WEBVTT

NOTE duration: ”01:21:50.379”

NOTE Confidence: 1

00:00:01.520 --> 00:00:02.259 Good evening.

NOTE Confidence: 0.99523926

00:00:02.879 --> 00:00:04.500 Today is April sixteenth,

NOTE Confidence: 0.93481445

00:00:04.960 --> 00:00:06.399 and welcome to our two

NOTE Confidence: 0.93481445

00:00:06.399 --> 00:00:08.320 thousand twenty six Center for

NOTE Confidence: 0.93481445

00:00:08.320 --> 00:00:10.420 GI Cancers CME series.

NOTE Confidence: 0.98098415

00:00:11.119 --> 00:00:12.559 Tonight, we will focus on

NOTE Confidence: 0.98098415

00:00:12.559 --> 00:00:14.420 biliary tract cancer specifically.

NOTE Confidence: 0.9817019

00:00:15.684 --> 00:00:17.445 My name is Jacqueline Gaddy,

NOTE Confidence: 0.9817019

00:00:17.445 --> 00:00:18.564 and I am an assistant

NOTE Confidence: 0.9817019

00:00:18.564 --> 00:00:19.704 professor of medicine

NOTE Confidence: 0.9850586

00:00:20.085 --> 00:00:21.765 and GI medical oncology at

NOTE Confidence: 0.9850586

00:00:21.765 --> 00:00:23.685 Yale. Thank you so much

NOTE Confidence: 0.9850586

00:00:23.685 --> 00:00:25.305 for joining us this evening.

NOTE Confidence: 0.99943036

00:00:26.805 --> 00:00:28.244 I have no disclosures to

NOTE Confidence: 0.99943036

00:00:28.244 --> 00:00:28.744 review.

NOTE Confidence: 0.9837302

00:00:31.330 --> 00:00:33.329 I most importantly, besides thanking

NOTE Confidence: 0.9837302

00:00:33.329 --> 00:00:34.290 all of you for joining

NOTE Confidence: 0.9837302

00:00:34.290 --> 00:00:35.570 us this evening and those

NOTE Confidence: 0.9837302

00:00:35.570 --> 00:00:36.370 that may join at a

NOTE Confidence: 0.9837302

00:00:36.370 --> 00:00:38.050 later date, I also want

NOTE Confidence: 0.9837302

00:00:38.050 --> 00:00:39.409 to thank my colleagues that

NOTE Confidence: 0.9837302

00:00:39.409 --> 00:00:40.930 have taken the time to

NOTE Confidence: 0.9837302

00:00:40.930 --> 00:00:42.150 join us this evening.

NOTE Confidence: 0.9968533

00:00:43.185 --> 00:00:45.284 Tonight, we will review perioperative

NOTE Confidence: 0.9968533

00:00:45.585 --> 00:00:46.085 management,

NOTE Confidence: 0.99975586

00:00:46.625 --> 00:00:47.604 surgical management,

NOTE Confidence: 0.9909831

00:00:48.385 --> 00:00:49.925 the critical role of hepatology,

NOTE Confidence: 0.9990886

00:00:50.545 --> 00:00:52.085 and the management of unresectable

NOTE Confidence: 0.9980469

00:00:52.545 --> 00:00:53.845 and metastatic disease.

NOTE Confidence: 0.96663785

00:00:54.385 --> 00:00:55.665 I am joined by doctor

NOTE Confidence: 0.96663785

00:00:55.665 --> 00:00:57.585 Yifei Zhang, a GI medical

NOTE Confidence: 0.96663785

00:00:57.585 --> 00:00:58.085 oncologist,

NOTE Confidence: 0.93950194

00:00:58.990 --> 00:01:01.170 doctor Straza Bosco, a hepatologist

NOTE Confidence: 0.94300133

00:01:01.710 --> 00:01:02.990 and leader of the liver

NOTE Confidence: 0.94300133

00:01:02.990 --> 00:01:05.150 cancer program and co director

NOTE Confidence: 0.94300133

00:01:05.150 --> 00:01:06.850 of the Yale Liver Center,

NOTE Confidence: 0.9062093

00:01:07.709 --> 00:01:08.690 and doctor Sogawa,

NOTE Confidence: 0.99864364

00:01:09.069 --> 00:01:11.069 the surgical director of liver

NOTE Confidence: 0.99864364

00:01:11.069 --> 00:01:11.569 transplantation.

NOTE Confidence: 0.9860073

00:01:14.744 --> 00:01:15.944 I also want to give

NOTE Confidence: 0.9860073

00:01:15.944 --> 00:01:17.145 a plug for our last

NOTE Confidence: 0.9860073

00:01:17.145 --> 00:01:18.424 session of the year, which

NOTE Confidence: 0.9860073

00:01:18.424 --> 00:01:19.805 will be held next month

NOTE Confidence: 0.9860073

00:01:19.865 --> 00:01:21.625 on May twenty first, which

NOTE Confidence: 0.9860073

00:01:21.625 --> 00:01:23.225 will be led by doctor

NOTE Confidence: 0.9860073

00:01:23.225 --> 00:01:25.965 Jill Lacey reviewing pancreatic cancer.

NOTE Confidence: 0.9970259

00:01:30.200 --> 00:01:31.319 I will get us started

NOTE Confidence: 0.9970259

00:01:31.319 --> 00:01:33.100 by first providing a simple

NOTE Confidence: 0.9970259

00:01:33.159 --> 00:01:33.659 background

NOTE Confidence: 0.970676

00:01:33.959 --> 00:01:35.799 on biliary tract cancers, which

NOTE Confidence: 0.970676

00:01:35.799 --> 00:01:37.240 as I have diagrammed and

NOTE Confidence: 0.970676

00:01:37.240 --> 00:01:39.399 pictured here, includes tumor within

NOTE Confidence: 0.970676

00:01:39.399 --> 00:01:40.815 the liver and outside of

NOTE Confidence: 0.970676

00:01:40.815 --> 00:01:41.935 the liver, which are known

NOTE Confidence: 0.970676

00:01:41.935 --> 00:01:42.595 as intrahepatic

NOTE Confidence: 0.98377824

00:01:42.895 --> 00:01:44.275 and extrahepatic cholangiocarcinoma,

NOTE Confidence: 0.99694824

00:01:45.455 --> 00:01:47.075 along with gallbladder cancer.

NOTE Confidence: 0.9647064

00:01:48.335 --> 00:01:50.675 Doctor Straza Bosco will additionally

NOTE Confidence: 0.9647064

00:01:50.735 --> 00:01:52.495 further discuss the background of

NOTE Confidence: 0.9647064

00:01:52.495 --> 00:01:54.415 biliary tract cancers, including the

NOTE Confidence: 0.9647064

00:01:54.415 --> 00:01:54.915 heterogeneity,

NOTE Confidence: 0.9925537

00:01:55.900 --> 00:01:57.040 mutational profile,

NOTE Confidence: 0.99853516

00:01:57.659 --> 00:01:59.119 and diagnostic evaluation.

NOTE Confidence: 0.9794529

00:02:02.939 --> 00:02:04.460 When compared to other GI

NOTE Confidence: 0.9794529

00:02:04.460 --> 00:02:06.460 tumors, such as colon cancer,

NOTE Confidence: 0.9794529

00:02:06.460 --> 00:02:09.075 which we often also treat,

NOTE Confidence: 0.9794529

00:02:09.155 --> 00:02:11.075 Biliary tract cancers are certainly

NOTE Confidence: 0.9794529

00:02:11.075 --> 00:02:12.834 rare with approximately twelve to

NOTE Confidence: 0.9794529

00:02:12.834 --> 00:02:14.194 thirteen thousand new cases in

NOTE Confidence: 0.9794529

00:02:14.194 --> 00:02:15.715 the US per year, with

NOTE Confidence: 0.9794529

00:02:15.715 --> 00:02:17.334 majority of these being cholangiocarcinoma,

NOTE Confidence: 0.993042

00:02:18.355 --> 00:02:19.175 with intrahepatic

NOTE Confidence: 0.82714844

00:02:19.635 --> 00:02:20.135 specifically

NOTE Confidence: 0.9536743

00:02:20.514 --> 00:02:21.875 being the most common form

NOTE Confidence: 0.9536743

00:02:21.875 --> 00:02:23.014 in Western countries.

NOTE Confidence: 0.980896

00:02:24.680 --> 00:02:26.780 More specifically, intrahepatic cholangiocarcinoma

NOTE Confidence: 0.9763997

00:02:27.480 --> 00:02:29.080 has a rising incidence and

NOTE Confidence: 0.9763997

00:02:29.080 --> 00:02:29.580 mortality.

NOTE Confidence: 0.9491954

00:02:30.200 --> 00:02:31.800 I have known risk factors

NOTE Confidence: 0.9491954

00:02:31.800 --> 00:02:33.080 here that are listed, which

NOTE Confidence: 0.9491954

00:02:33.080 --> 00:02:34.760 again doctor Straza Bosco may

NOTE Confidence: 0.9491954

00:02:34.760 --> 00:02:36.135 further review. But I think

NOTE Confidence: 0.9491954

00:02:36.135 --> 00:02:37.834 what it's also really important

NOTE Confidence: 0.9491954

00:02:37.975 --> 00:02:39.415 to know is that many

NOTE Confidence: 0.9491954

00:02:39.415 --> 00:02:41.495 patients actually present without any

NOTE Confidence: 0.9491954

00:02:41.495 --> 00:02:43.095 established risk factor, and they

NOTE Confidence: 0.9491954

00:02:43.095 --> 00:02:45.514 often, unfortunately, present with advanced

NOTE Confidence: 0.9491954

00:02:45.575 --> 00:02:46.555 stage disease.

NOTE Confidence: 0.9696917

00:02:50.580 --> 00:02:52.420 As stated previously, most patients

NOTE Confidence: 0.9696917

00:02:52.420 --> 00:02:54.100 present with advanced stage disease

NOTE Confidence: 0.9696917

00:02:54.100 --> 00:02:55.540 with only about twenty five

NOTE Confidence: 0.9696917

00:02:55.540 --> 00:02:57.320 percent of patients actually presenting

NOTE Confidence: 0.9696917

00:02:57.540 --> 00:02:59.540 with resectable disease, which doctor

NOTE Confidence: 0.9696917

00:02:59.540 --> 00:03:00.840 Sobo will review

NOTE Confidence: 0.99853516

00:03:01.300 --> 00:03:01.800 momentarily.

NOTE Confidence: 0.99918616

00:03:03.135 --> 00:03:04.115 Despite resection,

NOTE Confidence: 0.99975586

00:03:05.055 --> 00:03:06.255 up to sixty percent of

NOTE Confidence: 0.99975586

00:03:06.255 --> 00:03:07.635 patients also recur.

NOTE Confidence: 0.9885356

00:03:08.415 --> 00:03:10.014 The overall survival rates can

NOTE Confidence: 0.9885356

00:03:10.014 --> 00:03:11.615 vary by tumor type with

NOTE Confidence: 0.9885356

00:03:11.615 --> 00:03:12.834 intrahepatic cholangiocarcinoma

NOTE Confidence: 0.9860026

00:03:13.535 --> 00:03:14.755 having porous prognosis.

NOTE Confidence: 0.99316406

00:03:16.720 --> 00:03:17.700 Picture here

NOTE Confidence: 0.9633789

00:03:18.080 --> 00:03:18.580 are

NOTE Confidence: 0.99853516

00:03:18.880 --> 00:03:19.620 the prognostic

NOTE Confidence: 0.990332

00:03:19.919 --> 00:03:21.280 factors that we consider in

NOTE Confidence: 0.990332

00:03:21.280 --> 00:03:22.800 biliary tract cancers. And if

NOTE Confidence: 0.990332

00:03:22.800 --> 00:03:24.720 you keep these prognostic factors

NOTE Confidence: 0.990332

00:03:24.720 --> 00:03:26.320 in mind, these are often

NOTE Confidence: 0.990332

00:03:26.320 --> 00:03:27.919 the prognostic factors and the

NOTE Confidence: 0.990332

00:03:27.919 --> 00:03:30.240 eligibility criteria that are considered

NOTE Confidence: 0.990332

00:03:30.240 --> 00:03:32.055 for high risk clinical trials,

NOTE Confidence: 0.99921876

00:03:32.454 --> 00:03:34.314 but they include performance status,

NOTE Confidence: 0.94140625

00:03:35.015 --> 00:03:36.875 resection margins being positive,

NOTE Confidence: 0.8414062

00:03:37.655 --> 00:03:38.155 lymphometastases,

NOTE Confidence: 0.99975586

00:03:39.814 --> 00:03:40.875 vascular invasion,

NOTE Confidence: 0.92822266

00:03:41.575 --> 00:03:42.075 increased

NOTE Confidence: 0.8803711

00:03:42.534 --> 00:03:43.834 CA ninety nine,

NOTE Confidence: 0.99780273

00:03:44.215 --> 00:03:45.034 poor histological

NOTE Confidence: 0.8039551

00:03:45.495 --> 00:03:45.995 differentiation,

NOTE Confidence: 0.9963379

00:03:47.220 --> 00:03:48.840 along with advanced stage.

