

WEBVTT

NOTE duration:"00:53:32"

NOTE recognizability:0.767

NOTE language:en-us

NOTE Confidence: 0.970962414

00:00:00.000 --> 00:00:03.080 Good afternoon. Thank you for joining.

NOTE Confidence: 0.970962414

00:00:03.080 --> 00:00:06.600 We're going to get started right on time.

NOTE Confidence: 0.970962414

00:00:06.600 --> 00:00:09.456 I'm so excited to have Doctor

NOTE Confidence: 0.970962414

00:00:09.456 --> 00:00:11.360 Diana Esther Rossi here.

NOTE Confidence: 0.970962414

00:00:11.360 --> 00:00:14.240 It is my great pleasure to introduce

NOTE Confidence: 0.970962414

00:00:14.240 --> 00:00:16.880 her Doctor Esther Diana Rossi,

NOTE Confidence: 0.970962414

00:00:16.880 --> 00:00:18.600 whose fields of expertise

NOTE Confidence: 0.970962414

00:00:18.600 --> 00:00:20.040 and research are cytology,

NOTE Confidence: 0.970962414

00:00:20.040 --> 00:00:21.560 endocrine pathology and head

NOTE Confidence: 0.970962414

00:00:21.560 --> 00:00:22.692 and neck pathology. Dr.

NOTE Confidence: 0.970962414

00:00:22.692 --> 00:00:25.128 Rossi obtained her medical degree in

NOTE Confidence: 0.970962414

00:00:25.128 --> 00:00:26.984 anatomic pathology training at the

NOTE Confidence: 0.970962414

00:00:26.984 --> 00:00:28.952 University of Sacred Heart in Rome.

NOTE Confidence: 0.970962414

00:00:28.960 --> 00:00:30.960 Additionally, there she pursued APHD.

NOTE Confidence: 0.970962414

00:00:30.960 --> 00:00:33.128 In endocrine science and

NOTE Confidence: 0.970962414

00:00:33.128 --> 00:00:34.754 experimental metabolic endocrinology.

NOTE Confidence: 0.970962414

00:00:34.760 --> 00:00:36.920 Her thesis discussed molecular applications,

NOTE Confidence: 0.970962414

00:00:36.920 --> 00:00:38.825 specifically the B RAF mutation

NOTE Confidence: 0.970962414

00:00:38.825 --> 00:00:40.730 and papillary carcinoma and liquid

NOTE Confidence: 0.970962414

00:00:40.794 --> 00:00:42.758 based thyroid aspiration biopsies.

NOTE Confidence: 0.970962414

00:00:42.760 --> 00:00:44.080 During her residency training,

NOTE Confidence: 0.970962414

00:00:44.080 --> 00:00:46.403 Doctor Rossi was a visiting fellow at

NOTE Confidence: 0.970962414

00:00:46.403 --> 00:00:48.137 Upenn and Hahnemann in Philadelphia over

NOTE Confidence: 0.970962414

00:00:48.137 --> 00:00:50.279 the course of three consecutive years.

NOTE Confidence: 0.970962414

00:00:50.280 --> 00:00:51.624 Since that time,

NOTE Confidence: 0.970962414

00:00:51.624 --> 00:00:53.926 she has worked closely under the

NOTE Confidence: 0.970962414

00:00:53.926 --> 00:00:55.341 mentorship in an active collaboration

NOTE Confidence: 0.970962414

00:00:55.341 --> 00:00:57.360 with the late Doctor Virginia Volvosi,

NOTE Confidence: 0.970962414

00:00:57.360 --> 00:00:59.406 prior faculty member here in our

NOTE Confidence: 0.970962414

00:00:59.406 --> 00:01:01.754 department and well known as an icon

NOTE Confidence: 0.970962414

00:01:01.754 --> 00:01:03.596 in the field of endocrine pathology,

NOTE Confidence: 0.970962414

00:01:03.600 --> 00:01:05.358 specifically thyroid pathology.

NOTE Confidence: 0.970962414

00:01:05.358 --> 00:01:07.116 After residency training,

NOTE Confidence: 0.970962414

00:01:07.120 --> 00:01:09.226 Doctor Rossi stayed at Catholic University

NOTE Confidence: 0.970962414

00:01:09.226 --> 00:01:11.280 for her first academic appointment

NOTE Confidence: 0.970962414

00:01:11.280 --> 00:01:13.044 and continues to practice in the

NOTE Confidence: 0.970962414

00:01:13.044 --> 00:01:14.919 Division of Anatomic Pathology and Histology.

NOTE Confidence: 0.970962414

00:01:14.920 --> 00:01:16.279 As full Professor,

NOTE Confidence: 0.970962414

00:01:16.280 --> 00:01:17.780 Doctor Rossi is an active

NOTE Confidence: 0.970962414

00:01:17.780 --> 00:01:18.680 in International Society.

NOTE Confidence: 0.970962414

00:01:18.680 --> 00:01:21.186 She serves in many roles in Use

NOTE Confidence: 0.970962414

00:01:21.186 --> 00:01:23.079 Cap Companion Society since 2019.

NOTE Confidence: 0.970962414

00:01:23.080 --> 00:01:25.342 Some include the Use Cap Foundation

NOTE Confidence: 0.970962414

00:01:25.342 --> 00:01:26.473 Abstract Review Committee,

NOTE Confidence: 0.970962414

00:01:26.480 --> 00:01:29.720 Faculty for the Continuing Education Program.

NOTE Confidence: 0.970962414

00:01:29.720 --> 00:01:32.120 She's head of membership for the PAP Society,

NOTE Confidence: 0.970962414

00:01:32.120 --> 00:01:33.560 sits on the Executive Board,

NOTE Confidence: 0.970962414

00:01:33.560 --> 00:01:35.330 and just recently became president-elect

NOTE Confidence: 0.970962414

00:01:35.330 --> 00:01:37.960 of the PAP Society of Cytopathology,

NOTE Confidence: 0.970962414

00:01:37.960 --> 00:01:40.025 most notably as our first

NOTE Confidence: 0.970962414

00:01:40.025 --> 00:01:41.677 international candidates to serve

NOTE Confidence: 0.970962414

00:01:41.677 --> 00:01:44.160 in the Use Cap Companion Society.

NOTE Confidence: 0.970962414

00:01:44.160 --> 00:01:45.784 She's delivered short courses

NOTE Confidence: 0.970962414

00:01:45.784 --> 00:01:47.814 on salivary gland cytology since

NOTE Confidence: 0.970962414

00:01:47.814 --> 00:01:49.829 2018 and will continue next week

NOTE Confidence: 0.970962414

00:01:49.829 --> 00:01:51.680 in Baltimore at the Use Cap.

NOTE Confidence: 0.970962414

00:01:51.680 --> 00:01:53.425 She's an invited speaker around

NOTE Confidence: 0.970962414

00:01:53.425 --> 00:01:55.170 the world for major international

NOTE Confidence: 0.970962414

00:01:55.226 --> 00:01:56.918 societies including the International

NOTE Confidence: 0.970962414

00:01:56.918 --> 00:01:59.033 Academy of Cytopathology Use CAP,

NOTE Confidence: 0.970962414

00:01:59.040 --> 00:02:00.980 the American Society of Cytopathology

NOTE Confidence: 0.970962414

00:02:00.980 --> 00:02:04.293 CAP and has Co directed courses at joint

NOTE Confidence: 0.970962414

00:02:04.293 --> 00:02:06.430 international meetings with the ASC.

NOTE Confidence: 0.970962414

00:02:06.430 --> 00:02:08.380 She's published over 150 manuscripts

NOTE Confidence: 0.970962414

00:02:08.380 --> 00:02:10.506 and high impact peer reviewed

NOTE Confidence: 0.970962414

00:02:10.506 --> 00:02:12.518 journals and the cytopathology,

NOTE Confidence: 0.970962414

00:02:12.520 --> 00:02:14.200 endocrine,

NOTE Confidence: 0.970962414

00:02:14.200 --> 00:02:16.240 head and neck surgical and molecular

NOTE Confidence: 0.970962414

00:02:16.240 --> 00:02:16.558 literature.

NOTE Confidence: 0.970962414

00:02:16.558 --> 00:02:18.784 Over half of those were first author

NOTE Confidence: 0.970962414

00:02:18.784 --> 00:02:21.251 and has published over a dozen book

NOTE Confidence: 0.970962414

00:02:21.251 --> 00:02:23.505 chapters more recently focusing on the

NOTE Confidence: 0.970962414

00:02:23.505 --> 00:02:25.233 classification systems of reporting

NOTE Confidence: 0.970962414

00:02:25.233 --> 00:02:27.393 thyroid and salivary gland cytology.

NOTE Confidence: 0.970962414

00:02:27.400 --> 00:02:28.088 Since 2017,

NOTE Confidence: 0.970962414

00:02:28.088 --> 00:02:30.152 she has served Associate editor for  
NOTE Confidence: 0.970962414

00:02:30.152 --> 00:02:32.442 the Cancer Cytopathology and editor of  
NOTE Confidence: 0.970962414

00:02:32.442 --> 00:02:34.752 the Atlas of Salivary Gland Cytology.  
NOTE Confidence: 0.970962414

00:02:34.760 --> 00:02:36.685 She's lead author of the 5th edition  
NOTE Confidence: 0.970962414

00:02:36.685 --> 00:02:38.280 of WHO for Pediatric Endocrine  
NOTE Confidence: 0.970962414

00:02:38.280 --> 00:02:40.040 Head and Neck Heme and  
NOTE Confidence: 0.843508546666667

00:02:40.040 --> 00:02:42.640 Lymphoid Blue Books. Doctor  
NOTE Confidence: 0.846935621764706

00:02:42.640 --> 00:02:44.859 Rossi is a leading expert in the  
NOTE Confidence: 0.846935621764706

00:02:44.859 --> 00:02:46.223 cytopathology classification and management  
NOTE Confidence: 0.846935621764706

00:02:46.223 --> 00:02:48.359 of salivary gland lesions and neoplasms.  
NOTE Confidence: 0.846935621764706

00:02:48.360 --> 00:02:51.020 She's Co editor with Doctor Fackin of  
NOTE Confidence: 0.846935621764706

00:02:51.020 --> 00:02:53.240 the New Milan System for classification  
NOTE Confidence: 0.846935621764706

00:02:53.240 --> 00:02:54.932 of salivary lesions and editor in  
NOTE Confidence: 0.846935621764706

00:02:54.932 --> 00:02:57.029 chief of the 2nd edition of the  
NOTE Confidence: 0.846935621764706

00:02:57.029 --> 00:02:58.779 Milan System published last year.  
NOTE Confidence: 0.846935621764706

00:02:58.779 --> 00:03:00.592 She joins us today to share her

NOTE Confidence: 0.846935621764706  
00:03:00.592 --> 00:03:02.278 experience in salivary gland lesions  
NOTE Confidence: 0.846935621764706  
00:03:02.280 --> 00:03:03.885 and the Milan classification System.  
NOTE Confidence: 0.846935621764706  
00:03:03.885 --> 00:03:06.165 It is truly our honor to host Doctor  
NOTE Confidence: 0.846935621764706  
00:03:06.165 --> 00:03:08.157 Rossi for Yale ground rounds today,  
NOTE Confidence: 0.846935621764706  
00:03:08.160 --> 00:03:09.508 an exemplary academic pathologist  
NOTE Confidence: 0.846935621764706  
00:03:09.508 --> 00:03:10.519 of our times.  
NOTE Confidence: 0.858531133333333  
00:03:10.720 --> 00:03:12.316 Thank you so much. Thank you,  
NOTE Confidence: 0.51316369  
00:03:13.080 --> 00:03:13.720 Thank you so much.  
NOTE Confidence: 0.7031313  
00:03:15.800 --> 00:03:18.680 Thank you so much for being here  
NOTE Confidence: 0.812456545294118  
00:03:18.680 --> 00:03:21.830 and to listen that to this talk  
NOTE Confidence: 0.812456545294118  
00:03:21.830 --> 00:03:24.928 about the Milan system and updates  
NOTE Confidence: 0.812456545294118  
00:03:24.928 --> 00:03:28.185 from the 2nd edition, no conflict of  
NOTE Confidence: 0.812456545294118  
00:03:28.185 --> 00:03:30.315 interest as you seen this morning.  
NOTE Confidence: 0.812456545294118  
00:03:30.320 --> 00:03:31.280 I'm really keen on movies,  
NOTE Confidence: 0.812456545294118  
00:03:31.280 --> 00:03:34.360 So when I think about the Milan system,  
NOTE Confidence: 0.812456545294118

00:03:34.360 --> 00:03:37.040 but in general classification system  
NOTE Confidence: 0.812456545294118

00:03:37.040 --> 00:03:39.720 comparing with the standard psychology,  
NOTE Confidence: 0.812456545294118

00:03:39.720 --> 00:03:41.076 I think of this movie Mrs.  
NOTE Confidence: 0.812456545294118

00:03:41.080 --> 00:03:44.240 Love Fire because she represented  
NOTE Confidence: 0.812456545294118

00:03:44.240 --> 00:03:47.400 the other same side hub,  
NOTE Confidence: 0.812456545294118

00:03:47.400 --> 00:03:48.368 Robin Williams.  
NOTE Confidence: 0.812456545294118

00:03:48.368 --> 00:03:51.272 But why the development of an  
NOTE Confidence: 0.812456545294118

00:03:51.272 --> 00:03:52.240 international system?  
NOTE Confidence: 0.812456545294118

00:03:52.240 --> 00:03:55.200 If you think when we started there with  
NOTE Confidence: 0.812456545294118

00:03:55.200 --> 00:03:57.353 this classification which was in 2015,  
NOTE Confidence: 0.812456545294118

00:03:57.353 --> 00:04:00.318 there were classification for thyroid,  
NOTE Confidence: 0.812456545294118

00:04:00.320 --> 00:04:02.116 for urine, for breast,  
NOTE Confidence: 0.812456545294118

00:04:02.116 --> 00:04:04.810 but nothing for salivary and maybe  
NOTE Confidence: 0.812456545294118

00:04:04.893 --> 00:04:07.209 this was you because the salivary  
NOTE Confidence: 0.812456545294118

00:04:07.209 --> 00:04:09.842 is a little bit raver comparing  
NOTE Confidence: 0.812456545294118

00:04:09.842 --> 00:04:12.866 with this other psychology and also

NOTE Confidence: 0.812456545294118  
00:04:12.866 --> 00:04:15.132 because it's a little bit difficult.  
NOTE Confidence: 0.812456545294118  
00:04:15.132 --> 00:04:17.704 In fact, we have significant  
NOTE Confidence: 0.812456545294118  
00:04:17.704 --> 00:04:19.000 morphological overlapping,  
NOTE Confidence: 0.812456545294118  
00:04:19.000 --> 00:04:22.400 but we really were aware that we needed  
NOTE Confidence: 0.812456545294118  
00:04:22.400 --> 00:04:25.466 to put the different entities into  
NOTE Confidence: 0.812456545294118  
00:04:25.466 --> 00:04:28.796 categories linked with the risk of  
NOTE Confidence: 0.812456545294118  
00:04:28.796 --> 00:04:31.196 malignancy and specific strategies.  
NOTE Confidence: 0.812456545294118  
00:04:31.200 --> 00:04:33.200 And if you go back to the past,  
NOTE Confidence: 0.812456545294118  
00:04:33.200 --> 00:04:36.664 even at the end of the of the 18th century,  
NOTE Confidence: 0.812456545294118  
00:04:36.664 --> 00:04:38.537 La Wasier, a French chemist,  
NOTE Confidence: 0.812456545294118  
00:04:38.537 --> 00:04:41.190 underline that in order to improve the  
NOTE Confidence: 0.812456545294118  
00:04:41.258 --> 00:04:43.996 science, we need to improve the language.  
NOTE Confidence: 0.812456545294118  
00:04:44.000 --> 00:04:45.472 But also more recently,  
NOTE Confidence: 0.812456545294118  
00:04:45.472 --> 00:04:46.304 Leopold cast,  
NOTE Confidence: 0.812456545294118  
00:04:46.304 --> 00:04:48.800 one of the fathers of psychology,  
NOTE Confidence: 0.812456545294118

00:04:48.800 --> 00:04:51.446 reported in his book that the  
NOTE Confidence: 0.812456545294118

00:04:51.446 --> 00:04:54.114 reports should be expressed in a  
NOTE Confidence: 0.812456545294118

00:04:54.114 --> 00:04:56.574 simple language that can be easily  
NOTE Confidence: 0.812456545294118

00:04:56.574 --> 00:04:58.640 understood by the clinicians.  
NOTE Confidence: 0.812456545294118

00:04:58.640 --> 00:05:00.824 Also in one of the 1st edition  
NOTE Confidence: 0.812456545294118

00:05:00.824 --> 00:05:03.080 of The Who is the logical typing  
NOTE Confidence: 0.812456545294118

00:05:03.080 --> 00:05:04.400 of salivary gland tumors?  
NOTE Confidence: 0.812456545294118

00:05:04.400 --> 00:05:07.650 In 1972 in the general preface  
NOTE Confidence: 0.812456545294118

00:05:07.650 --> 00:05:10.970 there was a note reporting that an  
NOTE Confidence: 0.812456545294118

00:05:10.970 --> 00:05:12.689 internationally agreed classification  
NOTE Confidence: 0.812456545294118

00:05:12.689 --> 00:05:16.630 of tumor acceptable and like all the  
NOTE Confidence: 0.812456545294118

00:05:16.630 --> 00:05:18.614 different physicians would enable  
NOTE Confidence: 0.812456545294118

00:05:18.614 --> 00:05:21.842 cancer workers are all around the world.  
NOTE Confidence: 0.812456545294118

00:05:21.842 --> 00:05:24.326 When we started with this classification  
NOTE Confidence: 0.812456545294118

00:05:24.326 --> 00:05:26.310 now there were some editorials  
NOTE Confidence: 0.812456545294118

00:05:26.310 --> 00:05:28.554 such as this by Mandeep Mawa,

NOTE Confidence: 0.812456545294118

00:05:28.560 --> 00:05:31.760 a British surgeon emphasizing this.

NOTE Confidence: 0.812456545294118

00:05:31.760 --> 00:05:34.196 Is it time we adopted the

NOTE Confidence: 0.812456545294118

00:05:34.196 --> 00:05:36.361 classification for priority but in

NOTE Confidence: 0.812456545294118

00:05:36.361 --> 00:05:38.676 general for salivary gland setology?

NOTE Confidence: 0.812456545294118

00:05:38.680 --> 00:05:40.384 And the answer is yes,

NOTE Confidence: 0.812456545294118

00:05:40.384 --> 00:05:42.755 because when we started in 2015,

NOTE Confidence: 0.812456545294118

00:05:42.755 --> 00:05:45.800 there was a really a reporting confusion,

NOTE Confidence: 0.812456545294118

00:05:45.800 --> 00:05:48.656 confusion for salivary setology,

NOTE Confidence: 0.812456545294118

00:05:48.656 --> 00:05:52.226 diversity of diagnostic categories or

NOTE Confidence: 0.812456545294118

00:05:52.226 --> 00:05:55.677 discrete reports without categories or

NOTE Confidence: 0.812456545294118

00:05:55.677 --> 00:05:59.637 even surgical pathology terminology use on.

