

**MVZ Labor PD Dr. Volkmann und Kollegen GbR**  
**– Consultation Porphyria –**

Family name, first name      Date of birth  
  
Mailing Address

Sample taking – date / time			
Urine volume ml	Sample period h	Body height cm	Body weight kg

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Address of sender / seal or stamp

## Porphyria Diagnostics

Porphyrin precursors (5-aminolevulinic acid and porphobilinogen) in urine, porphyrines in urine and faeces, fluorescence scan in plasma or serum, enzymes of haeme biosynthesis in heparin blood and molecular genetic analyses

10a

Please fill in your address / contact details and consider also the second page of the form

Requesting physician or contact person: \_\_\_\_\_ phone \_\_\_\_\_

**Sample material:**

(please try to send all mentioned materials; )

- Urine:       10 ml spot sample (**without** additives / stabilizers), protected from light with aluminum foil  
or:       10 ml urine sample from a 24hour-collection with specification of the collected volume (protected from light).  
Faeces:       4 – 5 g (ml), protected from light with aluminum foil  
Heparin blood:       2 sample tubes ammonium- or lithium heparinate. Please use collection tubes without separator gel and send whole blood samples (tubes must not be centrifuged). Light protection also recommended

**5701  Screening / Primary diagnostics**

- because of clinical suspect (see below)  
 because of positive family history

Symptoms during the time of sample taking?

- 5712  Yes (please specify below)  
5713  No

Do you or did you observe / record the following symptoms or complaints? (\* ,see back page)

- |   |   |
|---|---|
| 5714 <input type="checkbox"/> Abdominal pain / colics                                   | 5722 <input type="checkbox"/> Changes in personality, depression                  |
| 5715 <input type="checkbox"/> Nausea / vomiting   | 5723 <input type="checkbox"/> Hepato-/Splenomegaly                                |
| 5716 <input type="checkbox"/> Constipation  | 5724 <input type="checkbox"/> Vesication / Blistering on light-exposed skin areas |
| 5717 <input type="checkbox"/> Tachycardia, irregular heartbeat                          | 5725 <input type="checkbox"/> Hypertrichosis (temple, cheeks, eyebrows)           |
| 5718 <input type="checkbox"/> Hypertonia  | 5726 <input type="checkbox"/> skin fragility, bad healing capacity                |
| 5719 <input type="checkbox"/> Otherwise unexplained ache of back or limbs               | 5727 <input type="checkbox"/> Skin erosions, lesions, pigmentary abnormalities    |
| 5720 <input type="checkbox"/> Paresthesia or numbness<br>(fingers, palms, hips, thighs) | 5728 <input type="checkbox"/> Burning pain following light exposure               |
| 5721 <input type="checkbox"/> Paralysis, movement disorders                             | 5729 <input type="checkbox"/> Oedema and/or erythema after light exposure         |
|   | 5730 <input type="checkbox"/> Chronical anaemia, haemolysis                       |

**5702  control examination or confirmation analysis following conspicuous screening results**

in:       Urine       Faeces       EDTA-/Heparin blood       Plasma

Which parameters were elevated?       5-Aminolevulinic acid       Porphobilinogen       Porphyrins (urine)       Porphyrins (faeces)

Others: \_\_\_\_\_

(Please send a copy of the reports, if possible)      Please also specify information on symptoms (see above)

**5703  Follow-up examination**

- in case of known/diagnosed porphyria (the disorder was at least once in the past clinically active/symptomatic)  
 in case of genetic predisposition to porphyria (so far no symptoms or complaints reported)  
0355  only state of metabolic activity in case of acute hepatic porphyria requested (determination of porphobilinogen)

Which kind of porphyria or porphyria predisposition is on hand or was diagnosed, respectively?

- |  |   |
|--|---|
| 5731 <input type="checkbox"/> Acute intermittent porphyria (AIP) | 5737 <input type="checkbox"/> Congenital erythropoietic porphyria<br>(Morbus Guenther, CEP) |
| 5732 <input type="checkbox"/> Variegate Porphyria (VP)           | 5738 <input type="checkbox"/> Hepatoerythropoietic porphyria (HEP)                          |
| 5733 <input type="checkbox"/> Hereditary Coproporphyria (HCP)    | 5739 <input type="checkbox"/> Erythropoietic protoporphyrina (EPP)                          |
| 5734 <input type="checkbox"/> Doss porphyria (ALAD-DP)           | 5740 <input type="checkbox"/> X-linked protoporphyrina (XLPP)                               |
| 5735 <input type="checkbox"/> Porphyria cutanea tarda (PCT)      | 5741 <input type="checkbox"/> Atypical porphyrinogenic Response (APR)                       |
| 5736 <input type="checkbox"/> Lead intoxication/-exposure        |   |

**5704  Molecular genetic analysis** (exclusively after preceding consultation; genetic counselling and informed consent required)

**Further clinical and anamnestic data or information (please report laboratory results with measuring unit only):**

Medications / hormones / alcohol / drugs of abuse:

Liver- and/or bile diseases / hyperbilirubinaemia (GOT/GPT/ $\gamma$ -GT/Bili):

Haemoglobin Concentration (blood):

Serum iron / Transferrin saturation / Ferritin:

Serum sodium / -magnesium:

Discolouration of urine:

Infectious diseases:

Neurological findings:

Psychiatric findings or -peculiarities:

Dermatologic assessment:

\* depending on the overleaf marked symptoms or complaints the following tests will be performed:

- Nos. 5714 – 5722: 5-aminolevulinic acid (urine), porphobilinogen (urine), Total porphyrins (urine), fluorescence scan (serum/plasma), Total porphyrins (faeces), porphobilinogen desaminase activity (blood)
- No. 5723: 5-aminolevulinic acid (urine), porphobilinogen (urine), Total porphyrins (urine), fluorescence scan (serum/plasma), Total porphyrins (faeces), porphobilinogen desaminase activity (blood), protoporphyrins (blood)
- Nos. 5724 – 5726: 5-aminolevulinic acid (urine), porphobilinogen (urine), Total porphyrins (urine), fluorescence scan (serum/plasma), Total porphyrins (faeces)
- No. 5727: 5-aminolevulinic acid (urine), porphobilinogen (urine), Total porphyrins (urine), fluorescence scan (serum/plasma), Total porphyrins (faeces), protoporphyrins (blood)
- Nos. 5728 – 5729: Total porphyrins (urine), Coproporphyrin isomers (urine), Total porphyrins (faeces), protoporphyrins (blood)
- No. 5730: Total porphyrins (urine), fluorescence scan (serum/plasma), protoporphyrins (blood)

In case of conspicuous results (increased excretion values), we will perform further differentiations if considered necessary

**Literatur:**

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- Bonkovsky HL, Guo JT, Hou W, Li T, Narang T, Thapar M (2013): Porphyrin and heme metabolism and the porphyrias. Compr Physiol 3:365–401
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