

# PPMI Data & Bioinformatics Core

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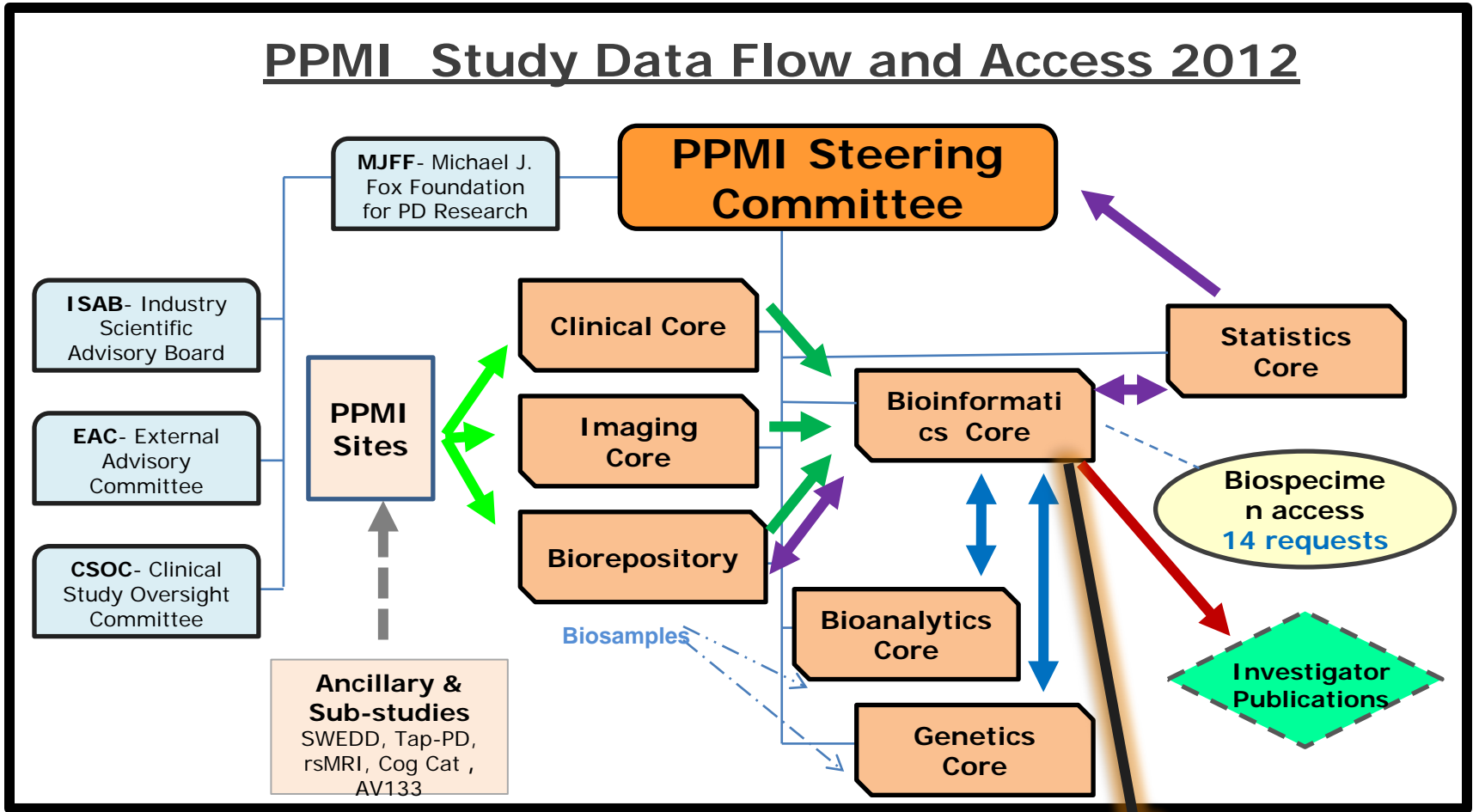


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# PPMI Data & Bioinformatics Core



# Apply for PPMI Data Access & Download

Parkinson's Progression Markers Initiative Subscribe: News



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<http://www.ppmi-info.org/>


home

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### OUR MISSION

The mission of PPMI is to identify one or more biomarkers of Parkinson's disease progression, a critical step in the development of new and better treatments for PD. This study is being sponsored by **The Michael J. Fox Foundation for Parkinson's Research.**


Subscribe to PPMI e-news

### WELCOME

Welcome to the Parkinson's Progression Markers Initiative (PPMI), a landmark observational clinical study to comprehensively evaluate a cohort of recently diagnosed PD patients and healthy subjects using advanced imaging, biologic sampling and clinical and behavioral assessments to identify biomarkers of Parkinson's disease

 **DOWNLOAD DATA**

 **REQUEST**



## DOWNLOAD DATA

Through this Web site, qualified researchers may obtain access to all clinical, imaging and biomarker data collected in PPMI. This includes raw and processed MRI and SPECT images. All data are de-identified to protect patient privacy.

### New Users Apply Now:

Investigators seeking access to PPMI data must submit an online application, which requires signing the **Data Use Agreement** and compliance with the study **Publications Policy**. Applications for data access are reviewed by the Data and Publications Committee within one week of receipt.

APPLY FOR DATA ACCESS

### Registered Users:


Investigators who have been granted access to PPMI data can enter their email and password below.

