

Curriculum Vitae
Angélica M. Borrero Olán

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Education

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| 2015-2016 | PGY-1 Pharmacy Practice Residency
VA Caribbean Healthcare System, Puerto Rico |
| 2011-2015 | Doctor of Pharmacy
College of Pharmacy, Nova Southeastern University, Florida |
| 2006-2011 | Bachelor Degree in Biology
University of Puerto Rico (UPR), Puerto Rico
Magna Cum Laude |

Licensure and Certifications

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| 2017 | Board Certified Pharmacotherapy Specialist (BCPS) |
| 2016 | Academic Certificate at UPR-School of Pharmacy |
| 2016 | Florida Pharmacist License, PS 54647 |
| 2016 | Basic Life Support (BLS) for Health Care Providers |
| 2015 | Puerto Rico Pharmacist License, 6348 |

Awards

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| 2014-2015 | NSU Chancellor's Scholarship |
| 2014 | 1 st Place -2014 NSU-College of Pharmacy Poster Seminar |
| 2014 | Best Poster-2014 NSU-College of Pharmacy Poster Seminar |
| 2013-2014 | NSU Chancellor's Scholarship |

Educational Experience

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| 2013 | Travel Study Program- Slovakia 2013
Comenius University, Bratislava, Slovakia
Professor: Ana Castejon, PhD |
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Professional Work Experience

2019-Present

Medical Scientific Liaison, Oncology

Janssen Pharmaceuticals Company, Medical Affairs

Supervisor: Patzy Anzalota, PharmD

Responsibilities:

- Provided appropriate product and disease state education to key opinion leaders, community physicians, investigators and other healthcare professionals related to the current and developing Janssen Solid Tumor Oncology portfolio in compliance with all policies and procedures
- Provided fair balanced, objective, scientific information to healthcare professionals and to internal business partners as required by scientific and business needs
- Maintained a territory strategy plan and shared insights/strategic planning details to include a description of Health Care Providers (HCP), academic and community practices and healthcare systems, and described regional influence patterns, referral data, research activity, and description of field collaborative partnership
- Presented data and information in a manner appropriate to the audience and request
- Executed plans regarding reactive and proactive outreaches as approved via the legal/HCC exceptions process
- Attended and supported local/regional/national meetings and conferences

2018-2019

Clinical Manager

Hospital Universitario de Adultos (UDH), San Juan, PR

Supervisors: Gilda Abad, RPh, Ingrid Medina, BS, PharmD, MHSA

Responsibilities:

- Worked as the pharmacist in charged of the Hematology/Oncology Ambulatory Clinic
- In charged of verify chemotherapy orders daily
- In charged of verify chemotherapy pharmacy inventory weekly
- In charged of verify compounded chemotherapy before being deliver to the Clinic
- Recommended chemotherapy dose adjustments, dilutions and time of infusions to physicians according to chemotherapy drug regimens
- Evaluated non-formulary drug pharmacy consult
- Documented clinical pharmacy interventions in the electronic health record
- Appointed as a member of the Pharmacy and Therapeutics Committee
- Answered clinical pharmacy consult upon request to colleagues, physicians and other healthcare professionals

2016-2018

Clinical Pharmacist/Pharmacy Manager

UPR Comprehensive Cancer Center-Hospital, San Juan, PR

Supervisors: Elsa Pedro, PharmD, BCPS/María Torres, MHSA

Responsibilities:

- Worked in the development of the Pharmacy Policies and Procedures Manual
- Worked in the development of the Hospital Drug Formulary
- Assisted in the development of Antimicrobial Stewardship Program Proposal
- Appointed as a member of the hospital Institutional Review Board (IRB)
- Appointed as a member of the Pharmacy and Therapeutics Committee, Quality Improvement Committee, Infusion Committee, Antimicrobial Stewardship, Intensive Care Unit Committee and Infection Control Committee
- Attended hospital administration meetings
- In charged to offer clinical educations about oncology medications and regimens to the hospital healthcare professionals (nurses, nutritionists, physicians, etc.)
- Prepared justification letters for the acquisition of the pharmacy equipment (biological safety cabinets, refrigerators, books, materials)
- Worked with the responsibilities to achieve the Hospital Pharmacy Licenses (Institutional Pharmacy License, Controlled Substance License and DEA License)
- Worked in charge of the Pharmacy Department since October 2017
- Worked in the development and construction of the positive pressure cleanroom and negative pressure cleanroom to achieve both cleanrooms certification

