

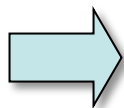
# PMT STUDY SAMPLE COLLECTION FLOW SHEET

## Phase 1 – Screening (all patients) V 3 – updated May 13, 2013

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### Blood #1

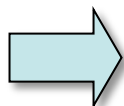
Sample type: Heparinized blood  
E.g.: Sarstedt monovette LH/9ml  
Purpose: Plasma metanephrines  
Volume: 8-10 mL  
Collection: Supine on ice, see SOP



Aliquots: 3 tubes plasma  
Volume: 1.2 - 2 mL per tube  
Disposition: 2 tubes lab, 1 bank  
Follow SOP for processing, storage, labeling & shipping

### Blood #2

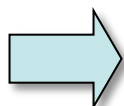
Sample type: Serum blood  
E.g.: Sarstedt monovette Serum-Gel 7.5mL  
Purpose: microRNA  
Volume: 6-8 mL  
Collection: Supine on ice



Aliquots: 2 tubes serum; 1 clot  
Volume: 1.5 - 2 mL per tube  
Disposition: 2 tubes lab, 1 bank  
Freeze and store -80°C & follow SOP for labeling etc

### Urine #1

Sample type: 24 hour urine  
Use local collection container, **no HCl**  
Purpose: Metanephrines & catecholamines  
Volume: Record total volume  
Collection: Follow SOP



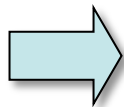
Aliquots: 3 tubes urine  
Volume: 2-2.5 mL per tube  
Disposition: 2 tubes lab, bank 1  
Freeze and store -80°C & follow SOP for labeling etc

## Phase 2 – Tumor verification/exclusion

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### Blood #3A – Baseline CLONIDINE

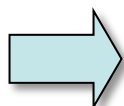
Sample type: Heparinized blood  
E.g.: Sarstedt monovette LH/9ml  
Purpose: Metanephrines & catecholamines  
Volume: 8-10 mL - Collection: See SOP



Aliquots: 2 tubes plasma  
Volume: 2 – 2.5 mL per tube  
Disposition: 2 tubes lab  
Follow SOP for processing, storage, labeling & shipping

### Blood #4 - Baseline

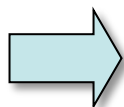
Sample type: EDTA blood  
E.g.: Sarstedt monovette KE/4.0ml  
Purpose: Plasma CgA & metabolomics  
Volume: 3-4 mL - Collection: See SOP



Aliquots: 2 tubes plasma  
Volume: 500 µl in a 1.5 mL Eppendorf safe lock tube, and remaining 1 – 2 mL in the other tube  
Disposition: 2 tubes lab (1 Munich)  
Follow SOP for processing, etc.

### Blood #3B – 180 min post CLONIDINE

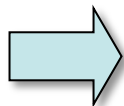
Sample type: Heparinized blood  
E.g.: Sarstedt monovette LH/9ml  
Purpose: Metanephrines & catecholamines  
Volume: 8-10 mL - Collection: See SOP



Aliquots: 2 tubes plasma  
Volume: 2 – 2.5 mL per tube  
Disposition: 2 tubes lab  
Follow SOP for processing etc

### Urine #2

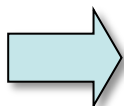
Sample type: DAY plus OVERNIGHT urine  
Use two local collection containers, **no HCl**  
Purpose: Day & Overnight metanephrines  
Volume: Record total volume  
Collection: Follow SOP for split day & night collections using separate containers



Aliquots: 2 tubes overnight urine  
2 tubes 24 hour urine  
Volume: 2-2.5 mL per tube  
Disposition: 4 tubes lab  
Freeze and store -80°C & follow SOP for sample handling etc

### Spot-Urine #1

Sample type: midstream, 2<sup>nd</sup> morning urine  
Use BD, order number: 364941  
Purpose: Urine proteomics  
Collection: Follow SOP



Aliquots: 5 tubes Sarstedt # 72.694.006  
Volume: 1-2 mL per tube  
Disposition: 4 tubes lab, bank 1  
Freeze and store -80°C & follow SOP for processing, labeling and shipping to Lübeck

## Phase 3 - Tumor characterization

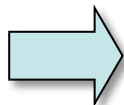
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### Only for patients entering from PHASE 1 DIRECTLY