Email:

Password:

Forgot your login and password? [Click here.](#)

LOGIN



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### Participant Research Group and Age Distribution

Age Group	Control	PD	SWEDD
30-39	10	7	0
40-49	25	19	12
50-59	47	62	7
60-69	55	90	17
70-79	19	37	5
80-89	0	0	0

**Research Group**

Group	Count
Control	159
PD	217
SWEDD	43

**Gender**

Gender	Count
Female	152
Male	267

RELATED LINKS

- FREQUENTLY ASKED QUESTIONS
- PPMI RESEARCH DOCUMENTS AND SOPs
- BIO SPECIMEN ACCESS REQUEST
- PPMI DATA USE AGREEMENT
- CONTACT PPMI TEAM

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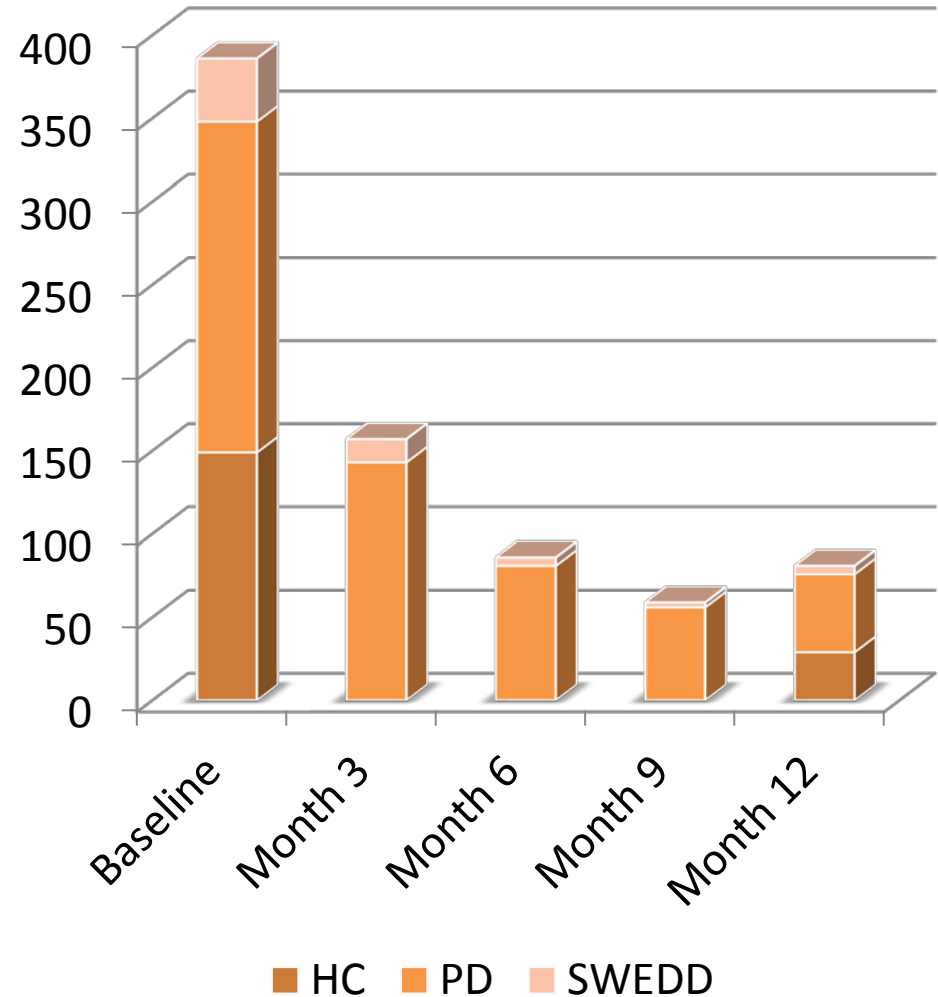
## Parkinson's Progression Markers Initiative

Getting Started | Participant Age

data containing tabs

# Available Clinical Data

- Subject Characteristics
- Biospecimen
- Enrollment
- Imaging Metadata
- Incidents & Notifications
- Medical History
- Motor Assessments
- Non-motor Assessments