NOTE Confidence: 0.812456545294118

00:05:59.640 --> 00:06:01.795 We started with this classification

NOTE Confidence: 0.812456545294118

00:06:01.795 --> 00:06:05.173 and this idea during a meeting in a

NOTE Confidence: 0.812456545294118

00:06:05.173 --> 00:06:07.498 Bologna in two time February 2015.

NOTE Confidence: 0.812456545294118

00:06:07.498 --> 00:06:10.424 And then I shared this idea during

NOTE Confidence: 0.812456545294118

00:06:10.424 --> 00:06:12.473 the Youth Cup 2015 in Boston.  
NOTE Confidence: 0.812456545294118

00:06:12.473 --> 00:06:14.885 We were in the lobby of the Hilton  
NOTE Confidence: 0.812456545294118

00:06:14.885 --> 00:06:15.797 in the bar.  
NOTE Confidence: 0.812456545294118

00:06:15.800 --> 00:06:18.752 So just think what might happen in a bar.  
NOTE Confidence: 0.812456545294118

00:06:18.760 --> 00:06:21.280 And we decided all around we  
NOTE Confidence: 0.812456545294118

00:06:21.280 --> 00:06:23.395 were with Doctor Falquin, Dr.  
NOTE Confidence: 0.812456545294118

00:06:23.395 --> 00:06:23.830 Yale,  
NOTE Confidence: 0.812456545294118

00:06:23.830 --> 00:06:24.265 Dr.  
NOTE Confidence: 0.812456545294118

00:06:24.265 --> 00:06:26.875 Wychick that there was a general  
NOTE Confidence: 0.812456545294118

00:06:26.875 --> 00:06:29.902 agreement on the need for a defined  
NOTE Confidence: 0.812456545294118

00:06:29.902 --> 00:06:32.231 set of diagnostic categories for  
NOTE Confidence: 0.812456545294118

00:06:32.231 --> 00:06:35.076 salivary cytology for different reasons,  
NOTE Confidence: 0.812456545294118

00:06:35.080 --> 00:06:37.095 including a clarity of communication  
NOTE Confidence: 0.812456545294118

00:06:37.095 --> 00:06:39.573 which means that the and improvement  
NOTE Confidence: 0.812456545294118

00:06:39.573 --> 00:06:41.913 of cancer risk and also exchange  
NOTE Confidence: 0.812456545294118

00:06:41.913 --> 00:06:43.966 of data across the different

NOTE Confidence: 0.812456545294118  
00:06:43.966 --> 00:06:45.996 institution in a uniform way.  
NOTE Confidence: 0.812456545294118  
00:06:46.000 --> 00:06:47.760 This was the beginning of the Milan system.  
NOTE Confidence: 0.812456545294118  
00:06:47.760 --> 00:06:49.245 But why Milan?  
NOTE Confidence: 0.812456545294118  
00:06:49.245 --> 00:06:51.720 For thyroid we had Bethesda,  
NOTE Confidence: 0.812456545294118  
00:06:51.720 --> 00:06:53.876 For urine we have for urine we  
NOTE Confidence: 0.812456545294118  
00:06:53.876 --> 00:06:56.134 had Paris from the place in which  
NOTE Confidence: 0.812456545294118  
00:06:56.134 --> 00:06:58.024 they met for the first time  
NOTE Confidence: 0.804380996551724  
00:06:58.097 --> 00:06:59.887 for study very I really  
NOTE Confidence: 0.804380996551724  
00:06:59.887 --> 00:07:01.319 wanted an Italian name.  
NOTE Confidence: 0.804380996551724  
00:07:01.320 --> 00:07:03.854 But the occasion was also likely due  
NOTE Confidence: 0.804380996551724  
00:07:03.854 --> 00:07:06.785 to the fact that the first meeting of  
NOTE Confidence: 0.804380996551724  
00:07:06.785 --> 00:07:10.141 the core group of the Milan system was  
NOTE Confidence: 0.804380996551724  
00:07:10.141 --> 00:07:13.153 during the European Congress of Psychology,  
NOTE Confidence: 0.804380996551724  
00:07:13.160 --> 00:07:15.351 which likely, I have to say in  
NOTE Confidence: 0.804380996551724  
00:07:15.351 --> 00:07:18.077 2000 and 15 September was in Milan,  
NOTE Confidence: 0.804380996551724

00:07:18.080 --> 00:07:21.370 so very easy to name this classification  
NOTE Confidence: 0.804380996551724

00:07:21.370 --> 00:07:24.800 after the place Milan and Italian name.  
NOTE Confidence: 0.804380996551724

00:07:24.800 --> 00:07:27.384 The Milan system is so sponsored by the  
NOTE Confidence: 0.804380996551724

00:07:27.384 --> 00:07:29.169 American Society and the International  
NOTE Confidence: 0.804380996551724

00:07:29.169 --> 00:07:31.675 Academy of Setology for the 1st edition.  
NOTE Confidence: 0.804380996551724

00:07:31.680 --> 00:07:34.396 The 2nd is also supported by the  
NOTE Confidence: 0.804380996551724

00:07:34.396 --> 00:07:36.840 European Federation of Setology Society.  
NOTE Confidence: 0.804380996551724

00:07:36.840 --> 00:07:39.297 I really need to to thank especially  
NOTE Confidence: 0.804380996551724

00:07:39.297 --> 00:07:41.511 the American Society and the European  
NOTE Confidence: 0.804380996551724

00:07:41.511 --> 00:07:43.331 Federation of Setology for the  
NOTE Confidence: 0.804380996551724

00:07:43.331 --> 00:07:45.477 amazing job that they did with us.  
NOTE Confidence: 0.804380996551724

00:07:45.480 --> 00:07:47.080 In our my intention, Dr.  
NOTE Confidence: 0.804380996551724

00:07:47.080 --> 00:07:49.648 Faquin and I wanted a practical  
NOTE Confidence: 0.804380996551724

00:07:49.648 --> 00:07:52.394 classification system that would be user  
NOTE Confidence: 0.804380996551724

00:07:52.394 --> 00:07:55.160 friendly and internationally accepted.  
NOTE Confidence: 0.804380996551724

00:07:55.160 --> 00:07:58.960 And also this is an evidence based system.

NOTE Confidence: 0.804380996551724

00:07:58.960 --> 00:08:01.600 We analyse all the cases from

NOTE Confidence: 0.804380996551724

00:08:01.600 --> 00:08:05.208 the 1980 to 2017 when we finished

NOTE Confidence: 0.804380996551724

00:08:05.208 --> 00:08:07.920 it with the prohibition some.

NOTE Confidence: 0.804380996551724

00:08:07.920 --> 00:08:08.444 Of course,

NOTE Confidence: 0.804380996551724

00:08:08.444 --> 00:08:10.278 there are several benefits when we think

NOTE Confidence: 0.804380996551724

00:08:10.278 --> 00:08:11.919 about the uniform reporting system,

NOTE Confidence: 0.804380996551724

00:08:11.920 --> 00:08:13.244 in this case staliberry.

NOTE Confidence: 0.804380996551724

00:08:13.244 --> 00:08:14.237 First of all,

NOTE Confidence: 0.804380996551724

00:08:14.240 --> 00:08:16.500 to improve communication between

NOTE Confidence: 0.804380996551724

00:08:16.500 --> 00:08:18.195 pathologists and clinicians,

NOTE Confidence: 0.804380996551724

00:08:18.200 --> 00:08:21.480 which means improve patient care,

NOTE Confidence: 0.804380996551724

00:08:21.480 --> 00:08:24.780 but also to facilitate scientological

NOTE Confidence: 0.804380996551724

00:08:24.780 --> 00:08:25.440 correlation.

NOTE Confidence: 0.804380996551724

00:08:25.440 --> 00:08:28.065 And to promote of course a research

NOTE Confidence: 0.804380996551724

00:08:28.065 --> 00:08:30.112 into the different fields among

NOTE Confidence: 0.804380996551724

00:08:30.112 --> 00:08:31.808 the different institutions try  
NOTE Confidence: 0.804380996551724

00:08:31.808 --> 00:08:34.200 to speak a common language.  
NOTE Confidence: 0.804380996551724

00:08:34.200 --> 00:08:38.040 Also for research and purposes,  
NOTE Confidence: 0.804380996551724

00:08:38.040 --> 00:08:39.905 let's introduce the past life  
NOTE Confidence: 0.804380996551724

00:08:39.905 --> 00:08:41.397 of the Milan system,  
NOTE Confidence: 0.804380996551724

00:08:41.400 --> 00:08:44.200 the 1st edition and the new zone.  
NOTE Confidence: 0.804380996551724

00:08:44.200 --> 00:08:45.364 I'll be interested.  
NOTE Confidence: 0.804380996551724

00:08:45.364 --> 00:08:47.304 This is the international recently  
NOTE Confidence: 0.804380996551724

00:08:47.304 --> 00:08:49.636 awarded movie with the 2nd edition.  
NOTE Confidence: 0.804380996551724

00:08:49.636 --> 00:08:52.900 The past is represented by the 1st edition  
NOTE Confidence: 0.804380996551724

00:08:52.900 --> 00:08:55.366 which was published in March 2018.  
NOTE Confidence: 0.804380996551724

00:08:55.366 --> 00:08:56.996 As you can see here,  
NOTE Confidence: 0.804380996551724

00:08:57.000 --> 00:08:59.340 10 chapters with definitions  
NOTE Confidence: 0.804380996551724

00:08:59.340 --> 00:09:01.680 criteria as Planetary notes,  
NOTE Confidence: 0.804380996551724

00:09:01.680 --> 00:09:03.655 over 40 contributing authors from  
NOTE Confidence: 0.804380996551724

00:09:03.655 --> 00:09:07.192 all over the world 182 and 82 pages.

NOTE Confidence: 0.804380996551724  
00:09:07.192 --> 00:09:09.632 109 Colour features several downloads  
NOTE Confidence: 0.804380996551724  
00:09:09.632 --> 00:09:11.694 and translations in different  
NOTE Confidence: 0.804380996551724  
00:09:11.694 --> 00:09:15.166 languages and on the right you can  
NOTE Confidence: 0.804380996551724  
00:09:15.256 --> 00:09:17.836 see the diagnostic categories 6 that  
NOTE Confidence: 0.804380996551724  
00:09:17.836 --> 00:09:21.003 we are going to describe soon with  
NOTE Confidence: 0.804380996551724  
00:09:21.003 --> 00:09:24.370 the risk of malignancy for each of  
NOTE Confidence: 0.804380996551724  
00:09:24.468 --> 00:09:27.792 them and the specific management for  
NOTE Confidence: 0.804380996551724  
00:09:27.792 --> 00:09:30.920 each of these diagnostic category.  
NOTE Confidence: 0.804380996551724  
00:09:30.920 --> 00:09:33.265 And really we want to global because  
NOTE Confidence: 0.804380996551724  
00:09:33.265 --> 00:09:35.645 we have gained it worldwide the  
NOTE Confidence: 0.804380996551724  
00:09:35.645 --> 00:09:37.381 acceptance amount the cytopathologist  
NOTE Confidence: 0.804380996551724  
00:09:37.381 --> 00:09:40.226 and you can see the Chinese and  
NOTE Confidence: 0.804380996551724  
00:09:40.226 --> 00:09:41.698 the Japanese Japanese version  
NOTE Confidence: 0.804380996551724  
00:09:41.698 --> 00:09:43.314 of the Milan system,  
NOTE Confidence: 0.804380996551724  
00:09:43.314 --> 00:09:45.936 but there is also a Turkish  
NOTE Confidence: 0.804380996551724

00:09:45.936 --> 00:09:48.600 and the French translation.  
NOTE Confidence: 0.804380996551724

00:09:48.600 --> 00:09:50.874 These are the major topics introduced  
NOTE Confidence: 0.804380996551724

00:09:50.874 --> 00:09:53.274 by the Milan system first edition  
NOTE Confidence: 0.804380996551724

00:09:53.274 --> 00:09:54.898 diagnostic category 6 combined  
NOTE Confidence: 0.804380996551724

00:09:54.898 --> 00:09:57.136 with the risk of malignancy  
NOTE Confidence: 0.804380996551724

00:09:57.136 --> 00:09:59.320 and the management strategies.  
NOTE Confidence: 0.804380996551724

00:09:59.320 --> 00:10:01.288 The definition of a TPA of  
NOTE Confidence: 0.804380996551724

00:10:01.288 --> 00:10:02.600 under term is significance.  
NOTE Confidence: 0.804380996551724

00:10:02.600 --> 00:10:04.847 And the concept of a TPA in  
NOTE Confidence: 0.804380996551724

00:10:04.847 --> 00:10:06.646 general also for salivary cytology  
NOTE Confidence: 0.804380996551724

00:10:06.646 --> 00:10:09.299 as it was present in all the  
NOTE Confidence: 0.804380996551724

00:10:09.299 --> 00:10:11.440 other classification systems.  
NOTE Confidence: 0.804380996551724

00:10:11.440 --> 00:10:14.035 And emphasizing that the important  
NOTE Confidence: 0.804380996551724

00:10:14.035 --> 00:10:16.630 role of ancillary techniques as  
NOTE Confidence: 0.804380996551724

00:10:16.712 --> 00:10:18.472 an additional diagnostic tool  
NOTE Confidence: 0.804380996551724

00:10:18.472 --> 00:10:21.931 school due also to the new upcoming

NOTE Confidence: 0.804380996551724  
00:10:21.931 --> 00:10:25.382 genetic alterations since 2018  
NOTE Confidence: 0.804380996551724  
00:10:25.382 --> 00:10:26.910 / 200 psychological publications  
NOTE Confidence: 0.804380996551724  
00:10:26.910 --> 00:10:29.205 are related to the Milan system  
NOTE Confidence: 0.804380996551724  
00:10:29.205 --> 00:10:30.795 from all over the world.  
NOTE Confidence: 0.804380996551724  
00:10:30.800 --> 00:10:33.368 Most have confirmed the risk of  
NOTE Confidence: 0.804380996551724  
00:10:33.368 --> 00:10:35.080 malignancy for each category,  
NOTE Confidence: 0.800666792307692  
00:10:35.080 --> 00:10:37.705 but mostly there has been a growing  
NOTE Confidence: 0.800666792307692  
00:10:37.705 --> 00:10:40.678 acceptance by the other network clinicians,  
NOTE Confidence: 0.800666792307692  
00:10:40.680 --> 00:10:42.738 which is the most important thing when  
NOTE Confidence: 0.800666792307692  
00:10:42.738 --> 00:10:44.880 you introduce a classification system.  
NOTE Confidence: 0.800666792307692  
00:10:44.880 --> 00:10:48.597 So in this golden age of the Milan system,  
NOTE Confidence: 0.800666792307692  
00:10:48.600 --> 00:10:50.248 why a second edition?  
NOTE Confidence: 0.800666792307692  
00:10:50.248 --> 00:10:52.720 Why should the postman reign twice?  
NOTE Confidence: 0.800666792307692  
00:10:52.720 --> 00:10:55.590 Because we realize from DSO 200 the  
NOTE Confidence: 0.800666792307692  
00:10:55.590 --> 00:10:57.640 publication that there was something  
NOTE Confidence: 0.800666792307692

00:10:57.640 --> 00:11:00.632 that we needed to revise and to refine.  
NOTE Confidence: 0.800666792307692

00:11:00.640 --> 00:11:03.495 The 2nd edition was published  
NOTE Confidence: 0.800666792307692

00:11:03.495 --> 00:11:06.972 in July 2023 with new chapters,  
NOTE Confidence: 0.800666792307692

00:11:06.972 --> 00:11:09.304 including a chapter specifically  
NOTE Confidence: 0.800666792307692

00:11:09.304 --> 00:11:11.787 for ultrasound more and new  
NOTE Confidence: 0.800666792307692

00:11:11.787 --> 00:11:13.100 hotters more pictures.  
NOTE Confidence: 0.800666792307692

00:11:13.100 --> 00:11:15.800 We replace a half of them,  
NOTE Confidence: 0.800666792307692

00:11:15.800 --> 00:11:18.280 the ambitions of the chapter with The Who  
NOTE Confidence: 0.800666792307692

00:11:18.280 --> 00:11:21.317 had the knack because of Doctor Faquin and I.  
NOTE Confidence: 0.800666792307692

00:11:21.320 --> 00:11:24.350 But also other holders were involved  
NOTE Confidence: 0.800666792307692

00:11:24.350 --> 00:11:27.700 in this WHO 2022 changes in the risk  
NOTE Confidence: 0.800666792307692

00:11:27.700 --> 00:11:30.666 of malignancy for each of the chapter  
NOTE Confidence: 0.800666792307692

00:11:30.666 --> 00:11:33.318 and updates in the ancillary chapter.  
NOTE Confidence: 0.800666792307692

00:11:33.320 --> 00:11:35.552 So we can say that we started from scratches.  
NOTE Confidence: 0.800666792307692

00:11:35.560 --> 00:11:39.654 So these are some drawing done by  
NOTE Confidence: 0.800666792307692

00:11:39.654 --> 00:11:42.162 Michelangelo in the secret room under

NOTE Confidence: 0.800666792307692  
00:11:42.162 --> 00:11:45.006 the old Chapel in San Lorenzo, Florence.  
NOTE Confidence: 0.800666792307692  
00:11:45.006 --> 00:11:47.794 And you can see fingers, arms,  
NOTE Confidence: 0.800666792307692  
00:11:47.794 --> 00:11:51.118 hands that prepared himself to the  
NOTE Confidence: 0.800666792307692  
00:11:51.118 --> 00:11:53.977 final masterpiece which is the  
NOTE Confidence: 0.800666792307692  
00:11:53.977 --> 00:11:55.639 amazing assistant Chapel.  
NOTE Confidence: 0.800666792307692  
00:11:55.640 --> 00:11:58.195 And the same here's a for Rehauser.  
NOTE Confidence: 0.800666792307692  
00:11:58.200 --> 00:12:00.180 Because if you think about what's  
NOTE Confidence: 0.800666792307692  
00:12:00.180 --> 00:12:02.559 new in this last weekend months,  
NOTE Confidence: 0.800666792307692  
00:12:02.560 --> 00:12:05.560 of course I start with my passion movies.  
NOTE Confidence: 0.800666792307692  
00:12:05.560 --> 00:12:08.200 So Oppenheimer in the same period  
NOTE Confidence: 0.800666792307692  
00:12:08.200 --> 00:12:09.520 something like Barbie,  
NOTE Confidence: 0.800666792307692  
00:12:09.520 --> 00:12:11.416 something more social rusty,  
NOTE Confidence: 0.800666792307692  
00:12:11.416 --> 00:12:12.838 something more historical.  
NOTE Confidence: 0.800666792307692  
00:12:12.840 --> 00:12:15.840 Napoleon and also the 2nd edition  
NOTE Confidence: 0.800666792307692  
00:12:15.840 --> 00:12:20.146 of the Milan system, July 2023.  
NOTE Confidence: 0.800666792307692

