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Wexler's Search for the Huntington's Gene

The year was 1979, and Congress had just issued you the funding to study Huntington's disease- a disorder afflicting more than 50,000 Americans. Very little was known about the inheritance of Huntington's, but Dr. Nancy Wexler (whose mother died of it) knew about the incredibly high rate of the disease around a place called Lake Maracaibo, Venezuela. Here, you'll be a part of a team sent to Lake Maracaibo to study a large family (of more than 5,000 members), and report your findings!

The family spans five generations. It is your job (as it was hers) to pedigree the family and see what's going on here!

Below is a fax that has arrived from Lake Maracaibo...

To: Dr. Gray and colleagues, Pella University, Pella, Iowa from: Huntington's research team, Lake Maracaibo

Dear scientists,

What follows are the results of our interviews with 38 members of the Gonzales family. See what you can make of it (draw your pedigree chart on the back).

Sincerely,

The team

Generation V:

Luis, son of Zelda and Ramon. AFFLICTED

Generation IV:

Ramon, son of Ricardo and Lydia. AFFLICTED Zelda, married to Ramon. HEALTHY Felipe, brother of Ramon. AFFLICTED Juan, son of Miguel and Letty. AFFLICTED Cira, daughter of Miguel and Letty. HEALTHY Roberto, son of Miguel and Letty. HEALTHY Nora, daughter of Jesus and Margarita, AFFLICTED Alejandro, son of Pedro and Beatriz. AFFLICTED Delia, daughter of Dano and Andrea. AFFLICTED Tio, son of Dano and Andrea. AFFLICTED Maria, daughter of David and Guadelupe. AFFLICTED Nariza, daughter of David and Guadelupe. AFFLICTED

Generation III:

Lydia, daughter of Carlos and Imelda. AFFLICTED Ricardo, married to Lydia. HEALTHY Helga, daughter of Carlos and Imelda. HEALTHY Letty, daughter of Carlos and Imelda. AFFLICTED Miguel, married to Letty. HEALTHY Margarita, daughter of Carlos and Imelda. AFFLICTED Jesus, married to Margarita. HEALTHY Beatriz, daughter of Carlos and Imelda. AFFLICTED Pedro, married to Beatriz. HEALTHY Juanita, daughter Javier and Bonita. AFFLICTED Benito, son of Javier and Bonita. HEALTHY Dano, son of Chito and Chelita. AFFLICTED Andrea, wife of Dano. HEALTHY David, son of Chito and Chelita. AFFLICTED Guadelupe, wife of David. HEALTHY Horatio, son of Chito and Chelita. HEALTHY Lucio, son of Chito and Chelita. HEALTHY

Generation II:

Imelda, daugher of Rigo and Esmerelda. AFFLICTED Carlos, married to Imelda. HEALTHY Javier, son of Rigo and Esmerelda. AFFLICTED Bonita, married to Javier. HEALTHY Chito, son of Rigo and Esmerelda. AFFLICTED Chelita, married to Chito. HEALTHY

Generation I:

Rigo. AFFLICTED Esmerelda. HEALTHY **Due Date:**