

Specimen Collection and Processing Form

PPMI Syn One: Case Report Form

Site No:

- ☐ 018 - University of Pennsylvania
☐ 034 - Institute for Neurodegenerative Disorders
☐ 088 - Northwestern University

Email address of staff member completing this form:

Note: A copy of the completed CRF will be sent to this address.

PPMI Participant ID:

Sex

- ☐ Female
☐ Male

Year of Birth

PPMI Visit ID:

- ☐ BL
☐ V02
☐ V04
☐ V05
☐ V06
☐ V08
☐ V10
☐ V12
☐ V13
☐ V14
☐ V15
☐ V16
☐ V17
☐ V18
☐ V19
☐ V20
☐ V21
☐ V22

PPMI Visit Date:

Consent and Eligibility

PPMI SynOne ICF Site Version Date:

PPMI SynOne ICF Study Version Date:

PPMI SynOne Date of Consent:

Did the participant consent to receive the results of their SynOne test:

- ☐ Yes
☐ No

Did participant meet the below PPMI SynOne eligibility criteria?

- ☐ Yes
☐ No

Inclusion Criteria:

- Willing and able to provide written informed consent.
- Enrolled in PPMI clinical study.
- PPMI clinical participants with already-available SAA results.

Exclusion Criteria:

- History of allergic reaction to local anesthesia for skin biopsies.

- Use of anticoagulants, including but not limited to the following medications, are excluded from this study: Dabigatran (PRADAXA, PRADAX, PRAZAXA), HEPARIN, Warfarin (COUMADIN, JANTOVEN), Lepirudin (REFLUDAN), Bivalirudin (ANGIOMAX), and Desirudin (LPRIVASK).
- Significantly impaired wound health or history of scarring or keloid formation.

Reason Ineligible:

- ☐ Not enrolled in PPMI Clinical
☐ Unable to provide informed consent
☐ Unwilling to provide informed consent
☐ History of allergic reaction to local anesthesia.
☐ Use of anticoagulants, including but not limited to the following medications, are excluded from this study: Dabigatran (PRADAXA, PRADAX, PRAZAXA), HEPARIN, Warfarin (COUMADIN, JANTOVEN), Lepirudin (REFLUDAN), Bivalirudin (ANGIOMAX), and Desirudin (LPRIVASK).
☐ Significantly impaired wound health or history of scarring or keloid formation
☐ Other
(Please click "submit" below after entering the Reason Ineligible)

Please Specify:

Biopsy Collection Detail

Date of biopsy collection:

Time of biopsy collection:

(Use 24 Hour clock.)

Side of body:

- ☐ RIGHT
☐ LEFT

Biopsies Collected

- ☐ No
☐ Collected
☐ Partial Collection
☐ Attempted, No Collection
(If response is "No", "Partial Collection", or
"Attempted, No Collection", please specify in
comments)

Biopsies Collected:

Note: Expected number of biopsies is 3.

- ☐ Distal Leg (10 cm above the lateral malleolus)
☐ Distal Thigh (10 cm above the lateral knee)
☐ Posterior Cervical Region (3 cm lateral to the C-7
spinous process)

Reason fewer biopsies were collected than expected:

Notes:

[patno] SynOne Pathology Report AE Form

PPMI Syn One: Adverse Events Log

Site No: [cno]
Participant ID: [patno]
Collection Date: [skndrdt]

AE #1

AE #1 Start Date

AE #1 Stop Date

AE #1 Detail

AE #1 Severity

- ☐ 1 - mild
☐ 2 - moderate
☐ 3 - severe

AE #1 Serious

- ☐ Yes
☐ No

AE #1 Relationship to Study

- ☐ 1 - unrelated
☐ 2 - unlikely
☐ 3 - possible
☐ 4 - probable
☐ 5 - definite

AE #1 Resulted in Study Withdrawal

- ☐ Yes
☐ No

AE #1 Primary Outcome

- ☐ 1 - recovered
☐ 2 - under treatment/observation
☐ 3 - change in AE characteristic
☐ 4 - sequela
☐ 5 - fatal
☐ 6 - unknown

AE #1 Notes

Additional AE incident?