00:12:20.146 --> 00:12:22.076 The same orders and editors.  
NOTE Confidence: 0.800666792307692

00:12:22.080 --> 00:12:22.583 Dr.  
NOTE Confidence: 0.800666792307692

00:12:22.583 --> 00:12:25.601 Faquin and I, the same associate  
NOTE Confidence: 0.800666792307692

00:12:25.601 --> 00:12:28.279 editors from Europe and from US.  
NOTE Confidence: 0.800666792307692

00:12:28.280 --> 00:12:30.920 Yeah, you can compare the two  
NOTE Confidence: 0.800666792307692

00:12:30.920 --> 00:12:32.840 different editions 2018,  
NOTE Confidence: 0.800666792307692

00:12:32.840 --> 00:12:35.440 two 1023 in the second edition,  
NOTE Confidence: 0.800666792307692

00:12:35.440 --> 00:12:36.704 11 chapters.  
NOTE Confidence: 0.800666792307692

00:12:36.704 --> 00:12:38.600 The same definitions,  
NOTE Confidence: 0.800666792307692

00:12:38.600 --> 00:12:39.036 criteria,  
NOTE Confidence: 0.800666792307692

00:12:39.036 --> 00:12:41.216 explanatory notes is pretty similar  
NOTE Confidence: 0.800666792307692

00:12:41.216 --> 00:12:44.159 to the of course the 1st edition,  
NOTE Confidence: 0.800666792307692

00:12:44.160 --> 00:12:47.128 but both of them are similar to  
NOTE Confidence: 0.800666792307692

00:12:47.128 --> 00:12:48.400 the Bethesda thyroid.  
NOTE Confidence: 0.800666792307692

00:12:48.400 --> 00:12:49.560 We were involved of course,  
NOTE Confidence: 0.800666792307692

00:12:49.560 --> 00:12:50.852 also in the Bethesda,

NOTE Confidence: 0.800666792307692  
00:12:50.852 --> 00:12:53.631 so we wanted that there was a uniform  
NOTE Confidence: 0.800666792307692  
00:12:53.631 --> 00:12:56.312 evaluation by the readers of all these  
NOTE Confidence: 0.800666792307692  
00:12:56.312 --> 00:12:59.440 different heartless more than 60 now  
NOTE Confidence: 0.800666792307692  
00:12:59.440 --> 00:13:02.736 contributing others more than 250 pages,  
NOTE Confidence: 0.800666792307692  
00:13:02.736 --> 00:13:05.556 more than 200 colour pictures.  
NOTE Confidence: 0.800666792307692  
00:13:05.560 --> 00:13:08.451 We replace half of them exhibitions  
NOTE Confidence: 0.800666792307692  
00:13:08.451 --> 00:13:10.437 according of course to The Who,  
NOTE Confidence: 0.800666792307692  
00:13:10.440 --> 00:13:11.982 especially with the  
NOTE Confidence: 0.800666792307692  
00:13:11.982 --> 00:13:14.038 differences in the entities,  
NOTE Confidence: 0.800666792307692  
00:13:14.040 --> 00:13:15.918 changes in the risk of malignancy,  
NOTE Confidence: 0.800666792307692  
00:13:15.920 --> 00:13:18.560 and updates in the ancillary chapter.  
NOTE Confidence: 0.800666792307692  
00:13:18.560 --> 00:13:20.120 This is the general scheme,  
NOTE Confidence: 0.800666792307692  
00:13:20.120 --> 00:13:21.736 including UC 11 Chapter.  
NOTE Confidence: 0.800666792307692  
00:13:21.736 --> 00:13:25.559 Chapter 9 is the Imaging of Salisbury Grants,  
NOTE Confidence: 0.800666792307692  
00:13:25.560 --> 00:13:27.680 which was written by radiologists,  
NOTE Confidence: 0.800666792307692

00:13:27.680 --> 00:13:29.520 specifically radiologists  
NOTE Confidence: 0.800666792307692

00:13:29.520 --> 00:13:33.200 from Upenn from Pennsylvania.  
NOTE Confidence: 0.800666792307692

00:13:33.200 --> 00:13:35.400 And this is the new core of the Milan system.  
NOTE Confidence: 0.800666792307692

00:13:35.400 --> 00:13:37.044 So the diagnostic categories  
NOTE Confidence: 0.800666792307692

00:13:37.044 --> 00:13:39.510 combined with the new risk of  
NOTE Confidence: 0.800666792307692

00:13:39.590 --> 00:13:41.718 malignancy and the management,  
NOTE Confidence: 0.800666792307692

00:13:41.720 --> 00:13:44.120 you can see also the sensitivity,  
NOTE Confidence: 0.800666792307692

00:13:44.120 --> 00:13:44.653 specificity,  
NOTE Confidence: 0.800666792307692

00:13:44.653 --> 00:13:46.785 positive and negative predictive  
NOTE Confidence: 0.800666792307692

00:13:46.785 --> 00:13:48.917 value and the diagnostic  
NOTE Confidence: 0.800666792307692

00:13:48.917 --> 00:13:51.078 accuracy which were pretty high.  
NOTE Confidence: 0.800666792307692

00:13:51.080 --> 00:13:53.413 The first chapter here is overview  
NOTE Confidence: 0.800666792307692

00:13:53.413 --> 00:13:56.180 is an overview of the evaluation of  
NOTE Confidence: 0.800666792307692

00:13:56.180 --> 00:13:58.630 salivary cytology as it is present in  
NOTE Confidence: 0.800666792307692

00:13:58.630 --> 00:14:01.397 all the different classification systems.  
NOTE Confidence: 0.800666792307692

00:14:01.400 --> 00:14:03.266 From chapter two we started with

NOTE Confidence: 0.800666792307692

00:14:03.266 --> 00:14:05.321 the day of course the definition

NOTE Confidence: 0.800666792307692

00:14:05.321 --> 00:14:07.559 of the different categories and of

NOTE Confidence: 0.800666792307692

00:14:07.559 --> 00:14:09.677 course the 1st is non diagnostic

NOTE Confidence: 0.800666792307692

00:14:09.680 --> 00:14:10.739 risk of malignancy.

NOTE Confidence: 0.800666792307692

00:14:10.739 --> 00:14:11.798 Now is a

NOTE Confidence: 0.959927096

00:14:11.800 --> 00:14:14.000 15%. In the 1st edition

NOTE Confidence: 0.959927096

00:14:14.000 --> 00:14:16.200 was between 0 and 20%.

NOTE Confidence: 0.959927096

00:14:16.200 --> 00:14:18.762 We had an introduction and then a

NOTE Confidence: 0.959927096

00:14:18.762 --> 00:14:20.825 detailed discussion of all the criteria

NOTE Confidence: 0.959927096

00:14:20.825 --> 00:14:23.307 that you can here on the left on

NOTE Confidence: 0.959927096

00:14:23.307 --> 00:14:25.477 the right rear of absence of cells,

NOTE Confidence: 0.959927096

00:14:25.480 --> 00:14:27.880 poorly prepared samples we artifact.

NOTE Confidence: 0.959927096

00:14:27.880 --> 00:14:31.336 So for instance when you have a drying

NOTE Confidence: 0.959927096

00:14:31.336 --> 00:14:33.940 poor fixation crash artifact which

NOTE Confidence: 0.959927096

00:14:33.940 --> 00:14:37.038 hamper which for which you are a hamper

NOTE Confidence: 0.959927096

00:14:37.038 --> 00:14:40.639 it to make a diagnosis or the evidence  
NOTE Confidence: 0.959927096

00:14:40.639 --> 00:14:43.915 of non neoplastic normal acinar cells.  
NOTE Confidence: 0.959927096

00:14:43.920 --> 00:14:46.345 So basically you didn't sample  
NOTE Confidence: 0.959927096

00:14:46.345 --> 00:14:48.650 the lesion and of course in the  
NOTE Confidence: 0.959927096

00:14:48.650 --> 00:14:49.980 inhabitants of a clinically and  
NOTE Confidence: 0.959927096

00:14:50.039 --> 00:14:51.679 radiologically they define mass.  
NOTE Confidence: 0.959927096

00:14:51.680 --> 00:14:54.454 So you didn't sample yet the  
NOTE Confidence: 0.959927096

00:14:54.454 --> 00:14:56.524 presence of a fibrosis stromal  
NOTE Confidence: 0.959927096

00:14:56.524 --> 00:14:58.680 component alone with our cells,  
NOTE Confidence: 0.959927096

00:14:58.680 --> 00:15:00.148 but also non mucinosis.  
NOTE Confidence: 0.959927096

00:15:00.148 --> 00:15:02.930 The fluid with our cells saw only  
NOTE Confidence: 0.959927096

00:15:02.930 --> 00:15:05.954 macrophages for instance and necrotic debris,  
NOTE Confidence: 0.959927096

00:15:05.960 --> 00:15:08.480 but we will discuss about necrotic debris.  
NOTE Confidence: 0.959927096

00:15:08.480 --> 00:15:10.080 As for the betesa thyroid,  
NOTE Confidence: 0.959927096

00:15:10.080 --> 00:15:12.000 we included also some exceptions,  
NOTE Confidence: 0.959927096

00:15:12.000 --> 00:15:14.436 for instance any salivary has parade in

NOTE Confidence: 0.959927096

00:15:14.436 --> 00:15:17.052 which you have even a few focal typical

NOTE Confidence: 0.959927096

00:15:17.052 --> 00:15:20.034 cells cannot be defined as non diagnostic.

NOTE Confidence: 0.959927096

00:15:20.040 --> 00:15:22.680 This should be defined as AUS,

NOTE Confidence: 0.959927096

00:15:22.680 --> 00:15:25.410 as atypia or mucinosis the

NOTE Confidence: 0.959927096

00:15:25.410 --> 00:15:27.594 fluid only without cells.

NOTE Confidence: 0.959927096

00:15:27.600 --> 00:15:30.526 This cannot be defined as non diagnostic

NOTE Confidence: 0.959927096

00:15:30.526 --> 00:15:33.264 but AUS because could be a mucosal

NOTE Confidence: 0.959927096

00:15:33.264 --> 00:15:36.149 or a retention cyst but also a low

NOTE Confidence: 0.959927096

00:15:36.149 --> 00:15:38.606 grade Mac and you sample only the

NOTE Confidence: 0.959927096

00:15:38.606 --> 00:15:40.920 mucinos component or the presence

NOTE Confidence: 0.959927096

00:15:40.920 --> 00:15:42.880 of abundant inflammatory cells.

NOTE Confidence: 0.959927096

00:15:42.880 --> 00:15:45.200 Without an epithelial component cannot

NOTE Confidence: 0.959927096

00:15:45.200 --> 00:15:47.996 be defined as non diagnostic because

NOTE Confidence: 0.959927096

00:15:47.996 --> 00:15:50.402 this should be interpreted and has

NOTE Confidence: 0.959927096

00:15:50.402 --> 00:15:53.421 had weight and also the evidence of

NOTE Confidence: 0.959927096

00:15:53.421 --> 00:15:55.601 stroma component which is associated

NOTE Confidence: 0.959927096

00:15:55.601 --> 00:15:57.135 with your plastic condition.

NOTE Confidence: 0.959927096

00:15:57.135 --> 00:15:59.325 Again even with our cells cannot

NOTE Confidence: 0.959927096

00:15:59.325 --> 00:16:01.360 be defined as non diagnostic.

NOTE Confidence: 0.959927096

00:16:01.360 --> 00:16:04.120 Just an example this is a cellulose mirror.

NOTE Confidence: 0.959927096

00:16:04.120 --> 00:16:06.136 About that you know a lot of

NOTE Confidence: 0.959927096

00:16:06.136 --> 00:16:07.000 the crush artifact,

NOTE Confidence: 0.959927096

00:16:07.000 --> 00:16:09.520 a lot of blood hampering

NOTE Confidence: 0.959927096

00:16:09.520 --> 00:16:12.334 diagnosis or here on the left you

NOTE Confidence: 0.959927096

00:16:12.334 --> 00:16:15.159 can see the absence of cells,

NOTE Confidence: 0.959927096

00:16:15.160 --> 00:16:17.280 so this is non diagnostic.

NOTE Confidence: 0.959927096

00:16:17.280 --> 00:16:20.016 Or in the left bottom you can see just

NOTE Confidence: 0.959927096

00:16:20.016 --> 00:16:22.919 a cluster of normal as inner cells.

NOTE Confidence: 0.959927096

00:16:22.920 --> 00:16:25.380 So this means that you didn't

NOTE Confidence: 0.959927096

00:16:25.380 --> 00:16:26.200 sample deletion.

NOTE Confidence: 0.959927096

00:16:26.200 --> 00:16:29.040 In the upper right you can see necrotic

NOTE Confidence: 0.959927096

00:16:29.040 --> 00:16:31.239 component associated with inflammatory cells.

NOTE Confidence: 0.959927096

00:16:31.240 --> 00:16:34.120 You have to diagnose this as non diagnostic.

NOTE Confidence: 0.959927096

00:16:34.120 --> 00:16:36.640 But it's important to put a

NOTE Confidence: 0.959927096

00:16:36.640 --> 00:16:38.320 note emphasizing that necrotic

NOTE Confidence: 0.959927096

00:16:38.400 --> 00:16:41.075 component is associated also with

NOTE Confidence: 0.959927096

00:16:41.075 --> 00:16:42.680 the neoplastic condition.

NOTE Confidence: 0.959927096

00:16:42.680 --> 00:16:45.576 So a sort of hub warrant about the

NOTE Confidence: 0.959927096

00:16:45.576 --> 00:16:47.879 habitats of necrotic component.

NOTE Confidence: 0.959927096

00:16:47.880 --> 00:16:51.008 And on the bottom you have this dance

NOTE Confidence: 0.959927096

00:16:51.008 --> 00:16:53.061 mucinos component which cannot be

NOTE Confidence: 0.959927096

00:16:53.061 --> 00:16:55.051 defined as non diagnostic because

NOTE Confidence: 0.959927096

00:16:55.051 --> 00:16:58.214 it can be neck or can be a benign

NOTE Confidence: 0.959927096

00:16:58.214 --> 00:17:00.061 condition a mucosal or retention system.

NOTE Confidence: 0.959927096

00:17:00.061 --> 00:17:02.467 Let's go to the the go to the

NOTE Confidence: 0.959927096

00:17:02.467 --> 00:17:04.417 bed and the ugly plaintiffs water

NOTE Confidence: 0.959927096

00:17:04.417 --> 00:17:05.959 hand cell drop by cell.  
NOTE Confidence: 0.959927096

00:17:05.960 --> 00:17:08.720 Juliana did not neoplastic the  
NOTE Confidence: 0.959927096

00:17:08.720 --> 00:17:11.880 risk of malignancy is now 11%  
NOTE Confidence: 0.959927096

00:17:11.880 --> 00:17:14.316 in the 1st edition was 10%.  
NOTE Confidence: 0.959927096

00:17:14.320 --> 00:17:17.155 We included all the non neoplastic condition,  
NOTE Confidence: 0.959927096

00:17:17.160 --> 00:17:19.500 so metaplastic inflammatory  
NOTE Confidence: 0.959927096

00:17:19.500 --> 00:17:21.840 acute chronic Cellulitis,  
NOTE Confidence: 0.959927096

00:17:21.840 --> 00:17:24.080 lymphopitelial cell adenitis and  
NOTE Confidence: 0.959927096

00:17:24.080 --> 00:17:26.320 the hyperplastic reactive lymph  
NOTE Confidence: 0.959927096

00:17:26.320 --> 00:17:28.560 node especially in the parotid.  
NOTE Confidence: 0.959927096

00:17:28.560 --> 00:17:30.156 You can see here some example,  
NOTE Confidence: 0.959927096

00:17:30.160 --> 00:17:32.750 on the left we have a chronic  
NOTE Confidence: 0.959927096

00:17:32.750 --> 00:17:34.480 cell Adenitis with the DS,  
NOTE Confidence: 0.959927096

00:17:34.480 --> 00:17:37.215 small atrophic ductal cells and  
NOTE Confidence: 0.959927096

00:17:37.215 --> 00:17:39.950 inflammatory component or on the  
NOTE Confidence: 0.664720495

00:17:40.044 --> 00:17:43.038 on the right upper part Cellulitis,

NOTE Confidence: 0.664720495

00:17:43.040 --> 00:17:45.880 Cellulitis with the meta plastic

NOTE Confidence: 0.664720495

00:17:45.880 --> 00:17:48.720 ductal cells and chronic inflammation.

NOTE Confidence: 0.664720495

00:17:48.720 --> 00:17:52.392 Or in the bottom you can see some stones.

NOTE Confidence: 0.664720495

00:17:52.400 --> 00:17:55.451 And also this is an example of an acute

NOTE Confidence: 0.664720495

00:17:55.451 --> 00:17:58.924 cell Adenitis in which you have this

NOTE Confidence: 0.664720495

00:17:58.924 --> 00:18:01.326 clear acute inflammatory component in

NOTE Confidence: 0.664720495

00:18:01.326 --> 00:18:03.522 which it's important to come combine

NOTE Confidence: 0.664720495

00:18:03.522 --> 00:18:05.532 with the radiological and clinical

NOTE Confidence: 0.664720495

00:18:05.532 --> 00:18:07.662 evidence or for instance crystalloids

NOTE Confidence: 0.664720495

00:18:07.662 --> 00:18:09.816 which are frequently associated with

NOTE Confidence: 0.664720495

00:18:09.816 --> 00:18:11.856 inflammatory component and you can

NOTE Confidence: 0.664720495

00:18:11.856 --> 00:18:14.655 see the different shapes of that.

