

Mini Project: Familical

[We got ~~y~~ou your Family Covered. History you can Believe In because we Know Your Roots]

A database for storing your family medical history at one place.

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Need for this Project

Why Is Health The Most Important Part Of Your Life?



Why is it important to know my family history?

- Family members share more than similar looks.
- But it's not so easy to see that
- Your medical history includes all the traits your family shares that you can't see.

These traits may increase your risk for many hereditary conditions and diseases:

Including:

- Cancer
- diabetes
- asthma
- heart disease and blood clots
- Alzheimer's disease and dementia
- arthritis
- depression
- high blood pressure and high cholesterol

Whose history do I need?

Family members to include	Family members you don't need to include
parents	stepparents and stepsiblings
siblings	adoptive parents and adoptive siblings
your children	spouses, unless they're also related by blood
aunts and uncles	aunts and uncles who married into your family (meaning they aren't siblings of one of your parents)
nieces and nephews	spouses of your siblings, unless they're related by blood
grandparents and great-grandparents	

Study of Existing System/Application

- The U.S. Surgeon General has created a computerized tool called **My Family Health Portrait** tool to help you create a family medical history.

This tool is just used to gather our family medical history .They Don't used any databases to store them because is not their scope. But one plus point using that medical history they are predicting the risk factor.

Public Health Genomics Knowledge Base (v6.4)

PHGKB

About

MyPHGKB

Specialized PHGKB

Cancer PHGKB

Diabetes PHGKB

Infectious Diseases PHGKB

HLBS-PopOmics

Rare Diseases PHGKB

Genomics (A-Z)

Office of Genomics and Precision Public Health

My Family Health Portrait

State Public Health Genomics Programs Map

Genomics & Health Impact Weekly Scan (Current Edition)

Advanced Molecular Detection Weekly Clips (Current Edition)

COVID-19 Genomics Precision Health Update

[Recommend](#) [Tweet](#) [Share](#)

My Family Health Portrait

A tool from the Surgeon General

[Get Help](#)

Using My Family Health Portrait you can:

- Enter your family health history.
- Learn about your risk for conditions that can run in families.
- Print your family health history to share with family or your health care provider
- Save your family health history so you can update it over time.

Talking with your health care provider about your family health history can help you stay healthy!

[Learn more about My Family Health Portrait](#)

Note: You must use the "Use a Saved History" button to open the family history file you created.

[Create a Family Health History](#) [Use a Saved History](#)



Activate
Go to Settings

Create a Family Health History.

Enter Personal Information

Help

Disclaimer: The Surgeon General's My Family Health Portrait tool does NOT keep a government record of the information you fill in nor make your health information available to anyone else but you. It only provides the software for organizing your information. By accessing the tool on the web, you make use of that software. But the information you fill in is not transmitted back to our servers, and never available to anyone else, unless you choose to share or disclose it. After you fill in your information, it is available only to you for downloading. After that, it's up to you whether you want to share the information with other family members or provide it to your health care practitioner. The Surgeon General's tool helps gather information that will be useful for you and your health care practitioner, but it does not provide medical advice. You should consult with a health professional about advice based on your family health history information.


Your Personal Information

We start the family health history with you. Enter the required personal information and your health history information. At the bottom of the page (you may need to scroll), press the 'Next' button. You will then be asked to tell the system which family members you would like to add to the health history.

* Indicates required information.

*Name:

*Gender at Birth: ☒ Male ☐ Female

*Date of Birth  click the icon to select.

Were you born a twin? ☒ No ☐ Yes - Identical (Same) ☐ Yes - Not Identical (Fraternal)

Were you adopted? ☐ Yes

Height Feet Inches -OR- Centimeters

Weight

Your Health Information

In the list below, select a **Disease or Condition** (if any) from the dropdown box. Then select the **Age at Diagnosis** and press the **Add** button. You may repeat this process as necessary.

Disease or Condition	Age at Diagnosis	Action
Brain Cancer	In Childhood	<div>Remove</div>
<div>Please Select a Disease</div>	<div>Select Age at Diagnosis</div>	<div>Add</div>

Your Family Background Information

☐ Check here if your parents are related to each other in any way other than marriage.fhh_js.consanguinity_note

Select races and ethnicities.(multiple races and ethnicities may be selected)

Race:

☒ American Indian or Alaska Native

☐ Asian

☐ Black or African-American

☐ Native Hawaiian or Other Pacific Islander

☐ White

Ethnicity:

☐ Hispanic or Latino

☐ Ashkenazi Jewish

☐ Not Hispanic or Latino

[Why are we asking about Ashkenazi Jewish heritage?](#)

Cancel

Next

Add Family Members

Help

Now we will build your family.