2016

Clinical Pharmacist

Molina Healthcare PR, Inc., San Juan, PR

Supervisor: Maria J. Reyes RPh, PharmD, MHP

Responsibilities:

- In charged of pharmacy J-codes prior authorizations
- Served as a drug information resource to pharmacy staff, Medical Affairs staff, and providers
- Performed prior authorization reviews of high-cost medications and deferred authorization requests (including oncology and rheumatoid medications)
- Reviewed members' medication profiles and applies evidence based medicine and national guidelines when creating recommendations to health care providers, in efforts to optimize the members' medication regimen
- Worked with Health Care Services (e.g., with data manager, case managers, etc.) on member centered interdisciplinary teams

- Provided medication therapy management including examination of the member's medical record, performing a comprehensive medication review, communicating with the member and providers, as needed
- Provided clinical teaching about oncology guidelines to pharmacy personnel

2013-2014

Pharmacy Intern

CVS Pharmacy, Ponce, PR

Supervisor: Deborah Leon, PharmD

Responsibilities:

- Counseled patients about correct use of medications
- Measured patient's blood pressure
- Called patients to assess adherence
- Prepared and compounded medications and reconstituted antibiotics
- Worked at the pick up, drop-off and drive-thru station
- Completed data entry of prescriptions
- Filled prescriptions

Teaching Experience

December 2017

Rheumatoid Arthritis Lecture (Pharmacotherapy III Course)

- Objectives: list the signs and symptoms of rheumatoid arthritis (RA), identify common laboratory findings associated with a diagnosis of RA, design a therapeutic plan for a given patient while considering stage disease, develop a monitoring plan to evaluate for drug toxicity
- Presented at NSU, College of Pharmacy, Puerto Rico Campus
- Audience: Third year students of pharmacy school

December 2017

Headache Disorders Lecture (Pharmacotherapy III Course)

- Objectives: differentiate among types of headache disorders based on signs and symptoms, identify underlying causes and precipitating factors of headache disorders, identify and differentiate between classes of drugs used, recommend appropriate pharmacologic measures, discuss adverse effects and provide appropriate counseling information
- Presented at NSU, College of Pharmacy, Puerto Rico Campus
- Audience: Third year students of pharmacy school

January 2016

Urinary Incontinence

- Objectives: describe different types of urinary incontinence, identify risk factors, discuss non pharmacologic alternatives
- Presented at UPR School of Pharmacy, San Juan, PR
- Audience: Third year students of pharmacy school

- January 2016 **Drug-Induced Liver Disease (DILD)**
- Objectives: describe metabolism of drugs throughout the liver, contrast different patterns of DILD, identify signs or symptoms, differentiate between 2 mechanisms of DILD, recommend correct management of DILD
 - Presented at UPR School of Pharmacy, San Juan, PR
 - Audience: Third year students of pharmacy school
- January 2016 **Hepatic Encephalopathy**
- Objectives: define term hepatic encephalopathy, discuss pathogenesis, identify clinical presentation, describe classification and discuss diagnosis and treatment
 - Presented at UPR School of Pharmacy, San Juan, PR
 - Audience: Third year students of pharmacy school

Residency Pharmacy Practice Experiences

- May 2016 **Patient Aligned Care Team (PACT)**
 VA Caribbean Healthcare System, San Juan, PR
 Preceptor: Glendaly De Jesus, PharmD
 Responsibilities:
- Did medication reconciliation
 - Did smoking cessation educations
 - Recommended therapy regimen for smoking cessation
 - Managed patients' diabetes therapy regimen
 - Educated patients about diabetes
- April 2016 **Pharmacy Service**
 VA Caribbean Healthcare System, San Juan, PR
 Preceptor: Dayna Quinones, PharmD
 Responsibilities:
- Order entry
 - Verified orders
 - Verified IV medications
 - Verified chemotherapy medications
 - Worked at inpatient and outpatient controlled medications vault
- March 2016 **Medicine Intensive Care Unit (MICU)**
 VA Caribbean Healthcare System, San Juan, PR
 Preceptor: Mónica Sanabria-Seda, PharmD, BCPS
 Responsibilities:
- Attended MICU morning rounds
 - Answered non-formulary consults
 - Did pharmacotherapy evaluation notes

