Explanation and Use of the Colposcopy Terminology of the IFCPC (International Federation for Cervical Pathology and Colposcopy) Rio 2011

Erläuterung und Anwendung der kolposkopischen Nomenklatur der IFCPC (International Federation for Cervical Pathology and Colposcopy) Rio 2011

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Abstract
In July 2012 a revised terminology on colposcopic examinations of the cervix uteri was adopted by IFCPC. Central aspect is a description of characteristics that should aid in the definition of the disease entity cervix uteri. The nomenclature is built up in such a way that the examiner can evaluate colposcopic criteria according to a specific scheme. Firstly it is assessed whether the colposcopy is representative. Then it should be clarified whether or not the findings are normal. If the findings are not normal but rather abnormal the severity of the lesion is classified according to the so-called grade 1 (minor change) and grade 2 findings (major change). Specific abnormal findings such as leukoplakia, erosion and Lugol’s findings are also not defined at this point. Characteristics suspicious for an invasion are described separately, in particular, atypical vessel patterns are mentioned here. As already held in the previous revised nomenclature (Barcelona), various findings are described in a last group: congenital anomalies, condylomas (papillomas), endometriosis, polyps (ectocervical, endocervical), inflammation, stenosis, postoperative changes (scarred portio, vaginal stump).

Zusammenfassung

Introduction
The new and thus currently valid colposcopic nomenclature was published on 1 July 2012 in the journal “Obstetrics & Gynecology” [1]. This had been preceded by the appointment of a nomenclature committee in 2008 on the occasion of the world congress in Oakland, New Zealand. After extensive literature searches, several meetings and detailed discussions in the website of IFCPC, the new version of the nomenclature was accepted at the world congress in Rio de Janeiro in July 2011.

The new nomenclature 2011 consists of 3 parts:
1. Nomenclature concerning the cervix uteri (Tab. 1) including an appendix on the definition of types of excision (Table 2).
2. Nomenclature for the vagina.
3. Nomenclature for the vulva which was formulated in cooperation with the International So-
We appeal to all interested colleagues to send their comments to the IFCPC. This will be done at the next meeting of the nomenclature commission of the ISSVD. These will then be introduced at the next meeting of the nomenclature commission of the IFCPC.

The aim of the following explanations is to create a relationship between the new nomenclature and the daily routine of colposcopic examinations. At the same time, the authors want to point out that a common foundation for the use of the now internationally valid colposcopic nomenclature of cervix uteri in the German-speaking countries has been published [9]. The boards of AGK, AGPCP and AGKOL have thus recognised the validity of the colposcopic nomenclature 2011 and recommend their members to use them in their daily routine.

We appeal to all interested colleagues to send their comments and ideas to their management boards. These will then be introduced at the next meeting of the nomenclature commission of the IFCPC.

It should be emphasised that the aim of the nomenclature commission is to develop an evidence-based terminology. It is also apparent that the commitment of the IFCPC was to promote a closer relationship to therapeutic procedures. Examples of this are the introduction of a grading for the visibility of the columnar-squamous epithelium boundary and the types of excision mentioned in the appendix (Table 2). In the authors’ opinion this step is to be welcomed as it leads to a clearer position with regard to individualised therapy planning and performance. See also the corresponding German-language groundwork (e.g., Kühn 2011 [7], Kühn et al. 2012 [8]). Overall, the new colposcopic nomenclature more clearly emphasises the significance of colposcopic examinations than did the preceding version.

Especially gratifying is the fact that two current publications from Germany-speaking countries (Scheungraber et al. [3,4]) have been duly incorporated in the revision of the nomenclature. It should also be mentioned that the practically important differentiation between the localisation of lesions inside and outside of the transformation zones has been explicitly described in the nomenclature and also that the significance of the surface expansion of dysplasia in cervix uteri has been scientifically confirmed by publications from German-speaking countries [10,11].

The following paragraphs those aspects are mentioned that have changed in comparison to the previously valid terminology (Barcelona 2002 [6]) or, respectively have been included for the first time.

Table 1 Colposcopic nomenclature of cervix uteri (IFCPC 2011), after [9].

<table>
<thead>
<tr>
<th>IFCPC 2011</th>
<th>Rio de Janeiro</th>
<th>Colposcopic nomenclature for cervix uteri</th>
</tr>
</thead>
<tbody>
<tr>
<td>General: adequate/inadequate: reason: (e.g., inflammation, bleeding, scars) columnar – squamous epithelium – border (CSB): completely/partially/not visible transformation zone (type 1, 2, 3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Normal finding</td>
<td>original squamous epithelium: mature</td>
<td>atrophic columnar epithelium</td>
</tr>
<tr>
<td></td>
<td>ectopy</td>
<td>metaplastic squamous epithelium</td>
</tr>
<tr>
<td></td>
<td>ovula Nabothii</td>
<td>excretory ducts of glands</td>
</tr>
<tr>
<td></td>
<td>deciduosis in pregnancy</td>
<td></td>
</tr>
<tr>
<td>Abnormal finding</td>
<td>general: localisation of the lesion: inside or outside the epithelium, given according to clock face size of the lesion: number of affected quadrants percent of the cervix</td>
<td></td>
</tr>
<tr>
<td>grade 1 (minor change)</td>
<td>delicate acetic-white epithelium, delicate mosaic, delicate puncturing</td>
<td></td>
</tr>
<tr>
<td>grade 2 (major change)</td>
<td>intensive acetic-white epithelium coarse mosaic, coarse puncturing prominent excretory ducts of glands sharp borders inner border sign, ridge sign rapid acetic acid reaction</td>
<td></td>
</tr>
<tr>
<td>not specific</td>
<td>leukoplakia (keratosis, hyperkeratosis), erosion Lugol’s reaction (Schiller test)</td>
<td></td>
</tr>
<tr>
<td>Suspected invasion</td>
<td>atypical vessels additional findings: vessels that bleed on contact, irregular surfaces, exophytic lesion, necrosis, ulcer, tumour</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous findings</td>
<td>congenital transformation zones (CTZ), congenital anomalies, condylomas (papillomas), endometriosis, polyps (ectocervical, endocervical) inflammation, stenosis, postoperative changes (scarred portio, vaginal stump)</td>
<td></td>
</tr>
</tbody>
</table>