- We automatically add your parents and grandparents for you.
- Tell us about your immediate family, including your brothers, sisters, children, aunts, and uncles.
- You can add more family members like cousins, nieces, nephews, half siblings, and grandchildren later.
- We collect information only for blood relatives, not household members, not step-relatives, nor spouses (unless related by blood).


How many brothers do you have?	<input type="text" value="0"/>
How many sisters do you have?	<input type="text" value="0"/>
How many sons do you have?	<input type="text" value="0"/>
How many daughters do you have?	<input type="text" value="0"/>
How many brothers does your mother have? (your uncles)	<input type="text" value="2"/>
How many sisters does your mother have? (your aunts)	<input type="text" value="1"/>
How many brothers does your father have? (your uncles)	<input type="text" value="1"/>
How many sisters does your father have? (your aunts)	<input type="text" value="1"/>

Cancel

Next

Na

My Fam

undefined	Self	Yes		
	Father	undefined		
	Mother	undefined		
My Father's Side of the Family				
	Paternal Grandfather	undefined		
	Paternal Grandmother	undefined		
My Mother's Side of the Family				
	Maternal Grandfather	undefined		
	Maternal Grandmother	undefined		
Recently Added Family Members				



My Family Health History

Check your risk for certain common diseases in your family

[Check Your Familial Risk](#)

[Get Help For This Page](#)

Manage your data

[Save Data](#) - So you can use and update it later (do not use browser menu "save") **You have unsaved data!**

[Share Data](#) - Save for use by a family member

[Start Over](#) - Delete all unsaved data and restart with new data, or load saved data

View and print data

[Pedigree Drawing](#)

[Family Health Table](#)

Edit your family and health histories

[Add a Family Member](#) - Add another family member and enter their health information.

Click in the table below to make changes to a family member's information and health history.

Click in the table below to remove a family member and their data.

Remember to click the "Save Data" button above if you want to save your changes for future use.

Name	Relationship To Me:	Still Living	Update History	Remove Relative
My Family				
Xyz	Self	Yes		
	Father			
	Mother			
My Father's Side of the Family				
	Paternal Grandfather			
	Paternal Grandmother			
	Paternal Uncle			
	Paternal Aunt			
My Mother's Side of the Family				
	Maternal Grandfather			
	Maternal Grandmother			
	Maternal Uncle			
	Maternal Uncle			
	Maternal Aunt			
Recently Added Family Members				

Save Your Family Health History

Why save your family health history file?

To respect individual privacy concerns, this website does not save your family health history information. However, you can save your family health history to your own local storage area (such as your computer's hard drive, a CD-ROM, or USB thumb drive). In addition, you can save to a third-party system such as Microsoft® HealthVault, Google Drive, and Dropbox (other third party systems will be added in the future). Some hospitals and doctors' offices will be able to obtain this family health history information stored with a third party system, if you grant them permission, and directly incorporate your family health history into an electronic medical record.

Save Your Personal Information to a File

My Family Health Portrait



In this step, you can save your family health history to your computer or portable storage device as an XML data file. This data file can be opened in this website later to update your family health history.

Press 'Save to a File' and your browser will put the file in your preferred download location

[Save to a File](#)

lick in the table below to make changes to a family member's information and health history.

lick in the table below to remove a family member and their data.

ber to click the "Save Data" button above if you want to save your changes for future use.

Use a Saved History.

My Family Health History

Check your risk

Manage your data

View and print


Edit your family

Load Your Family Health History

Disclaimer: The Surgeon General's My Family Health Portrait tool does NOT allow the government or other entities to access your information. The tool provides the software for organizing your information, but your information is not transmitted back to government or other servers and can only be downloaded by you. Your information is never available to anyone else, unless you choose to share it. The Surgeon General's tool does not provide medical advice. For questions related to family health history and your health, talk to your doctor.

Load Your Family Health History from a Device

My Family Health Portrait





Load a previously-saved Family Health History file from your computer or a portable storage device, such as a USB drive.

Find and open the file you previously saved.

Open

Add a Family Member

Click  in the table below to make changes to a family member's information and health history.