- Monitored and completed anticoagulation follow-up notes
- Monitored and completed antibiotics follow-up notes

February 2016

Blind Rehabilitation

VA Caribbean Healthcare System, San Juan, PR

Preceptor: Norma Ayala, PharmD

Responsibilities:

- Did pharmacotherapy evaluations
- Did medication reconciliation
- Did patient educations about discharge medications, about the proper use of a pill box, how to use auto-drop and script-talk (tools for blind patients)

January 2016

Academia

UPR School of Pharmacy, San Juan, PR

Preceptor: Frances Rodriguez, PharmD, BCPS / Elsa Pedro, PharmD

Responsibilities:

- Gave lectures of Patient Care Management Course, lecture of hepatic encephalopathy and drug-induced liver diseases
- Developed quizzes and exam questions
- Gave laboratory section lectures about urinary incontinence

December 2015

Acute Care-Internal Medicine

VA Caribbean Healthcare System, San Juan PR

Preceptor: Norma Ayala, PharmD

Responsibilities:

- Attended internal medicine daily rounds
- Monitored and completed vancomycin levels follow up notes
- Monitored and completed anticoagulation follow up notes
- Did patient educations to discharge patients about discharge medications and oral anticoagulants
- Completed pharmacotherapy evaluation notes
- Completed non-formulary consult notes

October 2015

Practice Management

VA Caribbean Healthcare System, San Juan, PR

Preceptor: Carlos Méndez, PharmD

Responsibilities:

- Did Medication Use Evaluation about Lovaza
- Did drug class review about the NSAIDs
- Attended P&T, Accreditation Committee, Patient Safety meetings
- Gave a lecture at UPR School of Pharmacy about Adverse Drug Events for second year pharmacy students

- September 2015 **Pain Management Clinic**
 VA Caribbean Healthcare System, San Juan, PR
 Preceptor: Janys Sanchez, PharmD
 Responsibilities:
- Evaluated patients for initial assessment at the clinic
 - Counseled patients about the use of pain medications
 - Did pain management patients' progress notes
 - Attended interdisciplinary meetings
 - Attended hospice interdisciplinary rounds
 - Did a presentation about the Impact of medications in physical therapy to the Physical Medicine and Rehabilitation Department
- August 2015 **Anticoagulation Clinic**
 VA Caribbean Healthcare System, San Juan, PR
 Preceptor: Doris Bonano, PharmD
 Responsibilities:
- Did initial evaluation of patients starting on warfarin
 - Counseled patients about the use of anticoagulants
 - Answered consults about bridging therapy
 - Did evaluation of patients on maintenance therapy
 - Analyzed patients INR and recommended dose adjustments based on lab results and diet

Advanced Pharmacy Practice Experiences

- March 2015 **Advanced Community**
 Cleveland Clinic, Weston, FL
 Preceptor: Charles Gowans, PharmD
 Responsibilities:
- Prescriptions transfer
 - Discharge medications counseling
- February 2015 **Internal Medicine**
 Cleveland Clinic, Weston, FL
 Preceptor: Martha Espinoza, PharmD
 Responsibilities:
- Attended internal medicine daily rounds
 - Counseled patients about discharge medications indication and side effects
 - Did clinical teaching to patients about warfarin, CHF, MI, and stroke
- January 2015 **Acute Patient Care: Infectious Disease**
 Cleveland Clinic, Weston, FL
 Preceptor: Leira Ramirez, PharmD
 Responsibilities:
- Attended daily infectious disease rounds

- Monitor daily target antibiotics list
- Counseled patients about discharge medications indication and side effects
- Did clinical teaching about CHF, pneumonia, anticoagulants

December 2014

Ambulatory Care

Cleveland Clinic, Weston, FL

Preceptor: Diana Pinto, PharmD

Responsibilities:

