Introduction

The S2k guideline “Diagnosis and Treatment of Endometrial Cancer” was published on June 1, 2008; some of the recommendations in the guideline are still up-to-date; however, others are out-of-date and no longer apply. The update will be carried out in accordance with the requirements of the German National Cancer Plan and will lift the guideline into the S3 category. We expect that the funding required for the update will be available from the 2nd half of this year. Even if work starts promptly, the S3 guideline will only be available from the beginning of 2016 at the earliest. As an interim solution for the period for which no guideline is available, the Uterus Commission (Table 2) has issued recommendations for the diagnosis and treatment in April 2011, which were since updated in April 2013. The FIGO/TNM staging system (Table 1) was used.

Early Detection and Screening

1. Screening should not be carried out in asymptomatic women who have no risk factors.
2. There is no evidence that screening of high-risk populations reduces mortality.

Diagnosis

1. The diagnosis of endometrial cancer and its precursors must be confirmed by histological sampling.
2. Every post-menopausal bleeding must be investigated irrespective of endometrial thickness on ultrasound.
3. Atypical bleeding in perimenopausal women should be investigated histologically.
4. Only bleeding requires histological investigation in women receiving tamoxifen.
5. There are currently no imaging methods which could replace surgical staging in endometrial cancer. Magnetic resonance imaging should be done to plan radiotherapy for women whose cancer is inoperable due to comorbidities.
6. Histological classification of endometrial cancers and their precursors follows the WHO criteria.
7. Any report of histopathological findings for endometrial cancer must include: tumor type, grading, depth of invasion into the myometrium, invasion of stromal connective tissue of the cervix, lymph node involvement if applicable, R classification, lymphatic and vascular metastasis, and nerve sheath invasion.

Patient Information

1. The information provided to patients (print or internet media) must be compiled in accordance with the quality requirements of the Guideline on Information Provided to Women to support every patient in her autonomous decision for or against medical treatment by communicating the risks involved in a comprehensible form (information should list incidence rather than relative percentage).
2. Information provided to patients should be both comprehensive and truthful; the information should be presented clearly and in accordance with the principles of patient-centered communication listed here:
   - Show empathy and demonstrate active listening
   - Address difficult topics directly and sensitively
   - If possible, avoid specialist medical terminology; explain technical terms where necessary
1. Surgical treatment of endometrial cancer should consist of cy-

2. Conservative treatment with high-dose gestagens can be con-

3. Women with endometrial hyperplasia without atypia can be 

4. Women with atypical endometrial hyperplasia should only be 

5. Patients with advanced stage III disease should receive adju-

6. Multiple peritoneal biopsies and omentectomy should addi-

7. In patients with advanced disease, complete resection of all tu-

Table 1  The new FIGO/TNM classification for endometrial cancer.

<table>
<thead>
<tr>
<th>TNM categories</th>
<th>FIGO stages</th>
<th>Definitions</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX</td>
<td>Primary tumor cannot be assessed</td>
<td></td>
</tr>
<tr>
<td>T0</td>
<td>No evidence of primary tumor</td>
<td></td>
</tr>
<tr>
<td>T1</td>
<td>Tumor confined to corpus uteri</td>
<td></td>
</tr>
<tr>
<td>T1a</td>
<td>Tumor limited to endometrium or invades less than one half of the myometrium</td>
<td></td>
</tr>
<tr>
<td>T1b</td>
<td>Tumor invades one half or more of the myometrium</td>
<td></td>
</tr>
<tr>
<td>T2</td>
<td>Tumor invades stromal connective tissue of the cervix but does not extend beyond uterus</td>
<td></td>
</tr>
<tr>
<td>T3 and/or N1</td>
<td>Local and/or regional extension or metastasis as described below:</td>
<td></td>
</tr>
<tr>
<td>T3a</td>
<td>Tumor involves serosa or adnexa (direct extension or metastasis)</td>
<td></td>
</tr>
<tr>
<td>T3b</td>
<td>Vaginal involvement or parametral involvement (direct extension or metastasis)</td>
<td></td>
</tr>
<tr>
<td>N1</td>
<td>Metastasis to pelvic and/or para-aortic lymph nodes</td>
<td></td>
</tr>
<tr>
<td>N1b</td>
<td>Metastasis to pelvic lymph nodes</td>
<td></td>
</tr>
<tr>
<td>N1c</td>
<td>Metastasis to para-aortic lymph nodes</td>
<td></td>
</tr>
<tr>
<td>T4</td>
<td>Tumor invades bladder mucosa and/or bowel mucosa</td>
<td></td>
</tr>
<tr>
<td>M1</td>
<td>Distant metastasis (excludes metastasis to the vagina, pelvic serosa or adnexa; includes metastasis to inguinal and intra-abdominal lymph nodes other than para-aortic and/or pelvic lymph nodes)</td>
<td></td>
</tr>
</tbody>
</table>