Click  in the table below to remove a family member and their data.

Remember to click the "Save Data" button above if you want to save your changes for future use.

Name	Relationship to Me	Update History	Remove Relative
	Self		

Help

This Page

My Family Health Portrait

My Family Health History

Check your risk for certain common diseases in your family

Manage your data

View and print

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Check Your Familial Risk

Get Help For This

Save Data


Share Data


Start Over

Pedigree Drawing


















Family Health Table

Add a Family Member

Click  in the table below to make changes to a family member's information and health history.

Click  in the table below to remove a family member and their data.

Remember to click the "Save Data" button above if you want to save your changes for future use.

Name	Relationship To Me:	Still Living	Update History	Remove Relative
My Family				
Xyz	Self	Yes		
	Father			
	Mother			
My Father's Side of the Family				
	Paternal Grandfather			
	Paternal Grandmother			
	Paternal Uncle			
	Paternal Aunt			
My Mother's Side of the Family				
	Maternal Grandfather			
	Maternal Grandmother			
	Maternal Uncle			
	Maternal Uncle			
	Maternal Aunt			
Recently Added Family Members				

Presentation of information

My Family Health Portrait Table

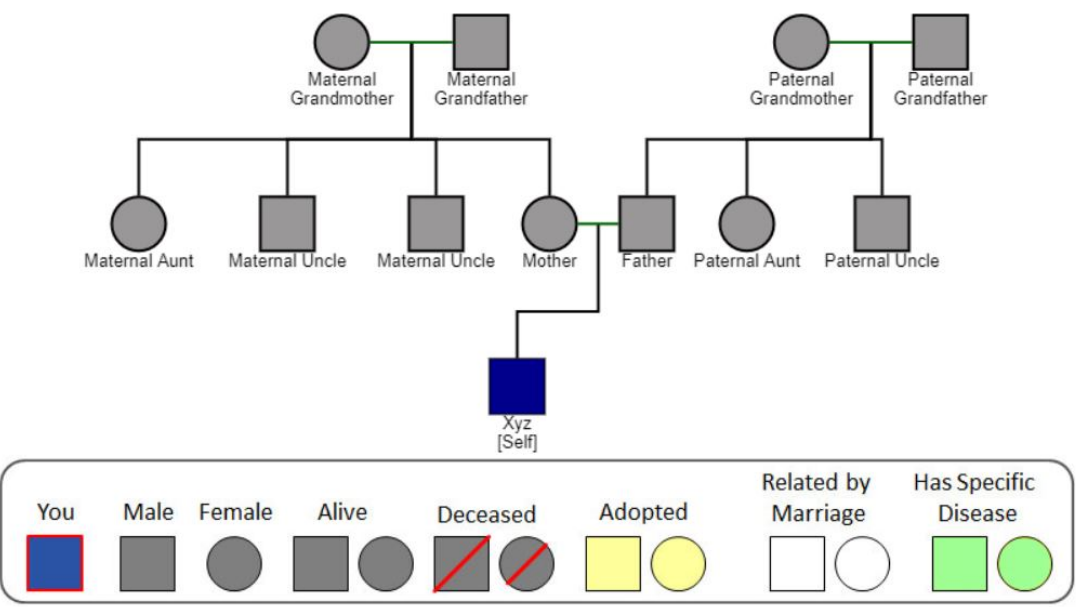
My Family Health Portrait Diagram

My Personal Information			
Age: 20	Height: 175 centimeters	Weight: 65 kilograms	BMI: 21.22
Date of Report: Thursday, September 24, 2020, 8:22 PM			

My Personal Information			
Age: 20	Height: 175 centimeters	Weight: 65 kilograms	BMI: 21.22
Date of Report: Thursday, September 24, 2020, 8:24 PM			

To save the image, right click directly on the diagram and choose save image as

To save the image, right click directly on the table and choose save image as



Name & Relationship	Still Living, cause of death (age)	Heart Disease	Stroke/Brain Attack	Diabetes	Colon Cancer	Breast Cancer	Ovarian Cancer/Fallopian Tube Cancer	Brain Cancer
Xyz (Self)	Yes							In Childhood
Mother	Unknown							
Father	Unknown							
Maternal Grandmother	Unknown							
Maternal Grandfather	Unknown							
Paternal Grandmother	Unknown							
Paternal Grandfather	Unknown							
Aunt	Unknown							
Uncle	Unknown							
Uncle	Unknown							
Aunt	Unknown							
Uncle	Unknown							