NOTE Confidence: 0.664720495

00:18:14.655 --> 00:18:17.280 Another possibility is a lymphobidila

NOTE Confidence: 0.664720495

00:18:17.280 --> 00:18:19.619 celladenitis in which usually you

NOTE Confidence: 0.664720495

00:18:19.619 --> 00:18:22.440 have a datum with a plastic squamid

NOTE Confidence: 0.664720495

00:18:22.522 --> 00:18:25.187 cells intermingled with a small  
NOTE Confidence: 0.664720495

00:18:25.187 --> 00:18:28.150 lymphocyte and it's a typical habitance  
NOTE Confidence: 0.664720495

00:18:28.150 --> 00:18:31.600 on cytology and not very difficult.  
NOTE Confidence: 0.664720495

00:18:31.600 --> 00:18:34.444 But another possibility here is the  
NOTE Confidence: 0.664720495

00:18:34.444 --> 00:18:37.006 reactive but lymph nodiperplasia in which  
NOTE Confidence: 0.664720495

00:18:37.006 --> 00:18:39.496 you have the habitants have lymphocytes,  
NOTE Confidence: 0.664720495

00:18:39.496 --> 00:18:40.918 a small lymphocytes,  
NOTE Confidence: 0.664720495

00:18:40.920 --> 00:18:42.555 follicular dendritic cells,  
NOTE Confidence: 0.664720495

00:18:42.555 --> 00:18:45.694 but also the habitants in C&D  
NOTE Confidence: 0.664720495

00:18:45.694 --> 00:18:46.936 tingible body macrophages.  
NOTE Confidence: 0.664720495

00:18:46.936 --> 00:18:49.935 So just to remember that of course  
NOTE Confidence: 0.664720495

00:18:49.935 --> 00:18:52.145 we might have this possibility  
NOTE Confidence: 0.664720495

00:18:52.145 --> 00:18:53.913 also has non neoplastic.  
NOTE Confidence: 0.664720495

00:18:53.920 --> 00:18:55.756 When you have some doubts that  
NOTE Confidence: 0.664720495

00:18:55.756 --> 00:18:57.732 you can perform for instance a  
NOTE Confidence: 0.664720495

00:18:57.732 --> 00:18:59.796 flow cytometry to solve the issue,

NOTE Confidence: 0.664720495  
00:18:59.800 --> 00:19:01.768 we discussed it a lot about  
NOTE Confidence: 0.664720495  
00:19:01.768 --> 00:19:02.752 actipia and neoplasms,  
NOTE Confidence: 0.664720495  
00:19:02.760 --> 00:19:04.158 if they are different or not,  
NOTE Confidence: 0.664720495  
00:19:04.160 --> 00:19:07.114 like Jack Nicholson and the final Joker.  
NOTE Confidence: 0.664720495  
00:19:07.120 --> 00:19:07.964 And yeah,  
NOTE Confidence: 0.664720495  
00:19:07.964 --> 00:19:10.496 based on the literature we decided  
NOTE Confidence: 0.664720495  
00:19:10.496 --> 00:19:12.810 to stay with the same classification  
NOTE Confidence: 0.664720495  
00:19:12.810 --> 00:19:15.120 that we had in the first edition.  
NOTE Confidence: 0.664720495  
00:19:15.120 --> 00:19:17.960 So AUS and neoplasm super  
NOTE Confidence: 0.664720495  
00:19:17.960 --> 00:19:20.800 classified as B9 and sample.  
NOTE Confidence: 0.664720495  
00:19:20.800 --> 00:19:23.580 This is a table from the 2nd edition in which  
NOTE Confidence: 0.664720495  
00:19:23.642 --> 00:19:26.354 you can see the sober classification of AUS.  
NOTE Confidence: 0.664720495  
00:19:26.360 --> 00:19:29.555 The first he is a cystic and non cystic.  
NOTE Confidence: 0.664720495  
00:19:29.560 --> 00:19:31.438 For the cystic it's important to  
NOTE Confidence: 0.664720495  
00:19:31.438 --> 00:19:34.038 recognize if it is a mucinous component,  
NOTE Confidence: 0.664720495

00:19:34.040 --> 00:19:36.002 so can be non neoplastic or  
NOTE Confidence: 0.664720495

00:19:36.002 --> 00:19:38.105 can be neoplastic and the most  
NOTE Confidence: 0.664720495

00:19:38.105 --> 00:19:39.915 important the plastic is Mac.  
NOTE Confidence: 0.664720495

00:19:39.920 --> 00:19:42.936 If it is non Mucinoso you might have  
NOTE Confidence: 0.664720495

00:19:42.936 --> 00:19:44.833 lymphocyte prevalent for instance and  
NOTE Confidence: 0.664720495

00:19:44.833 --> 00:19:47.332 we have to consider the neoplastic or  
NOTE Confidence: 0.664720495

00:19:47.405 --> 00:19:49.820 non neoplastic Consider and conditions  
NOTE Confidence: 0.664720495

00:19:49.820 --> 00:19:52.573 but also epithelial cell prevalent and  
NOTE Confidence: 0.664720495

00:19:52.573 --> 00:19:54.571 you have to recognize the different  
NOTE Confidence: 0.664720495

00:19:54.571 --> 00:19:56.937 type if one possible squamoid,  
NOTE Confidence: 0.664720495

00:19:56.937 --> 00:19:58.491 oncocytic, basaloid,  
NOTE Confidence: 0.664720495

00:19:58.491 --> 00:20:01.599 acinic and spindle cells.  
NOTE Confidence: 0.664720495

00:20:01.600 --> 00:20:03.938 And for each of them you might  
NOTE Confidence: 0.664720495

00:20:03.938 --> 00:20:05.926 have non neoplastic and neoplastic  
NOTE Confidence: 0.664720495

00:20:05.926 --> 00:20:08.201 conditions which are all described  
NOTE Confidence: 0.664720495

00:20:08.201 --> 00:20:10.240 with bacteria with examples.

NOTE Confidence: 0.664720495

00:20:10.240 --> 00:20:12.718 And details in the in the system,

NOTE Confidence: 0.664720495

00:20:12.720 --> 00:20:14.160 in the in the Atlas.

NOTE Confidence: 0.664720495

00:20:14.160 --> 00:20:15.372 For non cystic,

NOTE Confidence: 0.664720495

00:20:15.372 --> 00:20:18.200 again we might have a typical lymphoid

NOTE Confidence: 0.664720495

00:20:18.284 --> 00:20:20.380 proliferation but also epithelial

NOTE Confidence: 0.664720495

00:20:20.380 --> 00:20:23.524 cell predominant with the same sober

NOTE Confidence: 0.664720495

00:20:23.607 --> 00:20:26.889 classification that we reported in non

NOTE Confidence: 0.664720495

00:20:26.889 --> 00:20:29.077 musinos epithelial cell prevalent.

NOTE Confidence: 0.664720495

00:20:29.080 --> 00:20:30.964 The risk of malignancy for this

NOTE Confidence: 0.664720495

00:20:30.964 --> 00:20:32.759 category is at around now 30%.

NOTE Confidence: 0.664720495

00:20:32.760 --> 00:20:35.005 In the 1st edition was 20%.

NOTE Confidence: 0.664720495

00:20:35.005 --> 00:20:37.430 Of course we are discussing

NOTE Confidence: 0.664720495

00:20:37.430 --> 00:20:39.720 about a surgical follow up.

NOTE Confidence: 0.664720495

00:20:39.720 --> 00:20:42.528 I would like to remember that for AUS

NOTE Confidence: 0.664720495

00:20:42.528 --> 00:20:45.400 the the best standard management is a

NOTE Confidence: 0.664720495

00:20:45.400 --> 00:20:48.480 follow up or repetition mostly repetition.

NOTE Confidence: 0.664720495

00:20:48.480 --> 00:20:52.980 So the data in this 30% is based on those

NOTE Confidence: 0.664720495

00:20:52.980 --> 00:20:55.880 cases that add a surgical follow up,

NOTE Confidence: 0.664720495

00:20:55.880 --> 00:20:58.034 we introduced it also the concept

NOTE Confidence: 0.664720495

00:20:58.034 --> 00:21:00.562 of risk of neoplasm in the first

NOTE Confidence: 0.664720495

00:21:00.562 --> 00:21:03.592 additional was not and 63% you can see

NOTE Confidence: 0.664720495

00:21:03.592 --> 00:21:06.560 is lower than sample which was 90%.

NOTE Confidence: 0.664720495

00:21:06.560 --> 00:21:08.864 We added the new tables describing

NOTE Confidence: 0.664720495

00:21:08.864 --> 00:21:10.400 all the different possible

NOTE Confidence: 0.849879677058824

00:21:10.467 --> 00:21:13.239 morphological scenarios as you can see here.

NOTE Confidence: 0.849879677058824

00:21:13.240 --> 00:21:15.345 Why? Because from the literature

NOTE Confidence: 0.849879677058824

00:21:15.345 --> 00:21:17.450 we realized that there's different

NOTE Confidence: 0.849879677058824

00:21:17.520 --> 00:21:19.896 scenarios have different risk of neoplasm

NOTE Confidence: 0.849879677058824

00:21:19.896 --> 00:21:22.240 and different risk of malignancy.

NOTE Confidence: 0.849879677058824

00:21:22.240 --> 00:21:23.952 And specifically the highest

NOTE Confidence: 0.849879677058824

00:21:23.952 --> 00:21:25.236 were for lymphocytes,

NOTE Confidence: 0.849879677058824

00:21:25.240 --> 00:21:27.976 Rich and the mucinos and the new table

NOTE Confidence: 0.849879677058824

00:21:27.976 --> 00:21:30.878 of course and additional sample records,

NOTE Confidence: 0.849879677058824

00:21:30.880 --> 00:21:31.948 just a few examples.

NOTE Confidence: 0.849879677058824

00:21:31.948 --> 00:21:33.550 On the left you can see

NOTE Confidence: 0.849879677058824

00:21:33.620 --> 00:21:34.960 a few a typical cells.

NOTE Confidence: 0.849879677058824

00:21:34.960 --> 00:21:37.515 This cannot be defined as non diagnostic.

NOTE Confidence: 0.849879677058824

00:21:37.520 --> 00:21:39.674 This should be considered as AUS

NOTE Confidence: 0.849879677058824

00:21:39.674 --> 00:21:42.440 or in the bottom a single cluster.

NOTE Confidence: 0.849879677058824

00:21:42.440 --> 00:21:44.710 Not enough for any conclusion

NOTE Confidence: 0.849879677058824

00:21:44.710 --> 00:21:47.549 because of the most important word

NOTE Confidence: 0.849879677058824

00:21:47.549 --> 00:21:49.974 associated with AUS is limitation

NOTE Confidence: 0.849879677058824

00:21:49.974 --> 00:21:51.914 in quality and quantity.

NOTE Confidence: 0.849879677058824

00:21:51.920 --> 00:21:54.719 So we are not sure that this is a

NOTE Confidence: 0.849879677058824

00:21:54.719 --> 00:21:56.648 reactive or any plastic condition

NOTE Confidence: 0.849879677058824

00:21:56.648 --> 00:21:58.958 and for this reason we need

NOTE Confidence: 0.849879677058824

00:21:59.038 --> 00:22:01.036 a repetition of the of the,  
NOTE Confidence: 0.849879677058824

00:22:01.040 --> 00:22:02.440 of the of the category.  
NOTE Confidence: 0.849879677058824

00:22:02.440 --> 00:22:05.380 Of course we want to maintain this  
NOTE Confidence: 0.849879677058824

00:22:05.380 --> 00:22:07.040 category at around 10%.  
NOTE Confidence: 0.849879677058824

00:22:07.040 --> 00:22:08.320 We don't want that.  
NOTE Confidence: 0.849879677058824

00:22:08.320 --> 00:22:10.240 This is a wastebasket in which  
NOTE Confidence: 0.849879677058824

00:22:10.304 --> 00:22:12.704 you put all the cases and all the  
NOTE Confidence: 0.849879677058824

00:22:12.704 --> 00:22:14.258 diagnosis for which you don't  
NOTE Confidence: 0.849879677058824

00:22:14.258 --> 00:22:16.316 you you don't know what to do.  
NOTE Confidence: 0.849879677058824

00:22:16.320 --> 00:22:19.284 The new plastic category is super  
NOTE Confidence: 0.849879677058824

00:22:19.284 --> 00:22:21.840 classified has new plastic benign  
NOTE Confidence: 0.849879677058824

00:22:21.840 --> 00:22:24.318 which is used for the classic  
NOTE Confidence: 0.849879677058824

00:22:24.318 --> 00:22:25.557 example Harplyomorphic adenoma.  
NOTE Confidence: 0.849879677058824

00:22:25.560 --> 00:22:27.515 You can see here myopitelial  
NOTE Confidence: 0.849879677058824

00:22:27.515 --> 00:22:29.079 component in this condomix.  
NOTE Confidence: 0.849879677058824

00:22:29.080 --> 00:22:31.864 So it does traumal material warting

NOTE Confidence: 0.849879677058824

00:22:31.864 --> 00:22:33.720 tumor lymphoma and Schwannoma.

NOTE Confidence: 0.849879677058824

00:22:33.720 --> 00:22:35.988 This is a warting in which you

NOTE Confidence: 0.849879677058824

00:22:35.988 --> 00:22:38.386 have the Oncocyt cells in this

NOTE Confidence: 0.849879677058824

00:22:38.386 --> 00:22:40.646 dirty background and of course

NOTE Confidence: 0.849879677058824

00:22:40.646 --> 00:22:42.576 inflammatory component Risk of the

NOTE Confidence: 0.849879677058824

00:22:42.576 --> 00:22:44.795 risk of malignancy is lower than 3%

NOTE Confidence: 0.849879677058824

00:22:44.800 --> 00:22:48.720 in the 1st edition was lower than 5%.

NOTE Confidence: 0.849879677058824

00:22:48.720 --> 00:22:51.840 We add also these other category

NOTE Confidence: 0.849879677058824

00:22:51.840 --> 00:22:53.776 sample and certain malignant potential

NOTE Confidence: 0.849879677058824

00:22:53.776 --> 00:22:56.370 when we use this and the definition

NOTE Confidence: 0.849879677058824

00:22:56.370 --> 00:22:58.758 here is diagnostic of a neoplast.

NOTE Confidence: 0.849879677058824

00:22:58.760 --> 00:23:00.741 So we are sure that the sample

NOTE Confidence: 0.849879677058824

00:23:00.741 --> 00:23:02.320 is diagnostic of a neoplast.

NOTE Confidence: 0.849879677058824

00:23:02.320 --> 00:23:05.337 By the way a diagnosis of a

NOTE Confidence: 0.849879677058824

00:23:05.337 --> 00:23:07.347 specific entity cannot be made

NOTE Confidence: 0.849879677058824

00:23:07.347 --> 00:23:09.336 due to the nature of the lesion.  
NOTE Confidence: 0.849879677058824

00:23:09.336 --> 00:23:11.846 So we are not able to define capsule  
NOTE Confidence: 0.849879677058824

00:23:11.846 --> 00:23:13.996 and vascular invasion on cytology,  
NOTE Confidence: 0.849879677058824

00:23:14.000 --> 00:23:17.248 but also sometimes due to the affine so  
NOTE Confidence: 0.849879677058824

00:23:17.248 --> 00:23:20.720 that a malignant cannot be excluded,  
NOTE Confidence: 0.849879677058824

00:23:20.720 --> 00:23:23.386 the risk of neoplasm is a malignancy.  
NOTE Confidence: 0.849879677058824

00:23:23.386 --> 00:23:25.173 Sorry, is at around 35%.  
NOTE Confidence: 0.849879677058824

00:23:25.173 --> 00:23:28.694 In the 1st edition was 26 and we  
NOTE Confidence: 0.849879677058824

00:23:28.694 --> 00:23:30.784 included the many benign anti  
NOTE Confidence: 0.849879677058824

00:23:30.784 --> 00:23:32.685 dysclomorphic adenoma with the  
NOTE Confidence: 0.849879677058824

00:23:32.685 --> 00:23:33.679 squamous metaplasia,  
NOTE Confidence: 0.849879677058824

00:23:33.680 --> 00:23:35.624 cellular pleomorphic adenoma,  
NOTE Confidence: 0.849879677058824

00:23:35.624 --> 00:23:36.920 myopia, lioma,  
NOTE Confidence: 0.849879677058824

00:23:36.920 --> 00:23:40.556 basal cell adenoma and so on.  
NOTE Confidence: 0.849879677058824

00:23:40.560 --> 00:23:42.926 You can see here three different characters  
NOTE Confidence: 0.849879677058824

00:23:42.926 --> 00:23:45.065 performed by Peter Salos the amazing

NOTE Confidence: 0.849879677058824

00:23:45.065 --> 00:23:46.840 Peter Salos in Doctor Strangelove.

NOTE Confidence: 0.849879677058824

00:23:46.840 --> 00:23:50.074 As we had different types of hub,

NOTE Confidence: 0.849879677058824

00:23:50.080 --> 00:23:52.971 the same sample in the second edition

NOTE Confidence: 0.849879677058824

00:23:52.971 --> 00:23:56.295 we have a sub classification of

NOTE Confidence: 0.849879677058824

00:23:56.295 --> 00:23:58.955 sample into Basaloid orchocytic

NOTE Confidence: 0.849879677058824

00:23:58.960 --> 00:24:00.620 clear cell features which were

NOTE Confidence: 0.849879677058824

00:24:00.620 --> 00:24:02.280 identical to the 1st edition.

NOTE Confidence: 0.849879677058824

00:24:02.280 --> 00:24:05.416 But we added mix it the features

NOTE Confidence: 0.849879677058824

00:24:05.416 --> 00:24:07.777 because it's not it's not always

NOTE Confidence: 0.849879677058824

00:24:07.777 --> 00:24:10.568 the white or black and we have this

NOTE Confidence: 0.849879677058824

00:24:10.568 --> 00:24:12.602 different shades of Gray and can

NOTE Confidence: 0.849879677058824

00:24:12.602 --> 00:24:15.721 be and a mixture of the different

NOTE Confidence: 0.849879677058824

00:24:15.721 --> 00:24:17.239 mentioning the pattern.

NOTE Confidence: 0.849879677058824

00:24:17.240 --> 00:24:19.376 Just an example in the upper left you

NOTE Confidence: 0.849879677058824

00:24:19.376 --> 00:24:21.119 have a typical basaloid appearance

NOTE Confidence: 0.849879677058824

00:24:21.119 --> 00:24:23.793 in which you have these are Fazard,  
NOTE Confidence: 0.849879677058824

00:24:23.800 --> 00:24:26.380 the organization of cells basaloid  
NOTE Confidence: 0.849879677058824

00:24:26.380 --> 00:24:28.960 with the scan to cytoplasm.  
NOTE Confidence: 0.849879677058824

00:24:28.960 --> 00:24:31.872 In the upper right you can see  
NOTE Confidence: 0.849879677058824

00:24:31.872 --> 00:24:33.120 an oncocytic appearance  
NOTE Confidence: 0.762723183846154

00:24:33.203 --> 00:24:35.796 of this sample. This was a myoepithelioma  
NOTE Confidence: 0.762723183846154

00:24:35.796 --> 00:24:38.713 on histology and in the bottom you can  
NOTE Confidence: 0.762723183846154

00:24:38.713 --> 00:24:40.789 see this cluster with this delicate  
NOTE Confidence: 0.762723183846154

00:24:40.789 --> 00:24:43.477 and very granular and clear cytoplasm.  
NOTE Confidence: 0.762723183846154

00:24:43.480 --> 00:24:46.570 This was an acinic cell carcinoma  
NOTE Confidence: 0.762723183846154

00:24:46.570 --> 00:24:48.804 on histology, but it's not only  
NOTE Confidence: 0.762723183846154

00:24:48.804 --> 00:24:50.610 important for the sample to sub  
NOTE Confidence: 0.762723183846154

00:24:50.680 --> 00:24:52.960 classify the different type of cells,  
NOTE Confidence: 0.762723183846154

00:24:52.960 --> 00:24:55.312 but for each of them is also important  
NOTE Confidence: 0.762723183846154

00:24:55.312 --> 00:24:58.152 to sub classify the differences in the  
NOTE Confidence: 0.762723183846154

00:24:58.152 --> 00:25:00.738 background because it is associated with

NOTE Confidence: 0.762723183846154

00:25:00.738 --> 00:25:03.020 different entities and we did the for

NOTE Confidence: 0.762723183846154

00:25:03.020 --> 00:25:05.840 each of them there's a sub classification.