1  Endocervical glandular involvement should only be considered as stage I.
2  Positive cytology must be diagnosed separately and recorded without changing the stage.
3  Bullous edema is not sufficient to classify a tumor as T4. Invasion of bladder mucosa or bowel mucosa must be confirmed with biopsy.

» Use strategies to improve patient’s understanding (repeti-

» Encourage patients to ask questions

» Permit and encourage patients to express their feelings

» Offer additional help (for example, support groups, psycho-

» Morbidity is the same for both approaches.

» In low risk cases, the oncological outcome of laparoscopic 

» This should also be done for endometrioid cancers with macro-

» In patients with advanced disease, complete resection of all tu-

» Radical hysterectomy should not be carried out to treat stage II 

Radiation therapy
1. Primary radiation treatment of the endometrial cancer is indi-

2. Adjuvant radiation therapy is not indicated to treat patients 

3. Patients with a medium risk of local recurrence (endometrioid 

4. Patients with a high risk of local recurrence (stage Ib, G3 and 

5. Patients with advanced stage III disease should receive adju-

6. Adjuvant or palliative radiation therapy (teletherapy) may be 

Emons G and Mallmann P. Recommendations for the ... Geburtsh Frauenheilk 2014; 74: 244–247
7. Randomized studies found a significant reduction of locoregional recurrence in patients with stage I and II disease after adjuvant radiation therapy, but this had no significant impact on overall survival. The available data for advanced disease is insufficient to permit any recommendations to be made.

Systemic adjuvant therapy
1. Patients should not receive adjuvant endocrine therapy with gestagens.
2. Patients with stage IB G3, II and III disease and all patients with serous or clear cell endometrial cancer should receive chemotherapy sequential to radiation therapy (brachytherapy and/or teletherapy). The most studied chemotherapy regimen consists of a combination of platinum-based chemotherapy plus paclitaxel.
3. Patients with stage IVA can undergo chemotherapy and/or sequential radiation therapy after surgery. The most studied chemotherapy regimen consists of a combination of platinum-based chemotherapy plus paclitaxel. However, the optimal combination and sequence have not yet been defined for this combination.

Palliative systemic therapy
1. Endocrine therapy with gestagens should be offered to patients with estrogen and/or progesterone receptor-positive cancer who have inoperable recurrence or metastasis not amenable to radiation therapy if metastases are not acutely life-threatening.
2. Palliative chemotherapy can be offered to patients who present with disease progression despite endocrine therapy and to patients with receptor-negative tumors or acutely life-threatening tumors. Effective substances include anthracyclines, platinum derivatives and taxanes.
3. Combination chemotherapy regimens have better response rates and progression-free survival rates compared to monotherapies, but the benefits in terms of overall survival are only marginal. The combination of carboplatin/paclitaxel should be used if the patient can sufficiently tolerate the regimen as the efficacy of this regimen is the same as for the combination of adriamycin/cisplatin/paclitaxel but toxicity is lower.

Recurrence and metastasis
1. Surgery is the primary treatment for resectable locoregional and intra-abdominal recurrence if complete resection is possible.
2. Radiation therapy is the treatment of choice for inoperable locoregional recurrence.
3. Palliative systemic therapy can be offered to patients if surgery or radiation therapy of the local recurrence are not possible or are not oncologically useful.
4. If extra-abdominal distant metastasis is present, the choice of therapy – surgery, radiation therapy or systemic therapy – must be decided individually, on a case-by-case basis.