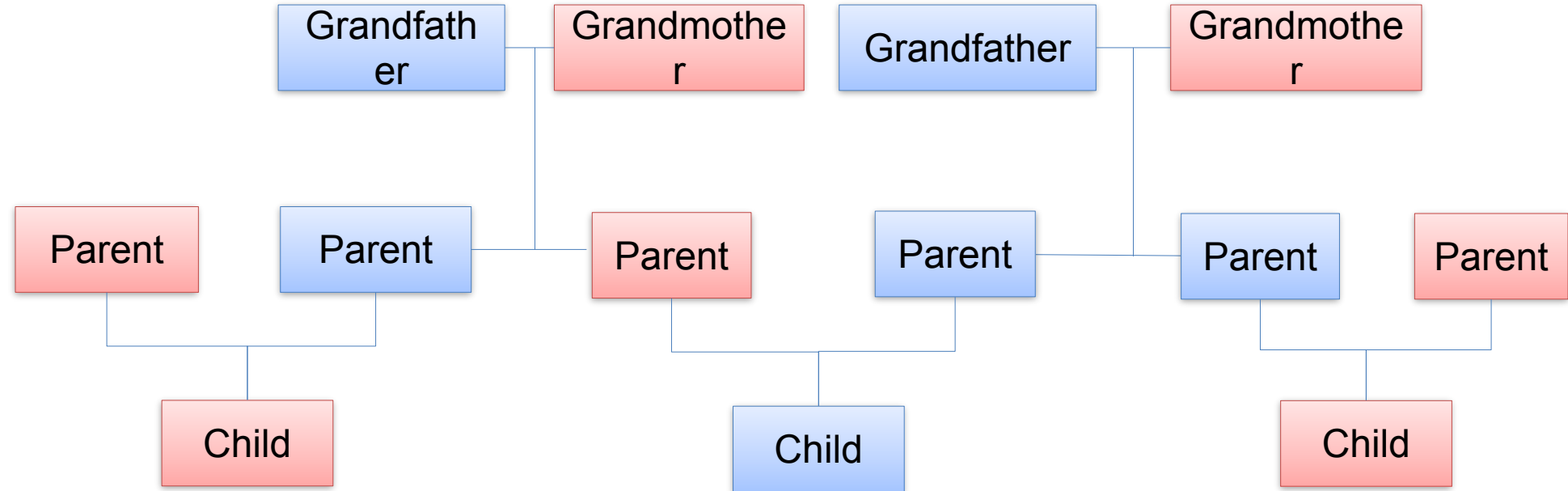
How is a family medical history used?

- Assess your **risk of certain diseases**.
- **Recommend changes in diet** or other lifestyle habits to reduce the risk of disease.
- **Recommend medications or treatments** to reduce the risk of disease.
- Determine which **diagnostic tests** to order.
- Determine whether you or family members should get a **specific genetic test**.
- **Identify a condition** that might not otherwise be considered.
- Identify other family members who are **at risk of developing a certain disease**.
- Assess your **risk of passing conditions** on to your children.

A family medical history can't predict your future health. It only provides information about risk. Other factors - such as your diet, weight, exercise routine and exposure to environmental factors - also affect your risk of developing certain diseases.

Functionality

Family tree for simplified view.



Dedicated profile page for each family member.

The screenshot displays a patient profile page for 'Anita Silva', a 36-year-old female. The page is part of the 'Smile Dental' application, as indicated by the top navigation bar. The patient's ID is 'PRAY16', and there is a note about an 'INR 821.88 due'. The medical history lists 'Hypertension, Allergies, Gastric Ulcers, Appendicitis, Vitamin D deficiency, iron deficiency'. The contact details include an email address 'anita.test@mail.com'. The page is organized into several sections: a sidebar on the left with navigation options like 'Profile', 'Appointments', 'Communications', 'EMR', and 'Billing'; a main content area with 'PATIENT PROFILE' and 'Contact Details'; and a right sidebar with 'Patient Notes', 'Medical History', and 'Groups'. The 'Medical History' section is highlighted with a red border.