NOTE Confidence: 0.762723183846154

00:25:05.840 --> 00:25:08.192 So Oncitic and you can see we

NOTE Confidence: 0.762723183846154

00:25:08.192 --> 00:25:10.720 might have a cystic background,

NOTE Confidence: 0.762723183846154

00:25:10.720 --> 00:25:12.130 a mucinous background,

NOTE Confidence: 0.762723183846154

00:25:12.130 --> 00:25:14.480 blood on a specific background.

NOTE Confidence: 0.762723183846154

00:25:14.480 --> 00:25:17.711 And for each of them we define all two

NOTE Confidence: 0.762723183846154

00:25:17.711 --> 00:25:20.291 possible entities which are defined with

NOTE Confidence: 0.762723183846154

00:25:20.291 --> 00:25:23.542 the within details in of course the

NOTE Confidence: 0.762723183846154

00:25:23.542 --> 00:25:26.638 Atlas with criteria with explanatory nodes,

NOTE Confidence: 0.762723183846154

00:25:26.640 --> 00:25:29.268 the granular and baccalais cytoplasts which

NOTE Confidence: 0.762723183846154

00:25:29.268 --> 00:25:31.643 is mostly associated with malignantitis

NOTE Confidence: 0.762723183846154

00:25:31.643 --> 00:25:34.398 and approachable focal nuclear atibia,

NOTE Confidence: 0.762723183846154

00:25:34.400 --> 00:25:35.816 again malignant antitis.

NOTE Confidence: 0.762723183846154

00:25:35.816 --> 00:25:39.898 We did the same for Basaloid and you might

NOTE Confidence: 0.762723183846154

00:25:39.898 --> 00:25:42.608 say that in the in the Basaloid pattern  
NOTE Confidence: 0.762723183846154

00:25:42.608 --> 00:25:45.240 we might have a fibrillary stromal component,  
NOTE Confidence: 0.762723183846154

00:25:45.240 --> 00:25:47.680 eyeline mix it and scan  
NOTE Confidence: 0.762723183846154

00:25:47.680 --> 00:25:49.632 to no stromal component.  
NOTE Confidence: 0.762723183846154

00:25:49.640 --> 00:25:53.077 And for each of them we have  
NOTE Confidence: 0.762723183846154

00:25:53.077 --> 00:25:55.520 different type of Antidis.  
NOTE Confidence: 0.762723183846154

00:25:55.520 --> 00:25:56.402 By the way.  
NOTE Confidence: 0.762723183846154

00:25:56.402 --> 00:25:58.460 Generally speaking for an F&A to be  
NOTE Confidence: 0.762723183846154

00:25:58.530 --> 00:26:00.600 competitive as a diagnostic test.  
NOTE Confidence: 0.762723183846154

00:26:00.600 --> 00:26:02.238 This is not only for salivary,  
NOTE Confidence: 0.762723183846154

00:26:02.240 --> 00:26:05.159 this is in general we strive to  
NOTE Confidence: 0.762723183846154

00:26:05.159 --> 00:26:07.737 shift cases from the indeterminate  
NOTE Confidence: 0.762723183846154

00:26:07.737 --> 00:26:10.837 category to benign or malignant.  
NOTE Confidence: 0.762723183846154

00:26:10.840 --> 00:26:11.376 For instance,  
NOTE Confidence: 0.762723183846154

00:26:11.376 --> 00:26:13.520 this was what I mentioned in this morning.  
NOTE Confidence: 0.762723183846154

00:26:13.520 --> 00:26:15.472 If we have a case like this in

NOTE Confidence: 0.762723183846154

00:26:15.472 --> 00:26:17.665 which we have this delicate for

NOTE Confidence: 0.762723183846154

00:26:17.665 --> 00:26:19.715 granular cytoplasm and this cluster,

NOTE Confidence: 0.762723183846154

00:26:19.720 --> 00:26:23.024 it's clear that this this is neoplastic

NOTE Confidence: 0.762723183846154

00:26:23.024 --> 00:26:26.078 but without the support of immuno,

NOTE Confidence: 0.762723183846154

00:26:26.080 --> 00:26:27.476 we cannot go farther.

NOTE Confidence: 0.762723183846154

00:26:27.476 --> 00:26:30.440 But if we perform immuno and we see that

NOTE Confidence: 0.762723183846154

00:26:30.440 --> 00:26:33.000 this is dog one and no one positive,

NOTE Confidence: 0.762723183846154

00:26:33.000 --> 00:26:36.376 but we can shift from a sample to

NOTE Confidence: 0.762723183846154

00:26:36.376 --> 00:26:39.078 the definition directly on cytology

NOTE Confidence: 0.762723183846154

00:26:39.078 --> 00:26:41.438 but acidic cell carcinoma.

NOTE Confidence: 0.762723183846154

00:26:41.440 --> 00:26:44.688 Let's analyze the bad or if you prefer

NOTE Confidence: 0.762723183846154

00:26:44.688 --> 00:26:47.798 something like the Eden apple by Margareta.

NOTE Confidence: 0.762723183846154

00:26:47.800 --> 00:26:50.656 This here is a part of the

NOTE Confidence: 0.762723183846154

00:26:50.656 --> 00:26:51.472 indeterminate categories.

NOTE Confidence: 0.762723183846154

00:26:51.480 --> 00:26:53.012 With AUS and sample,

NOTE Confidence: 0.762723183846154

00:26:53.012 --> 00:26:56.398 the risk of neoplasm is at around 83%.

NOTE Confidence: 0.762723183846154

00:26:56.398 --> 00:26:59.506 We emphasize the important role of

NOTE Confidence: 0.762723183846154

00:26:59.506 --> 00:27:02.373 ancillary technique so that we can

NOTE Confidence: 0.762723183846154

00:27:02.373 --> 00:27:04.418 shift to the malignant category

NOTE Confidence: 0.762723183846154

00:27:04.418 --> 00:27:07.080 if we have enough material.

NOTE Confidence: 0.762723183846154

00:27:07.080 --> 00:27:08.796 I want to do a differentiation.

NOTE Confidence: 0.762723183846154

00:27:08.800 --> 00:27:09.576 So AUS.

NOTE Confidence: 0.762723183846154

00:27:09.576 --> 00:27:12.314 We are saying that the the the

NOTE Confidence: 0.762723183846154

00:27:12.314 --> 00:27:14.696 keyword is limitations and in front

NOTE Confidence: 0.762723183846154

00:27:14.696 --> 00:27:18.065 of an AUS we are not sure if this

NOTE Confidence: 0.762723183846154

00:27:18.065 --> 00:27:20.759 is neoplastic or reactive in sample.

NOTE Confidence: 0.762723183846154

00:27:20.760 --> 00:27:23.294 We are sure that the deletion is

NOTE Confidence: 0.762723183846154

00:27:23.294 --> 00:27:25.829 neoplastic but we are not able to say

NOTE Confidence: 0.762723183846154

00:27:25.829 --> 00:27:28.800 if it is benign or a malignant neoplasm.

NOTE Confidence: 0.762723183846154

00:27:28.800 --> 00:27:31.859 But a Sunnybury gland sample in which

NOTE Confidence: 0.762723183846154

00:27:31.859 --> 00:27:35.289 we use the diagnosis of suspicious

NOTE Confidence: 0.762723183846154

00:27:35.289 --> 00:27:38.670 for malignant means that we have some

NOTE Confidence: 0.762723183846154

00:27:38.670 --> 00:27:41.763 of of the criteria for a diagnosis

NOTE Confidence: 0.762723183846154

00:27:41.763 --> 00:27:44.673 of malignancy but not the whole.

NOTE Confidence: 0.762723183846154

00:27:44.680 --> 00:27:47.098 So we are not completely confident

NOTE Confidence: 0.762723183846154

00:27:47.098 --> 00:27:49.640 in a diagnosis or malignancy.

NOTE Confidence: 0.762723183846154

00:27:49.640 --> 00:27:53.005 This is a you know the the moving from

NOTE Confidence: 0.762723183846154

00:27:53.005 --> 00:27:55.880 AUS to suspicious for malignancy.

NOTE Confidence: 0.762723183846154

00:27:55.880 --> 00:27:58.322 We sub classify into of course

NOTE Confidence: 0.762723183846154

00:27:58.322 --> 00:27:59.950 suspicious for a primary

NOTE Confidence: 0.639170973333333

00:28:00.028 --> 00:28:01.880 cerevaricular malignancy,

NOTE Confidence: 0.639170973333333

00:28:01.880 --> 00:28:03.832 metastasis and lymphoma because

NOTE Confidence: 0.639170973333333

00:28:03.832 --> 00:28:06.272 it's important for the management.

NOTE Confidence: 0.639170973333333

00:28:06.280 --> 00:28:09.430 Some example you can see few clusters

NOTE Confidence: 0.639170973333333

00:28:09.430 --> 00:28:12.034 are typically malignant but not enough

NOTE Confidence: 0.639170973333333

00:28:12.034 --> 00:28:14.771 for any conclusion or some clusters in

NOTE Confidence: 0.639170973333333

00:28:14.850 --> 00:28:18.042 which we have some artifact And of course  
NOTE Confidence: 0.6391709733333333

00:28:18.042 --> 00:28:20.000 we recognize that there are some Atiba,  
NOTE Confidence: 0.6391709733333333

00:28:20.000 --> 00:28:22.412 but we cannot be completely confident  
NOTE Confidence: 0.6391709733333333

00:28:22.412 --> 00:28:24.799 in a definitive diagnosis or malignancy  
NOTE Confidence: 0.6391709733333333

00:28:24.799 --> 00:28:27.298 also because I would like to remember  
NOTE Confidence: 0.6391709733333333

00:28:27.298 --> 00:28:29.698 that a diagnosis or malignancy is  
NOTE Confidence: 0.6391709733333333

00:28:29.698 --> 00:28:31.979 associated with a more aggressive treatment.  
NOTE Confidence: 0.6391709733333333

00:28:31.979 --> 00:28:34.670 So you have to be sure of that what  
NOTE Confidence: 0.6391709733333333

00:28:34.737 --> 00:28:37.054 you are saying what you're seeing on  
NOTE Confidence: 0.6391709733333333

00:28:37.054 --> 00:28:39.679 cytology is is correct and is the right  
NOTE Confidence: 0.6391709733333333

00:28:39.680 --> 00:28:43.160 diagnosis and of course you you have you,  
NOTE Confidence: 0.6391709733333333

00:28:43.160 --> 00:28:45.115 you have to have enough  
NOTE Confidence: 0.6391709733333333

00:28:45.115 --> 00:28:46.679 criteria for this diagnosis.  
NOTE Confidence: 0.6391709733333333

00:28:46.680 --> 00:28:49.333 Some other example of suspicious on the  
NOTE Confidence: 0.6391709733333333

00:28:49.333 --> 00:28:51.901 upper right that you see this delicate  
NOTE Confidence: 0.6391709733333333

00:28:51.901 --> 00:28:53.980 and salt and pepper appearance but

NOTE Confidence: 0.6391709733333333

00:28:53.980 --> 00:28:56.653 just in one cluster we are not able

NOTE Confidence: 0.6391709733333333

00:28:56.653 --> 00:28:59.384 to apply the also the immuno or in the

NOTE Confidence: 0.6391709733333333

00:28:59.384 --> 00:29:01.631 bottom in which we have this population

NOTE Confidence: 0.6391709733333333

00:29:01.631 --> 00:29:04.515 of this cohesive typical cells looks

NOTE Confidence: 0.6391709733333333

00:29:04.515 --> 00:29:06.559 like a lymphoproliferative disorder,

NOTE Confidence: 0.6391709733333333

00:29:06.560 --> 00:29:08.320 but again not enough

NOTE Confidence: 0.6391709733333333

00:29:08.320 --> 00:29:10.080 material for flow cytometry.

NOTE Confidence: 0.6391709733333333

00:29:10.080 --> 00:29:12.627 Or also here on the right you can see

NOTE Confidence: 0.6391709733333333

00:29:12.627 --> 00:29:15.398 in favor and suspicious for lymphoma,

NOTE Confidence: 0.6391709733333333

00:29:15.400 --> 00:29:16.508 lymphoproliferative disorder,

NOTE Confidence: 0.6391709733333333

00:29:16.508 --> 00:29:20.940 but we need to be sure to immunophenotyping

NOTE Confidence: 0.6391709733333333

00:29:21.022 --> 00:29:24.438 and sometimes we do not have enough material.

NOTE Confidence: 0.6391709733333333

00:29:24.440 --> 00:29:26.558 Another example is this few cells

NOTE Confidence: 0.6391709733333333

00:29:26.558 --> 00:29:29.301 in which you see there's a mucinous

NOTE Confidence: 0.6391709733333333

00:29:29.301 --> 00:29:31.803 component in the cytoplasts and this

NOTE Confidence: 0.6391709733333333

00:29:31.803 --> 00:29:34.618 was on Histology and Mac but not a lot  
NOTE Confidence: 0.6391709733333333

00:29:34.618 --> 00:29:37.618 of the clusters or this in which you  
NOTE Confidence: 0.6391709733333333

00:29:37.618 --> 00:29:39.920 have this delicate population of cells,  
NOTE Confidence: 0.6391709733333333

00:29:39.920 --> 00:29:43.200 just a few clusters with some heart effect,  
NOTE Confidence: 0.6391709733333333

00:29:43.200 --> 00:29:46.238 some blood not enough for for anything.  
NOTE Confidence: 0.6391709733333333

00:29:46.240 --> 00:29:48.410 So it's better if you stay with  
NOTE Confidence: 0.6391709733333333

00:29:48.410 --> 00:29:50.400 us a speechless for malignancy.  
NOTE Confidence: 0.6391709733333333

00:29:50.400 --> 00:29:52.446 Another possibility here is if you  
NOTE Confidence: 0.6391709733333333

00:29:52.446 --> 00:29:54.664 use if you define the specific  
NOTE Confidence: 0.6391709733333333

00:29:54.664 --> 00:29:56.236 criteria for an entity.  
NOTE Confidence: 0.6391709733333333

00:29:56.240 --> 00:29:59.489 In this case you can see the criteria for  
NOTE Confidence: 0.6391709733333333

00:29:59.489 --> 00:30:01.689 epidermoid appearance of the cluster and  
NOTE Confidence: 0.6391709733333333

00:30:01.689 --> 00:30:04.639 on the right mucus of producing cells.  
NOTE Confidence: 0.6391709733333333

00:30:04.640 --> 00:30:05.554 But again,  
NOTE Confidence: 0.6391709733333333

00:30:05.554 --> 00:30:07.839 not enough with only this.  
NOTE Confidence: 0.6391709733333333

00:30:07.840 --> 00:30:10.720 The two cluster to say this is a Mac,

NOTE Confidence: 0.6391709733333333  
00:30:10.720 --> 00:30:13.804 so it's better to use suspicious  
NOTE Confidence: 0.6391709733333333  
00:30:13.804 --> 00:30:16.480 of for malignancy favoring a Mac.  
NOTE Confidence: 0.6391709733333333  
00:30:16.480 --> 00:30:18.260 Also these other examples,  
NOTE Confidence: 0.6391709733333333  
00:30:18.260 --> 00:30:21.006 this was the only the only few  
NOTE Confidence: 0.6391709733333333  
00:30:21.006 --> 00:30:22.938 clusters in these pictures that are  
NOTE Confidence: 0.6391709733333333  
00:30:22.938 --> 00:30:25.797 of course as you can see highly  
NOTE Confidence: 0.6391709733333333  
00:30:25.797 --> 00:30:27.441 suggestive for adenocystic carcinoma  
NOTE Confidence: 0.6391709733333333  
00:30:27.507 --> 00:30:29.266 because of these translucent material,  
NOTE Confidence: 0.6391709733333333  
00:30:29.266 --> 00:30:31.877 the best alloyed appearance of the cells.  
NOTE Confidence: 0.6391709733333333  
00:30:31.880 --> 00:30:35.891 But again for this so tough diagnosis  
NOTE Confidence: 0.6391709733333333  
00:30:35.891 --> 00:30:38.640 you cannot base the, the,  
NOTE Confidence: 0.6391709733333333  
00:30:38.640 --> 00:30:39.120 the,  
NOTE Confidence: 0.6391709733333333  
00:30:39.120 --> 00:30:42.480 the record only on there's a few  
NOTE Confidence: 0.6391709733333333  
00:30:42.480 --> 00:30:45.318 clusters not they are not not enough.  
NOTE Confidence: 0.6391709733333333  
00:30:45.320 --> 00:30:47.126 Let's go to the Hagley or the  
NOTE Confidence: 0.6391709733333333

00:30:47.126 --> 00:30:48.839 inhabitants of an apple by Madrid.  
NOTE Confidence: 0.596834914

00:30:50.960 --> 00:30:52.200 This is the the, the,  
NOTE Confidence: 0.596834914

00:30:52.200 --> 00:30:54.132 the category of malignant is defined  
NOTE Confidence: 0.596834914

00:30:54.132 --> 00:30:56.280 when we have all the criteria,  
NOTE Confidence: 0.596834914

00:30:56.280 --> 00:30:59.192 isn't the first maybe the adhesives the  
NOTE Confidence: 0.596834914

00:30:59.192 --> 00:31:02.290 category because we have samples in which  
NOTE Confidence: 0.596834914

00:31:02.290 --> 00:31:04.954 we recognize the criteria for malignancy.  
NOTE Confidence: 0.596834914

00:31:04.960 --> 00:31:07.508 We try to super classify when possible  
NOTE Confidence: 0.596834914

00:31:07.508 --> 00:31:09.855 into the different types of course  
NOTE Confidence: 0.596834914

00:31:09.855 --> 00:31:12.231 and also degrades because again it's  
NOTE Confidence: 0.596834914

00:31:12.231 --> 00:31:14.543 important for the management and also  
NOTE Confidence: 0.596834914

00:31:14.543 --> 00:31:17.200 it's important to recognize if this is  
NOTE Confidence: 0.596834914

00:31:17.200 --> 00:31:20.000 a lymphoma of coma or a metastasis.  
NOTE Confidence: 0.596834914

00:31:20.000 --> 00:31:21.725 The risk of malignancy now  
NOTE Confidence: 0.596834914

00:31:21.725 --> 00:31:23.155 is higher than 9080%.

NOTE Confidence: 0.596834914

00:31:23.155 --> 00:31:26.448 In the 1st edition was higher than 90%.

NOTE Confidence: 0.596834914

00:31:26.448 --> 00:31:28.560 This is the declassification.