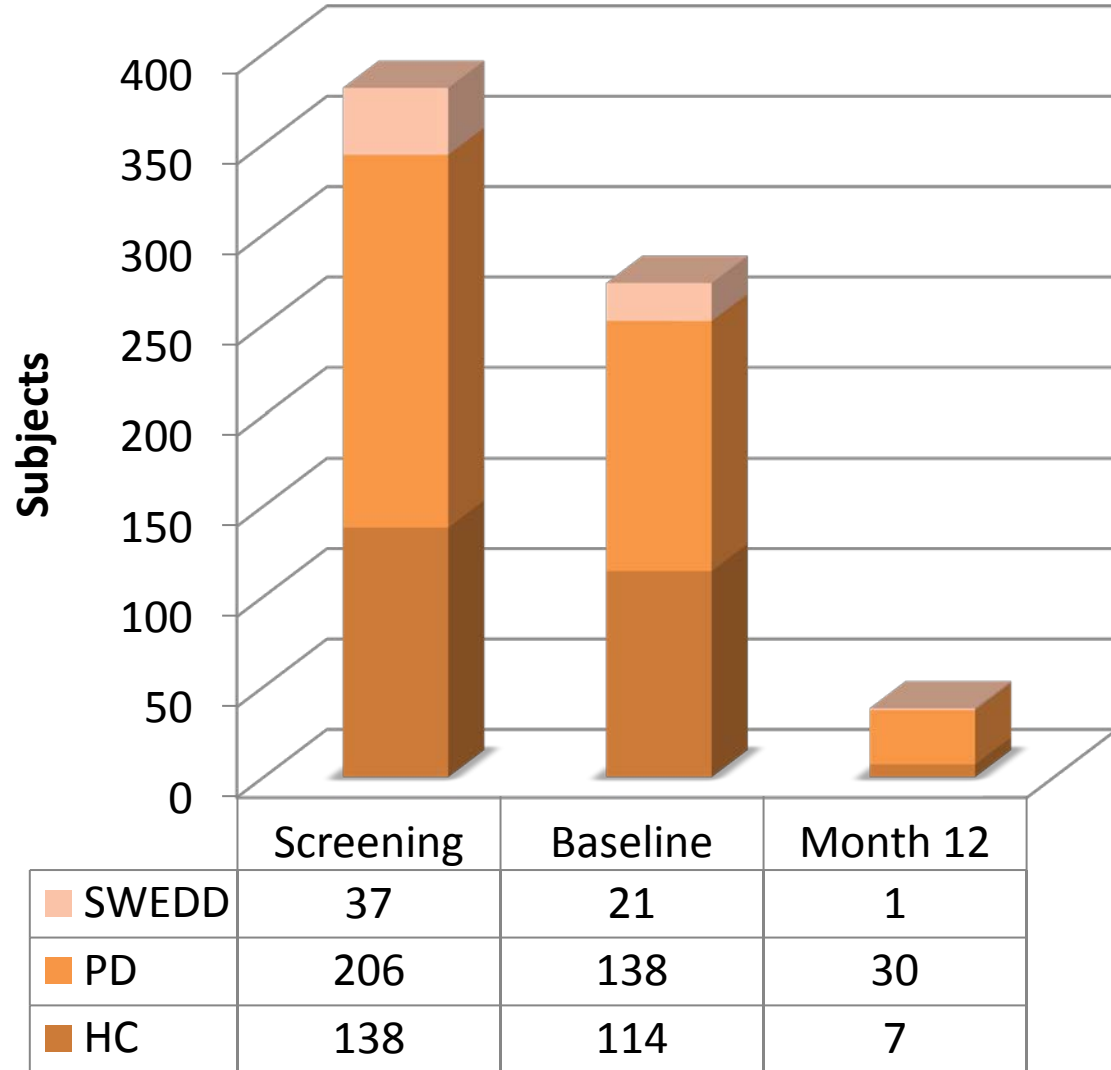
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# Available Data

- Structural MR
- SPECT
- Diffusion MR (raw)
- Processed Diffusion MR:
  - FA Maps
  - MD Maps
  - Eigen Vectors

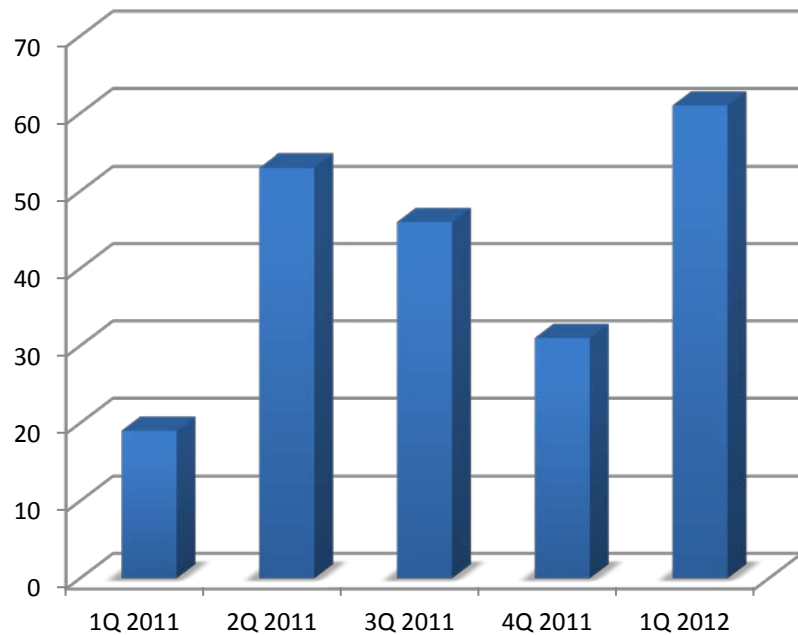


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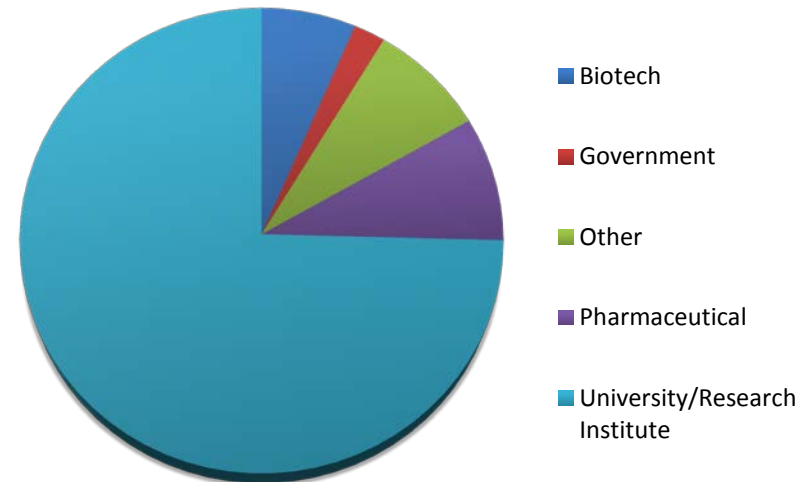
# Data Use Applicants