NOTE Confidence: 0.9996202

00:03:50.900 --> 00:03:52.739 As mentioned earlier, my colleagues

NOTE Confidence: 0.9996202

00:03:52.739 --> 00:03:53.720 and I will discuss

NOTE Confidence: 0.99816895

00:03:54.260 --> 00:03:56.019 different forms of management depending

NOTE Confidence: 0.99816895

00:03:56.019 --> 00:03:56.840 on the stage

NOTE Confidence: 0.99645996

00:03:57.220 --> 00:03:58.760 of biliary tract cancers.

NOTE Confidence: 0.959046

00:04:00.095 --> 00:04:02.095 I will now transition to

NOTE Confidence: 0.959046

00:04:02.095 --> 00:04:03.615 doctor Straza Bosco, who will

NOTE Confidence: 0.959046

00:04:03.615 --> 00:04:04.915 review the role of hepatology

NOTE Confidence: 0.959046

00:04:05.135 --> 00:04:07.315 in biliary tract cancer management,

NOTE Confidence: 0.959046

00:04:07.535 --> 00:04:08.575 who will then be followed

NOTE Confidence: 0.959046

00:04:08.575 --> 00:04:10.175 by doctor Sogawa, who will

NOTE Confidence: 0.959046

00:04:10.175 --> 00:04:12.015 discuss the surgical management of

NOTE Confidence: 0.959046

00:04:12.015 --> 00:04:13.235 biliary tract cancers.

NOTE Confidence: 0.98524475

00:04:13.890 --> 00:04:15.250 I encourage each of you

NOTE Confidence: 0.98524475

00:04:15.250 --> 00:04:16.449 to put any questions in

NOTE Confidence: 0.98524475

00:04:16.449 --> 00:04:17.889 the chat or enter them

NOTE Confidence: 0.98524475

00:04:17.889 --> 00:04:19.169 in the question and answer

NOTE Confidence: 0.98524475

00:04:19.169 --> 00:04:20.690 format. And we will try

NOTE Confidence: 0.98524475

00:04:20.690 --> 00:04:22.289 to answer them possibly during

NOTE Confidence: 0.98524475

00:04:22.289 --> 00:04:22.949 the presentation,

NOTE Confidence: 0.99982244

00:04:23.330 --> 00:04:24.850 but may also save them

NOTE Confidence: 0.99982244

00:04:24.850 --> 00:04:26.210 for the conclusion of our

NOTE Confidence: 0.99982244

00:04:26.210 --> 00:04:26.710 session.

NOTE Confidence: 0.9984131

00:04:30.535 --> 00:04:31.755 Thank you very much,

NOTE Confidence: 0.9894043

00:04:32.214 --> 00:04:34.635 Jackie, for this beautiful introduction.

NOTE Confidence: 0.9893329

00:04:36.455 --> 00:04:37.835 Bear with me a second

NOTE Confidence: 0.9893329

00:04:37.895 --> 00:04:39.835 while I try and fail

NOTE Confidence: 0.9893329

00:04:40.055 --> 00:04:41.675 to share my

NOTE Confidence: 0.98358625

00:04:42.180 --> 00:04:43.779 screen? No problem at all,

NOTE Confidence: 0.98358625

00:04:43.779 --> 00:04:44.740 and I'll let you know

NOTE Confidence: 0.98358625

00:04:44.740 --> 00:04:45.640 when it's showing.

NOTE Confidence: 0.99902344

00:04:46.339 --> 00:04:46.839 Okay.

NOTE Confidence: 0.91845703

00:04:49.860 --> 00:04:51.220 So it should be this

NOTE Confidence: 0.91845703

00:04:51.220 --> 00:04:51.720 one.

NOTE Confidence: 0.9995117

00:04:53.060 --> 00:04:53.560 Okay.

NOTE Confidence: 0.9982422

00:04:55.785 --> 00:04:57.805 Is it showing? It's perfect.

NOTE Confidence: 0.9998372

00:04:58.345 --> 00:04:59.705 Okay. Thank you very much.

NOTE Confidence: 0.9998372

00:04:59.705 --> 00:05:00.205 So

NOTE Confidence: 0.99902344

00:05:00.665 --> 00:05:01.404 my task

NOTE Confidence: 0.8943359

00:05:01.705 --> 00:05:03.565 tonight is to try to,

NOTE Confidence: 0.9482422

00:05:04.505 --> 00:05:05.005 refresh,

NOTE Confidence: 1

00:05:05.465 --> 00:05:05.965 what

NOTE Confidence: 0.7976074

00:05:06.345 --> 00:05:07.005 a hepatologist

NOTE Confidence: 0.925

00:05:07.385 --> 00:05:09.485 should know about this, rare,

NOTE Confidence: 0.8477783

00:05:10.550 --> 00:05:11.270 and yet,

NOTE Confidence: 0.9194336

00:05:13.110 --> 00:05:13.610 difficult

NOTE Confidence: 0.745752

00:05:14.630 --> 00:05:15.370 and prognostically,

NOTE Confidence: 0.50097656

00:05:17.270 --> 00:05:17.770 unfortunate

NOTE Confidence: 0.9465332

00:05:18.229 --> 00:05:18.729 cancer.

NOTE Confidence: 0.96191406

00:05:19.190 --> 00:05:20.789 Okay? And I this is

NOTE Confidence: 0.96191406

00:05:20.789 --> 00:05:21.529 my disclosure.

NOTE Confidence: 0.9921875

00:05:22.550 --> 00:05:23.050 So

NOTE Confidence: 0.74766034

00:05:25.135 --> 00:05:26.915 BERI tract cancer in cholangiocarcinoma

NOTE Confidence: 0.8308919

00:05:27.695 --> 00:05:28.755 is a heterogeneous

NOTE Confidence: 0.9394531

00:05:29.294 --> 00:05:30.195 under several,

NOTE Confidence: 0.840768

00:05:31.695 --> 00:05:33.854 different categories. So first of

NOTE Confidence: 0.840768

00:05:33.854 --> 00:05:35.455 all, is heterogeneous in terms

NOTE Confidence: 0.840768

00:05:35.455 --> 00:05:36.514 of cell of origin,

NOTE Confidence: 1

00:05:37.375 --> 00:05:37.875 location,

NOTE Confidence: 0.9909668

00:05:38.970 --> 00:05:39.710 pattern of

NOTE Confidence: 0.9951172

00:05:40.250 --> 00:05:41.070 growth, morphology,

NOTE Confidence: 0.97540283

00:05:41.610 --> 00:05:44.270 mutational landscape, and clinical manifestation.

NOTE Confidence: 0.97540283

00:05:44.410 --> 00:05:45.310 And this cartoon

NOTE Confidence: 0.94817245

00:05:46.170 --> 00:05:47.450 kind of make the point.

NOTE Confidence: 0.94817245

00:05:47.610 --> 00:05:48.430 Only recently,

NOTE Confidence: 0.9362305

00:05:49.450 --> 00:05:51.150 the different tumor have been

NOTE Confidence: 0.9654134

00:05:51.824 --> 00:05:53.444 classified in a more homogeneous

NOTE Confidence: 0.9654134

00:05:53.505 --> 00:05:54.005 way.

NOTE Confidence: 0.9938965

00:05:54.544 --> 00:05:56.705 And so according to the

NOTE Confidence: 0.9938965

00:05:56.705 --> 00:05:58.245 order of the

NOTE Confidence: 0.83713317

00:05:59.025 --> 00:06:00.865 the bile ducts, that are

NOTE Confidence: 0.83713317

00:06:00.865 --> 00:06:02.224 affected by the cancer, we

NOTE Confidence: 0.83713317

00:06:02.224 --> 00:06:03.604 distinguish the intraepartic

NOTE Confidence: 0.970459

00:06:03.904 --> 00:06:04.404 cancer,

NOTE Confidence: 0.92371964

00:06:05.080 --> 00:06:05.580 cholangiocarcinoma,

NOTE Confidence: 0.8734131

00:06:06.360 --> 00:06:07.100 the perihealer

NOTE Confidence: 0.9851888

00:06:07.560 --> 00:06:08.060 cholangiocarcinoma,

NOTE Confidence: 0.8800083

00:06:09.800 --> 00:06:11.420 and the distal cholangiocarcinoma.

NOTE Confidence: 0.9746094

00:06:12.200 --> 00:06:13.180 These are,

NOTE Confidence: 0.83325195

00:06:15.000 --> 00:06:15.500 also,

NOTE Confidence: 0.9941406

00:06:17.800 --> 00:06:18.860 different histologically

NOTE Confidence: 0.9243978

00:06:20.225 --> 00:06:21.285 And mutationally,

NOTE Confidence: 0.9938151

00:06:21.665 --> 00:06:22.885 so, for example,

NOTE Confidence: 0.8544922

00:06:23.505 --> 00:06:24.005 the.

NOTE Confidence: 0.6997477

00:06:25.505 --> 00:06:26.725 Intrepatic cholangiocarcinoma

NOTE Confidence: 0.57714844

00:06:28.065 --> 00:06:29.044 is generated.

NOTE Confidence: 0.84319514

00:06:30.065 --> 00:06:32.065 From the small interpathic bile

NOTE Confidence: 0.84319514

00:06:32.065 --> 00:06:33.825 duct and may have different

NOTE Confidence: 0.84319514

00:06:33.825 --> 00:06:34.325 histological

NOTE Confidence: 0.9001698

00:06:36.000 --> 00:06:38.180 feature. You see here the

NOTE Confidence: 0.9001698

00:06:38.240 --> 00:06:38.740 cholangiocellular,

NOTE Confidence: 0.9261882

00:06:39.599 --> 00:06:40.500 so the smaller,

NOTE Confidence: 0.9875488

00:06:41.039 --> 00:06:42.819 branches of the bile duct

NOTE Confidence: 0.9875488

00:06:42.879 --> 00:06:43.779 from the small

NOTE Confidence: 0.9445801

00:06:44.159 --> 00:06:44.659 type.

NOTE Confidence: 0.9038086

00:06:45.520 --> 00:06:47.039 And, here you see an

NOTE Confidence: 0.9038086

00:06:47.039 --> 00:06:47.539 example

NOTE Confidence: 0.96606445

00:06:47.839 --> 00:06:48.580 of the,

NOTE Confidence: 1

00:06:49.120 --> 00:06:49.620 cancer

NOTE Confidence: 0.9323012

00:06:50.235 --> 00:06:51.755 arising from the large bile

NOTE Confidence: 0.9323012

00:06:51.755 --> 00:06:53.595 ducts and from the distal

NOTE Confidence: 0.9323012

00:06:53.595 --> 00:06:55.514 bile duct. But, also, they

NOTE Confidence: 0.9323012

00:06:55.514 --> 00:06:56.175 are heterogeneous

NOTE Confidence: 0.97490233

00:06:56.475 --> 00:06:57.915 in terms of type of

NOTE Confidence: 0.97490233

00:06:57.915 --> 00:06:59.435 growth. So you may have,

NOTE Confidence: 0.9995117

00:07:00.635 --> 00:07:01.294 the classic

NOTE Confidence: 0.97753906

00:07:01.595 --> 00:07:02.574 mass forming

NOTE Confidence: 0.95391846

00:07:04.159 --> 00:07:04.659 cholangiocarcinoma

NOTE Confidence: 0.9439591

00:07:05.680 --> 00:07:07.759 or the periductal one, but

NOTE Confidence: 0.9439591

00:07:07.759 --> 00:07:08.879 you may also have the

NOTE Confidence: 0.9439591

00:07:08.879 --> 00:07:10.560 one that is introductory, and

NOTE Confidence: 0.9439591

00:07:10.560 --> 00:07:11.840 this is more difficult to

NOTE Confidence: 0.9439591

00:07:11.840 --> 00:07:13.139 diagnose. Of course.