NOTE Confidence: 0.596834914

00:31:28.560 --> 00:31:30.960 We have an introduction and then a detailed

NOTE Confidence: 0.596834914

00:31:30.960 --> 00:31:33.037 discussion of all the different entities.

NOTE Confidence: 0.596834914

00:31:33.040 --> 00:31:36.604 You can see in the upper part is a liquid

NOTE Confidence: 0.596834914

00:31:36.604 --> 00:31:38.514 based ontology of an epimycopelial.

NOTE Confidence: 0.596834914

00:31:38.520 --> 00:31:42.118 You can recognize the luminal basaloid and

NOTE Confidence: 0.596834914

00:31:42.118 --> 00:31:45.398 the abnormal myopelial clear cell component,

NOTE Confidence: 0.596834914

00:31:45.400 --> 00:31:47.044 the acetic cell carcinoma,

NOTE Confidence: 0.596834914

00:31:47.044 --> 00:31:48.688 with this granular appearance

NOTE Confidence: 0.596834914

00:31:48.688 --> 00:31:50.359 in the upper right,

NOTE Confidence: 0.596834914

00:31:50.360 --> 00:31:53.744 the Mac in the left bottom with the

NOTE Confidence: 0.596834914

00:31:53.744 --> 00:31:56.239 epithelial cells and mucus producing

NOTE Confidence: 0.596834914

00:31:56.239 --> 00:31:59.850 cells and the typical appearance of hub

NOTE Confidence: 0.596834914

00:31:59.850 --> 00:32:03.540 eyeline are cellular globals so that you

NOTE Confidence: 0.596834914

00:32:03.540 --> 00:32:06.194 have surrounded by cells back-to-back

NOTE Confidence: 0.596834914

00:32:06.194 --> 00:32:09.278 that you have in adenocystic carcinoma.

NOTE Confidence: 0.596834914

00:32:09.280 --> 00:32:10.920 Some example from the Atlas.

NOTE Confidence: 0.596834914

00:32:10.920 --> 00:32:13.999 So this is an ascenesal carcinoma in

NOTE Confidence: 0.596834914

00:32:13.999 --> 00:32:16.873 which you can recognize the granular

NOTE Confidence: 0.596834914

00:32:16.873 --> 00:32:19.623 abundant cytoplasm and also you can

NOTE Confidence: 0.596834914

00:32:19.623 --> 00:32:22.083 see the very low nuclear cytoplasm

NOTE Confidence: 0.596834914

00:32:22.083 --> 00:32:24.844 ratio of some nucleolide And of course

NOTE Confidence: 0.596834914

00:32:24.844 --> 00:32:28.188 if you are lucky enough to have a

NOTE Confidence: 0.596834914

00:32:28.188 --> 00:32:30.473 material you can perform immunostate.

NOTE Confidence: 0.596834914

00:32:30.480 --> 00:32:32.902 In some cases you can also recognize

NOTE Confidence: 0.596834914

00:32:32.902 --> 00:32:35.240 the cymogen granols has in this picture,

NOTE Confidence: 0.596834914

00:32:35.240 --> 00:32:37.570 but usually positivity for dark

NOTE Confidence: 0.596834914

00:32:37.570 --> 00:32:39.434 one and nor one.

NOTE Confidence: 0.596834914

00:32:39.440 --> 00:32:41.624 This is an example of a secretary

NOTE Confidence: 0.596834914

00:32:41.624 --> 00:32:44.000 carcinoma in which we have this low grade,

NOTE Confidence: 0.596834914

00:32:44.000 --> 00:32:45.916 the vesicular nuclear high,

NOTE Confidence: 0.596834914

00:32:45.916 --> 00:32:48.790 the back related cytoplasm and some

NOTE Confidence: 0.596834914

00:32:48.871 --> 00:32:51.902 prominent nucleoli and again if you have

NOTE Confidence: 0.596834914

00:32:51.902 --> 00:32:54.960 material and you can perform cellblock,

NOTE Confidence: 0.596834914

00:32:54.960 --> 00:32:57.564 mammoglobulin and aspirin Android

NOTE Confidence: 0.596834914

00:32:57.564 --> 00:32:59.517 they are positive.

NOTE Confidence: 0.596834914

00:32:59.520 --> 00:33:02.094 This is an example of a low grade Mac

NOTE Confidence: 0.596834914

00:33:02.094 --> 00:33:04.954 in which you have a combination of the

NOTE Confidence: 0.596834914

00:33:04.960 --> 00:33:07.894 epidermoid cells with a really well

NOTE Confidence: 0.596834914

00:33:07.894 --> 00:33:10.513 defined cytoplans border and there's

NOTE Confidence: 0.596834914

00:33:10.513 --> 00:33:12.837 an oncositoid appearance intermingled

NOTE Confidence: 0.596834914

00:33:12.837 --> 00:33:16.280 with this mucosa producing the cells.

NOTE Confidence: 0.596834914

00:33:16.280 --> 00:33:16.609 So,

NOTE Confidence: 0.596834914

00:33:16.609 --> 00:33:19.241 but we have to remember that we have

NOTE Confidence: 0.596834914

00:33:19.241 --> 00:33:22.051 also the I grade the Mac in which we

NOTE Confidence: 0.596834914

00:33:22.051 --> 00:33:24.203 have this really highly pleomorphic

NOTE Confidence: 0.596834914

00:33:24.203 --> 00:33:26.658 mostly squamoid and squamous cells  
NOTE Confidence: 0.596834914

00:33:26.658 --> 00:33:30.544 and if we are lucky enough we can  
NOTE Confidence: 0.596834914

00:33:30.544 --> 00:33:32.480 recognize this mucinous component.  
NOTE Confidence: 0.596834914

00:33:32.480 --> 00:33:34.240 Sometimes this is not possible,  
NOTE Confidence: 0.596834914

00:33:34.240 --> 00:33:36.272 especially also on Histology.  
NOTE Confidence: 0.596834914

00:33:36.272 --> 00:33:40.081 So you can recognize with pass and pass  
NOTE Confidence: 0.596834914

00:33:40.081 --> 00:33:44.520 the the of the mucosa producing component.  
NOTE Confidence: 0.596834914

00:33:44.520 --> 00:33:47.299 This is an example of salivary duct  
NOTE Confidence: 0.596834914

00:33:47.299 --> 00:33:49.984 carcinoma in which we have usually  
NOTE Confidence: 0.596834914

00:33:49.984 --> 00:33:52.339 isolated cells or Synthesia like  
NOTE Confidence: 0.596834914

00:33:52.339 --> 00:33:54.751 cluster usually 3 dimensional with  
NOTE Confidence: 0.596834914

00:33:54.751 --> 00:33:57.535 well defined cell borders with the  
NOTE Confidence: 0.596834914

00:33:57.535 --> 00:33:59.572 prominent eccentrically located the  
NOTE Confidence: 0.596834914

00:33:59.572 --> 00:34:01.668 nuclear high oncocitoid appearance  
NOTE Confidence: 0.596834914

00:34:01.668 --> 00:34:03.240 of the cytoplasm.  
NOTE Confidence: 0.596834914

00:34:03.240 --> 00:34:05.942 Based on morphology alone you cannot say

NOTE Confidence: 0.596834914

00:34:05.942 --> 00:34:09.078 that this is a salivary duct carcinoma.

NOTE Confidence: 0.596834914

00:34:09.080 --> 00:34:11.565 You can define this as an eye

NOTE Confidence: 0.596834914

00:34:11.565 --> 00:34:12.275 grade carcinoma.

NOTE Confidence: 0.596834914

00:34:12.280 --> 00:34:14.821 It's only the support part of immuno

NOTE Confidence: 0.596834914

00:34:14.821 --> 00:34:17.146 and the positivity which is specific

NOTE Confidence: 0.596834914

00:34:17.146 --> 00:34:19.091 for androgen receptor that make

NOTE Confidence: 0.596834914

00:34:19.091 --> 00:34:22.120 you the possibility to put this

NOTE Confidence: 0.596834914

00:34:22.120 --> 00:34:24.760 in a definitive diagnosis of

NOTE Confidence: 0.84436039

00:34:24.862 --> 00:34:27.060 SDC. You have of course also

NOTE Confidence: 0.84436039

00:34:27.060 --> 00:34:28.516 necrotic and mitotic component,

NOTE Confidence: 0.84436039

00:34:28.520 --> 00:34:30.185 it's an high grade carcinoma

NOTE Confidence: 0.84436039

00:34:30.185 --> 00:34:32.255 and other other two example have

NOTE Confidence: 0.84436039

00:34:32.255 --> 00:34:34.325 adenoid cystic in which you have

NOTE Confidence: 0.84436039

00:34:34.325 --> 00:34:36.104 the tubular pattern, very nice.

NOTE Confidence: 0.84436039

00:34:36.104 --> 00:34:38.708 The most commonly seen of the crib

NOTE Confidence: 0.84436039

00:34:38.708 --> 00:34:41.798 reform in which we have these highline  
NOTE Confidence: 0.84436039

00:34:41.798 --> 00:34:43.659 translucent globules with cells  
NOTE Confidence: 0.84436039

00:34:43.659 --> 00:34:46.497 surrounding around or the solid pattern  
NOTE Confidence: 0.84436039

00:34:46.497 --> 00:34:49.405 which is the most tricky because it  
NOTE Confidence: 0.84436039

00:34:49.405 --> 00:34:51.906 might resemble of course a vessel  
NOTE Confidence: 0.84436039

00:34:51.906 --> 00:34:54.036 cell adenoma versus vessel cell,  
NOTE Confidence: 0.84436039

00:34:54.040 --> 00:34:54.978 mostly carcin.  
NOTE Confidence: 0.84436039

00:34:54.978 --> 00:34:57.792 And this is also another typical  
NOTE Confidence: 0.84436039

00:34:57.792 --> 00:35:00.429 example of the crib reform pattern  
NOTE Confidence: 0.84436039

00:35:00.429 --> 00:35:02.638 in the crib reform adenoid,  
NOTE Confidence: 0.84436039

00:35:02.638 --> 00:35:04.036 the cystic carcinoma.  
NOTE Confidence: 0.84436039

00:35:04.040 --> 00:35:05.894 But as mentioned it today I  
NOTE Confidence: 0.84436039

00:35:05.894 --> 00:35:07.915 would like to remember that we  
NOTE Confidence: 0.84436039

00:35:07.915 --> 00:35:09.355 might have also metastasis,  
NOTE Confidence: 0.84436039

00:35:09.360 --> 00:35:11.140 the most commonly seen  
NOTE Confidence: 0.84436039

00:35:11.140 --> 00:35:12.475 however metastatic Melanoma.

NOTE Confidence: 0.84436039

00:35:12.480 --> 00:35:15.045 As you can see in the upper right you

NOTE Confidence: 0.84436039

00:35:15.045 --> 00:35:17.214 have this difference appearances of

NOTE Confidence: 0.84436039

00:35:17.214 --> 00:35:19.515 the cells nucleus with inclusions,

NOTE Confidence: 0.84436039

00:35:19.515 --> 00:35:21.840 evidence of pigment in the

NOTE Confidence: 0.84436039

00:35:21.840 --> 00:35:24.080 cytoplasm or in the background

NOTE Confidence: 0.84436039

00:35:24.080 --> 00:35:26.530 binucleated cells cells and also

NOTE Confidence: 0.84436039

00:35:26.530 --> 00:35:28.980 of course metastatic squamous cell

NOTE Confidence: 0.84436039

00:35:29.059 --> 00:35:31.957 carcinoma in which we have this

NOTE Confidence: 0.84436039

00:35:31.957 --> 00:35:33.889 orangiophilic and dense appearance

NOTE Confidence: 0.84436039

00:35:33.964 --> 00:35:36.599 of the cytoplasm necrotic component.

NOTE Confidence: 0.84436039

00:35:36.600 --> 00:35:39.888 Irregular cells and nuclei.

NOTE Confidence: 0.84436039

00:35:39.888 --> 00:35:42.354 This keratotic orangiophilic

NOTE Confidence: 0.84436039

00:35:42.354 --> 00:35:44.930 cells the the squamous cell

NOTE Confidence: 0.84436039

00:35:44.930 --> 00:35:46.480 carcinoma of the salivary gland.

NOTE Confidence: 0.84436039

00:35:46.480 --> 00:35:47.596 It's exceptionally rare.

NOTE Confidence: 0.84436039

00:35:47.596 --> 00:35:50.200 So when you have a squamous component,  
NOTE Confidence: 0.84436039

00:35:50.200 --> 00:35:52.222 the first differential that you have  
NOTE Confidence: 0.84436039

00:35:52.222 --> 00:35:55.004 to put to have the I grade Mac try  
NOTE Confidence: 0.84436039

00:35:55.004 --> 00:35:57.616 to recognize if this is an I grade  
NOTE Confidence: 0.84436039

00:35:57.616 --> 00:35:59.986 Mac with this extensive as squamous  
NOTE Confidence: 0.84436039

00:35:59.986 --> 00:36:02.519 component and metastatic localization,  
NOTE Confidence: 0.84436039

00:36:02.520 --> 00:36:05.172 especially from the adenac that also  
NOTE Confidence: 0.84436039

00:36:05.172 --> 00:36:07.646 metastatic from another side and then  
NOTE Confidence: 0.84436039

00:36:07.646 --> 00:36:09.879 as an as a diagnosis of exclusion  
NOTE Confidence: 0.84436039

00:36:09.879 --> 00:36:12.040 when you haven't find anything.  
NOTE Confidence: 0.84436039

00:36:12.040 --> 00:36:13.868 But it's almost impossible.  
NOTE Confidence: 0.84436039

00:36:13.868 --> 00:36:18.279 Think about a primary squamous carcinoma.  
NOTE Confidence: 0.84436039

00:36:18.280 --> 00:36:20.464 It's important to to grade in  
NOTE Confidence: 0.84436039

00:36:20.464 --> 00:36:22.372 onsetology also because this will  
NOTE Confidence: 0.84436039

00:36:22.372 --> 00:36:24.277 influence the extent of surgery.  
NOTE Confidence: 0.84436039

00:36:24.280 --> 00:36:27.521 So it's an important information for the

NOTE Confidence: 0.84436039

00:36:27.521 --> 00:36:30.638 clinicians in term of radical resection,

NOTE Confidence: 0.84436039

00:36:30.640 --> 00:36:31.928 limited resection,

NOTE Confidence: 0.84436039

00:36:31.928 --> 00:36:33.216 negative session,

NOTE Confidence: 0.84436039

00:36:33.216 --> 00:36:36.436 facial nerve of course sacrifice.

NOTE Confidence: 0.84436039

00:36:36.440 --> 00:36:39.635 We published it in 2010 and 20 this paper,

NOTE Confidence: 0.84436039

00:36:39.640 --> 00:36:42.460 including 66 digitized cases

NOTE Confidence: 0.84436039

00:36:42.460 --> 00:36:45.280 of the livery carcinoma.

NOTE Confidence: 0.84436039

00:36:45.280 --> 00:36:47.135 The cases were reviewed by a panel

NOTE Confidence: 0.84436039

00:36:47.135 --> 00:36:48.920 of experience in the cytopathology.

NOTE Confidence: 0.84436039

00:36:48.920 --> 00:36:52.056 19 You can see that the overall

NOTE Confidence: 0.84436039

00:36:52.056 --> 00:36:53.779 grading accuracy was 90%.

NOTE Confidence: 0.84436039

00:36:53.779 --> 00:36:57.190 We wanted to see the ability of F and

NOTE Confidence: 0.84436039

00:36:57.284 --> 00:37:00.189 A to distinguish low grade versus I

NOTE Confidence: 0.84436039

00:37:00.189 --> 00:37:06.386 grade 20 I 90% and 808088 point 3%

NOTE Confidence: 0.84436039

00:37:06.386 --> 00:37:09.096 impossible for the indeterminate for

NOTE Confidence: 0.84436039

00:37:09.096 --> 00:37:11.935 the intermediate grade and the best  
NOTE Confidence: 0.84436039

00:37:11.935 --> 00:37:14.960 results of course were obtained with Mac.  
NOTE Confidence: 0.84436039

00:37:14.960 --> 00:37:18.201 So we concluded that that cases should  
NOTE Confidence: 0.84436039

00:37:18.201 --> 00:37:21.559 not be graded one in the terminate.  
NOTE Confidence: 0.84436039

00:37:21.560 --> 00:37:23.684 We also discussed it about this  
NOTE Confidence: 0.84436039

00:37:23.684 --> 00:37:25.972 is Doctor Farkin and I about the  
NOTE Confidence: 0.84436039

00:37:25.972 --> 00:37:27.802 role of ancillary technique if  
NOTE Confidence: 0.84436039

00:37:27.802 --> 00:37:30.764 we have to stay with the chapter  
NOTE Confidence: 0.84436039

00:37:30.764 --> 00:37:32.556 or we're changing something.  
NOTE Confidence: 0.84436039

00:37:32.560 --> 00:37:35.626 We decided that according to the  
NOTE Confidence: 0.84436039

00:37:35.626 --> 00:37:38.489 reason to also new changes in  
NOTE Confidence: 0.84436039

00:37:38.489 --> 00:37:40.704 the genetic alterations we wanted  
NOTE Confidence: 0.84436039

00:37:40.704 --> 00:37:42.560 to maintain the chapter.  
NOTE Confidence: 0.84436039

00:37:42.560 --> 00:37:44.460 Mostly there is the evidence  
NOTE Confidence: 0.84436039

00:37:44.460 --> 00:37:45.600 by the literature.  
NOTE Confidence: 0.84436039

00:37:45.600 --> 00:37:48.432 This is just one of the example that

NOTE Confidence: 0.84436039

00:37:48.432 --> 00:37:50.872 all the possible ancillary techniques

NOTE Confidence: 0.84436039

00:37:50.872 --> 00:37:54.160 can be performed with the feasible

NOTE Confidence: 0.84436039

00:37:54.160 --> 00:37:58.018 and reliable results on all the

NOTE Confidence: 0.84436039

00:37:58.018 --> 00:37:59.956 different psychological material.

NOTE Confidence: 0.84436039

00:37:59.960 --> 00:38:02.528 And this is the summary of the chapter

NOTE Confidence: 0.84436039

00:38:02.528 --> 00:38:04.880 in which we have an introduction,

NOTE Confidence: 0.77788356125

00:38:04.880 --> 00:38:07.055 then a description about the

NOTE Confidence: 0.77788356125

00:38:07.055 --> 00:38:09.394 material and methods, the special

NOTE Confidence: 0.77788356125

00:38:09.394 --> 00:38:11.462 stains but also immunocytochemistry

NOTE Confidence: 0.77788356125

00:38:11.462 --> 00:38:14.440 in the different type of lesions.

NOTE Confidence: 0.77788356125

00:38:14.440 --> 00:38:18.360 And of course the role of translocation and

NOTE Confidence: 0.77788356125

00:38:18.360 --> 00:38:21.237 fusional oncogenes are in salivary tumors.