Smile Dental | Calendar | Records | Communications | Tab | Reports | Profiles | Search | + | Bell | 10 | ? | Settings

Anita Silva | Female, 36 Years | (ID : PRAY16) | INR 821.88 due | Medical History | Edit Medical History

Hypertension, Allergies, Gastric Ulcers, Appendicitis, Vitamin D deficiency, iron deficiency

Patient < << PATIENT PROFILE | Change Photo | Edit Patient Profile

Profile | Appointments (8) | Communications | EMR < << | Clinical Notes (1) | Treatment Plans (4) | Completed Procedures (11) | Files (1) | Prescriptions (1) | Timeline | Billing < << | Invoices (8) | Payments (1) | Ledger

Patient Profile

Medical History | Edit

Hypertension
Allergies
Gastric Ulcers
Appendicitis
Vitamin D deficiency, iron deficiency

Groups | Edit

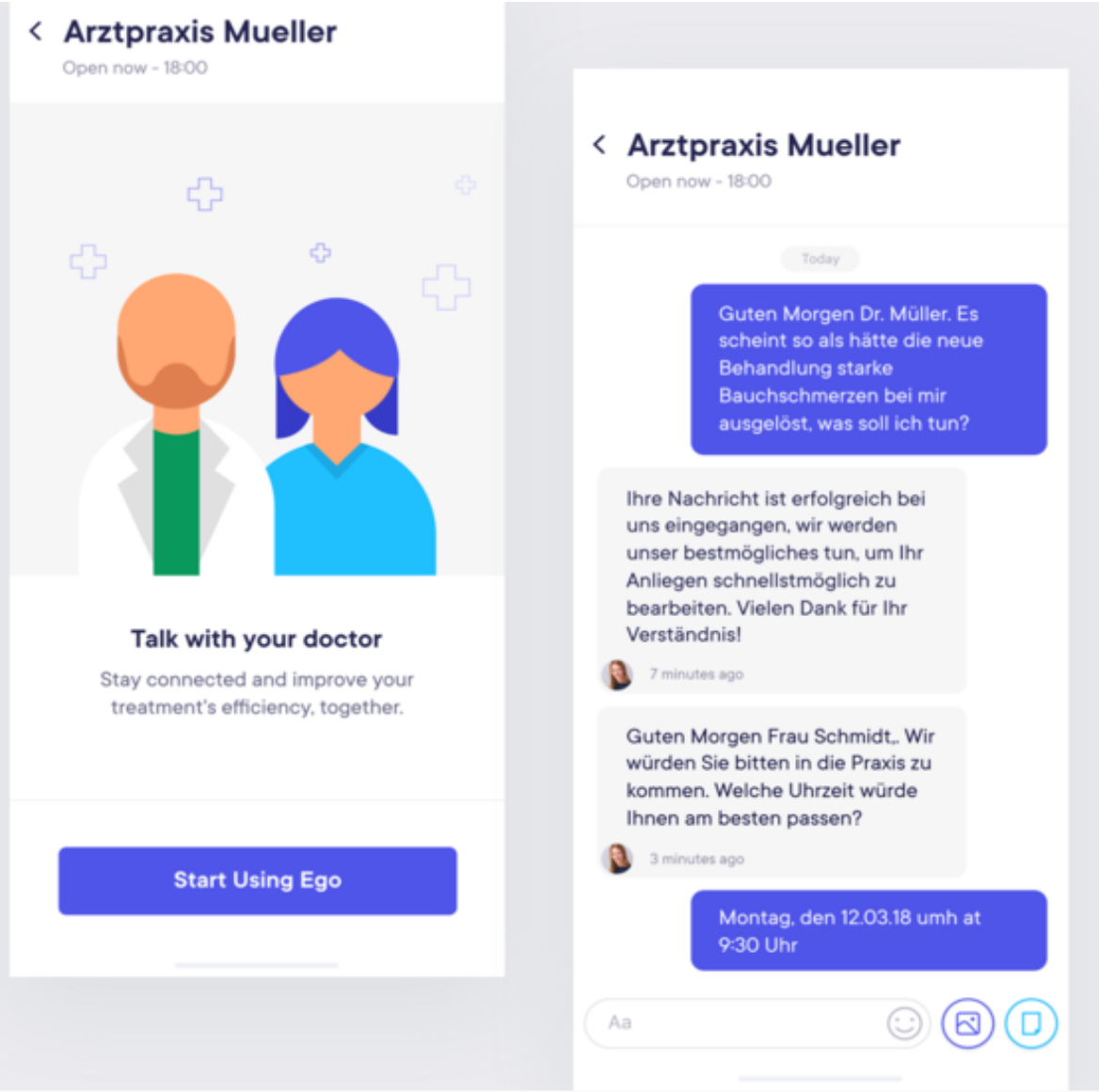
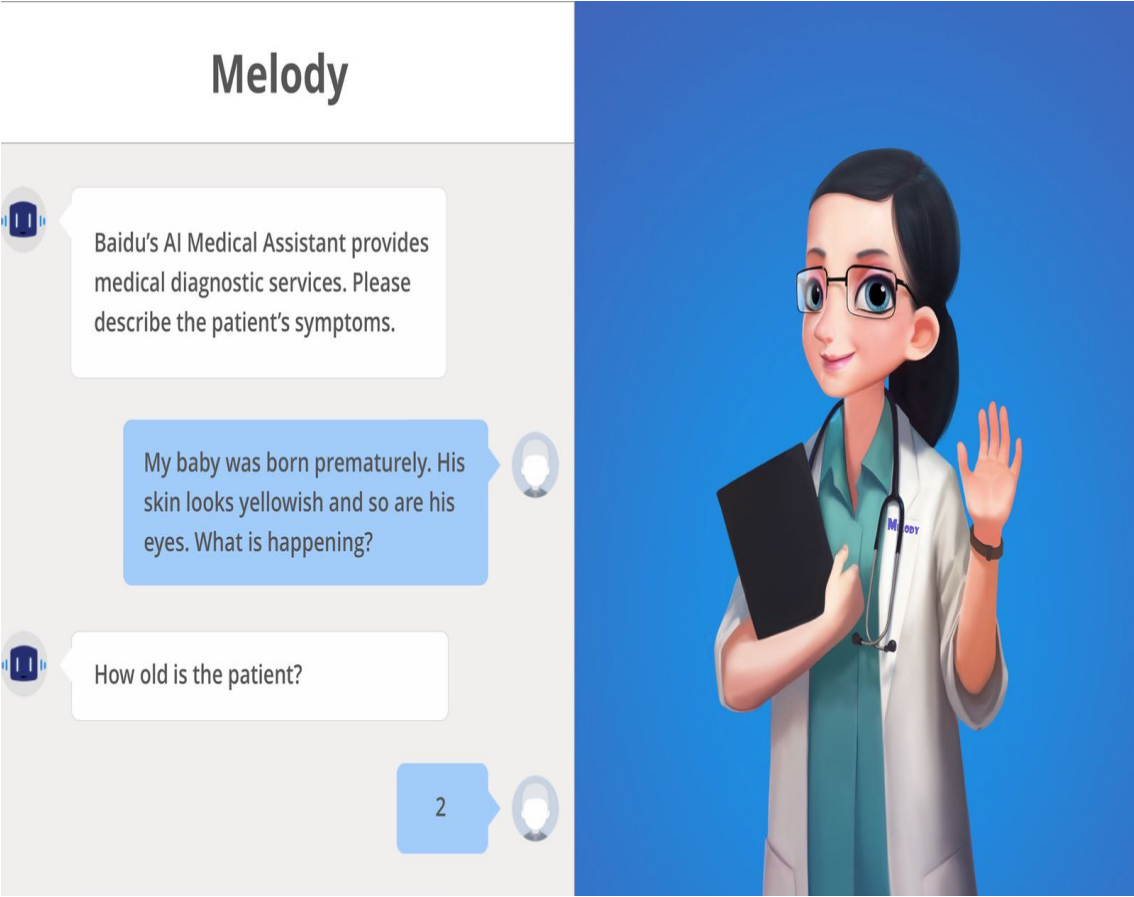
Vegetarian