## 228 Applicants from 28 Countries

### Applicants by Quarter



### Applicants by Sector

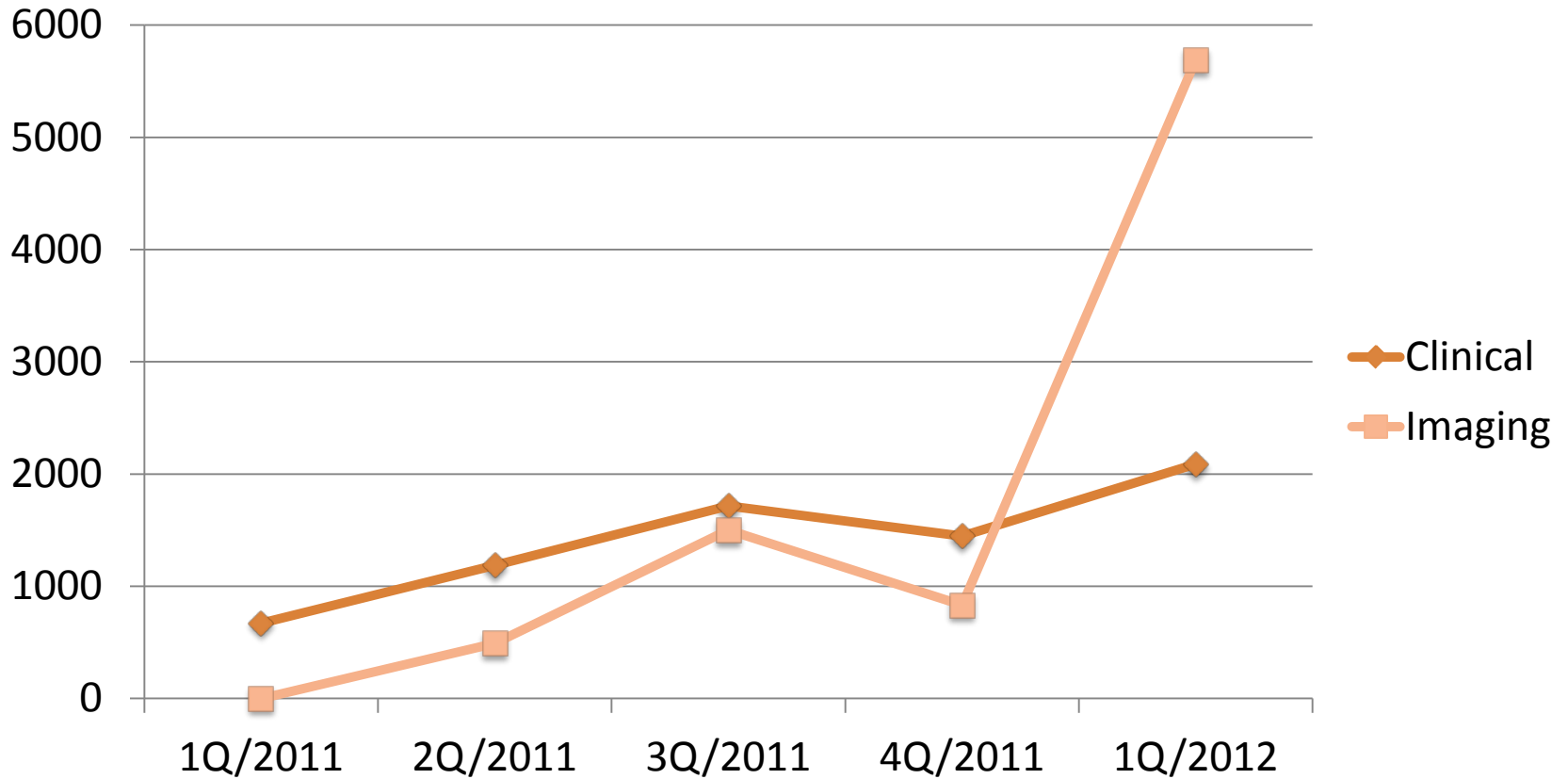


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# Download Activity





# PPMI Data & Informatics Core

## Highlights of PPMI data availability from 2011 to 2012

2011	2012
PPMI data made accessible to investigators and scientific community - March 2011	Interactive PPMI data access and download platform added- April 2012
Opened on-line registration for authorized users to access PPMI data	Over 228 Registered PPMI Data users from 28 of Countries
17 of 21 PPMI sites activated	22 of 24 PPMI sites activated Added 3 new sites including AUS
Baseline data for 77 subjects (46 PD, 31 HC) reviewed at 2011 meeting	Baseline data for 364 consented subjects (237 PD, 182 HC, 36 SWEDD)
2 Ancillary or sub-studies planned	Data from 2 ancillary studies integrated into database three more expected as part of Amendment 4
Clinical, motor, non-motor, imaging, biospecimen inventory and collection data, and SPECT and MRI scan available for download	<p>Meeting presentations focusing on early data from <i>de novo</i> drug-naive PD patients enrolled in the PPMI study:</p> <ul style="list-style-type: none"> <li>Association of CSF biomarkers with clinical features</li> <li>DaTSCAN Neuroimaging</li> <li>DTI scanning &amp; DAT uptake</li> <li>Impulse Control Disorder (ICD)</li> <li>Olfactory Function and Cognition</li> <li>Accessibility of PPMI data and biospecimens</li> </ul>

# What's New?

- Visual Interrogation System
- Dashboard



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# Visual Interrogation System

- An interactive tool for exploring, visualizing and downloading data
- Features
  - Define populations of subjects
  - Compare data across populations
  - Download data