NOTE Confidence: 0.99609375

00:07:15.120 --> 00:07:15.615 So

NOTE Confidence: 0.84073895

00:07:16.014 --> 00:07:17.294 I I briefly mentioned and

NOTE Confidence: 0.84073895

00:07:17.294 --> 00:07:19.315 also Jack is told that

NOTE Confidence: 0.84073895

00:07:19.455 --> 00:07:20.115 they are,

NOTE Confidence: 0.9793812

00:07:20.735 --> 00:07:22.835 their mutational landscape is different

NOTE Confidence: 0.9793812

00:07:22.895 --> 00:07:24.574 according to their location and

NOTE Confidence: 0.9793812

00:07:24.574 --> 00:07:25.074 type.

NOTE Confidence: 0.89241534

00:07:26.175 --> 00:07:27.055 Here, I have,

NOTE Confidence: 0.953125

00:07:28.014 --> 00:07:28.835 only show

NOTE Confidence: 0.97735596

00:07:29.140 --> 00:07:30.820 some of the different,

NOTE Confidence: 0.9521179

00:07:32.260 --> 00:07:33.860 mutations that are present, but

NOTE Confidence: 0.9521179

00:07:33.860 --> 00:07:34.680 I want to

NOTE Confidence: 0.92996216

00:07:35.140 --> 00:07:36.980 draw your attention to the

NOTE Confidence: 0.92996216

00:07:36.980 --> 00:07:37.480 IDH12,

NOTE Confidence: 0.94189453

00:07:38.260 --> 00:07:38.760 the

NOTE Confidence: 0.4296875

00:07:39.140 --> 00:07:40.280 in the.

NOTE Confidence: 0.95062584

00:07:40.820 --> 00:07:42.945 That can happen in twenty,

NOTE Confidence: 0.95062584

00:07:42.945 --> 00:07:44.305 twenty two percent of the

NOTE Confidence: 0.95062584

00:07:44.305 --> 00:07:44.805 intrahepatic,

NOTE Confidence: 0.99432373

00:07:45.425 --> 00:07:45.925 cholangiocarcinoma

NOTE Confidence: 0.8267909

00:07:47.505 --> 00:07:49.585 together with other. Whereas in

NOTE Confidence: 0.8267909

00:07:49.585 --> 00:07:50.405 the periheolar

NOTE Confidence: 0.99142796

00:07:51.025 --> 00:07:51.525 cholangiocarcinoma,

NOTE Confidence: 0.85221356

00:07:52.305 --> 00:07:53.685 the b the KRAS,

NOTE Confidence: 0.74542236

00:07:54.625 --> 00:07:56.005 and have two, three,

NOTE Confidence: 0.84155273

00:07:56.385 --> 00:07:56.544 and,

NOTE Confidence: 0.88216144

00:07:59.150 --> 00:08:01.470 TP53 becomes more frequent and

NOTE Confidence: 0.88216144

00:08:01.470 --> 00:08:01.970 this

NOTE Confidence: 0.9016062

00:08:02.830 --> 00:08:04.030 is more or less also

NOTE Confidence: 0.9016062

00:08:04.030 --> 00:08:05.330 the case in the distal,

NOTE Confidence: 0.9016062

00:08:05.630 --> 00:08:07.230 whereas the IDH12 and the

NOTE Confidence: 0.9016062

00:08:07.230 --> 00:08:07.730 FTR2

NOTE Confidence: 0.8508417

00:08:08.510 --> 00:08:10.350 are more classic, really on

NOTE Confidence: 0.8508417

00:08:10.350 --> 00:08:11.570 the intrepatic

NOTE Confidence: 0.9189911

00:08:12.350 --> 00:08:14.445 thing. Is this relevant? Yes.

NOTE Confidence: 0.9189911

00:08:14.445 --> 00:08:15.345 It is. Because,

NOTE Confidence: 0.9824219

00:08:16.205 --> 00:08:17.185 of the many,

NOTE Confidence: 0.8947754

00:08:18.125 --> 00:08:18.625 different,

NOTE Confidence: 0.923584

00:08:19.565 --> 00:08:21.265 mutations that have been associated

NOTE Confidence: 0.923584

00:08:21.485 --> 00:08:21.805 with,

NOTE Confidence: 0.9697808

00:08:23.085 --> 00:08:23.585 cholangiocarcinoma,

NOTE Confidence: 0.93806964

00:08:25.165 --> 00:08:26.845 many of them, and they're

NOTE Confidence: 0.93806964

00:08:26.845 --> 00:08:28.785 just briefly listed here,

NOTE Confidence: 0.9996745

00:08:29.840 --> 00:08:31.539 can be targeted.

NOTE Confidence: 0.9877116

00:08:32.800 --> 00:08:33.679 So the first,

NOTE Confidence: 0.97940063

00:08:36.320 --> 00:08:38.000 the first message here is

NOTE Confidence: 0.97940063

00:08:38.000 --> 00:08:38.980 that it's always

NOTE Confidence: 0.9995117

00:08:39.360 --> 00:08:40.820 mandatory, I think,

NOTE Confidence: 0.7565918

00:08:41.360 --> 00:08:41.839 to,

NOTE Confidence: 1

00:08:42.320 --> 00:08:42.820 genotype

NOTE Confidence: 0.9145064

00:08:44.415 --> 00:08:46.735 this, cancer from from from

NOTE Confidence: 0.9145064

00:08:46.735 --> 00:08:48.654 the biopsy because it may

NOTE Confidence: 0.9145064

00:08:48.654 --> 00:08:49.154 have

NOTE Confidence: 0.7449951

00:08:51.695 --> 00:08:52.355 a treatment.

NOTE Confidence: 0.9640625

00:08:53.695 --> 00:08:55.075 It may guide the treatment.

NOTE Confidence: 0.97143555

00:08:55.455 --> 00:08:55.955 Okay?

NOTE Confidence: 0.99523926

00:08:56.495 --> 00:08:58.355 Now in terms of

NOTE Confidence: 0.95410156

00:08:59.790 --> 00:09:00.610 risk factor,

NOTE Confidence: 0.673584

00:09:01.150 --> 00:09:01.890 as Jackie

NOTE Confidence: 0.9692383

00:09:02.350 --> 00:09:04.050 said, most cases are sporadic,

NOTE Confidence: 0.9692383

00:09:04.190 --> 00:09:05.230 so we are not able

NOTE Confidence: 0.9692383

00:09:05.230 --> 00:09:05.470 to,

NOTE Confidence: 0.99902344

00:09:06.670 --> 00:09:07.170 find

NOTE Confidence: 0.83987087

00:09:09.390 --> 00:09:10.510 a cause or a risk

NOTE Confidence: 0.83987087

00:09:10.510 --> 00:09:12.370 factor. But there are

NOTE Confidence: 0.9906006

00:09:13.605 --> 00:09:16.184 some condition that are

NOTE Confidence: 0.9690552

00:09:17.365 --> 00:09:18.804 low that are rare with

NOTE Confidence: 0.9690552

00:09:18.804 --> 00:09:20.105 low prevalence, like

NOTE Confidence: 0.70979816

00:09:20.725 --> 00:09:22.184 primary sclerosis, cholangitis,

NOTE Confidence: 0.74576825

00:09:23.125 --> 00:09:24.184 choroidal disease,

NOTE Confidence: 0.81933594

00:09:24.725 --> 00:09:25.945 cholestical cyst,

NOTE Confidence: 0.7416382

00:09:26.529 --> 00:09:28.130 presence of large stones in

NOTE Confidence: 0.7416382

00:09:28.130 --> 00:09:28.710 the bladder,

NOTE Confidence: 0.95841473

00:09:29.330 --> 00:09:31.010 and but also chronic liver

NOTE Confidence: 0.95841473

00:09:31.010 --> 00:09:31.510 disease,

NOTE Confidence: 0.82543945

00:09:32.050 --> 00:09:33.350 inflammatory, like,

NOTE Confidence: 0.97021484

00:09:34.130 --> 00:09:34.630 hepatitis,

NOTE Confidence: 0.83251953

00:09:35.570 --> 00:09:36.390 and HBV,

NOTE Confidence: 0.8819987

00:09:39.245 --> 00:09:40.625 in which that

NOTE Confidence: 0.75857204

00:09:42.925 --> 00:09:44.125 that that these condition are

NOTE Confidence: 0.75857204

00:09:44.125 --> 00:09:45.665 associated with a higher

NOTE Confidence: 0.973196

00:09:46.045 --> 00:09:47.964 possibility of of liver cancer.

NOTE Confidence: 0.973196

00:09:47.964 --> 00:09:49.404 For example, in the primary

NOTE Confidence: 0.973196

00:09:49.404 --> 00:09:50.384 sclerosing cholangitis,

NOTE Confidence: 0.9522095

00:09:50.845 --> 00:09:52.285 up to fifteen percent of

NOTE Confidence: 0.9522095

00:09:52.285 --> 00:09:53.824 this patient developed

NOTE Confidence: 0.93006766

00:09:54.449 --> 00:09:55.410 in the course of their

NOTE Confidence: 0.93006766

00:09:55.410 --> 00:09:56.709 life, echolangiocarcinoma.

NOTE Confidence: 0.97382814

00:09:57.809 --> 00:09:59.750 So these are condition that

NOTE Confidence: 0.9891968

00:10:01.329 --> 00:10:02.709 are not very prevalent,

NOTE Confidence: 0.9797526

00:10:03.649 --> 00:10:04.870 but they have a significant

NOTE Confidence: 0.9797526

00:10:05.170 --> 00:10:06.610 risk. So if you look

NOTE Confidence: 0.9797526

00:10:06.610 --> 00:10:08.709 here into this this plot,

NOTE Confidence: 0.96051025

00:10:09.545 --> 00:10:10.985 so the risk of,

NOTE Confidence: 0.99095243

00:10:12.505 --> 00:10:13.385 this is the risk of

NOTE Confidence: 0.99095243

00:10:13.385 --> 00:10:14.985 having the cancer, and this

NOTE Confidence: 0.99095243

00:10:14.985 --> 00:10:17.225 is instead the prevalence. So

NOTE Confidence: 0.99095243

00:10:17.225 --> 00:10:17.885 there are

NOTE Confidence: 0.9770101

00:10:18.745 --> 00:10:20.105 some condition that have a

NOTE Confidence: 0.9770101

00:10:20.105 --> 00:10:21.545 high prevalence, but they are

NOTE Confidence: 0.9770101

00:10:21.545 --> 00:10:23.210 not, but they are rare.

NOTE Confidence: 0.9770101

00:10:23.210 --> 00:10:24.490 On the other hand, there

NOTE Confidence: 0.9770101

00:10:24.490 --> 00:10:26.350 are high prevalence factor

NOTE Confidence: 0.9213379

00:10:26.890 --> 00:10:28.750 that confer a moderate risk.

NOTE Confidence: 0.97869873

00:10:29.690 --> 00:10:30.970 And we should be aware

NOTE Confidence: 0.97869873

00:10:30.970 --> 00:10:32.110 of this because

NOTE Confidence: 0.99142796

00:10:32.730 --> 00:10:34.910 we think to this condition

NOTE Confidence: 0.99142796

00:10:35.050 --> 00:10:36.589 mostly in terms of

NOTE Confidence: 0.9911499

00:10:37.125 --> 00:10:38.745 risk factor for hepatocellular

NOTE Confidence: 0.95670575

00:10:39.125 --> 00:10:39.625 carcinoma,

NOTE Confidence: 0.953125

00:10:40.325 --> 00:10:41.705 but that's not the case.

NOTE Confidence: 0.953125

00:10:41.845 --> 00:10:43.365 Some of these patient, and

NOTE Confidence: 0.953125

00:10:43.365 --> 00:10:44.425 we will see that,

NOTE Confidence: 0.93671876

00:10:44.804 --> 00:10:46.745 may actually have a cholangiocarcinoma.