Supportive therapy
1. Guideline-based supportive therapy to prevent or minimize therapy- or tumor-induced symptoms is necessary.

Table 2  Uterus Commission of AGO of the DGGG (German Society for Gynecology and Obstetrics) and the DKG (German Cancer Society).

<table>
<thead>
<tr>
<th>Gynecological Oncology</th>
<th>Radiation Oncology</th>
<th>Pathology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Dr. D. Schmidt, Mannheim</td>
<td>Prof. Dr. S. Marnitz, Berlin</td>
<td>Prof. Dr. L. C. Horn, Leipzig</td>
</tr>
<tr>
<td>Prof. Dr. L. Kiesel, Münster</td>
<td>Prof. Dr. V. Strnad, Erlangen</td>
<td>Prof. Dr. D. Schmidt, Mannheim</td>
</tr>
<tr>
<td>Prof. Dr. R. Kimmig, Essen</td>
<td>Prof. Dr. D. Vordermark, Halle/Saale</td>
<td>Priv.-Doz. Dr. C. Köhler, Berlin</td>
</tr>
<tr>
<td>Prof. Dr. W. Lichtenegger, Berlin</td>
<td>Priv.-Doz. Dr. D. Rein, Cologne (Deputy Commission spokesman)</td>
<td>Prof. Dr. P. Mallmann, Cologne (Commission spokesman)</td>
</tr>
<tr>
<td>Prof. Dr. P. Mallmann, Cologne (Commission spokesman)</td>
<td>Priv.-Doz. Dr. H. Pilch, Cologne</td>
<td>Priv.-Doz. Dr. E. Steiner, Rüsselsheim</td>
</tr>
<tr>
<td>Priv.-Doz. Dr. C. Tempfer, Herne</td>
<td>Dr. H. Strauss, Halle/Saale</td>
<td>Prof. Dr. D. Vordermark, Halle/Saale (ARO representative)</td>
</tr>
<tr>
<td>Prof. Dr. U. Ulrich, Berlin</td>
<td>Prof. Dr. G. Emons, Göttingen</td>
<td>Prof. Dr. C. Tempfer, Herne</td>
</tr>
<tr>
<td>Prof. Dr. P. Mallmann, Cologne (Commission spokesman)</td>
<td>Prof. Dr. D. Schmidt, Mannheim</td>
<td>Priv.-Doz. Dr. M. Fleisch, Düsseldorf</td>
</tr>
<tr>
<td>Priv.-Doz. Dr. M. Fleisch, Düsseldorf</td>
<td>Prof. Dr. D. Vordermark, Halle/Saale</td>
<td>Priv.-Doz. Dr. C. Köhler, Berlin</td>
</tr>
<tr>
<td>Priv.-Doz. Dr. C. Köhler, Berlin</td>
<td>Prof. Dr. D. Vordermark, Halle/Saale (ARO representative)</td>
<td>Prof. Dr. D. Schmidt, Mannheim</td>
</tr>
</tbody>
</table>

Psycho-oncology

1. Offering psycho-oncological care to patients with endometrial cancer is an integral part of oncological diagnosis, treatment, rehabilitation and follow-up care and requires interdisciplinary cooperation.
2. Patients should be informed early on about the different types of in-patient and outpatient psycho-oncological support available and should receive professional psycho-oncological care if required.
3. The patient’s quality of life must be assessed regularly during treatment, rehabilitation and follow-up, as this allows physicians to assess whether psycho-oncological action is required.

Rehabilitation

1. All patients must be informed and advised by their attending physician about the statutory options for rehabilitation/convalescence following in-patient treatment and the available outpatient rehabilitation opportunities.

Follow-up

1. As early detection of local recurrence is necessary for curative resection, patients should be followed up every 3 months in the first 2–3 years after primary therapy by speculum examination, vaginal and rectal examination, and ultrasound, where required.
2. Additional imaging for diagnostic purposes is only necessary for symptomatic patients.
3. Follow-up consultations should address the topics listed below:
   - transient and long-term impact of disease and therapy
   - psycho-oncological/psychotherapeutic treatment options
   - sexuality and relationships
   - quality of life

These recommendations are also available on the AGO website (www.ago-online.de).

Conflict of Interest

There is no conflict of interest.