NOTE Confidence: 0.77788356125

00:38:21.240 --> 00:38:24.040 But also the role of Fisher PCR

NOTE Confidence: 0.77788356125

00:38:24.040 --> 00:38:26.040 next generation sequencing and flow

NOTE Confidence: 0.77788356125

00:38:26.040 --> 00:38:28.595 cytometry in the upper part is music

NOTE Confidence: 0.77788356125

00:38:28.595 --> 00:38:30.757 harming in the Mac in the middle.  
NOTE Confidence: 0.77788356125

00:38:30.760 --> 00:38:32.005 Here's a plan,  
NOTE Confidence: 0.77788356125

00:38:32.005 --> 00:38:34.495 one nuclear expression and in the  
NOTE Confidence: 0.77788356125

00:38:34.495 --> 00:38:37.860 bottom is ACD 117 in a cluster from  
NOTE Confidence: 0.77788356125

00:38:37.860 --> 00:38:39.796 another noise cystic carcinom.  
NOTE Confidence: 0.77788356125

00:38:39.800 --> 00:38:41.963 And these are the tables about the  
NOTE Confidence: 0.77788356125

00:38:41.963 --> 00:38:44.159 immuno for the different patterns.  
NOTE Confidence: 0.77788356125

00:38:44.160 --> 00:38:46.015 So they are all included of course  
NOTE Confidence: 0.77788356125

00:38:46.015 --> 00:38:48.276 in the chapter and in the second edition.  
NOTE Confidence: 0.77788356125

00:38:48.280 --> 00:38:51.283 And you can see we classified the  
NOTE Confidence: 0.77788356125

00:38:51.283 --> 00:38:53.814 oncocytic pattern including benign and  
NOTE Confidence: 0.77788356125

00:38:53.814 --> 00:38:56.158 malignant antidisal warting oncocyoma,  
NOTE Confidence: 0.77788356125

00:38:56.160 --> 00:38:59.040 acinic cell carcinoma secretory Mac,  
NOTE Confidence: 0.77788356125

00:38:59.040 --> 00:38:59.962 salivary Dr.  
NOTE Confidence: 0.77788356125

00:38:59.962 --> 00:39:02.267 and all the possible immunomarkers  
NOTE Confidence: 0.77788356125

00:39:02.267 --> 00:39:04.480 with positivity and negativity.

NOTE Confidence: 0.77788356125

00:39:04.480 --> 00:39:06.772 For the basaloid we did the

NOTE Confidence: 0.77788356125

00:39:06.772 --> 00:39:07.918 same gliomorphic adenoma,

NOTE Confidence: 0.77788356125

00:39:07.920 --> 00:39:10.496 basal cellular denomin Sonoma,

NOTE Confidence: 0.77788356125

00:39:10.496 --> 00:39:12.428 adenoid myopetalioma and

NOTE Confidence: 0.77788356125

00:39:12.428 --> 00:39:14.297 Myopetalia carcinoma, AP,

NOTE Confidence: 0.77788356125

00:39:14.297 --> 00:39:16.028 myopetalia and polymorphous

NOTE Confidence: 0.77788356125

00:39:16.028 --> 00:39:18.336 adenocarcinoma and all the

NOTE Confidence: 0.77788356125

00:39:18.336 --> 00:39:20.679 possible positivity and negativity.

NOTE Confidence: 0.77788356125

00:39:20.680 --> 00:39:23.074 The same for clear cell features myopia,

NOTE Confidence: 0.77788356125

00:39:23.080 --> 00:39:25.078 lioma, myopia carcinoma,

NOTE Confidence: 0.77788356125

00:39:25.078 --> 00:39:27.076 AP, myopia carcinoma,

NOTE Confidence: 0.77788356125

00:39:27.080 --> 00:39:30.622 acinic Mac and also the hyalinizing clear

NOTE Confidence: 0.77788356125

00:39:30.622 --> 00:39:34.079 cell carcinoma and the different markers.

NOTE Confidence: 0.77788356125

00:39:34.080 --> 00:39:37.699 And of course also a table for

NOTE Confidence: 0.77788356125

00:39:37.699 --> 00:39:39.806 the metastatic localization and

NOTE Confidence: 0.77788356125

00:39:39.806 --> 00:39:42.560 the possible site of the origin.  
NOTE Confidence: 0.77788356125

00:39:42.560 --> 00:39:45.395 This is a table concerning the genetic  
NOTE Confidence: 0.77788356125

00:39:45.395 --> 00:39:48.249 alterations and you can see that these  
NOTE Confidence: 0.77788356125

00:39:48.249 --> 00:39:51.160 are associated with different type of tumors,  
NOTE Confidence: 0.77788356125

00:39:51.160 --> 00:39:54.200 not only malignant tumors and we might have  
NOTE Confidence: 0.77788356125

00:39:54.200 --> 00:39:56.999 different of them rearrangement of fusion,  
NOTE Confidence: 0.77788356125

00:39:57.000 --> 00:39:57.952 some mutations,  
NOTE Confidence: 0.77788356125

00:39:57.952 --> 00:39:58.428 amplifications.  
NOTE Confidence: 0.77788356125

00:39:58.428 --> 00:40:02.479 And when you look at the percentage of cases,  
NOTE Confidence: 0.77788356125

00:40:02.480 --> 00:40:06.648 we we have some example of very high  
NOTE Confidence: 0.77788356125

00:40:06.648 --> 00:40:10.134 percentage including of course in psychotic  
NOTE Confidence: 0.77788356125

00:40:10.134 --> 00:40:13.695 carcinoma 100% for the different ETV  
NOTE Confidence: 0.77788356125

00:40:13.695 --> 00:40:18.878 6 and TRT three and not only fusion.  
NOTE Confidence: 0.77788356125

00:40:18.880 --> 00:40:19.795 So in conclusion,  
NOTE Confidence: 0.77788356125

00:40:19.795 --> 00:40:24.102 we can say that the F and A has a very high  
NOTE Confidence: 0.77788356125

00:40:24.102 --> 00:40:26.197 diagnostic accuracy in salivary cytology.

NOTE Confidence: 0.77788356125  
00:40:26.200 --> 00:40:28.804 This is a regardless of the classification  
NOTE Confidence: 0.77788356125  
00:40:28.804 --> 00:40:30.840 system and the Milan system.  
NOTE Confidence: 0.77788356125  
00:40:30.840 --> 00:40:31.878 By the way,  
NOTE Confidence: 0.77788356125  
00:40:31.878 --> 00:40:33.954 the use of a classification system,  
NOTE Confidence: 0.77788356125  
00:40:33.960 --> 00:40:36.210 in this case the Milan because  
NOTE Confidence: 0.77788356125  
00:40:36.210 --> 00:40:38.027 it's the unique classification that  
NOTE Confidence: 0.77788356125  
00:40:38.027 --> 00:40:40.940 we have for salivary may offer  
NOTE Confidence: 0.77788356125  
00:40:40.940 --> 00:40:43.360 information for the management.  
NOTE Confidence: 0.77788356125  
00:40:43.360 --> 00:40:45.380 So it's a practical classification  
NOTE Confidence: 0.77788356125  
00:40:45.380 --> 00:40:48.794 system in which we put the deletion site  
NOTE Confidence: 0.77788356125  
00:40:48.794 --> 00:40:51.440 with risk of malignancy and strategies  
NOTE Confidence: 0.77788356125  
00:40:51.440 --> 00:40:53.918 we had of course improved the relevance.  
NOTE Confidence: 0.77788356125  
00:40:53.920 --> 00:40:55.600 So we are very happy for  
NOTE Confidence: 0.77788356125  
00:40:55.600 --> 00:40:56.786 that fundamental system,  
NOTE Confidence: 0.77788356125  
00:40:56.786 --> 00:40:58.598 The Who and Dorset,  
NOTE Confidence: 0.77788356125

00:40:58.600 --> 00:40:59.971 the melon system,  
NOTE Confidence: 0.77788356125

00:40:59.971 --> 00:41:02.256 but mostly the American Society  
NOTE Confidence: 0.77788356125

00:41:02.256 --> 00:41:03.920 of Clinical Oncology.  
NOTE Confidence: 0.77788356125

00:41:03.920 --> 00:41:06.482 The 2nd edition revised of course  
NOTE Confidence: 0.77788356125

00:41:06.482 --> 00:41:09.046 the criteria the risk of malignancy  
NOTE Confidence: 0.77788356125

00:41:09.046 --> 00:41:12.840 for each of them based mostly on the  
NOTE Confidence: 0.77788356125

00:41:12.840 --> 00:41:15.640 200 publications and meta analysis.  
NOTE Confidence: 0.77788356125

00:41:15.640 --> 00:41:18.241 And in this regard I have to say that  
NOTE Confidence: 0.77788356125

00:41:18.241 --> 00:41:21.236 the major job for meta analysis and  
NOTE Confidence: 0.77788356125

00:41:21.236 --> 00:41:23.413 reviewers reviewer reviews was done  
NOTE Confidence: 0.77788356125

00:41:23.413 --> 00:41:26.237 by Doctor Balacha and his team in Upenn.  
NOTE Confidence: 0.77788356125

00:41:26.240 --> 00:41:29.344 So we are really thankful to the amazing  
NOTE Confidence: 0.77788356125

00:41:29.344 --> 00:41:32.512 job that Zuber did for the new risk  
NOTE Confidence: 0.77788356125

00:41:32.512 --> 00:41:35.640 of home malignancy in the second edition.  
NOTE Confidence: 0.77788356125

00:41:35.640 --> 00:41:38.112 So is this again the high  
NOTE Confidence: 0.77788356125

00:41:38.112 --> 00:41:39.760 noon of salivary cytology?

NOTE Confidence: 0.77788356125

00:41:39.760 --> 00:41:42.022 So the Milan system is against

NOTE Confidence: 0.77788356125

00:41:42.022 --> 00:41:43.153 the classical cytology.

NOTE Confidence: 0.77788356125

00:41:43.160 --> 00:41:45.518 Of course it is not also in this edition,

NOTE Confidence: 0.814192316666667

00:41:45.520 --> 00:41:48.607 because we didn't change anything in the

NOTE Confidence: 0.814192316666667

00:41:48.607 --> 00:41:51.240 classical evaluation of salivary cytology.

NOTE Confidence: 0.814192316666667

00:41:51.240 --> 00:41:53.640 We didn't have any new entity,

NOTE Confidence: 0.814192316666667

00:41:53.640 --> 00:41:55.611 any new feature,

NOTE Confidence: 0.814192316666667

00:41:55.611 --> 00:41:58.239 any new morphological something.

NOTE Confidence: 0.814192316666667

00:41:58.240 --> 00:42:02.559 We only revise and refine some criteria.

NOTE Confidence: 0.814192316666667

00:42:02.560 --> 00:42:05.160 Making possible to have these

NOTE Confidence: 0.814192316666667

00:42:05.160 --> 00:42:07.760 entities is put into categories,

NOTE Confidence: 0.814192316666667

00:42:07.760 --> 00:42:09.590 specific categories for and for

NOTE Confidence: 0.814192316666667

00:42:09.590 --> 00:42:12.707 each of them we have a risk of

NOTE Confidence: 0.814192316666667

00:42:12.707 --> 00:42:14.319 malignancy and the management.

NOTE Confidence: 0.814192316666667

00:42:14.320 --> 00:42:16.882 So it's a practical classification system

NOTE Confidence: 0.814192316666667

00:42:16.882 --> 00:42:20.238 as of course it is also the Bethesda,  
NOTE Confidence: 0.814192316666667

00:42:20.240 --> 00:42:22.400 the and all the other do I hand.  
NOTE Confidence: 0.814192316666667

00:42:22.400 --> 00:42:24.770 All the other classification systems are  
NOTE Confidence: 0.814192316666667

00:42:24.770 --> 00:42:28.520 the same meaning and the same purpose.  
NOTE Confidence: 0.814192316666667

00:42:28.520 --> 00:42:29.798 I would like to conclude with  
NOTE Confidence: 0.814192316666667

00:42:29.798 --> 00:42:30.437 these two pictures.  
NOTE Confidence: 0.814192316666667

00:42:30.440 --> 00:42:32.918 One here's the party for the publication.  
NOTE Confidence: 0.814192316666667

00:42:32.920 --> 00:42:35.104 I have the first Atlas during the news  
NOTE Confidence: 0.814192316666667

00:42:35.104 --> 00:42:37.280 Cup 2000 than any team in Vancouver.  
NOTE Confidence: 0.814192316666667

00:42:37.280 --> 00:42:39.653 This in these are pictures when we  
NOTE Confidence: 0.814192316666667

00:42:39.653 --> 00:42:42.096 receive the the the hard copy of  
NOTE Confidence: 0.814192316666667

00:42:42.096 --> 00:42:44.130 the 2nd edition Doctor Faquin and  
NOTE Confidence: 0.814192316666667

00:42:44.201 --> 00:42:46.475 I and the harder Associate editors  
NOTE Confidence: 0.814192316666667

00:42:46.475 --> 00:42:48.921 and really would like to thank all  
NOTE Confidence: 0.814192316666667

00:42:48.921 --> 00:42:51.562 of you for having been here and for  
NOTE Confidence: 0.814192316666667

00:42:51.562 --> 00:42:54.200 having invited me here and thank you.

NOTE Confidence: 0.814192316666667

00:42:54.200 --> 00:42:56.909 Thank you so much and if you have any

NOTE Confidence: 0.814192316666667

00:42:56.909 --> 00:42:59.720 question I'm open to to discuss with you.

NOTE Confidence: 0.814192316666667

00:42:59.720 --> 00:43:00.080 Thank you.

NOTE Confidence: 0.7111009

00:43:08.200 --> 00:43:10.680 Thank you for this. Fantastic.

NOTE Confidence: 0.7111009

00:43:10.680 --> 00:43:13.440 Oh, thank you and all this can

NOTE Confidence: 0.669327278

00:43:13.440 --> 00:43:15.520 be. Oh yes, I'm really,

NOTE Confidence: 0.669327278

00:43:15.520 --> 00:43:16.520 I'm really keen of that. Yeah,

NOTE Confidence: 0.67634174

00:43:16.520 --> 00:43:17.360 I've seen most of them. So I

NOTE Confidence: 0.3236539

00:43:22.080 --> 00:43:23.280 do have a question. I mean,

NOTE Confidence: 0.720423024

00:43:24.440 --> 00:43:26.040 since you also got this

NOTE Confidence: 0.2507406

00:43:28.720 --> 00:43:32.875 Once Upon a time when I was there

NOTE Confidence: 0.2507406

00:43:32.875 --> 00:43:35.640 was a lot of rest happening and

NOTE Confidence: 0.2507406

00:43:35.640 --> 00:43:39.315 then it just fell out of the way

NOTE Confidence: 0.2507406

00:43:39.315 --> 00:43:42.712 and this goes now the standard of

NOTE Confidence: 0.2507406

00:43:42.712 --> 00:43:45.400 here is a poor biopsy looking.

NOTE Confidence: 0.2507406

00:43:45.400 --> 00:43:49.866 Do you see that happening in salivary  
NOTE Confidence: 0.2507406

00:43:49.866 --> 00:43:53.484 tumors like cold wide oxy or something  
NOTE Confidence: 0.2507406

00:43:53.484 --> 00:43:56.592 like that replacing the epine?  
NOTE Confidence: 0.2507406

00:43:56.592 --> 00:44:00.822 Because all those categories I find  
NOTE Confidence: 0.2507406

00:44:00.822 --> 00:44:03.685 I find it very challenging because  
NOTE Confidence: 0.2507406

00:44:03.685 --> 00:44:07.315 the limitation is a few clusters,  
NOTE Confidence: 0.2507406

00:44:07.320 --> 00:44:12.000 they may be just cluster or maybe just  
NOTE Confidence: 0.802922485

00:44:13.800 --> 00:44:15.348 in my institution,  
NOTE Confidence: 0.802922485

00:44:15.348 --> 00:44:18.960 which is the same approach that also  
NOTE Confidence: 0.802922485

00:44:19.060 --> 00:44:22.156 Doctor Faquin has in mass General  
NOTE Confidence: 0.802922485

00:44:22.160 --> 00:44:24.440 for the major salivary gland,  
NOTE Confidence: 0.802922485

00:44:24.440 --> 00:44:26.760 I always do an FNA.  
NOTE Confidence: 0.802922485

00:44:26.760 --> 00:44:28.830 So usually core biopsy are done  
NOTE Confidence: 0.802922485

00:44:28.830 --> 00:44:31.183 only for the minor salivary gland  
NOTE Confidence: 0.802922485

00:44:31.183 --> 00:44:33.877 because for them it's more difficult.  
NOTE Confidence: 0.802922485

00:44:33.880 --> 00:44:36.968 But in any possible case in which I

NOTE Confidence: 0.802922485

00:44:36.968 --> 00:44:39.877 can perform a fine needle aspiration,

NOTE Confidence: 0.802922485

00:44:39.880 --> 00:44:43.120 I try to go with a fine needle aspiration.

NOTE Confidence: 0.802922485

00:44:43.120 --> 00:44:45.316 If you have a conventional in,

NOTE Confidence: 0.802922485

00:44:45.320 --> 00:44:49.040 like in our case liquid base or cytology,

NOTE Confidence: 0.802922485

00:44:49.040 --> 00:44:54.720 we prepare a cell almost in any occasion a

NOTE Confidence: 0.802922485

00:44:54.720 --> 00:44:57.868 cell block from the from the liquid base.

NOTE Confidence: 0.802922485

00:44:57.868 --> 00:44:59.853 Of course there are some cases in

NOTE Confidence: 0.802922485

00:44:59.853 --> 00:45:01.715 which we do not have enough material,

NOTE Confidence: 0.802922485

00:45:01.720 --> 00:45:06.257 but in the majority of cases it's

NOTE Confidence: 0.802922485

00:45:06.257 --> 00:45:08.544 not so bad and we can, you know,

NOTE Confidence: 0.802922485

00:45:08.544 --> 00:45:10.404 work on lands with ancillary

NOTE Confidence: 0.802922485

00:45:10.404 --> 00:45:11.520 technique on them.