NOTE Confidence: 0.9333801

00:10:47.684 --> 00:10:49.845 Among that, there are alcohol

NOTE Confidence: 0.9333801

00:10:49.845 --> 00:10:51.225 use disorder, diabetes,

NOTE Confidence: 0.99934894

00:10:52.580 --> 00:10:53.640 and I will

NOTE Confidence: 0.97324914

00:10:54.100 --> 00:10:57.060 underlie also the metabolic associated

NOTE Confidence: 0.97324914

00:10:57.060 --> 00:10:57.960 liver disease,

NOTE Confidence: 0.9980469

00:10:59.620 --> 00:11:00.840 in his inflammatory

NOTE Confidence: 0.95997727

00:11:01.380 --> 00:11:02.840 form, which is called MASH.

NOTE Confidence: 0.9574788

00:11:04.035 --> 00:11:05.975 Some of these patient, particularly

NOTE Confidence: 0.9574788

00:11:06.115 --> 00:11:07.795 if they are not fully

NOTE Confidence: 0.9574788

00:11:07.795 --> 00:11:09.714 cirrhotic, may actually have a

NOTE Confidence: 0.9574788

00:11:09.714 --> 00:11:10.855 intrepartic cholangiocarcinoma.

NOTE Confidence: 0.9434291

00:11:11.475 --> 00:11:12.355 So this is a very

NOTE Confidence: 0.9434291

00:11:12.355 --> 00:11:13.954 important second method that you

NOTE Confidence: 0.9434291

00:11:13.954 --> 00:11:15.095 should bear in mind.

NOTE Confidence: 0.9794922

00:11:15.890 --> 00:11:17.250 So what happens in,

NOTE Confidence: 0.9591797

00:11:17.650 --> 00:11:19.830 in primary sclerosing cholangitis?

NOTE Confidence: 0.946696

00:11:21.809 --> 00:11:22.550 There is a,

NOTE Confidence: 0.862386

00:11:23.970 --> 00:11:26.130 presence of multifocal stricture. In

NOTE Confidence: 0.862386

00:11:26.130 --> 00:11:28.390 this multifocal stricture, we harbor

NOTE Confidence: 0.862386

00:11:28.529 --> 00:11:29.029 infections,

NOTE Confidence: 0.9769176

00:11:30.045 --> 00:11:32.765 and chronic infection infection will

NOTE Confidence: 0.9769176

00:11:32.765 --> 00:11:34.785 end up causing DNA damage,

NOTE Confidence: 0.9769176

00:11:34.845 --> 00:11:35.345 metaplasia,

NOTE Confidence: 0.963437

00:11:36.125 --> 00:11:37.804 low grade dysplasia, high grade,

NOTE Confidence: 0.963437

00:11:37.804 --> 00:11:38.545 and cholangiocarcinoma.

NOTE Confidence: 0.9886249

00:11:40.045 --> 00:11:41.245 And as I said, up

NOTE Confidence: 0.9886249

00:11:41.245 --> 00:11:42.445 to fifteen percent of the

NOTE Confidence: 0.9886249

00:11:42.445 --> 00:11:43.885 patient will sooner or later

NOTE Confidence: 0.9886249

00:11:43.885 --> 00:11:45.280 develop that. So what do

NOTE Confidence: 0.9886249

00:11:45.280 --> 00:11:46.400 we do in this case?

NOTE Confidence: 0.9886249

00:11:46.400 --> 00:11:46.980 I mean,

NOTE Confidence: 0.9114583

00:11:49.040 --> 00:11:49.940 in this case,

NOTE Confidence: 0.90625

00:11:50.480 --> 00:11:51.360 we will have it. We'll

NOTE Confidence: 0.90625

00:11:51.360 --> 00:11:52.660 discuss that after.

NOTE Confidence: 0.9348958

00:11:53.200 --> 00:11:54.420 There are surveillance,

NOTE Confidence: 0.98742676

00:11:55.200 --> 00:11:56.500 protocols. However,

NOTE Confidence: 0.9490289

00:11:57.065 --> 00:11:58.605 they are not that established

NOTE Confidence: 0.9490289

00:11:58.904 --> 00:12:00.184 as in the case of

NOTE Confidence: 0.9490289

00:12:00.184 --> 00:12:01.404 hepatocellular carcinoma.

NOTE Confidence: 0.9797712

00:12:02.825 --> 00:12:04.425 As I said before, a

NOTE Confidence: 0.9797712

00:12:04.425 --> 00:12:05.704 condition in which we need

NOTE Confidence: 0.9797712

00:12:05.704 --> 00:12:06.765 to be very careful

NOTE Confidence: 0.9970703

00:12:07.144 --> 00:12:07.644 is

NOTE Confidence: 0.9704294

00:12:08.985 --> 00:12:11.160 steptotic liver disease. In this

NOTE Confidence: 0.9704294

00:12:11.160 --> 00:12:12.440 case, this is a still

NOTE Confidence: 0.9704294

00:12:12.440 --> 00:12:12.940 unpublished

NOTE Confidence: 0.86897784

00:12:14.040 --> 00:12:15.740 series from from Padova,

NOTE Confidence: 0.9986328

00:12:16.520 --> 00:12:18.460 but it was found that

NOTE Confidence: 0.8695243

00:12:21.880 --> 00:12:23.320 that in thirty percent of

NOTE Confidence: 0.8695243

00:12:23.320 --> 00:12:23.899 the cases,

NOTE Confidence: 0.995636

00:12:24.965 --> 00:12:26.184 there was a cholangiocarcinoma

NOTE Confidence: 0.9663519

00:12:26.885 --> 00:12:28.485 in the resected sample rather

NOTE Confidence: 0.9663519

00:12:28.485 --> 00:12:29.684 than an HCC. And you

NOTE Confidence: 0.9663519

00:12:29.684 --> 00:12:30.905 can see in this beautiful

NOTE Confidence: 0.93566895

00:12:31.285 --> 00:12:33.285 slide, the border between the

NOTE Confidence: 0.93566895

00:12:33.285 --> 00:12:33.785 steatotic,

NOTE Confidence: 0.97998047

00:12:34.485 --> 00:12:34.985 liver

NOTE Confidence: 0.8619032

00:12:35.525 --> 00:12:36.665 and and and the cholangiocarcinoma.

NOTE Confidence: 0.9500263

00:12:38.110 --> 00:12:39.630 So be very careful, and

NOTE Confidence: 0.9500263

00:12:39.630 --> 00:12:40.510 this is a case that

NOTE Confidence: 0.9500263

00:12:40.510 --> 00:12:41.490 we had here.

NOTE Confidence: 0.9289202

00:12:42.510 --> 00:12:44.350 This patient, seventy nine years

NOTE Confidence: 0.9289202

00:12:44.350 --> 00:12:45.170 old, female,

NOTE Confidence: 0.85009766

00:12:45.710 --> 00:12:46.770 known to have

NOTE Confidence: 0.81363934

00:12:47.150 --> 00:12:48.530 a metabolic associated

NOTE Confidence: 0.9767456

00:12:49.230 --> 00:12:51.090 liver disease related cirrhosis,

NOTE Confidence: 0.9465332

00:12:52.054 --> 00:12:54.375 overweight with diabetes, high blood

NOTE Confidence: 0.9465332

00:12:54.375 --> 00:12:56.954 pressure. So all the classic,

NOTE Confidence: 0.7955322

00:12:58.535 --> 00:12:59.834 science of a potential,

NOTE Confidence: 0.48327637

00:13:02.295 --> 00:13:03.035 mass holder

NOTE Confidence: 0.9862305

00:13:03.415 --> 00:13:05.355 shows in the clinic with

NOTE Confidence: 0.98553467

00:13:07.149 --> 00:13:08.450 with the liver lesion

NOTE Confidence: 0.9347018

00:13:09.390 --> 00:13:11.010 that might have been classified

NOTE Confidence: 0.9347018

00:13:11.230 --> 00:13:12.830 as l r five, but

NOTE Confidence: 0.9347018

00:13:12.830 --> 00:13:14.370 not everything was

NOTE Confidence: 0.9182617

00:13:15.309 --> 00:13:16.929 consistent with l r five.

NOTE Confidence: 0.9519314

00:13:19.070 --> 00:13:20.429 And in particular, you see

NOTE Confidence: 0.9519314

00:13:20.429 --> 00:13:22.370 this this incision here,

NOTE Confidence: 0.980399

00:13:22.975 --> 00:13:25.295 this capsule retraction, which were

NOTE Confidence: 0.980399

00:13:25.295 --> 00:13:26.275 very suspicious

NOTE Confidence: 0.9827474

00:13:26.735 --> 00:13:27.554 at the time.

NOTE Confidence: 0.9348736

00:13:27.855 --> 00:13:29.135 So we decided to do

NOTE Confidence: 0.9348736

00:13:29.135 --> 00:13:30.895 a biopsy. And and in

NOTE Confidence: 0.9348736

00:13:30.895 --> 00:13:31.395 fact,

NOTE Confidence: 0.989917

00:13:31.775 --> 00:13:33.235 you can see the background

NOTE Confidence: 0.989917

00:13:33.455 --> 00:13:35.795 liver, which is classic for

NOTE Confidence: 0.8003743

00:13:37.130 --> 00:13:38.270 a metabolic associated,

NOTE Confidence: 0.8527832

00:13:39.130 --> 00:13:39.630 cirrhosis.

NOTE Confidence: 0.8998447

00:13:40.330 --> 00:13:41.929 And here, the the tumor

NOTE Confidence: 0.8998447

00:13:41.929 --> 00:13:42.830 was a cholangiocarcinoma.

NOTE Confidence: 0.914917

00:13:44.410 --> 00:13:45.150 This patient,

NOTE Confidence: 0.94592285

00:13:46.250 --> 00:13:47.390 underwent surgery.

NOTE Confidence: 0.8581543

00:13:48.970 --> 00:13:49.770 Sorry. And,

NOTE Confidence: 0.99401855

00:13:50.334 --> 00:13:51.955 she's actually doing fine,

NOTE Confidence: 0.9737956

00:13:52.334 --> 00:13:53.475 four years after,

NOTE Confidence: 0.97298175

00:13:54.815 --> 00:13:55.795 after the treatment.

NOTE Confidence: 0.94226074

00:13:56.255 --> 00:13:56.995 So, again,

NOTE Confidence: 0.96742755

00:13:58.654 --> 00:13:59.695 we need to be very,

NOTE Confidence: 0.96742755

00:14:00.095 --> 00:14:02.255 cognizant that a lesion in

NOTE Confidence: 0.96742755

00:14:02.255 --> 00:14:04.495 a, steatotic liver may actually

NOTE Confidence: 0.96742755

00:14:04.495 --> 00:14:04.995 be

NOTE Confidence: 0.9651693

00:14:05.379 --> 00:14:05.959 a cholangiocarcinoma.

NOTE Confidence: 0.8774414

00:14:06.980 --> 00:14:07.480 Okay.

NOTE Confidence: 0.93829346

00:14:07.860 --> 00:14:08.920 This is a series,

NOTE Confidence: 1

00:14:09.379 --> 00:14:09.879 of

NOTE Confidence: 0.8987793

00:14:10.819 --> 00:14:12.420 more than two thousand patient,

NOTE Confidence: 0.8895019

00:14:12.899 --> 00:14:15.319 followed by a European registry.

NOTE Confidence: 0.9980469

00:14:16.579 --> 00:14:17.079 And

NOTE Confidence: 0.73217773

00:14:17.459 --> 00:14:18.360 you see there,

NOTE Confidence: 0.9369532

00:14:19.205 --> 00:14:20.905 these are divided in intrahepatic,

NOTE Confidence: 0.900293

00:14:23.125 --> 00:14:23.625 perihealer,

NOTE Confidence: 0.9995117

00:14:23.925 --> 00:14:24.665 and distal.