- Attended daily transplant rounds
- Discussed kidney and liver transplant protocol
- Counseled patients about discharge medications indication and side effects
- Discussed tolvaptan clinical trials for cirrhotic patients
- Discussed article about multidrug resistant infections in transplant patients
- Did clinical teaching to patients about warfarin, CHF, insulin, pneumonia

November 2014

Acute Patient Care: General Clinical

Plantation General Hospital, Plantation, FL

Preceptor: Scott Brown, PharmD

Responsibilities:

- Attended daily rounds (NICU and ICU)
- Monitored patients on antibiotics and anticoagulants daily
- Counseled patients about medication indications and potential side effects
- Assisted pharmacist with medications floor inspections

October 2014

Academic

NSU College of Pharmacy, Fort Lauderdale, FL

Preceptor: Ana Castejon, PhD

Responsibilities:

- Attended pharmacy student's research presentation
- Collaborated with the autism research
- Prepared presentation about prediabetes for a continuing education to pharmacists

September 2014

Inpatient Anticoagulation

Memorial Hospital Miramar, Miramar, FL

Preceptor: Laura Pequeno, PharmD

Responsibilities:

- Rounded with nurses and pharmacists
- Performed dose adjustments and patient teaching of anticoagulants
- Recommended appropriate drug therapy based on laboratory values

- Counseled patients about the appropriate use of medications and potential adverse drug reactions
- Prepared medication reconciliation reports

August 2014

Human Immunodeficiency Virus

Walgreens, Miami, FL

Preceptor: Sami Shafiq, PharmD

Responsibilities:

- Visited HIV-infected patients with the preceptor
- Organized patient pill boxes for improved adherence
- Counseled patients about correct dose, frequency and administration of medications and about the importance of adherence with treatment
- Evaluated therapy for patients and recommended drug therapy changes when necessary

July 2014

Hematology/Oncology

Memorial Regional Hospital, Hollywood, FL

Preceptor: Irene Borrero, PharmD

Responsibilities:

- Rounded with nurses and pharmacists
- Attended Tumor Boards
- Provided patient counseling on medications via phone

Introductory Pharmacy Practice Experiences

July 2013

Hospital Oncológico

San Juan, PR

Preceptor: Carmen Resto, PharmD

- Reviewed patient health records for potential drug-drug interactions or abnormal lab values
- Attended Tumor Board
- Calculated correct chemotherapy dose
- Participated in hospital daily rounds
- Completed patient data entry
- Filled prescriptions
- Counseled patients
- Adjusted medication doses based on laboratory results
- Prepared crash cart

July 2012

Walgreens

Yauco, PR

Preceptor: Marangely Mercado, PharmD

- Counseled patients about medications
- Conducted patient interviews to assess medication adherence

- Entered patient data into computer system
- Filled and dispensed prescriptions
- Measured blood pressure for patients

Research Experience

- 2013 Development of extemporaneous preparations of amlodipine and furosemide combinations.
Nova Southeastern University; Ponce, PR
Principal Investigator: Enrique Nieves, PhD
- Role: Evaluated databases to determine if a combination of these two drugs was available, calculated quantity of each active ingredient and excipient needed, established the proper protocol of experiment, compounded amlodipine and furosemide suspension and tablets with different strengths, and developed the experiment and analyzed the results.

Publications

Borrero A, Hernández J, Vélez S. Criterios de Beers: Últimas recomendaciones para evitar el uso de medicamentos potencialmente inapropiados en pacientes de edad avanzada. Published at “Revista Farmacéutica”. San Juan, PR. April 2016

Professional Meeting Presentations and Posters

- Borrero A**, Mendez C. Development of a quality metrics dashboard for clinical pharmacists’ intervention in ambulatory care. Presented at the American Society of Health-System Pharmacists Midyear Clinical Meeting, New Orleans, LA, December 2015.
- Borrero A**, Cajigas Z, Cordero L, Ramos G, Rivera S. *Moringa oleifera* in HIV/AIDS patients. Presented at 2014 NSU-College of Pharmacy Poster Seminar, Ponce, PR, April 2014. (Poster and platform presentation)
- Borrero A**, Cajigas Z, Cordero L, Ramos G, Rivera S. *Moringa oleifera* in HIV/AIDS patients. Presented at American College of Clinical Pharmacy Annual Conference, Austin, TX, October 2014. Presented at the American Society of Health-System Pharmacists Midyear Clinical Meeting, Anaheim, CA, December 2014.
- Borrero A**, Del Valle R. Development of extemporaneous preparations of amlodipine and furosemide combinations. Presented at NSU HPD Research Day 2014, Ponce, PR, February 2014. (Platform presentation)

