:**
  - Oncology
  - Transplantation
  - Nursing evidence-based research
  - Management and nursing resource development
  - Cardiology and more

- **Pharmacy**
- **Allied Health**
- **Doctors-to-doctors**
  - Work alongside world renowned experts
  - For healthcare professionals from the developing countries

OBSERVATION TRAINING PROGRAMS

What Does Our No-Cost Program Include?*

- Customized Training Curriculum
- Completion Certificate
- Observational Instruction
- Accommodations
- Meals at Medical Center
- Airport Transfers, Tourism, etc.
- Internet Access and Business Center
- Access to Fitness Center
- Access to Medical Library

Training Financial Assistance:*
*Scholarships for above available except for Airfare to/from country’s hospital

*English fluency required
INTERNATIONAL HEALTHCARE SERVICES

No-Cost Training Participant Facts: Nurses, Doctors, Pathologists, Radiologists, Administration

- 124 professionals from China, Japan, Saudi Arabia, Bangladesh, India, Norway, Egypt, Panama, Poland, Estonia, Malaysia, Bahrain, Afghanistan, Argentina, Kenya, Brazil, Lithuania, Guatemala, Portugal, Spain
- Expecting teams from Guatemala, Panama, Estonia, Mexico, Chile, Spain, Portugal, Thailand, India, KSA & Egypt
- We’ve sent 28 teams to our partner institutions

TELEMEDICINE: Expert Medical Consult

Through our affiliation with UNMC:
- Tele-Health
- CME Curriculum
- Tele-Education
- Allied Health
- Nursing
- Specialized Programs to suit our partners’ needs
INTERNATIONAL HEALTHCARE SERVICES

Electronic 2nd Opinion: Doctor-to-Doctor

- Web-based software: secured user access
- State-of-the art web-based electronic consultation available for partner institutions
- Upload images and patient information. Automatically encrypted and zipped – sent via the internet
- Confidential medical history:
  - Electronic medical reports with treatment options, and/or diagnostics
  - Upload images such as MRI, X-ray, Ultrasound
  - Upload medical history
  - Automatically encrypted and zipped
- Results in written report:
  - Available 24 to 96 hours
  - Unless specified otherwise
- A patient bed conference available via video conferencing
- Treatment offers without leaving home for everyone
- Results sent back within 72-96 hours via e-mail, fax, or video conferencing

INTERNATIONAL HEALTHCARE SERVICES

TeleRadiology

- Digital radiology improves the quality and efficiency of practicing radiologists.
- Provide full service TeleRadiology services
INTERNATIONAL HEALTHCARE SERVICES

TelePathology

- Digital pathology improves the quality and efficiency of practicing pathologists.

- TNMC’s pathology workstation transforms the role of a pathologist into that of a diagnostician.

- The system integrates silos of information such as the Laboratory Information System (LIS), radiology images, gross images, online references, and differential patient information with digital images of pathology slides to provide pathologists all the necessary information, to make an educated diagnosis.

TNMC TELEPATHOLOGY SYSTEM

- Slides uploaded onto TNMC Bioimagine System
- H & E Sections made
- Tissue examined/sectioned by remote PA/Hub Pathologist
- Enter report into Hospital Medical Records
- TNMC Pathologist examines slides
- Slides read in Nebraska
- Report reviewed, printed signed, faxed or thru VPN or EMR

TNMC utilized system is a modern-day companion for the pathologists, helping them experience the benefits of digital pathology including telepathology, image analysis, rich media reports, virtual tumor boards, and remote second opinions.
FEATURED EDUCATION: *Distance Learning*

- Nursing programs to advanced degree thru UNMC College of Nursing and the Clarkson College
- Certification and online educational modules in:
  - Oncology
  - Critical Care
  - Transplant
  - Neurology
  - Neonatal
  - Healthcare Business Management
    - Electronic Medical Records
    - Finance
    - Delivery Systems (USA)
    - Strategic Planning Project Management
    - Operations Management

*English fluency required*

INTERNATIONAL HEALTHCARE SERVICES

*Collaboration with*

*Training and Education MOU signed in October 2010*

Solid Organ Transplantation, Surgical Oncology, Epilepsy, Radiology, Radiation Oncology, Pathology, Pharmacy, Social Services, Logistics, Management
INTERNATIONAL HEALTHCARE SERVICES

Nursing Leadership Conference, Mumbai, India
In collaboration with Hinduja Hospital in Mumbai, India

CO-BRANDING PROGRAMS

Purpose:
• To develop collaborative practice sites
• Create and establish long-term sustainable programs

To form true Joint-Ventures in the areas of:
• Stem Cell Transplantation
• Epilepsy Treatment
• Neurological Surgery Centers
• Minimally Invasive Surgery
INTERNATIONAL HEALTHCARE SERVICES

Dignitaries Visits

- We’ve visited and have had visits from:
  Presidents of Taiwan & Korea, Ex-Presidents of India and the Philippines, Ministers of Health for Kuwait, India, Bangladesh, Mexico, Guatemala, Malaysia, Singapore, KSA, Deputy Minister of Health of Japan, Egypt, various other Ministers, Secretaries, Ambassadors, and Governors in over two dozen countries

- NE Senators and Governor’s Support – traveled 5 times to Asia, South America and Russia

Thank you!