(NOTE: for those entering phase 3 from phase 2 all collections except DNA are already done in phase 2)

#### Blood #3

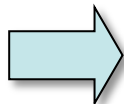
Sample type: Heparinized blood  
E.g.: Sarstedt monovette LH/2.7ml  
Purpose: Catecholamines  
Volume: 4 mL



Aliquots: 2 tubes plasma  
Volume: 1 – 2 mL per tube  
Disposition: 2 tubes lab

#### Blood #4

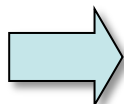
Sample type: EDTA blood  
E.g.: Sarstedt monovette KE/4ml  
Purpose: Plasma CgA & metabolomics  
Volume: 3-4 mL



Aliquots: 2 tubes plasma  
Volume: 500 µl in a 1.5 mL Eppendorf safe lock tube, and remaining 1 – 2 mL in the other tube  
Disposition: 2 tubes lab (1 Munich)

#### Spot-Urine #1

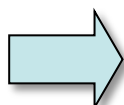
Sample type: midstream, 2<sup>nd</sup> morning urine  
Use BD, order number: 364941  
Purpose: Urine proteomics  
Collection: Follow SOP



Aliquots: 5 tubes Sarstedt # 72.694.006  
Volume: 1-2 mL per tube  
Disposition: 4 tubes lab, bank 1  
Freeze and store -80°C & follow SOP

#### Blood #5 (DNA)

Sample type: EDTA blood  
E.g.: Sarstedt monovette KE/9ml  
Purpose: DNA  
Volume: 8-10 mL



Aliquots: 3 tubes extracted DNA  
Disposition: Banked  
Follow SOP for DNA prep  
(May also be collected post-operatively)

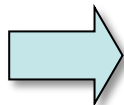
## Phase 4 - Tumor follow-up

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Post-operative samples (2-8 wks post-op): Only for patients with resectable tumors

#### Blood #6 (2-8 weeks post-op)

Sample type: Heparinized blood  
E.g.: Sarstedt monovette LH/9ml  
Purpose: Metanephrines  
Volume: 8-10 mL

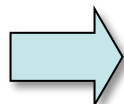


Aliquots: 2 tubes plasma  
Volume: 1.5 – 2.5 mL per tube  
Disposition: 2 tubes lab  
Optional for PMT (follow-up may be local)

#### One year follow-up samples:

#### Blood #7

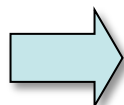
Sample type: Heparinized blood  
E.g.: Sarstedt monovette LH/9ml  
Purpose: Metanephrines & catecholamines  
Volume: 8-10 mL



Aliquots: 2 tubes plasma  
Volume: 1.2 – 2 mL per tube  
Disposition: 2 tubes lab, 1 bank

#### Blood #8

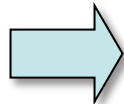
Sample type: EDTA blood  
E.g.: Sarstedt monovette KE/4ml  
Purpose: Plasma CgA & metabolomics  
Volume: 3-4 mL



Aliquots: 2 tubes plasma  
Volume: 500 µl in a 1.5 mL Eppendorf safe lock tube, and remaining 1 – 2 mL in the other tube  
Disposition: 2 tubes lab (1 Munich)

#### Blood #9

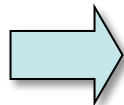
Sample type: Serum blood  
E.g.: Sarstedt monovette Serum-Gel 7.5mL  
Purpose: microRNA  
Volume: 6-8 mL



Aliquots: 2 tubes serum, 1 clot  
Volume: 1.5 - 2 mL per tube  
Disposition: 2 tubes lab, 1 bank

#### Urine #3

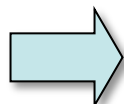
Sample type: 24 hour urine  
Use local collection container, no HCl  
Purpose: Metanephrines & catecholamines  
Volume: Record total volume



Aliquots: 4 tubes urine  
Volume: 2-2.5 mL per tube  
Disposition: 3 tubes lab, 1 bank

#### Spot-Urine #2

Sample type: midstream, 2<sup>nd</sup> morning urine  
Use BD, order number: 364941  
Purpose: Urine proteomics  
Collection: Follow SOP



Aliquots: 5 tubes Sarstedt # 72.694.006  
Volume: 1-2 mL per tube  
Disposition: 4 tubes lab, bank 1  
Freeze and store -80°C & follow SOP for Lübeck