Practice Experience Presentations

April 2016	<p>2015 Updates of Beers Criteria</p> <ul style="list-style-type: none">• Objectives: define AGS Beers Criteria, recognize and identify intent, objective and goal of 2015 AGS Beers Criteria, evaluate changes and updates from last publication, and describe pharmacists' role in the application of AGS Beers criteria• Presented at VACHS, San Juan, PR• Audience: Pharmacists and pharmacy technicians
March 2016	<p>Argatroban</p> <ul style="list-style-type: none">• Objectives: define mechanism of action and indications of argatroban, discuss proper dosing and dose adjustment of argatroban according to aPTT and discuss monitoring parameters.• Presented at VACHS, San Juan, PR• Audience: MICU Nurses
March 2016	<p>Alteplase</p> <ul style="list-style-type: none">• Objectives: define indications of alteplase, discuss doses and contraindications of alteplase and describe how to prepare alteplase in the IV room• Presented at VACHS, San Juan, PR• Audience: Pharmacists
November 2015	<p>Shorter or longer anticoagulation to prevent recurrent venous thromboembolism</p> <ul style="list-style-type: none">• Objective: Define venous thromboembolism, describe conditions of VTE: deep vein thrombosis (DVT) and pulmonary embolism (PE), discuss guidelines treatment recommendations, provide future recommendations for the management of recurrent VTE, discuss if short or long anticoagulation is recommended to prevent recurrent VTE• Presented at VA Caribbean Healthcare System, San Juan, PR• Audience: Pharmacists, Pharmacy Residents and Student Pharmacists
October 2015	<p>Prevention, Detection and Documentation of Adverse Drug Reactions and Medication Errors</p> <ul style="list-style-type: none">• Objective: Define concepts of medication errors and adverse drug events, describe the importance of documenting adverse drug reactions, recognize agencies related to report adverse drug reactions and medication errors and understand the role of the pharmacist towards medication safety• Presented at UPR School of Pharmacy, San Juan, PR• Audience: Second year students of pharmacy school

October 2015	<p>Impact of medications in physical therapy</p> <ul style="list-style-type: none"> • Objective: Discuss the importance of knowing patients medications and how they affect patient's physiological response to exercise • Presented at VA Caribbean Healthcare System (VACHS), San Juan, PR • Audience: VACHS physical therapists
November 2014	<p>Cryptosporidium Case Presentation</p> <ul style="list-style-type: none"> • Objective: Discuss disease state of cryptosporidium, identify proper treatment to manage the disease, assess a patient case of cryptosporidium • Presented at Plantation General Hospital, Plantation, FL • Audience: Pharmacists, pharmacy students and pharmacy technicians
November 2014	<p>Influenza Virus</p> <ul style="list-style-type: none"> • Objective: Define viral pathogenesis, identify pathogenesis of influenza virus, discuss proper treatment for influenza virus • Presented at Plantation General Hospital, Plantation, FL • Audience: Pharmacists, pharmacy students and pharmacy technicians
September 2014	<p>Role of antiplatelets in Acute Coronary Syndrome</p> <ul style="list-style-type: none"> • Objective: Define the pathophysiology of acute coronary syndrome (ACS), risk factors associated with ACS. Discuss the role of antiplatelets in ACS. • Presented at Memorial Hospital Miramar, Miramar, FL • Audience: Pharmacists and Student Pharmacists
August 2014	<p>Mycobacterium Avium Complex and Mycobacterium Tuberculosis Patient Case Presentation</p> <ul style="list-style-type: none"> • Objective: Define MAC and TB disease states. Discuss a patient case and recommend treatment for the patient based on the disease state. • Presented at Walgreens, Miami, FL • Audience: Pharmacists
August 2014	<p>Pneumocystis carinii jiroveci (PCP) and Toxoplasma gondii (TE) Patient Case Presentation</p> <ul style="list-style-type: none"> • Objective: Define PCP and TE disease states. Discuss a patient case and recommend treatment for the patient based on the disease state. • Presented at Walgreens, Miami, FL • Audience: Pharmacist