Table 2 Addendum to colposcopic nomenclature for cervix uteri (IFCPC 2011), after [9].

<table>
<thead>
<tr>
<th>IFCPC 2011</th>
<th>Colposcopic nomenclature</th>
<th>Cervix uteri addendum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excision types</td>
<td>type 1 – flat</td>
<td>type 2 – medium</td>
</tr>
<tr>
<td></td>
<td>type 3 – steep</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>height (length): distance from cervical to vaginal resection border (see Fig. below)</td>
<td></td>
</tr>
<tr>
<td>of conisation specimens</td>
<td>width: distance from stromal resection border to epithelial surface</td>
<td></td>
</tr>
<tr>
<td></td>
<td>circumference (optional): perimeter of the opened cone specimen</td>
<td></td>
</tr>
</tbody>
</table>

red: height (length) of the conisation specimen, blue: thickness of the cone
Nomenclature of Cervix Uteri

Some basic preliminary remarks of fundamental importance need to be made about the colposcopic nomenclature for cervix uteri and the vagina. Is the colposcopic examination “adequate” or “inadequate with reasons”? This replaces the term “satisfactory/unsatisfactory colposcopy”. This change should emphasise that in the case of an inadequate colposcopy due to, e.g., inflammation, a control examination has to be performed after therapy. Moving the evaluable and general significance of a colposcopic examination to the beginning of the nomenclature emphasises the relative values.

This applies especially to the visualisation of the columnar-squamous epithelium border and thus the classification of the transformation zones into types 1–3. The two classifications certainly overlap but represent two different aspects. The columnar-squamous epithelium border is the “inner” border for the transformation zone (mature columnar epithelium border) and can, accordingly, be “completely”, “partially” or even “not visible”. In the transformation zones 1 and 2 the columnar-squamous epithelium border is completely visible. As mentioned above it was the intention of the IFCPC nomenclature committee to make the planning of possibly necessary therapeutic options better. Evaluation of the above two aspects does make this better, e.g., for the targeted excision of abnormal areas (excision type).

For normal findings, an extension has also been made: atrophic squamous epithelium, changes in pregnancy (deciduosis) and...
metaplasia. It should be noted critically that making the diagnosis of metaplasia actually necessitates a prior histological clarification in order to prove the existence of the metaplasia and exclude other functional findings, e.g., hyperplastic or polypous ectopy.

In abnormal colposcopic findings, the localisation of the lesion – inside or outside the transformation zone – has been re-included in the nomenclature and supplemented with the terms “inner border” (border within the acetic-white epithelium) and “ridge sign” [3,4]. The grading into “minor” and “major changes” that was already defined in the Rome 1991 nomenclature [5] has been retained. “Minor changes” can also be described as grade 1 changes (Fig. 1) and “major changes” as grade 2 changes (Figs. 2 to 5).

Newly taken into consideration is the interpretation of the dynamics of the acetic acid reaction in cervix uteri. It is pointed out that a rapid and intensive, positive acetic acid reaction must be classified as “major changes”. It should be noted that the slow development of a positive acetic acid reaction, which in individual cases may require a reaction time of up to 3 minutes, belongs to the “major changes” when the other “major change” criteria are applicable.

As already mentioned in the introduction, the committee could not agree to classify the term leukoplakia into the groups of minor or, respectively, major changes. Leukoplakia, erosion and Lugol’s reaction (Schiller test) are classified as “non specific”. In particular, the classification of Lugol’s reaction as an unspecific examination method emphasises the necessity of the preoperative application of an acetic acid test. Lugol’s reaction alone is not a suitable measure for the preoperative planning of the excision line.

An extension is found in cases of suspected invasion in that atypical vessels are now merely defined as invasion characteristics in contrast to previous neoclature suggestions. So far atypical vessels were assigned to the “major change” lesions. In addition, further clinical aspects have been incorporated such as, for example, vessels that bleed upon contact.

Under the so-called miscellaneous findings we now find the “congenital transformation zone, CTZ” and postoperative changes such as “scarred portio” (after conisation) or “vaginal stump”. An exact description of the term CTZ is still lacking and will be subject of further discussion in the IFCPC nomenclature commission.

Addendum: Excision Types and Conisation Specimens

Three different excision types and also the dimensions of conisation specimens have been added as an addendum (Table 2). The excision types represent a practical relationship to the types of transformation zones and are intended to replace the further use of widely differing excision terms by descriptions of the excisions performed and not the methods themselves.

Conflict of Interest

None.

References

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