Contact Details

Patient Name : Anita Silva
Patient ID : PRAY16
Gender : Female
Age : 36 Years
Referred by : Practo.com
Blood Group : O+
Email Address : anita.test@mail.com

Sample medical profile. (source : Practo)

- Chat-box for doctor-doctor, patient-patient, doctor-patient communication



- Protected access to patient data.
- Modification privileges to doctors and staff only.
- Dedicated login for each patient.
- Provision of storage of various patient details but not limited to :
 - Symptoms.
 - Allergies.
 - Medication.
 - Previous Medical tests.
 - BMI.
 - Habits.

Scope

- Scope is inclusive but not limited to patient medical history.
- Often, a patient's medical history solely isn't enough to determine the extent of a disease.
- Family medical history helps store the medical data of a family at one place.
- Making it easier to identify a diagnosis path.
- The data will be useful in data mining and prediction of diseases.

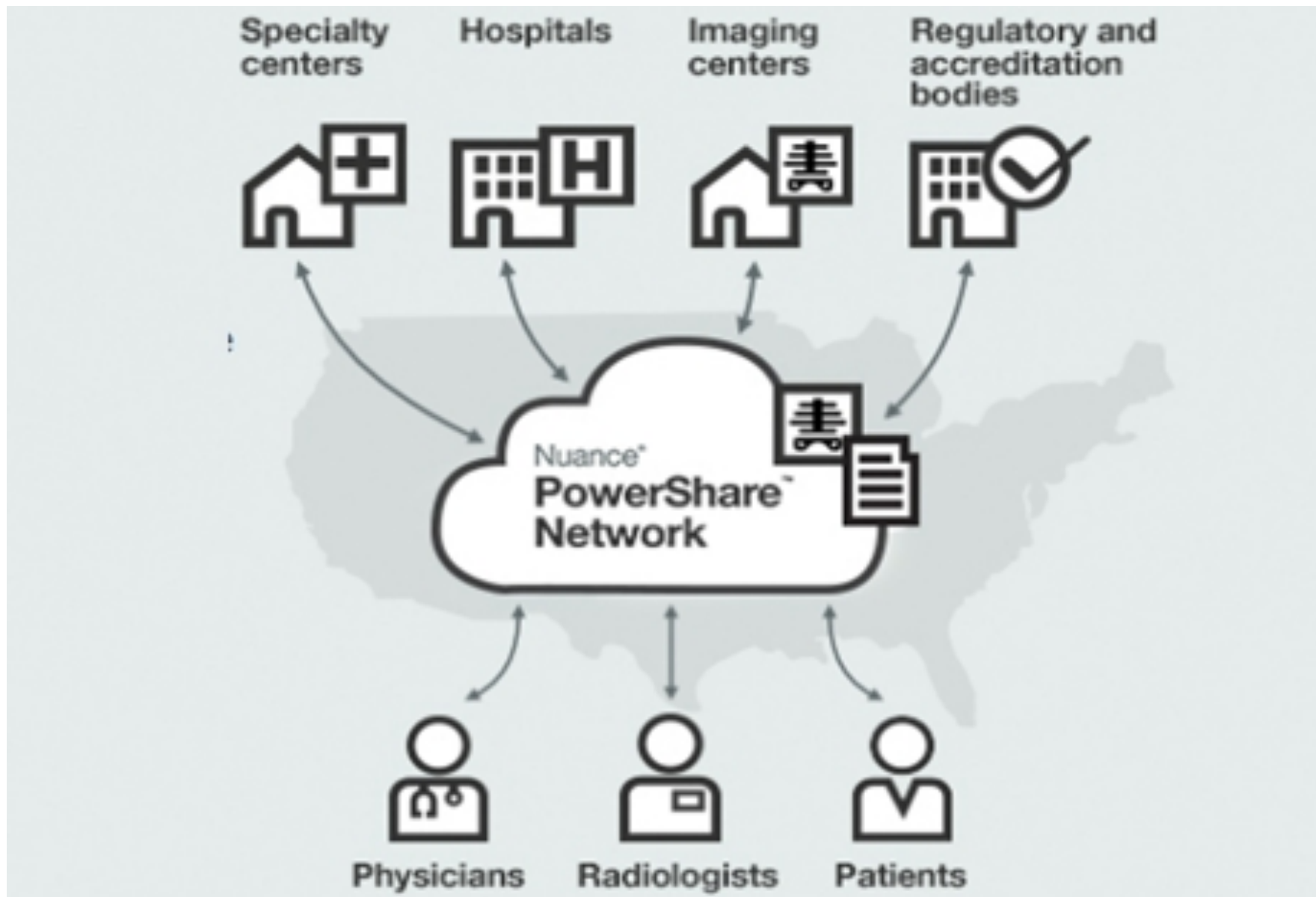
Stakeholders

Team Members

- Team members include the group members of the project
- Schedule regular meetings on current status of project
- Completion of the assigned tasks allotted to/ volunteered by a particular member

End Users

- Doctors: all necessary write access and read access
- Patients: only read access
- Research Institutes: limited write access and limited read access
- Government/NGOs: limited read access