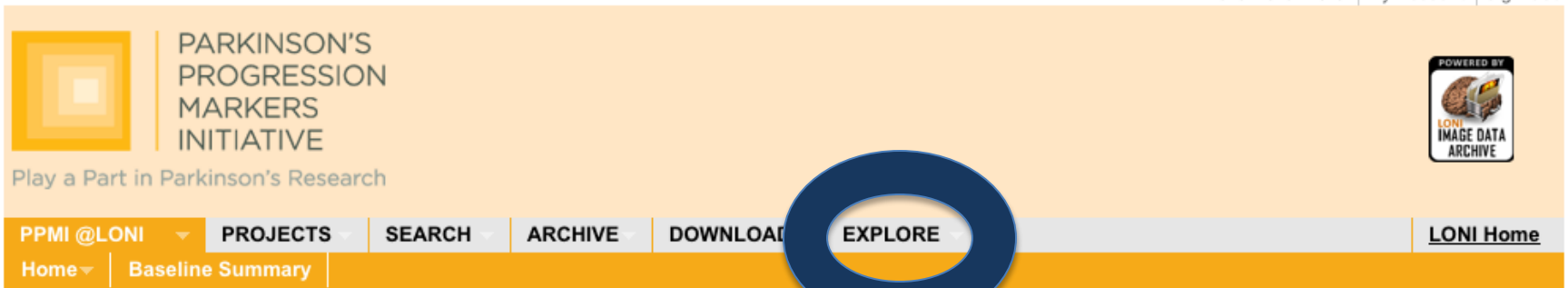


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# Visual Interrogation System



The screenshot shows the top navigation bar of the Parkinson's Progression Markers Initiative website. It features a light orange background with a dark orange navigation bar at the bottom. The navigation bar includes links for PPMI @LONI, PROJECTS, SEARCH, ARCHIVE, DOWNLOAD, EXPLORE (highlighted with a blue ring), and LONI Home. The main header area contains the PPMI logo, the text 'PARKINSON'S PROGRESSION MARKERS INITIATIVE', and the tagline 'Play a Part in Parkinson's Research'. A 'POWERED BY LONI IMAGE DATA ARCHIVE' logo is also present in the top right corner.

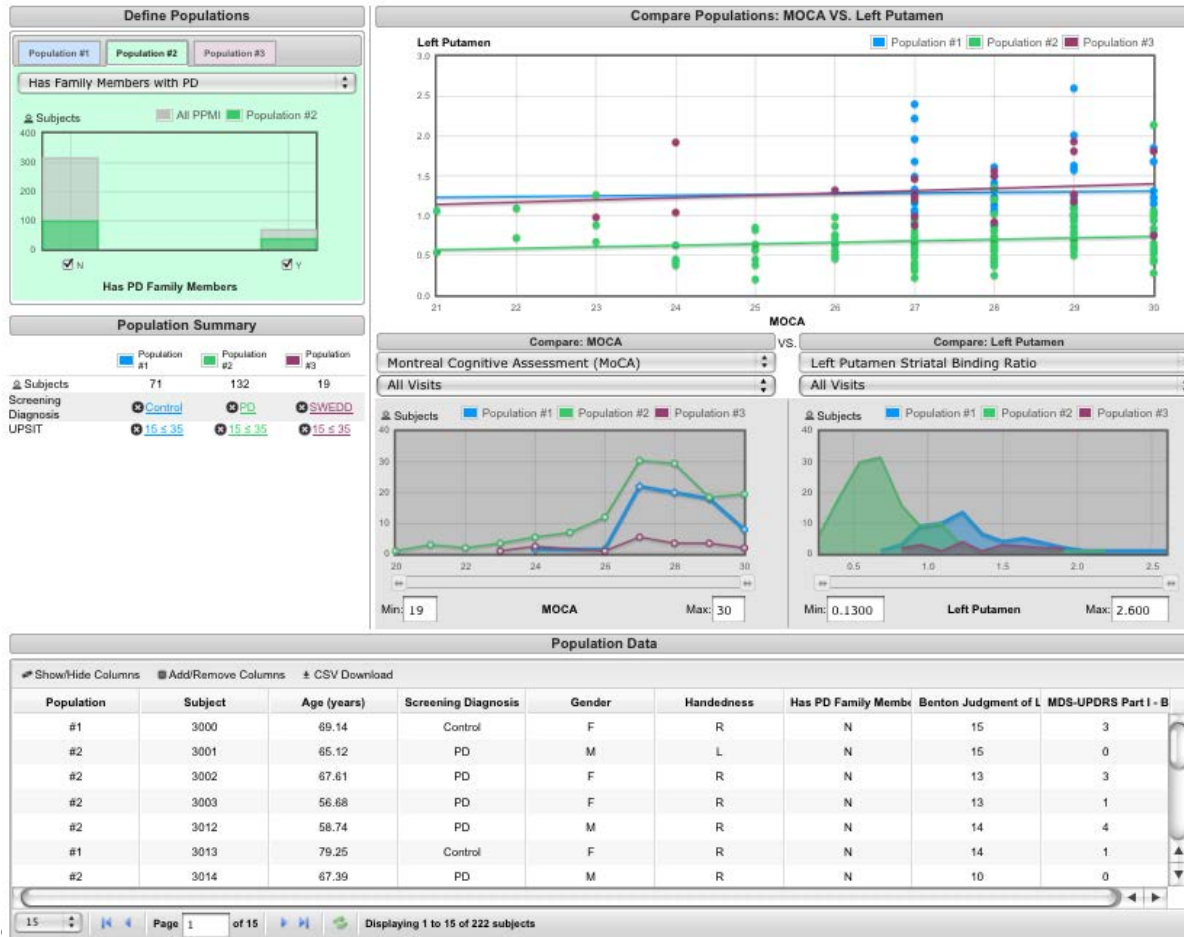
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# Visual Interrogation System