NOTE Confidence: 0.9815674

00:14:25.605 --> 00:14:27.385 The risk factor associated

NOTE Confidence: 0.90871936

00:14:27.925 --> 00:14:29.765 again are in the case

NOTE Confidence: 0.90871936

00:14:29.765 --> 00:14:30.585 of intrahepatic,

NOTE Confidence: 1

00:14:30.965 --> 00:14:31.465 obesity,

NOTE Confidence: 1

00:14:32.245 --> 00:14:32.745 diabetes,

NOTE Confidence: 0.99438477

00:14:33.750 --> 00:14:35.530 viral hepatitis, and cirrhosis.

NOTE Confidence: 0.9867676

00:14:37.750 --> 00:14:39.210 In the case of the,

NOTE Confidence: 0.69348145

00:14:39.670 --> 00:14:40.170 perihela

NOTE Confidence: 0.9510091

00:14:41.590 --> 00:14:42.090 cholangiocarcinoma,

NOTE Confidence: 0.9820499

00:14:42.790 --> 00:14:44.470 the main factor is actually

NOTE Confidence: 0.9820499

00:14:44.470 --> 00:14:45.210 the PSC.

NOTE Confidence: 0.8886715

00:14:46.705 --> 00:14:48.145 Whereas in in the case

NOTE Confidence: 0.8886715

00:14:48.145 --> 00:14:49.825 of the distal, we have

NOTE Confidence: 0.8886715

00:14:49.825 --> 00:14:52.245 a metabolic condition like hyperthritillary

NOTE Confidence: 0.8886715

00:14:52.465 --> 00:14:52.965 terendemia

NOTE Confidence: 0.92962646

00:14:53.345 --> 00:14:55.685 and and, gastron disease.

NOTE Confidence: 0.8288574

00:14:56.625 --> 00:14:58.165 So this again confirmed

NOTE Confidence: 0.9941406

00:14:58.705 --> 00:14:59.445 that the

NOTE Confidence: 0.8112793

00:14:59.905 --> 00:15:00.805 risk factor

NOTE Confidence: 0.953125

00:15:02.080 --> 00:15:02.660 are similar

NOTE Confidence: 0.97216797

00:15:03.520 --> 00:15:05.060 to those of the hepatocellular

NOTE Confidence: 0.97216797

00:15:05.280 --> 00:15:06.500 carcinoma somehow.

NOTE Confidence: 0.9699519

00:15:07.280 --> 00:15:08.480 So how do we go

NOTE Confidence: 0.9699519

00:15:08.480 --> 00:15:10.400 about the diagnosis? Of course,

NOTE Confidence: 0.9699519

00:15:10.400 --> 00:15:11.860 we the MRI

NOTE Confidence: 0.93896484

00:15:12.480 --> 00:15:13.200 is our,

NOTE Confidence: 0.8730469

00:15:13.600 --> 00:15:14.100 principal

NOTE Confidence: 1

00:15:14.560 --> 00:15:15.060 instrument

NOTE Confidence: 0.8987902

00:15:15.825 --> 00:15:17.825 and the MRCP that is

NOTE Confidence: 0.8987902

00:15:17.825 --> 00:15:18.325 always,

NOTE Confidence: 0.9497884

00:15:19.105 --> 00:15:20.005 to be done,

NOTE Confidence: 0.9926758

00:15:21.185 --> 00:15:21.925 even before

NOTE Confidence: 0.7753906

00:15:24.465 --> 00:15:24.965 the

NOTE Confidence: 0.9909668

00:15:26.225 --> 00:15:26.725 ERCP.

NOTE Confidence: 0.94247586

00:15:27.759 --> 00:15:29.360 Actually, the ERCP now is

NOTE Confidence: 0.94247586

00:15:29.360 --> 00:15:29.940 is never,

NOTE Confidence: 0.90356445

00:15:30.880 --> 00:15:31.380 indicated,

NOTE Confidence: 0.94402206

00:15:32.079 --> 00:15:33.199 if you don't do an

NOTE Confidence: 0.94402206

00:15:33.199 --> 00:15:34.420 MRCP before.

NOTE Confidence: 0.9810791

00:15:35.040 --> 00:15:35.940 But the MRCP,

NOTE Confidence: 0.9781087

00:15:36.399 --> 00:15:37.380 you can do,

NOTE Confidence: 0.9353747

00:15:38.000 --> 00:15:40.000 either biopsies and lesion that

NOTE Confidence: 0.9353747

00:15:40.000 --> 00:15:41.600 that that you can see

NOTE Confidence: 0.9353747

00:15:41.600 --> 00:15:42.500 with a spyglass

NOTE Confidence: 0.76342773

00:15:42.880 --> 00:15:43.380 or,

NOTE Confidence: 0.99934894

00:15:44.385 --> 00:15:45.285 do a brush.

NOTE Confidence: 0.9799072

00:15:46.305 --> 00:15:47.584 We'll talk more about the

NOTE Confidence: 0.9799072

00:15:47.584 --> 00:15:49.765 brushing. If you see something,

NOTE Confidence: 0.945282

00:15:50.464 --> 00:15:51.745 that is suspect, you can

NOTE Confidence: 0.945282

00:15:51.745 --> 00:15:52.885 use a endoscopic

NOTE Confidence: 0.95458984

00:15:53.345 --> 00:15:53.845 ultrasound.

NOTE Confidence: 0.96655273

00:15:55.265 --> 00:15:55.765 And,

NOTE Confidence: 0.9699707

00:15:56.545 --> 00:15:57.045 hopefully,

NOTE Confidence: 0.970459

00:15:57.959 --> 00:15:58.459 soon,

NOTE Confidence: 0.965861

00:15:58.839 --> 00:16:00.519 we will also be able

NOTE Confidence: 0.965861

00:16:00.519 --> 00:16:02.759 to use liquid biopsy in

NOTE Confidence: 0.965861

00:16:02.759 --> 00:16:03.399 terms of,

NOTE Confidence: 0.94177246

00:16:05.800 --> 00:16:06.300 ctDNA.

NOTE Confidence: 0.96728516

00:16:14.894 --> 00:16:17.154 So this is you usually,

NOTE Confidence: 0.96309406

00:16:17.615 --> 00:16:19.935 the the diagnosis in the

NOTE Confidence: 0.96309406

00:16:19.935 --> 00:16:20.435 PSC

NOTE Confidence: 0.99348956

00:16:20.815 --> 00:16:21.714 was done by

NOTE Confidence: 0.8535344

00:16:22.029 --> 00:16:23.390 brushing. Brushing can give you

NOTE Confidence: 0.8535344

00:16:23.390 --> 00:16:25.710 a cytological reading. Brushwing can

NOTE Confidence: 0.8535344

00:16:25.710 --> 00:16:26.690 give you a,

NOTE Confidence: 0.88395184

00:16:29.070 --> 00:16:30.690 more genetically determined

NOTE Confidence: 0.84665525

00:16:31.150 --> 00:16:33.070 fish, for example, for certain,

NOTE Confidence: 0.78564453

00:16:36.885 --> 00:16:37.925 expression of,

NOTE Confidence: 0.9561244

00:16:39.125 --> 00:16:41.285 genomic expression, but this is

NOTE Confidence: 0.9561244

00:16:41.285 --> 00:16:42.185 never really,

NOTE Confidence: 0.9133301

00:16:43.045 --> 00:16:43.545 very,

NOTE Confidence: 0.9470757

00:16:44.084 --> 00:16:45.685 sensitive. For example, see the

NOTE Confidence: 0.9470757

00:16:45.685 --> 00:16:46.904 fish is only fifty,

NOTE Confidence: 0.9445801

00:16:48.325 --> 00:16:49.760 fifty five percent,

NOTE Confidence: 0.9263599

00:16:50.160 --> 00:16:52.000 of of positivity. So now

NOTE Confidence: 0.9263599

00:16:52.000 --> 00:16:53.380 there is this new,

NOTE Confidence: 0.8186035

00:16:53.760 --> 00:16:55.520 technology, which is called Billy

NOTE Confidence: 0.8186035

00:16:55.520 --> 00:16:56.820 Sack on brushing.

NOTE Confidence: 0.95703125

00:16:57.280 --> 00:16:58.660 It looks for a certain

NOTE Confidence: 0.95703125

00:16:58.720 --> 00:17:01.060 sector of a potential mutation

NOTE Confidence: 0.95703125

00:17:01.280 --> 00:17:03.140 that are most frequent in

NOTE Confidence: 0.91541886

00:17:03.805 --> 00:17:04.465 in cholangiocarcinoma.

NOTE Confidence: 0.80615234

00:17:05.725 --> 00:17:06.045 And,

NOTE Confidence: 0.9134766

00:17:06.925 --> 00:17:08.625 here you can see that,

NOTE Confidence: 0.97314453

00:17:09.645 --> 00:17:09.885 they

NOTE Confidence: 0.9537964

00:17:10.525 --> 00:17:12.205 this approach is able to

NOTE Confidence: 0.9537964

00:17:12.205 --> 00:17:13.345 find a mutation

NOTE Confidence: 0.96698

00:17:14.045 --> 00:17:15.565 in patient that would be

NOTE Confidence: 0.96698

00:17:15.565 --> 00:17:17.345 otherwise considered negative.

NOTE Confidence: 1

00:17:18.260 --> 00:17:18.760 So

NOTE Confidence: 0.99902344

00:17:19.060 --> 00:17:19.880 the combination

NOTE Confidence: 0.8378906

00:17:20.260 --> 00:17:20.580 of,

NOTE Confidence: 0.6175842

00:17:22.980 --> 00:17:23.480 PSYTOLOGY

NOTE Confidence: 0.98828125

00:17:24.020 --> 00:17:25.000 during the brushing

NOTE Confidence: 0.86206055

00:17:25.619 --> 00:17:25.940 can,

NOTE Confidence: 0.9970703

00:17:26.420 --> 00:17:27.640 bring our diagnostic

NOTE Confidence: 0.91955566

00:17:30.020 --> 00:17:31.560 precision and and sensitivity

NOTE Confidence: 0.94574654

00:17:31.940 --> 00:17:33.605 up to eighty five percent.

NOTE Confidence: 0.94574654

00:17:33.665 --> 00:17:34.984 So that is the the

NOTE Confidence: 0.94574654

00:17:34.984 --> 00:17:36.225 the future in the follow-up

NOTE Confidence: 0.94574654

00:17:36.225 --> 00:17:37.125 of these patients.

NOTE Confidence: 0.9707031

00:17:38.545 --> 00:17:39.045 So,

NOTE Confidence: 0.95755005

00:17:40.225 --> 00:17:41.744 the good thing is that

NOTE Confidence: 0.95755005

00:17:41.744 --> 00:17:43.125 also the treatment,

NOTE Confidence: 0.9039714

00:17:45.505 --> 00:17:46.725 prospect are increasing.

NOTE Confidence: 0.94736326

00:17:48.390 --> 00:17:50.070 Doctor Sugawa will talk about

NOTE Confidence: 0.94736326

00:17:50.070 --> 00:17:51.610 the resection and the transplant,

NOTE Confidence: 0.9331462

00:17:52.230 --> 00:17:54.410 and, I think our medical

NOTE Confidence: 0.9331462

00:17:54.470 --> 00:17:54.970 oncology,

NOTE Confidence: 0.97382814

00:17:56.470 --> 00:17:58.090 colleague will talk about chemotherapy

NOTE Confidence: 0.87540686

00:17:58.630 --> 00:17:59.850 and, immunotherapy.

NOTE Confidence: 0.9404109

00:18:01.365 --> 00:18:02.405 There are more and more,

NOTE Confidence: 0.9404109

00:18:02.805 --> 00:18:04.725 example of the use of

NOTE Confidence: 0.9404109

00:18:04.725 --> 00:18:05.865 local regional treatment

NOTE Confidence: 0.8707824

00:18:06.405 --> 00:18:08.085 for for the treatment of

NOTE Confidence: 0.8707824

00:18:08.085 --> 00:18:09.225 intraepartic angiocarcinoma.

NOTE Confidence: 0.8792572

00:18:09.925 --> 00:18:11.525 They can be ablation or

NOTE Confidence: 0.8792572

00:18:11.525 --> 00:18:12.905 y ninety preferentially.