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| July 2014 | <p>Breast Cancer Case Presentation</p> <ul style="list-style-type: none"> • Objective: Define and discuss epidemiology and treatment of breast cancer. Discuss a patient case and proper chemotherapy regimen for the patient. • Presented at Memorial Regional Hospital, Hollywood, FL • Audience: Pharmacists |
| July 2014 | <p>Hypercalcemia of Malignancy</p> <ul style="list-style-type: none"> • Objective: Explain and define the pathophysiology of hypercalcemia of malignancy. Discuss proper treatment for hypercalcemia of malignancy. • Presented at Memorial Regional Hospital, Hollywood, FL • Audience: Pharmacists and nurses |
| July 2013 | <p>Cisplatin and Carboplatin</p> <ul style="list-style-type: none"> • Objective: Explain and discuss important information regarding the drugs, (i.e., proper administration, handling, adverse effects, indications, contraindications and counseling points) • Presented at Hospital Oncológico, San Juan, PR • Audience: pharmacists, pharmacy technicians, nurses, medical residents |
| July 2013 | <p>Pain Management</p> <ul style="list-style-type: none"> • Objective: Explain to patients regarding proper techniques and instructions of managing acute pain (e.g., medications used for pain, contraindications, indications, adverse effects and important counseling tips) • Presented at Hospital Oncológico Dr. Isaac González, San Juan, PR • Audience: oncology patients |

Professional Organizations and Committees

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| 2015-2016 | <p>VACHS Pharmacy Education Committee</p> <ul style="list-style-type: none"> • Attended monthly meetings • Served as a recorder (August-December 2015) • Served as chairperson (January-June 2016) |
| 2013-2015 | <p>Student Engagement Task Force, NSU College of Pharmacy, Student Representative-Puerto Rico Campus</p> <ul style="list-style-type: none"> • Attended committee meetings • Discussed changes and updates to attendance policy in student handbook • Discussed methods to increase student motivation and learning • Discussed ways to effectively use in-class time |

2011-2015	Student College of Clinical Pharmacy/American College of Clinical Pharmacy, Student Liaison NSU College of Pharmacy, Puerto Rico <ul style="list-style-type: none"> • Organized health fair for geriatric patients • Arranged local student chapter meetings • Developed and assisted in fundraising events • Offered exam reviews • Organized and assisted with conference about the pharmacy profession to high school students
2013-Present	American Society of Health-System Pharmacists <ul style="list-style-type: none"> • Member
2011-Present	American Pharmacist Association—Academy of Student Pharmacists <ul style="list-style-type: none"> • Member

Community Service and Activities

April 2014	Geriatrics Health Fair, Ponce, PR <ul style="list-style-type: none"> • Medication reconciliation, blood pressure measurement, BMD measurement and medication counseling
December 2013	Operation Christmas Child, Ponce, PR <ul style="list-style-type: none"> • Collected boxes with clothes, books and toys for children in need
November 2013	SCCP My HIV Life Experience <ul style="list-style-type: none"> • HIV-infected patients talked about their experiences
September 2013	Go-Gogo Foundation Walk (Pediatric Cancer Awareness), Ponce, PR <ul style="list-style-type: none"> • Organized logistic for NSU Oasis at the walk
November 2012	NSU College of Pharmacy Open House, Ponce, PR <ul style="list-style-type: none"> • Presented to prospective pharmacy students about the curriculum and experiences at NSU's College of Pharmacy
February 2012	Community Pharmacy Health Fair, Lajas, PR <ul style="list-style-type: none"> • Blood pressure measurement, patient counseling and BMD measurement
November 2011	CVS Health Fair, Ponce, PR <ul style="list-style-type: none"> • Patient counseling and blood pressure measurement
October 2011	Baby Boomer Event, San Juan, PR <ul style="list-style-type: none"> • Blood pressure measurement, BMD measurement, BMI measurement and patient counseling
October 2011	Susan G Komen Cancer Walk, Ponce, PR