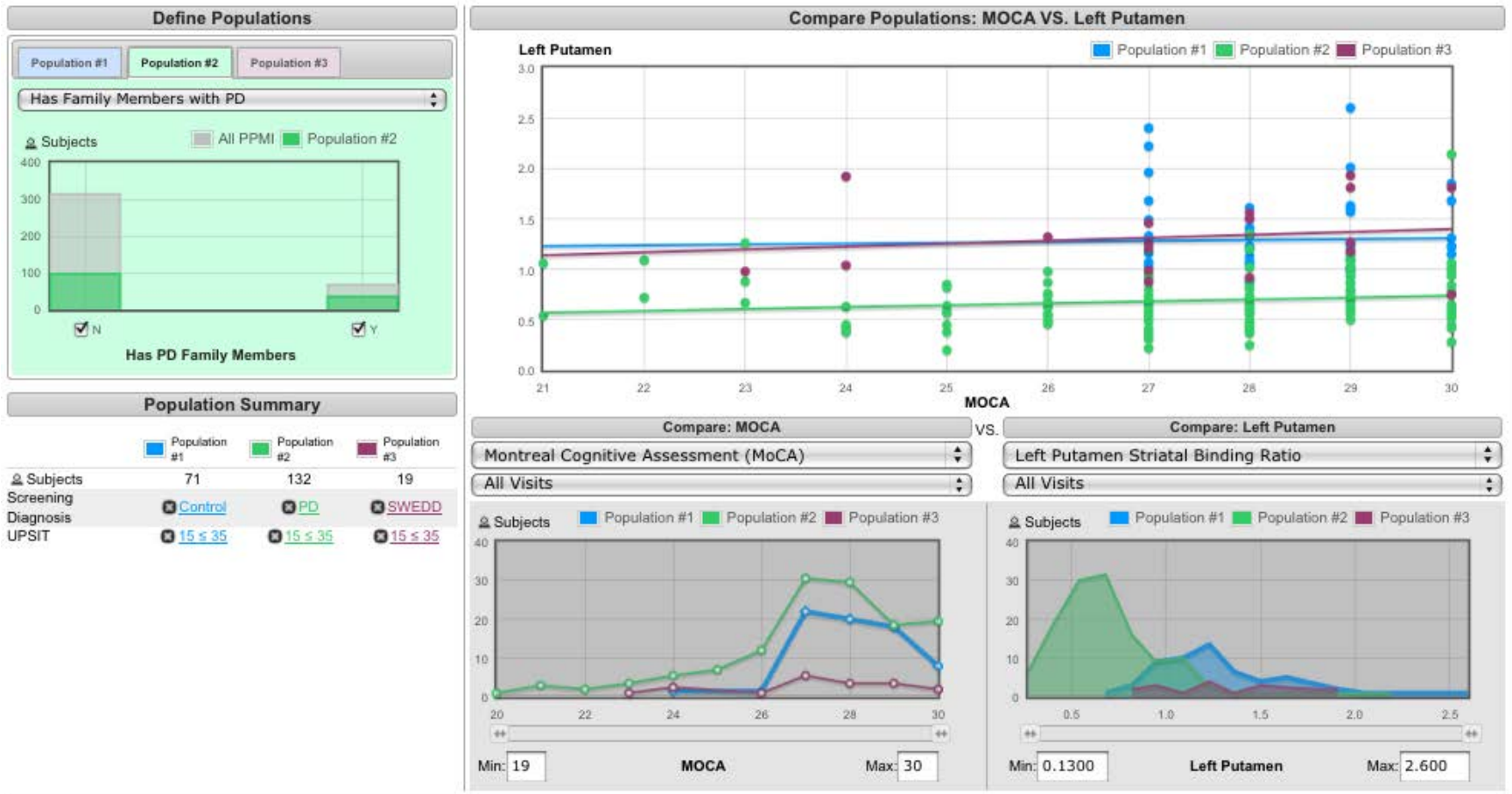


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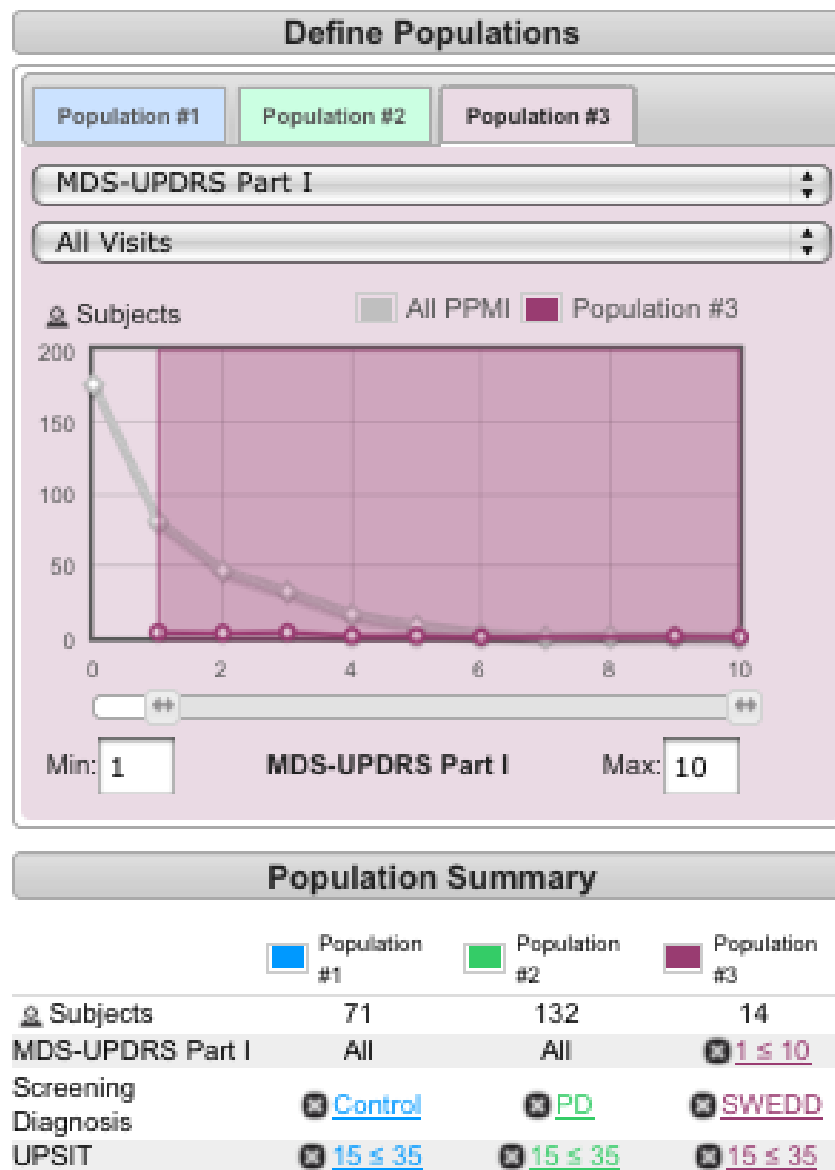


# Compare User Defined Groups



## How to define populations:

- Select attributes from menu
- Set filters using graphs
- Graphs show distribution of selected population compared with overall population
- Use controls (sliders) to choose ranges



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# Tabular Data

Population Data								
☰ Show/Hide Columns    🗑 Add/Remove Columns    ⬇ CSV Download								
Population	Subject	Age (years)	Screening Diagnosis	Gender	Handedness	Has PD Family Membe	Benton Judgment of L	MDS-UPDRS Part I - B
#1	3000	69.14	Control	F	R	N	15	3
#2	3001	65.12	PD	M	L	N	15	0
#2	3002	67.61	PD	F	R	N	13	3
#2	3003	56.68	PD	F	R	N	13	1
#2	3012	58.74	PD	M	R	N	14	4
#1	3013	79.25	Control	F	R	N	14	1
#2	3014	67.39	PD	M	R	N	10	0
#3	3050	51.42	SWEDD	F	R	N	14	3

15    Page 1 of 15    Displaying 1 to 15 of 222 subjects



# Table – Add Columns

■ Add/Remove Columns
✕

**Main**

Age at Screening

Diagnosis at Screening

Duration of Disease at Screening

Gender

Handedness

Has Family Members with PD

Years of Education

**Assessments**

	Screening Visit	Baseline	Visit 01 (Month 3)	Visit 02 (Month 6)	Visit 03 (Month 9)	Visit 04 (Month 12)	Visit 05 (Month 18)
<input type="checkbox"/> Benton Judgment of Line Orientation Score		<input checked="" type="checkbox"/>					
<input type="checkbox"/> Geriatric Depression Scale (GDS)		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/> HVL Delayed Recognition False Alarms		<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/> HVL Delayed Recognition Hits		<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/> HVL Immediate Recall		<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/> Hoehn & Yahr Post-Dose					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hoehn & Yahr Pre-Dose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Letter Number Sequencing Raw Score		<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/> MDS-UPDRS Part I	