

## AMERICAN DIABETES ASSOCIATION: RESEARCH



LENA, A SCIENTIST, HAS A BRILLIANT IDEA TO UNDERSTAND AND TREAT DIABETES. LENA RECEIVES A GRANT FROM THE AMERICAN DIABETES ASSOCIATION TO FUND HER RESEARCH. MEMBERS OF LENA'S RESEARCH LAB IDENTIFY A MYSTERIOUS GENE INVOLVED IN DIABETES. LENA PRESENTS THE FINDINGS AT THE A-D-A SCIENTIFIC SESSIONS, THE WORLD'S LARGEST DIABETES CONFERENCE. JOHN HEARS LENA'S LECTURE, AND DECIDES TO ALTER THE MYSTERIOUS GENE IN MICE, FINDING THAT IT PROTECTS ANIMALS FROM DEVELOPING DIABETES. JOHN AND LENA WORK TOGETHER TO PUBLISH THE GROUNDBREAKING RESULTS IN ONE OF A-D-A'S SCHOLARLY JOURNALS, AND SCIENTISTS AROUND THE WORLD ARE INSPIRED. PETER READS LENA AND JOHN'S STUDY, AND BEGINS SEARCHING FOR A CHEMICAL THAT CAN CHANGE THE WAY THE DIABETES GENE WORKS. PETER TESTS MILLIONS OF CHEMICALS, AND FINDS SEVERAL THAT MAY WORK. THESE CHEMICALS ARE NOW CONSIDERED CANDIDATES FOR A NEW MEDICATION. JULIE, A SCIENTIST AT A PHARMACEUTICAL COMPANY, LEARNS ABOUT THE INNOVATIVE CHEMICALS AND DECIDES TO TEST THEM IN ANIMALS. ONE OF THE INNOVATIVE CHEMICALS IS FOUND TO BE SAFE AND EFFECTIVE IN ANIMALS. THEN, IT IS STUDIED IN HUNDREDS OF PEOPLE WITH DIABETES IN A LARGE CLINICAL DEVELOPMENT PROGRAM. THE F-D-A APPROVES THE CHEMICAL TO BECOME A NEW MEDICATION. THROUGH ALL OF THESE RESEARCH EFFORTS, A LIFE-SAVING TREATMENT FOR DIABETES IS AVAILABLE. A-D-A'S CLINICAL PRACTICE GUIDELINES ARE UPDATED TO ADVISE DOCTORS AND NURSES ON HOW TO USE THE NEW MEDICATION. DOCTORS AND NURSES PROVIDE THE NEW TREATMENT TO PATIENTS. THE AMERICAN DIABETES ASSOCIATION FACILITATES EVERY STEP OF THIS PROCESS TO ACCELERATE THE DISCOVERY AND DEVELOPMENT OF SOLUTIONS FOR PEOPLE WITH DIABETES, LEADING TO LONGER, HEALTHIER LIVES.