NOTE Confidence: 0.9337158

00:18:14.549 --> 00:18:15.049 Stereotactic

NOTE Confidence: 0.9836077

00:18:15.350 --> 00:18:17.350 body radiation therapy is also

NOTE Confidence: 0.9836077

00:18:17.350 --> 00:18:18.169 is also

NOTE Confidence: 0.93535906

00:18:18.950 --> 00:18:20.869 a good alternative for patients

NOTE Confidence: 0.93535906

00:18:20.869 --> 00:18:22.549 that are otherwise unable to

NOTE Confidence: 0.93535906

00:18:22.549 --> 00:18:23.450 be treated differently.

NOTE Confidence: 0.92451614

00:18:25.350 --> 00:18:26.710 I think that as Milo,

NOTE Confidence: 0.92451614

00:18:26.710 --> 00:18:28.169 we also have a protocol

NOTE Confidence: 0.92451614

00:18:28.230 --> 00:18:28.484 of

NOTE Confidence: 0.6915283

00:18:29.285 --> 00:18:30.265 of a particular infusion.

NOTE Confidence: 0.9765625

00:18:31.445 --> 00:18:31.765 And,

NOTE Confidence: 0.89453125

00:18:32.405 --> 00:18:33.865 if nothing else work,

NOTE Confidence: 0.8659668

00:18:35.445 --> 00:18:36.744 you can put a positive

NOTE Confidence: 0.8659668

00:18:36.804 --> 00:18:37.304 standing.

NOTE Confidence: 0.91223145

00:18:40.405 --> 00:18:41.065 A little,

NOTE Confidence: 0.89857703

00:18:42.005 --> 00:18:44.080 intro to what doctor Sugawa

NOTE Confidence: 0.89857703

00:18:44.140 --> 00:18:44.800 would say,

NOTE Confidence: 0.9105399

00:18:45.340 --> 00:18:47.500 and, from the US National

NOTE Confidence: 0.9105399

00:18:47.500 --> 00:18:48.480 Cancer Database

NOTE Confidence: 0.71728516

00:18:49.260 --> 00:18:50.640 comes for his retrospective

NOTE Confidence: 0.9242859

00:18:50.940 --> 00:18:52.400 study that shows that,

NOTE Confidence: 0.92822266

00:18:53.900 --> 00:18:56.000 transplant for early stage intrahepatic

NOTE Confidence: 0.99108887

00:18:56.619 --> 00:18:57.119 cholangiocarcinoma

NOTE Confidence: 0.8975307

00:18:58.140 --> 00:19:00.185 is actually actually has a

NOTE Confidence: 0.8975307

00:19:00.185 --> 00:19:01.165 very good

NOTE Confidence: 0.85180664

00:19:02.025 --> 00:19:02.765 very good

NOTE Confidence: 0.8388672

00:19:03.385 --> 00:19:03.885 survival

NOTE Confidence: 0.8144531

00:19:04.185 --> 00:19:05.484 as respect to other

NOTE Confidence: 0.78125

00:19:06.105 --> 00:19:06.605 approaches.

NOTE Confidence: 0.9663086

00:19:07.385 --> 00:19:08.925 And now the

NOTE Confidence: 0.9773298

00:19:09.305 --> 00:19:11.065 UNOS also has set up

NOTE Confidence: 0.9773298

00:19:11.065 --> 00:19:11.965 certain criteria

NOTE Confidence: 0.9920044

00:19:13.160 --> 00:19:14.440 so that you can actually

NOTE Confidence: 0.9920044

00:19:14.440 --> 00:19:15.660 transfer this patient.

NOTE Confidence: 0.9812012

00:19:16.359 --> 00:19:16.859 So,

NOTE Confidence: 0.9983724

00:19:17.480 --> 00:19:18.940 just to end

NOTE Confidence: 0.8717256

00:19:20.119 --> 00:19:23.160 and to summarize, so, chronic

NOTE Confidence: 0.8717256

00:19:23.160 --> 00:19:25.080 carcinoma is a diverse group

NOTE Confidence: 0.8717256

00:19:25.080 --> 00:19:26.919 of cancer. It's with specific

NOTE Confidence: 0.8717256

00:19:26.919 --> 00:19:27.900 clinical manifestation.

NOTE Confidence: 0.94187236

00:19:29.105 --> 00:19:30.945 It's more frequent in a

NOTE Confidence: 0.94187236

00:19:30.945 --> 00:19:32.145 condition in which there is

NOTE Confidence: 0.94187236

00:19:32.145 --> 00:19:32.645 chronic

NOTE Confidence: 0.8996582

00:19:33.105 --> 00:19:34.645 inflammation in the liver.

NOTE Confidence: 0.86865234

00:19:34.945 --> 00:19:35.445 Their

NOTE Confidence: 0.9890137

00:19:35.825 --> 00:19:36.645 main characteristic

NOTE Confidence: 0.79052734

00:19:36.945 --> 00:19:37.445 histologically

NOTE Confidence: 0.84225464

00:19:37.825 --> 00:19:39.105 is to have a stronger,

NOTE Confidence: 0.84225464

00:19:39.265 --> 00:19:40.244 there's more plastic

NOTE Confidence: 0.88065964

00:19:40.545 --> 00:19:42.465 reaction. So the tumor reactive

NOTE Confidence: 0.88065964

00:19:42.465 --> 00:19:43.984 stroma is very important and

NOTE Confidence: 0.88065964

00:19:43.984 --> 00:19:44.250 is

NOTE Confidence: 0.92423505

00:19:45.609 --> 00:19:46.910 believed to be,

NOTE Confidence: 0.9296468

00:19:47.770 --> 00:19:49.450 one of the condition that

NOTE Confidence: 0.9296468

00:19:49.450 --> 00:19:50.750 facilitates the metastasis.

NOTE Confidence: 0.84277344

00:19:52.090 --> 00:19:53.310 They are, in fact,

NOTE Confidence: 0.83740234

00:19:54.330 --> 00:19:54.830 very

NOTE Confidence: 0.91259766

00:19:55.210 --> 00:19:56.030 high invasiveness.

NOTE Confidence: 0.9789388

00:19:56.570 --> 00:19:58.945 And in several cases, unfortunately,

NOTE Confidence: 0.9789388

00:19:59.085 --> 00:20:00.045 by the time you do

NOTE Confidence: 0.9789388

00:20:00.045 --> 00:20:01.744 the diagnosis, there is already

NOTE Confidence: 0.8543701

00:20:02.045 --> 00:20:03.185 a lymph node metastaticization.

NOTE Confidence: 0.9908447

00:20:04.845 --> 00:20:05.505 The epidemiology

NOTE Confidence: 0.9913737

00:20:05.805 --> 00:20:07.025 is changing because

NOTE Confidence: 0.9364421

00:20:07.325 --> 00:20:08.785 of the actual,

NOTE Confidence: 0.940825

00:20:10.390 --> 00:20:12.809 very high prevalence of, steatotic

NOTE Confidence: 0.940825

00:20:12.869 --> 00:20:13.770 liver disease.

NOTE Confidence: 0.9226074

00:20:14.470 --> 00:20:14.790 And,

NOTE Confidence: 0.9055278

00:20:15.270 --> 00:20:17.690 surgery is potentially correlative,

NOTE Confidence: 0.9730903

00:20:18.150 --> 00:20:19.830 but, can be offered usually

NOTE Confidence: 0.9730903

00:20:19.830 --> 00:20:20.790 to less than twenty five

NOTE Confidence: 0.9730903

00:20:20.790 --> 00:20:22.230 percent of the cases. But

NOTE Confidence: 0.9730903

00:20:22.230 --> 00:20:23.130 we do have

NOTE Confidence: 0.9007162

00:20:23.669 --> 00:20:24.570 liver transplantation,

NOTE Confidence: 0.97477216

00:20:25.725 --> 00:20:27.804 And I stop here because

NOTE Confidence: 0.97477216

00:20:27.804 --> 00:20:29.105 I don't want to enter

NOTE Confidence: 0.97477216

00:20:29.244 --> 00:20:31.184 the domain of my colleagues.

NOTE Confidence: 0.92871094

00:20:32.045 --> 00:20:33.825 So finally, this is the,

NOTE Confidence: 0.8335475

00:20:34.365 --> 00:20:35.725 telephone number of entry of

NOTE Confidence: 0.8335475

00:20:35.725 --> 00:20:37.424 the Yale liver cancer. And

NOTE Confidence: 0.8335475

00:20:37.484 --> 00:20:39.299 if I can draw the

NOTE Confidence: 0.8335475

00:20:39.299 --> 00:20:40.840 attention, whoever is interested,

NOTE Confidence: 0.7279663

00:20:41.700 --> 00:20:42.520 the FASB,

NOTE Confidence: 0.92944336

00:20:43.059 --> 00:20:45.140 will have, in August in

NOTE Confidence: 0.92944336

00:20:45.140 --> 00:20:45.640 Washington,

NOTE Confidence: 0.95425415

00:20:48.260 --> 00:20:49.400 meeting on the biocomplexity

NOTE Confidence: 0.87416995

00:20:49.859 --> 00:20:51.960 and molecular medicine liver cancer.

NOTE Confidence: 0.9547038

00:20:52.915 --> 00:20:54.695 And with that, I unshare.

NOTE Confidence: 0.9459076

00:20:55.234 --> 00:20:56.595 Thank you. Thank you so

NOTE Confidence: 0.9459076

00:20:56.595 --> 00:20:57.734 much, doctor Strazzavasco.

NOTE Confidence: 0.99975586

00:20:58.035 --> 00:20:59.015 That was a great

NOTE Confidence: 0.99668884

00:20:59.795 --> 00:21:01.875 presentation and overview of how

NOTE Confidence: 0.99668884

00:21:01.875 --> 00:21:02.855 to approach cholangiocarcinoma

NOTE Confidence: 0.9970703

00:21:03.635 --> 00:21:05.335 and other biliary tract cancers

NOTE Confidence: 0.9676758

00:21:05.960 --> 00:21:07.260 in the space of hepatology,

NOTE Confidence: 0.9998915

00:21:08.040 --> 00:21:09.160 and you also did an

NOTE Confidence: 0.9998915

00:21:09.160 --> 00:21:10.540 amazing job of transitioning

NOTE Confidence: 0.9906413

00:21:11.000 --> 00:21:12.460 it over to doctor Sogawa.

NOTE Confidence: 0.9906413

00:21:12.600 --> 00:21:14.359 So doctor Sogawa will now

NOTE Confidence: 0.9906413

00:21:14.359 --> 00:21:16.380 spend some time discussing transplant

NOTE Confidence: 0.9996745

00:21:16.760 --> 00:21:18.840 and resection options for patients

NOTE Confidence: 0.9996745

00:21:18.840 --> 00:21:20.380 with biliary tract cancers.

NOTE Confidence: 1

00:21:21.475 --> 00:21:22.774 Awesome. Thank you.

NOTE Confidence: 0.9832519

00:21:24.034 --> 00:21:25.575 Let's see. I can share.

NOTE Confidence: 0.96665734

00:21:27.475 --> 00:21:29.014 Are you able to see?

NOTE Confidence: 0.96665734

00:21:29.154 --> 00:21:29.894 That's perfect.

NOTE Confidence: 1

00:21:31.715 --> 00:21:32.215 Okay.

NOTE Confidence: 0.97558594

00:21:35.789 --> 00:21:37.090 Just one second.

NOTE Confidence: 0.99658203

00:21:48.645 --> 00:21:49.285 Okay. So,

NOTE Confidence: 0.9715169

00:21:49.925 --> 00:21:51.145 good evening, everyone.

NOTE Confidence: 0.70861816

00:21:51.445 --> 00:21:51.945 Thank,

NOTE Confidence: 0.8072917

00:21:53.125 --> 00:21:53.845 thank you for,

NOTE Confidence: 0.916626

00:21:55.525 --> 00:21:57.605 invitation, and, I'm happy to

NOTE Confidence: 0.916626

00:21:57.605 --> 00:21:59.445 talk about surgical management over

NOTE Confidence: 0.916626

00:21:59.445 --> 00:21:59.945 chorangiocarcinoma

NOTE Confidence: 0.8262126

00:22:00.645 --> 00:22:02.185 resection and antibody transplantation.

NOTE Confidence: 0.82830256

00:22:08.859 --> 00:22:11.020 So it's already, doctor Strauss

NOTE Confidence: 0.82830256

00:22:11.020 --> 00:22:12.859 Vasco showed us that stem

NOTE Confidence: 0.82830256

00:22:12.859 --> 00:22:13.359 diagram.