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> MDS-UPDRS Part I - Patient questionnaire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> MDS-UPDRS Part II - Patient questionnaire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> MDS-UPDRS Part III Post-Dose					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> MDS-UPDRS Part III Pre-Dose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> MDS-UPDRS Total Post-Dose					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> MDS-UPDRS Total Pre-Dose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Modified Schwab & England ADL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Montreal Cognitive Assessment (MoCA)	<input type="checkbox"/>					<input type="checkbox"/>	
<input type="checkbox"/> QUIP Positive-Buying		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/> QUIP Positive-Eating		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/> QUIP Positive-Gambling		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/> QUIP Positive-Hobbies		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/> QUIP Positive-Punding		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/> QUIP Positive-Sex		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/> QUIP Positive-Walking or driving		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/> SCOPA-AUT		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="checkbox"/> Semantic Fluency Total Score		<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/> Symbol Digit Modalities Score		<input type="checkbox"/>				<input type="checkbox"/>	
<input type="checkbox"/> University of Pennsylvania Smell Identification Test (UPSIT)							

**Measurements**

	Screening Visit	Visit 04 (Month 12)
<input type="checkbox"/> Left Caudate Striatal Binding Ratio	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Left Putamen Striatal Binding Ratio	<input type="checkbox"/>	<input type="checkbox"/>



# Visual Interrogation System

- Future Developments
  - Integration of more data attributes
  - Link with other related data (imaging, laboratory, etc.)