- ☐ Yes
☐ No

AE #2

AE #2 Start Date

AE #2 Stop Date

AE #2 Detail

AE #2 Severity

- ☐ 1 - mild
☐ 2 - moderate
☐ 3 - severe

AE #2 Serious

- ☐ Yes
☐ No

AE #2 Relationship to Study

- ☐ 1 - unrelated
☐ 2 - unlikely
☐ 3 - possible
☐ 4 - probable
☐ 5 - definite

AE #2 Resulted in Study Withdrawal

- ☐ Yes
☐ No

AE #2 Primary Outcome

- ☐ 1 - recovered
☐ 2 - under treatment/observation
☐ 3 - change in AE characteristic
☐ 4 - sequela
☐ 5 - fatal
☐ 6 - unknown

AE #2 Notes

[patno] SynOne Pathology Report Results Form

PPMI Syn One: Pathology Results

Site No: [cno]
Participant ID: [patno]
Collection Date: [skndrtdt]

Please upload a copy of the SynOne Pathology Report

Conclusions

Pathology Report Conclusions: Synucleinopathy

- ☐ No evidence of phosphorylated alpha-synuclein deposition
☐ Pathologic evidence of phosphorylated alpha-synuclein deposition within cutaneous nerves
☐ Other

Please Specify:

Pathology Report Conclusions: Small Fiber Neuropathy

- ☐ Normal intraepidermal nerve fiber density.
☐ Reduced intraepidermal nerve fiber density consistent with a length dependent small fiber neuropathy.
☐ Other

Please Specify:

Macroscopic Description and Processing

All biopsies were reported in adequate condition

- ☐ Yes
☐ No

Example:

Macroscopic Description and Processing

Three (3) skin biopsies in Zamboni fixative were received. The vials were labeled as left posterior cervical, left distal thigh and left distal leg and biopsies were measured to be 3 mm. The biopsies were in adequate condition. They were washed and cryoprotected. The biopsies were sectioned into 50 µm samples. The following stains were performed:

1. Standard dual immunostaining with protein gene product 9.5 and phosphorylated alpha-synuclein
2. Standard Congo Red staining
3. Standard hematoxylin and eosin staining

Please indicate which biopsies were reported as not adequate:

- ☐ Post Cervical
☐ Distal Thigh
☐ Distal Leg
(check all that apply)

Microscopic Description**Enter Normal/Abnormal as indicated on the Results Report**

		Normal	Abnormal	Benign Findings
1	Phosphorylated Alpha-Synuclein	☐	☐	☐
2	Intraepidermal Nerve Fibers	☐	☐	☐
4	Skin Histology (Hematoxylin and Eosin)	☐	☐	☐

Pathology Results - Phosphorylated Alpha-Synuclein (P-Syn)

P-syn Deposition - Post Cervical:

- ☐ No phosphorylated alpha-synuclein deposition observed in stained sections.
☐ One colocalized fiber seen across all stained sections.
☐ Two or more colocalized fibers seen across all stained sections.
☐ At least one (1) colocalized P-Syn positive nerve fiber observed in every stained section.
☐ Multiple colocalized P-Syn positive nerve fiber observed in every stained section.

P-syn Deposition - Distal Thigh

- ☐ No phosphorylated alpha-synuclein deposition observed in stained sections.
☐ One colocalized fiber seen across all stained sections.
☐ Two or more colocalized fibers seen across all stained sections.
☐ At least one (1) colocalized P-Syn positive nerve fiber observed in every stained section.
☐ Multiple colocalized P-Syn positive nerve fiber observed in every stained section.

P-syn Deposition - Distal Leg

- ☐ No phosphorylated alpha-synuclein deposition observed in stained sections.
☐ One colocalized fiber seen across all stained sections.
☐ Two or more colocalized fibers seen across all stained sections.
☐ At least one (1) colocalized P-Syn positive nerve fiber observed in every stained section.
☐ Multiple colocalized P-Syn positive nerve fiber observed in every stained section.

Pathology Results - Intraepidermal Nerve Fiber Density

Observed Measurement - Post Cervical:

Normal Range - Post Cervical:

 (Enter Numbers Only, Do not enter Greater Than/Equal To sign)

Observed Measurement - Distal Thigh

Normal Range - Distal Thigh

(Enter Numbers Only, Do not enter Greater Than/Equal To sign)

Observed Measurement - Distal Leg

Normal Range - Distal Leg

(Enter Numbers Only, Do not enter Greater Than/Equal To sign)