NOTE Confidence: 0.9572483

00:22:14.140 --> 00:22:15.500 This is very important. In

NOTE Confidence: 0.9572483

00:22:15.500 --> 00:22:17.040 terms of surgical treatment,

NOTE Confidence: 0.9415458

00:22:17.565 --> 00:22:19.404 the location dictate what kind

NOTE Confidence: 0.9415458

00:22:19.404 --> 00:22:20.144 of treatment,

NOTE Confidence: 0.99853516

00:22:21.164 --> 00:22:21.984 is appropriate.

NOTE Confidence: 0.9819336

00:22:22.605 --> 00:22:23.484 So the,

NOTE Confidence: 0.9581299

00:22:24.205 --> 00:22:24.705 intracellular,

NOTE Confidence: 0.94649255

00:22:25.484 --> 00:22:26.784 intrahepatic cholangiocarcinoma,

NOTE Confidence: 0.96415204

00:22:27.325 --> 00:22:28.365 which is ten to twenty

NOTE Confidence: 0.96415204

00:22:28.365 --> 00:22:28.865 percent,

NOTE Confidence: 0.96845704

00:22:29.244 --> 00:22:30.945 essentially, you wanna do resection,

NOTE Confidence: 0.6472473

00:22:31.549 --> 00:22:32.049 prostaglandin

NOTE Confidence: 0.9270833

00:22:32.350 --> 00:22:33.410 lymph node dissection,

NOTE Confidence: 0.6630804

00:22:34.030 --> 00:22:35.710 or very selective case, the

NOTE Confidence: 0.6630804

00:22:35.710 --> 00:22:37.150 difference for transplantation is a

NOTE Confidence: 0.6630804

00:22:37.150 --> 00:22:37.650 indication.

NOTE Confidence: 0.5941569

00:22:38.030 --> 00:22:38.270 Indicated.

NOTE Confidence: 0.99826884

00:22:39.070 --> 00:22:40.910 Are you advancing your slides?

NOTE Confidence: 0.99826884

00:22:40.910 --> 00:22:42.030 We still see the title

NOTE Confidence: 0.99826884

00:22:42.030 --> 00:22:42.530 slide.

NOTE Confidence: 0.9890137

00:22:43.150 --> 00:22:43.650 Oh,

NOTE Confidence: 0.9904785

00:22:45.710 --> 00:22:46.210 okay.

NOTE Confidence: 0.8744141

00:22:59.380 --> 00:23:01.000 K. Sorry. I am advancing,

NOTE Confidence: 0.9864366

00:23:01.940 --> 00:23:03.700 from end, but seems like

NOTE Confidence: 0.9864366

00:23:03.700 --> 00:23:04.840 it's not the case.

NOTE Confidence: 0.9917436

00:23:05.220 --> 00:23:06.740 Just one second, please. Let

NOTE Confidence: 0.9917436

00:23:06.740 --> 00:23:08.580 me just stop share. No

NOTE Confidence: 0.9917436

00:23:08.580 --> 00:23:09.080 problem.

NOTE Confidence: 0.9782715

00:23:17.975 --> 00:23:19.195 Let me try again.

NOTE Confidence: 0.8605957

00:23:31.630 --> 00:23:32.130 Okay.

NOTE Confidence: 0.9912923

00:23:32.990 --> 00:23:34.830 I guess okay. Alright. So

NOTE Confidence: 0.9912923

00:23:34.830 --> 00:23:36.050 let me let me try

NOTE Confidence: 0.9912923

00:23:36.110 --> 00:23:36.430 a little

NOTE Confidence: 0.8451022

00:23:41.734 --> 00:23:42.775 so, again, so I was

NOTE Confidence: 0.8451022

00:23:42.775 --> 00:23:44.455 talking about the location of

NOTE Confidence: 0.8451022

00:23:44.455 --> 00:23:45.515 a chorangial carcinoma

NOTE Confidence: 0.98095703

00:23:46.215 --> 00:23:46.715 dictate

NOTE Confidence: 0.964495

00:23:47.095 --> 00:23:48.695 what kind of surgical treatment

NOTE Confidence: 0.964495

00:23:48.695 --> 00:23:49.515 is necessary.

NOTE Confidence: 0.5428874

00:23:51.095 --> 00:23:51.595 Intercepter

NOTE Confidence: 0.9481201

00:23:51.895 --> 00:23:52.395 interhepatic

NOTE Confidence: 0.87492883

00:23:53.015 --> 00:23:54.075 chorangial carcinoma,

NOTE Confidence: 0.8106428

00:23:54.375 --> 00:23:56.720 usually liver resection plus minus

NOTE Confidence: 0.8106428

00:23:56.720 --> 00:23:57.299 the inflamydinectomy.

NOTE Confidence: 0.9894206

00:23:58.960 --> 00:24:01.200 Some case, liver transplantation is

NOTE Confidence: 0.9894206

00:24:01.200 --> 00:24:01.700 indicated.

NOTE Confidence: 0.98981124

00:24:02.639 --> 00:24:04.179 And if it's a perihilar

NOTE Confidence: 0.90759283

00:24:04.639 --> 00:24:06.559 chorangial carcinoma, which is people

NOTE Confidence: 0.90759283

00:24:06.559 --> 00:24:07.940 call Krebskin tumor,

NOTE Confidence: 0.7972412

00:24:08.639 --> 00:24:10.259 which is required frequently

NOTE Confidence: 0.9892334

00:24:10.955 --> 00:24:12.734 right hepatectomy, left hepatectomy,

NOTE Confidence: 0.9753418

00:24:13.115 --> 00:24:13.615 sometimes,

NOTE Confidence: 0.53275555

00:24:14.315 --> 00:24:15.375 right price segmentectomy

NOTE Confidence: 0.8347168

00:24:15.835 --> 00:24:16.975 or left right segmentectomy.

NOTE Confidence: 0.7696708

00:24:17.275 --> 00:24:18.575 Usually, you need a coded

NOTE Confidence: 0.7696708

00:24:18.635 --> 00:24:19.375 role resection.

NOTE Confidence: 0.8041992

00:24:20.795 --> 00:24:22.075 Some of the cracked skin

NOTE Confidence: 0.8041992

00:24:22.075 --> 00:24:22.575 tumor,

NOTE Confidence: 0.89939374

00:24:25.083 --> 00:24:25.950 the the particularly Mayo Mayo

NOTE Confidence: 0.89939374

00:24:25.950 --> 00:24:27.490 protocol, liver transplantation,

NOTE Confidence: 0.8778076

00:24:27.950 --> 00:24:29.490 has a good outcome.

NOTE Confidence: 0.9941329

00:24:30.909 --> 00:24:32.190 And when you have a

NOTE Confidence: 0.9941329

00:24:32.190 --> 00:24:33.250 distal cholangiocarcinoma,

NOTE Confidence: 0.71051025

00:24:34.590 --> 00:24:36.539 the the the the

NOTE Confidence: 0.92475045

00:24:37.012 --> 00:24:37.957 that cholangiocarcinoma,

NOTE Confidence: 0.92215985

00:24:38.429 --> 00:24:40.792 is a little bit better

NOTE Confidence: 0.92215985

00:24:40.792 --> 00:24:43.155 outcome generally speaking, but it's

NOTE Confidence: 0.92215985

00:24:43.155 --> 00:24:44.100 a distal,

NOTE Confidence: 0.96657985

00:24:44.572 --> 00:24:45.045 cholangiocarcinoma.

NOTE Confidence: 0.9246419

00:24:45.517 --> 00:24:46.935 The treatment option,

NOTE Confidence: 0.945166

00:24:47.407 --> 00:24:49.770 treatment choice is a Whipple,

NOTE Confidence: 0.8496094

00:24:50.410 --> 00:24:50.910 pancreaticulodenectomy.

NOTE Confidence: 0.883903

00:24:58.730 --> 00:25:00.010 Do you see a distal

NOTE Confidence: 0.883903

00:25:00.010 --> 00:25:00.510 chorangial?

NOTE Confidence: 0.8178711

00:25:00.890 --> 00:25:02.170 Yes. We do. You still.

NOTE Confidence: 0.8178711

00:25:02.170 --> 00:25:02.670 Yeah.

NOTE Confidence: 0.9793261

00:25:03.115 --> 00:25:04.794 So the I'm just briefly

NOTE Confidence: 0.9793261

00:25:04.794 --> 00:25:06.414 talking about the distal chorangial.

NOTE Confidence: 0.9269307

00:25:07.595 --> 00:25:08.975 As I mentioned in prior

NOTE Confidence: 0.9269307

00:25:09.195 --> 00:25:10.894 slide, it's, Whipple.

NOTE Confidence: 0.97074383

00:25:11.274 --> 00:25:13.034 So the workup and also

NOTE Confidence: 0.97074383

00:25:13.034 --> 00:25:13.534 treatment

NOTE Confidence: 0.9269206

00:25:13.994 --> 00:25:16.015 is is similar to Whipple's

NOTE Confidence: 0.9269206

00:25:16.075 --> 00:25:16.575 procedure.

NOTE Confidence: 0.83728606

00:25:17.859 --> 00:25:19.539 Outcome is still even r

NOTE Confidence: 0.83728606

00:25:19.539 --> 00:25:20.280 zero resection.

NOTE Confidence: 0.93594795

00:25:20.900 --> 00:25:22.419 It's better than the pancreas

NOTE Confidence: 0.93594795

00:25:22.419 --> 00:25:24.260 cancer, generally speaking, by twenty

NOTE Confidence: 0.93594795

00:25:24.260 --> 00:25:25.640 five to thirty percent.

NOTE Confidence: 0.9708252

00:25:26.340 --> 00:25:27.960 It's important to have,

NOTE Confidence: 0.9658068

00:25:28.740 --> 00:25:30.419 r zero resection, if it's

NOTE Confidence: 0.9658068

00:25:30.419 --> 00:25:30.919 possible.

NOTE Confidence: 0.87027997

00:25:31.465 --> 00:25:33.145 And then portal vein recon

NOTE Confidence: 0.87027997

00:25:33.545 --> 00:25:34.045 reconstruction

NOTE Confidence: 0.9697673

00:25:34.585 --> 00:25:35.885 and lymph node dissection,

NOTE Confidence: 0.9436035

00:25:36.185 --> 00:25:36.925 these are,

NOTE Confidence: 0.9498291

00:25:37.465 --> 00:25:39.485 also doesn't change outcomes.

NOTE Confidence: 0.95626396

00:25:45.289 --> 00:25:46.330 So let me talk about

NOTE Confidence: 0.95626396

00:25:46.330 --> 00:25:46.990 the surgical,

NOTE Confidence: 0.81225586

00:25:48.090 --> 00:25:48.590 liver,

NOTE Confidence: 0.96313477

00:25:49.210 --> 00:25:51.049 resection option for cracked skin

NOTE Confidence: 0.96313477

00:25:51.049 --> 00:25:51.549 tumor.

NOTE Confidence: 0.8864464

00:25:52.330 --> 00:25:54.190 Cracked skin tumor is classified

NOTE Confidence: 0.8864464

00:25:54.409 --> 00:25:55.450 is a biz it is

NOTE Confidence: 0.8864464

00:25:55.450 --> 00:25:56.669 called bismuth classification.

NOTE Confidence: 0.9557757

00:25:58.195 --> 00:25:59.955 When you see, type one,

NOTE Confidence: 0.9557757

00:25:59.955 --> 00:26:00.774 it's mainly,

NOTE Confidence: 0.86976457

00:26:01.234 --> 00:26:03.315 common hepatic duct and the

NOTE Confidence: 0.86976457

00:26:03.315 --> 00:26:05.414 type two including hilum.

NOTE Confidence: 0.90841675

00:26:06.115 --> 00:26:08.034 And type three a, three

NOTE Confidence: 0.90841675

00:26:08.034 --> 00:26:09.955 three b is is on

NOTE Confidence: 0.90841675

00:26:09.955 --> 00:26:11.554 the right side or left

NOTE Confidence: 0.90841675

00:26:11.554 --> 00:26:11.940 side.