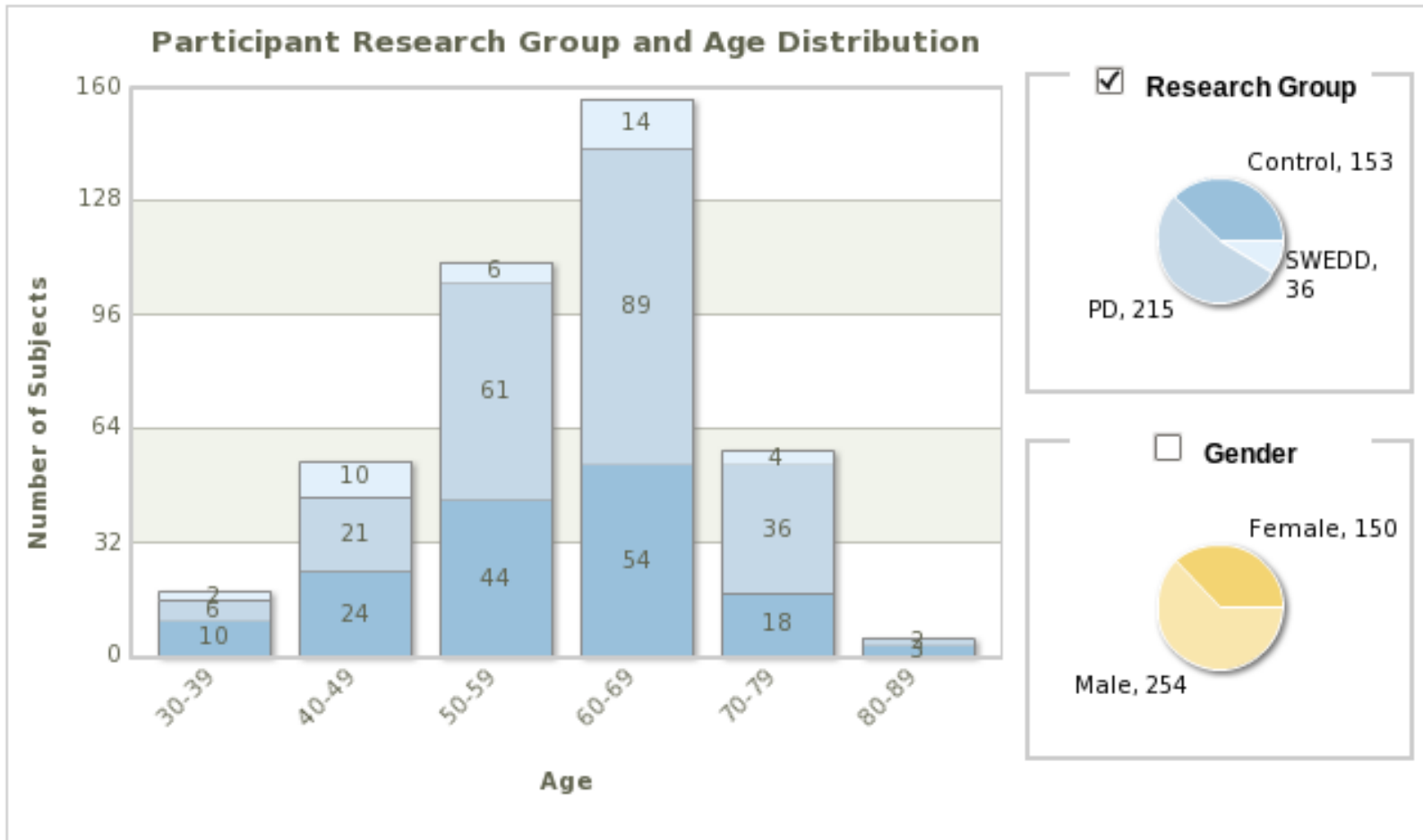


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# Dashboard Charts



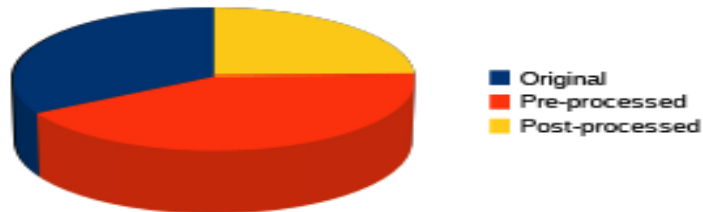
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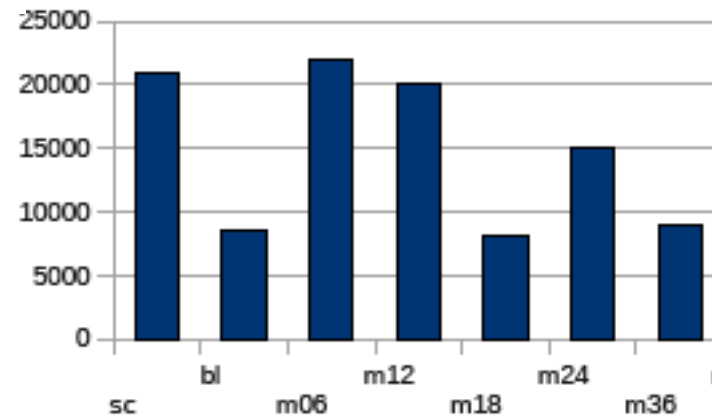


# More Coming Soon

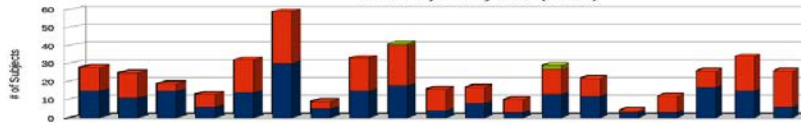
Upload By Image type



Upload by visit



# of Subjects by Visit (PPMI)



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*Thank you ! Thank you !*

PPMI Sites

PPMI Imaging Centers

PPMI Cores

PPMI Data Flow and Integration WG Group

PPMI Working Groups

PPMI Steering Committee

Michael J. Fox Foundation

Industry sponsors and donors

PPMI data users

*& most importantly*

**PPMI study participants !**



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