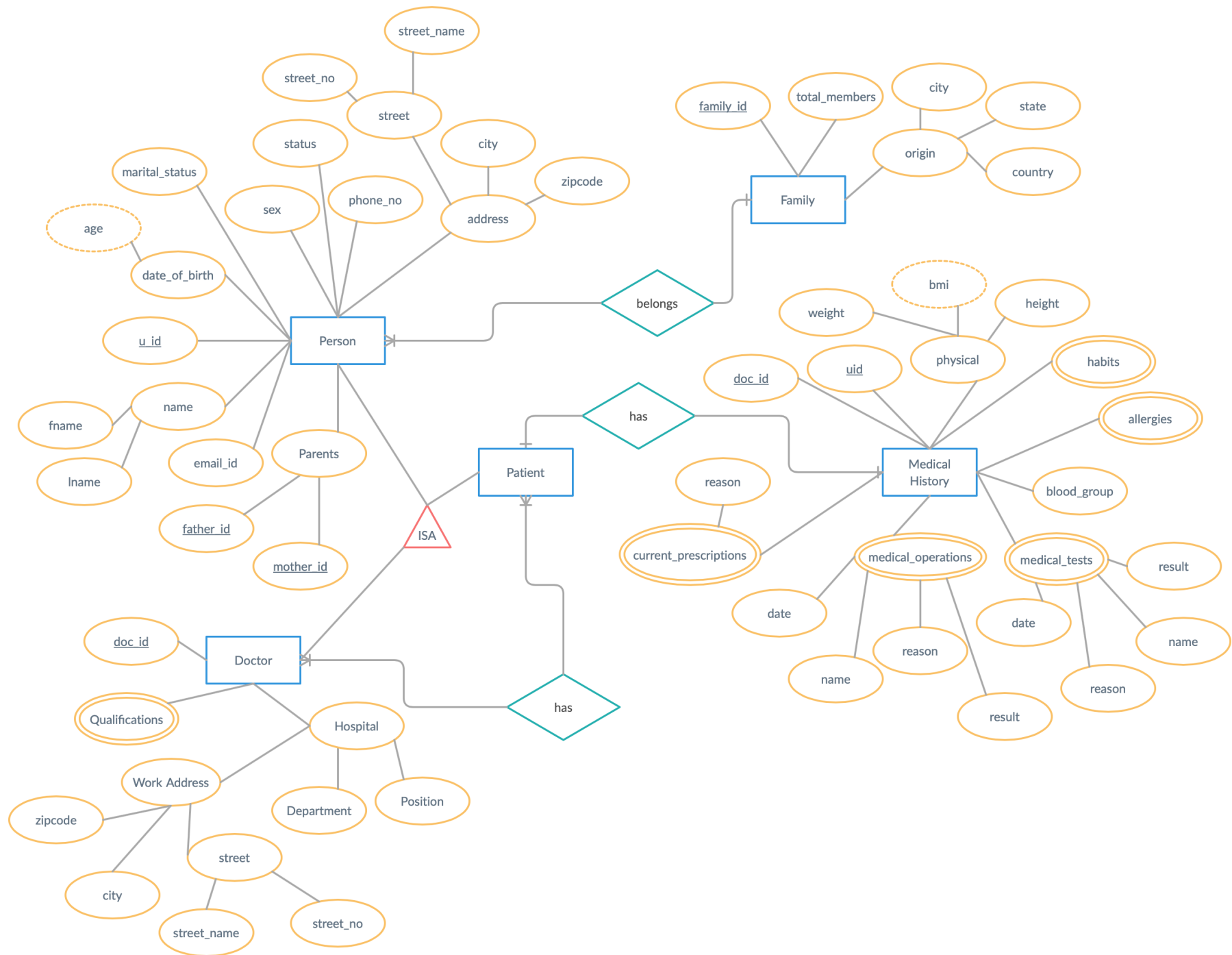


Some General Stakeholders

Entity Relationship Diagram

Requirements/Conditions

- A Person can be uniquely identified by UID (Unique Identification) number, having information like first name, last name, sex, date of birth, address, marital status, contact info and Parents' IDs
- Each person belongs to one Family containing a family_id, total number of members alive and their family origin; and a Family can have many members
- A person can be a Patient or a Doctor or both
- A doctor can have other information like doc_id, work address, etc
- A doctor can have many patients and a patient can have many doctors
- Each Person also has a Medical History/Record containing detailed reports on a persons medical condition both past and current.



Thank You!