NOTE Confidence: 0.802922485

00:45:11.520 --> 00:45:12.546 So I don't,

NOTE Confidence: 0.802922485

00:45:12.546 --> 00:45:15.420 I don't have a big experience with

NOTE Confidence: 0.802922485

00:45:15.420 --> 00:45:17.920 core biopsy especially on priority

NOTE Confidence: 0.802922485

00:45:17.920 --> 00:45:20.780 to someone our experience is mostly  
NOTE Confidence: 0.802922485

00:45:20.780 --> 00:45:23.977 psychology and they prefer to do to  
NOTE Confidence: 0.802922485

00:45:23.977 --> 00:45:26.988 do to do that because there is a big  
NOTE Confidence: 0.802922485

00:45:26.988 --> 00:45:29.796 clinic of salivary my institution now.  
NOTE Confidence: 0.802922485

00:45:29.800 --> 00:45:31.634 So I don't have for the minor,  
NOTE Confidence: 0.802922485

00:45:31.640 --> 00:45:33.662 minor salivary gland because it's more  
NOTE Confidence: 0.802922485

00:45:33.662 --> 00:45:35.920 difficult that they they do some of them.  
NOTE Confidence: 0.802922485

00:45:35.920 --> 00:45:37.760 So here in US in our  
NOTE Confidence: 0.6240645

00:45:40.800 --> 00:45:44.300 practice, the poor biopsy or the F  
NOTE Confidence: 0.6240645

00:45:44.300 --> 00:45:47.820 and A is done by the radiologist who  
NOTE Confidence: 0.6240645

00:45:47.820 --> 00:45:50.592 is doing the ultrasound examination  
NOTE Confidence: 0.6240645

00:45:50.592 --> 00:45:54.624 and the cores come to me and  
NOTE Confidence: 0.6240645

00:45:54.624 --> 00:45:57.852 the F and A is the psychology.  
NOTE Confidence: 0.6240645

00:45:57.852 --> 00:46:01.582 And of course it's just so much  
NOTE Confidence: 0.6240645

00:46:01.582 --> 00:46:03.480 easier to make a diagnosis.  
NOTE Confidence: 0.7854016333333333

00:46:03.880 --> 00:46:08.232 Yes, well in in, in our institution

NOTE Confidence: 0.7854016333333333  
00:46:08.232 --> 00:46:10.200 and we we don't do that.  
NOTE Confidence: 0.7854016333333333  
00:46:10.200 --> 00:46:13.721 But you know, even if the same because  
NOTE Confidence: 0.7854016333333333  
00:46:13.721 --> 00:46:16.043 we have an organization in which  
NOTE Confidence: 0.7854016333333333  
00:46:16.043 --> 00:46:18.559 the same person does psychology,  
NOTE Confidence: 0.7854016333333333  
00:46:18.560 --> 00:46:20.888 mystology. So the biopsy and the  
NOTE Confidence: 0.7854016333333333  
00:46:20.888 --> 00:46:22.021 psychology when they are,  
NOTE Confidence: 0.7854016333333333  
00:46:22.021 --> 00:46:24.080 I've always seen the same person which is me.  
NOTE Confidence: 0.7854016333333333  
00:46:24.080 --> 00:46:27.680 So I have I have the same at the  
NOTE Confidence: 0.7854016333333333  
00:46:27.680 --> 00:46:30.060 same point almost at the same point  
NOTE Confidence: 0.7854016333333333  
00:46:30.060 --> 00:46:32.726 and both of them and I I can check  
NOTE Confidence: 0.7854016333333333  
00:46:32.726 --> 00:46:35.238 and I can see if there is a biopsy  
NOTE Confidence: 0.7854016333333333  
00:46:35.238 --> 00:46:38.075 or not In in in the past we went  
NOTE Confidence: 0.7854016333333333  
00:46:38.075 --> 00:46:40.825 to the to do the to perform the  
NOTE Confidence: 0.7854016333333333  
00:46:40.825 --> 00:46:42.788 F and A at the beginning.  
NOTE Confidence: 0.7854016333333333  
00:46:42.788 --> 00:46:45.384 I I personally want but you know it's  
NOTE Confidence: 0.7854016333333333

00:46:45.384 --> 00:46:47.596 impossible now so we had a resident

NOTE Confidence: 0.833073736666667

00:46:49.800 --> 00:46:52.920 that sometimes when there are some

NOTE Confidence: 0.833073736666667

00:46:52.920 --> 00:46:55.910 critical cases goes usually we

NOTE Confidence: 0.833073736666667

00:46:55.910 --> 00:47:00.200 taught the hand and neck surgeon.

NOTE Confidence: 0.833073736666667

00:47:00.200 --> 00:47:02.513 So to do the the F and AI have

NOTE Confidence: 0.833073736666667

00:47:02.513 --> 00:47:04.998 to say that at the beginning was

NOTE Confidence: 0.833073736666667

00:47:04.998 --> 00:47:07.914 a disaster a lot of blood had a

NOTE Confidence: 0.833073736666667

00:47:07.914 --> 00:47:10.344 lot of non diagnostic with time

NOTE Confidence: 0.833073736666667

00:47:10.344 --> 00:47:13.833 and you know being closer sending

NOTE Confidence: 0.833073736666667

00:47:13.833 --> 00:47:17.110 the resident to explain is going

NOTE Confidence: 0.833073736666667

00:47:17.110 --> 00:47:18.785 better absolutely better and you

NOTE Confidence: 0.833073736666667

00:47:18.785 --> 00:47:20.645 know they're they are successful in

NOTE Confidence: 0.833073736666667

00:47:20.645 --> 00:47:22.800 what they are doing I have to say.

NOTE Confidence: 0.833073736666667

00:47:22.800 --> 00:47:25.120 So yeah it's

NOTE Confidence: 0.3648177

00:47:29.860 --> 00:47:32.173 a great talk. You know it's a lot very

NOTE Confidence: 0.3648177

00:47:32.180 --> 00:47:36.314 beautiful pictures movies and yeah

NOTE Confidence: 0.3648177

00:47:36.314 --> 00:47:39.386 like the the the thought I you must

NOTE Confidence: 0.3648177

00:47:39.386 --> 00:47:41.157 have not see any of those movies.

NOTE Confidence: 0.420928925

00:47:41.520 --> 00:47:42.120 So my my question

NOTE Confidence: 0.523572085294118

00:47:45.760 --> 00:47:47.664 to you, you know you you you mentioned

NOTE Confidence: 0.523572085294118

00:47:47.664 --> 00:47:49.851 you know in the category of medication

NOTE Confidence: 0.523572085294118

00:47:49.851 --> 00:47:52.392 diagnosis people intended to feel more

NOTE Confidence: 0.523572085294118

00:47:52.392 --> 00:47:55.200 specific or even breeding their malignance.

NOTE Confidence: 0.523572085294118

00:47:55.200 --> 00:47:59.074 They talk about low grade versus high grades,

NOTE Confidence: 0.523572085294118

00:47:59.080 --> 00:48:03.000 you know but you know this is the

NOTE Confidence: 0.523572085294118

00:48:03.000 --> 00:48:05.466 you know it's probably easier for

NOTE Confidence: 0.523572085294118

00:48:05.466 --> 00:48:08.896 like a type tumor like you have to

NOTE Confidence: 0.523572085294118

00:48:08.896 --> 00:48:14.000 have you know slow grade, high grade.

NOTE Confidence: 0.523572085294118

00:48:14.000 --> 00:48:17.856 But for some of the tumors I I kind

NOTE Confidence: 0.523572085294118

00:48:17.856 --> 00:48:20.480 of you know what's going to put

NOTE Confidence: 0.523572085294118

00:48:20.480 --> 00:48:22.830 a category like a hydroid cystic

NOTE Confidence: 0.523572085294118

00:48:22.830 --> 00:48:25.560 are you going to put a low grade  
NOTE Confidence: 0.2862487675

00:48:25.560 --> 00:48:29.920 adenoid I grade slowly I grade adenocystic  
NOTE Confidence: 0.2862487675

00:48:29.920 --> 00:48:32.599 carcinoma I grade I agree yeah.  
NOTE Confidence: 0.694605226666667

00:48:33.280 --> 00:48:35.440 So because you know we consistent you  
NOTE Confidence: 0.49564439

00:48:38.400 --> 00:48:39.600 know we mean  
NOTE Confidence: 0.49208632

00:48:39.600 --> 00:48:41.077 you know we you know make it.  
NOTE Confidence: 0.49208632

00:48:41.080 --> 00:48:43.456 I mean the our our idea is that  
NOTE Confidence: 0.49208632

00:48:43.456 --> 00:48:46.036 you know when you it's not on it's  
NOTE Confidence: 0.49208632

00:48:46.036 --> 00:48:47.681 not specifically about low grade  
NOTE Confidence: 0.49208632

00:48:47.681 --> 00:48:49.877 but it's mostly about high grade.  
NOTE Confidence: 0.49208632

00:48:49.880 --> 00:48:52.456 So if you see something which is  
NOTE Confidence: 0.49208632

00:48:52.456 --> 00:48:54.796 really high grade just call hit  
NOTE Confidence: 0.49208632

00:48:54.796 --> 00:48:56.856 high grade regardless if you're  
NOTE Confidence: 0.49208632

00:48:56.856 --> 00:49:01.144 able to do a further definition of  
NOTE Confidence: 0.49208632

00:49:01.144 --> 00:49:03.256 it because you have immuno because  
NOTE Confidence: 0.49208632

00:49:03.256 --> 00:49:05.715 you can do the molecular and so on.

NOTE Confidence: 0.49208632

00:49:05.720 --> 00:49:09.635 But if you if you recognize that this is

NOTE Confidence: 0.49208632

00:49:09.640 --> 00:49:11.474 an I grade the carcinoma for instance.

NOTE Confidence: 0.49208632

00:49:11.480 --> 00:49:14.080 I'm discussing about carcinoma just

NOTE Confidence: 0.49208632

00:49:14.080 --> 00:49:17.250 you know variety it because you know

NOTE Confidence: 0.49208632

00:49:17.250 --> 00:49:19.416 for the clinicians is it's important

NOTE Confidence: 0.49208632

00:49:19.416 --> 00:49:21.240 to know that this is an I grade.

NOTE Confidence: 0.4961493675

00:49:21.240 --> 00:49:24.360 Yeah. So you know you really you know the

NOTE Confidence: 0.82056387

00:49:28.520 --> 00:49:30.520 secretary is for instance low grade

NOTE Confidence: 0.82056387

00:49:30.520 --> 00:49:32.992 secretary is not is low grade.

NOTE Confidence: 0.82056387

00:49:32.992 --> 00:49:35.854 The majority of basinic are not high

NOTE Confidence: 0.82056387

00:49:35.854 --> 00:49:38.860 grade unless you have the the the high

NOTE Confidence: 0.82056387

00:49:38.860 --> 00:49:40.360 grade differentiation and you see.

NOTE Confidence: 0.82056387

00:49:40.360 --> 00:49:42.560 So it's not so important

NOTE Confidence: 0.82056387

00:49:42.560 --> 00:49:44.760 to to write low grade.

NOTE Confidence: 0.82056387

00:49:44.760 --> 00:49:47.581 It's more important to to write high

NOTE Confidence: 0.82056387

00:49:47.581 --> 00:49:50.060 grade when you see something which  
NOTE Confidence: 0.82056387

00:49:50.060 --> 00:49:52.936 is like grade like a high grade  
NOTE Confidence: 0.82056387

00:49:52.936 --> 00:49:56.520 Mac or all the all the high grade.  
NOTE Confidence: 0.82056387

00:49:56.520 --> 00:50:00.034 This was our meaning for this in  
NOTE Confidence: 0.82056387

00:50:00.040 --> 00:50:02.800 for this purpose for the management.  
NOTE Confidence: 0.82056387

00:50:02.880 --> 00:50:02.920 I  
NOTE Confidence: 0.640089788

00:50:11.480 --> 00:50:12.320 have a question. I have  
NOTE Confidence: 0.4062581

00:50:17.800 --> 00:50:20.920 no question the molecular  
NOTE Confidence: 0.4062581

00:50:20.920 --> 00:50:22.920 ancillary testing in your practice  
NOTE Confidence: 0.856393213333333

00:50:25.120 --> 00:50:27.425 not allowed especially because in  
NOTE Confidence: 0.856393213333333

00:50:27.425 --> 00:50:30.300 my institution we had the molecular  
NOTE Confidence: 0.856393213333333

00:50:30.300 --> 00:50:32.960 in my institution now was more  
NOTE Confidence: 0.856393213333333

00:50:32.960 --> 00:50:35.240 on the we are on the 4th floor,  
NOTE Confidence: 0.856393213333333

00:50:35.240 --> 00:50:37.718 on the third floor in general pathology.  
NOTE Confidence: 0.856393213333333

00:50:37.720 --> 00:50:43.236 So really I tried to do to reach a  
NOTE Confidence: 0.856393213333333

00:50:43.236 --> 00:50:45.708 diagnosis and to make a diagnosis

NOTE Confidence: 0.856393213333333

00:50:45.708 --> 00:50:48.628 with morphology with the immuno as

NOTE Confidence: 0.856393213333333

00:50:48.628 --> 00:50:51.728 a first approach and then in some

NOTE Confidence: 0.856393213333333

00:50:51.728 --> 00:50:53.788 specific and selected cases in

NOTE Confidence: 0.856393213333333

00:50:53.788 --> 00:50:56.464 which I'm not able and I want that

NOTE Confidence: 0.856393213333333

00:50:56.464 --> 00:50:59.039 or they ask a better definition,

NOTE Confidence: 0.856393213333333

00:50:59.040 --> 00:51:02.638 specific definition I sent to the molecular.

NOTE Confidence: 0.856393213333333

00:51:02.640 --> 00:51:03.666 But you know,

NOTE Confidence: 0.856393213333333

00:51:03.666 --> 00:51:06.148 it's not in all the cases because

NOTE Confidence: 0.856393213333333

00:51:06.148 --> 00:51:08.716 we do not it's not available

NOTE Confidence: 0.63440638

00:51:10.880 --> 00:51:12.548 in a normal way.

NOTE Confidence: 0.63440638

00:51:12.548 --> 00:51:14.408 Immune or noise is easier.

NOTE Confidence: 0.63440638

00:51:14.408 --> 00:51:16.840 So we can do on the cell block.

NOTE Confidence: 0.63440638

00:51:16.840 --> 00:51:17.791 So for instance,

NOTE Confidence: 0.63440638

00:51:17.791 --> 00:51:20.840 when I'm when I'm in doubt on morphology,

NOTE Confidence: 0.63440638

00:51:20.840 --> 00:51:24.568 the first thing that I do is the cell block.

NOTE Confidence: 0.63440638

00:51:24.568 --> 00:51:27.160 In this way I can realize the morphology,  
NOTE Confidence: 0.63440638

00:51:27.160 --> 00:51:29.296 I can realize all the things  
NOTE Confidence: 0.63440638

00:51:29.296 --> 00:51:30.720 that are in doubt.  
NOTE Confidence: 0.63440638

00:51:30.720 --> 00:51:33.359 And then based on this I decide  
NOTE Confidence: 0.63440638

00:51:33.360 --> 00:51:35.920 which type of immune.  
NOTE Confidence: 0.63440638

00:51:35.920 --> 00:51:40.110 Another thing why why is there for thyroid  
NOTE Confidence: 0.63440638

00:51:40.110 --> 00:51:42.880 that we only liquid based psychology?  
NOTE Confidence: 0.63440638

00:51:42.880 --> 00:51:45.400 Because we have many and it's impossible  
NOTE Confidence: 0.63440638

00:51:45.400 --> 00:51:48.250 to do conventional and the liquid based  
NOTE Confidence: 0.63440638

00:51:48.250 --> 00:51:49.958 psychology for salivary psychology,  
NOTE Confidence: 0.63440638

00:51:49.960 --> 00:51:52.648 despite the fact that we could have done  
NOTE Confidence: 0.63440638

00:51:52.648 --> 00:51:55.360 only on the liquid based psychology,  
NOTE Confidence: 0.63440638

00:51:55.360 --> 00:51:57.862 I asked them to do liquid  
NOTE Confidence: 0.63440638

00:51:57.862 --> 00:51:59.113 and the conventional.  
NOTE Confidence: 0.63440638

00:51:59.120 --> 00:52:01.624 Because salivary psychology differently  
NOTE Confidence: 0.63440638

00:52:01.624 --> 00:52:05.640 from other type of psychology is for

NOTE Confidence: 0.63440638

00:52:05.640 --> 00:52:07.840 the diagnosis is really important

NOTE Confidence: 0.63440638

00:52:07.840 --> 00:52:10.968 as reported in the table to define

NOTE Confidence: 0.63440638

00:52:10.968 --> 00:52:13.560 this else but also the background,

NOTE Confidence: 0.63440638

00:52:13.560 --> 00:52:15.654 the different the differences in the

NOTE Confidence: 0.63440638

00:52:15.654 --> 00:52:17.956 background if it is eyeline if it

NOTE Confidence: 0.63440638

00:52:17.956 --> 00:52:22.200 is musing us. If it is more cystic.

NOTE Confidence: 0.63440638

00:52:22.200 --> 00:52:26.796 It's really very important in focusing

NOTE Confidence: 0.63440638

00:52:26.796 --> 00:52:28.860 on the differential diagnosis

NOTE Confidence: 0.63440638

00:52:28.860 --> 00:52:31.440 and on liquid based psychology.

NOTE Confidence: 0.63440638

00:52:31.440 --> 00:52:35.592 I'm I'm better in recognizing

NOTE Confidence: 0.63440638

00:52:35.592 --> 00:52:37.476 the nuclear details,

NOTE Confidence: 0.63440638

00:52:37.480 --> 00:52:40.684 but the background details are much

NOTE Confidence: 0.63440638

00:52:40.684 --> 00:52:43.800 better defined in conventional psychology.

NOTE Confidence: 0.63440638

00:52:43.800 --> 00:52:46.117 So I need both and I don't.

NOTE Confidence: 0.63440638

00:52:46.120 --> 00:52:48.128 I don't want to to to move only

NOTE Confidence: 0.63440638

00:52:48.128 --> 00:52:50.158 on the liquid based ethology.  
NOTE Confidence: 0.63440638

00:52:50.160 --> 00:52:51.216 By the way,  
NOTE Confidence: 0.63440638

00:52:51.216 --> 00:52:53.680 there is a very nice paper published  
NOTE Confidence: 0.63440638

00:52:53.753 --> 00:52:55.792 about liquid based ethology in  
NOTE Confidence: 0.63440638

00:52:55.792 --> 00:52:58.300 Salivary for a special issue of  
NOTE Confidence: 0.63440638

00:52:58.379 --> 00:53:00.919 ACTA psychological some years ago.  
NOTE Confidence: 0.63440638

00:53:00.920 --> 00:53:04.652 The first author is Rarick with  
NOTE Confidence: 0.63440638

00:53:04.652 --> 00:53:07.868 our and the and Co working with  
NOTE Confidence: 0.63440638

00:53:07.868 --> 00:53:08.879 the Claire Michael.  
NOTE Confidence: 0.63440638

00:53:08.880 --> 00:53:11.309 It's a very nice paper about water  
NOTE Confidence: 0.63440638

00:53:11.309 --> 00:53:13.554 liquid based ontology and all the  
NOTE Confidence: 0.63440638

00:53:13.554 --> 00:53:15.430 different entities and criteria in  
NOTE Confidence: 0.63440638

00:53:15.430 --> 00:53:17.880 saliva relations. Very nice in my opinion.  
NOTE Confidence: 0.63440638

00:53:17.880 --> 00:53:18.120 Thank you.  
NOTE Confidence: 0.667135013333333

00:53:28.880 --> 00:53:32.000 Thank you so much.