NOTE Confidence: 0.9909668

00:26:12.580 --> 00:26:13.080 And,

NOTE Confidence: 0.9367676

00:26:14.419 --> 00:26:16.980 bismuth four including both right

NOTE Confidence: 0.9367676

00:26:16.980 --> 00:26:18.980 and left hepatic duct. So

NOTE Confidence: 0.9367676

00:26:18.980 --> 00:26:20.500 what does that means, from

NOTE Confidence: 0.9367676

00:26:20.500 --> 00:26:22.820 the surgical standpoint? And type

NOTE Confidence: 0.9367676

00:26:22.820 --> 00:26:24.279 one and type two,

NOTE Confidence: 0.88216144

00:26:24.615 --> 00:26:25.975 generally speaking, you wanna take

NOTE Confidence: 0.88216144

00:26:25.975 --> 00:26:27.035 a you know, remove,

NOTE Confidence: 0.81396484

00:26:27.655 --> 00:26:29.275 excise the bile duct

NOTE Confidence: 0.87065125

00:26:29.655 --> 00:26:31.015 and then plus minus if

NOTE Confidence: 0.87065125

00:26:31.015 --> 00:26:31.895 you need to have a

NOTE Confidence: 0.87065125

00:26:31.895 --> 00:26:33.575 hepatic artery and the motor

NOTE Confidence: 0.87065125

00:26:33.575 --> 00:26:34.075 vein.

NOTE Confidence: 0.9710938

00:26:34.455 --> 00:26:35.175 You need to have a,

NOTE Confidence: 0.9297665

00:26:36.455 --> 00:26:38.500 resection if it's needed. But

NOTE Confidence: 0.9297665

00:26:38.500 --> 00:26:39.940 generally speaking, you need to

NOTE Confidence: 0.9297665

00:26:39.940 --> 00:26:41.380 have a reconstruction and who

NOTE Confidence: 0.9297665

00:26:41.380 --> 00:26:42.200 and why.

NOTE Confidence: 0.90112305

00:26:42.820 --> 00:26:43.720 But relatively,

NOTE Confidence: 0.9751383

00:26:44.660 --> 00:26:45.780 you don't need to have

NOTE Confidence: 0.9751383

00:26:45.780 --> 00:26:47.400 a liver resection, not necessarily.

NOTE Confidence: 0.94845146

00:26:48.179 --> 00:26:50.260 However, type three a or

NOTE Confidence: 0.94845146

00:26:50.260 --> 00:26:51.080 three b

NOTE Confidence: 0.9630127

00:26:51.380 --> 00:26:53.320 require major liver resection.

NOTE Confidence: 0.9885254

00:26:53.925 --> 00:26:54.425 And,

NOTE Confidence: 0.79821324

00:26:55.365 --> 00:26:56.805 and also the same way

NOTE Confidence: 0.79821324

00:26:56.805 --> 00:26:58.585 hepatocar three portal vein,

NOTE Confidence: 0.9702846

00:26:59.205 --> 00:27:00.485 involvement, you need to have

NOTE Confidence: 0.9702846

00:27:00.485 --> 00:27:01.145 a reconstruction.

NOTE Confidence: 0.93464005

00:27:02.885 --> 00:27:04.585 That's that's a bigger operation,

NOTE Confidence: 0.93464005

00:27:04.725 --> 00:27:06.645 generally speaking. And also, you

NOTE Confidence: 0.93464005

00:27:06.645 --> 00:27:07.625 need to have reconstruction

NOTE Confidence: 0.9535319

00:27:07.925 --> 00:27:09.300 of bile duct.

NOTE Confidence: 0.96986216

00:27:10.260 --> 00:27:11.940 Now bismuth four is more

NOTE Confidence: 0.96986216

00:27:11.940 --> 00:27:12.440 troublesome

NOTE Confidence: 0.9159831

00:27:12.980 --> 00:27:14.660 because you you have some

NOTE Confidence: 0.9159831

00:27:14.740 --> 00:27:16.180 both of the hepatic duct

NOTE Confidence: 0.9159831

00:27:16.180 --> 00:27:17.720 right and left are involved.

NOTE Confidence: 0.942749

00:27:18.180 --> 00:27:19.460 So what is that means?

NOTE Confidence: 0.942749

00:27:19.460 --> 00:27:20.920 You do need to have

NOTE Confidence: 0.942749

00:27:20.980 --> 00:27:21.975 right trisegmentectomy.

NOTE Confidence: 0.9615304

00:27:22.754 --> 00:27:24.034 So if you have this

NOTE Confidence: 0.9615304

00:27:24.034 --> 00:27:25.875 only left lateral segment, twenty

NOTE Confidence: 0.9615304

00:27:25.875 --> 00:27:27.634 percent is left over, which

NOTE Confidence: 0.9615304

00:27:27.634 --> 00:27:29.715 is generally it's it's too

NOTE Confidence: 0.9615304

00:27:29.715 --> 00:27:30.215 small

NOTE Confidence: 0.9455915

00:27:30.595 --> 00:27:31.875 as a remnant. You would

NOTE Confidence: 0.9455915

00:27:31.875 --> 00:27:32.754 like to have a thirty

NOTE Confidence: 0.9455915

00:27:32.754 --> 00:27:34.375 to forty percent. So,

NOTE Confidence: 0.9744466

00:27:35.040 --> 00:27:36.240 in that case, you do

NOTE Confidence: 0.9744466

00:27:36.240 --> 00:27:37.460 need to have a portal

NOTE Confidence: 0.9744466

00:27:37.600 --> 00:27:38.820 portal vein embolization

NOTE Confidence: 0.98046875

00:27:39.280 --> 00:27:40.640 to make a left lateral

NOTE Confidence: 0.98046875

00:27:40.640 --> 00:27:41.620 segment bigger.

NOTE Confidence: 0.95842487

00:27:42.800 --> 00:27:44.640 And then, if it's the

NOTE Confidence: 0.95842487

00:27:44.640 --> 00:27:45.840 other side, it's you might

NOTE Confidence: 0.95842487

00:27:45.840 --> 00:27:46.720 need to have a left

NOTE Confidence: 0.95842487

00:27:46.720 --> 00:27:47.220 trisemantectomy.

NOTE Confidence: 0.94718426

00:27:48.935 --> 00:27:49.835 So these are,

NOTE Confidence: 0.923584

00:27:50.775 --> 00:27:51.275 surgery,

NOTE Confidence: 0.8414917

00:27:52.055 --> 00:27:52.955 outcome, particularly,

NOTE Confidence: 0.7776151

00:27:55.575 --> 00:27:57.015 like in Nagoya's group, they

NOTE Confidence: 0.7776151

00:27:57.015 --> 00:27:57.515 have

NOTE Confidence: 0.6230469

00:27:57.975 --> 00:27:58.475 extraordinary

NOTE Confidence: 0.95458984

00:27:58.855 --> 00:27:59.355 outcomes.

NOTE Confidence: 0.9902344

00:28:00.135 --> 00:28:00.630 But

NOTE Confidence: 0.95481133

00:28:00.950 --> 00:28:02.390 the aim is try to

NOTE Confidence: 0.95481133

00:28:02.390 --> 00:28:04.310 get r zero resection. It's

NOTE Confidence: 0.95481133

00:28:04.310 --> 00:28:05.510 r you know, compared to

NOTE Confidence: 0.95481133

00:28:05.510 --> 00:28:06.490 r one resection,

NOTE Confidence: 0.87996423

00:28:06.950 --> 00:28:08.790 outcome is, is a is

NOTE Confidence: 0.87996423

00:28:08.790 --> 00:28:10.310 a different overall five year

NOTE Confidence: 0.87996423

00:28:10.310 --> 00:28:12.170 survival, thirty to forty percent

NOTE Confidence: 0.87996423

00:28:12.310 --> 00:28:13.510 if you have r zero

NOTE Confidence: 0.87996423

00:28:13.510 --> 00:28:15.174 resection. Resection, but r one's

NOTE Confidence: 0.87996423

00:28:15.174 --> 00:28:15.674 microscopic

NOTE Confidence: 0.55163574

00:28:16.054 --> 00:28:16.794 is leftover,

NOTE Confidence: 0.9375

00:28:17.815 --> 00:28:19.195 is only ten percent.

NOTE Confidence: 0.9597168

00:28:24.294 --> 00:28:24.794 Preoperative

NOTE Confidence: 0.9389038

00:28:25.174 --> 00:28:25.994 and adjuvant,

NOTE Confidence: 0.91918945

00:28:26.890 --> 00:28:27.390 consideration,

NOTE Confidence: 0.84223634

00:28:28.730 --> 00:28:30.669 is I've already kinda mentioned,

NOTE Confidence: 0.88742405

00:28:33.290 --> 00:28:34.429 portal vein embolization

NOTE Confidence: 0.9765625

00:28:34.730 --> 00:28:35.630 to increase,

NOTE Confidence: 0.9246419

00:28:36.730 --> 00:28:38.030 remnant of liver.

NOTE Confidence: 0.8944417

00:28:38.890 --> 00:28:40.755 That's a key. And, you

NOTE Confidence: 0.8944417

00:28:40.995 --> 00:28:42.375 used to be a PTBD,

NOTE Confidence: 0.9759567

00:28:43.315 --> 00:28:44.835 drainage of a bile duct.

NOTE Confidence: 0.9759567

00:28:45.075 --> 00:28:46.215 When you have obstructing,

NOTE Confidence: 0.9413249

00:28:46.995 --> 00:28:48.135 it doesn't function.

NOTE Confidence: 0.9514974

00:28:48.915 --> 00:28:49.975 But we prefer,

NOTE Confidence: 0.9954427

00:28:50.675 --> 00:28:51.175 ERCP

NOTE Confidence: 0.9941406

00:28:51.555 --> 00:28:52.455 to decompress

NOTE Confidence: 0.7420044

00:28:52.755 --> 00:28:53.575 bile duct,

NOTE Confidence: 0.8405462

00:28:55.130 --> 00:28:56.350 in terms of a tumor

NOTE Confidence: 0.8405462

00:28:56.410 --> 00:28:58.169 outcomes. And then, I'm done

NOTE Confidence: 0.8405462

00:28:58.169 --> 00:28:59.789 going for Azovant and systemic

NOTE Confidence: 0.8405462

00:28:59.850 --> 00:29:01.470 treatment, but these are,

NOTE Confidence: 0.936084

00:29:03.450 --> 00:29:05.470 very important, in the preoperative

NOTE Confidence: 0.93025714

00:29:05.929 --> 00:29:08.110 treatment of surgical treat, surgical

NOTE Confidence: 0.93025714

00:29:08.169 --> 00:29:08.669 therapy.

NOTE Confidence: 0.92743754

00:29:11.375 --> 00:29:13.395 And so there's two landmark

NOTE Confidence: 0.92743754

00:29:13.455 --> 00:29:15.375 studies. One is from Sloan

NOTE Confidence: 0.92743754

00:29:15.375 --> 00:29:16.815 Kettering, and one is from

NOTE Confidence: 0.92743754

00:29:16.815 --> 00:29:18.015 Nagano's group.

NOTE Confidence: 0.9763997

00:29:18.735 --> 00:29:19.235 Nagino,

NOTE Confidence: 0.91015625

00:29:19.775 --> 00:29:21.955 and numerous, they have tremendous

NOTE Confidence: 0.91015625

00:29:22.015 --> 00:29:22.515 outcomes.

NOTE Confidence: 0.8569336

00:29:23.570 --> 00:29:24.230 But, overall,

NOTE Confidence: 0.91967773

00:29:24.690 --> 00:29:25.170 the,

NOTE Confidence: 0.88427734

00:29:25.490 --> 00:29:26.690 when you have a good

NOTE Confidence: 0.88427734

00:29:26.690 --> 00:29:27.590 liver resection,

NOTE Confidence: 0.9978841

00:29:28.290 --> 00:29:29.270 you could achieve,

NOTE Confidence: 0.98598635

00:29:30.450 --> 00:29:32.710 thirty to fifty percent of,

NOTE Confidence: 0.8621419

00:29:33.090 --> 00:29:33.590 survivals,

NOTE Confidence: 0.9986328

00:29:34.530 --> 00:29:36.309 but these are selected cases.

NOTE Confidence: 0.9005805

00:29:39.185 --> 00:29:40.465 Now I just wanna mention

NOTE Confidence: 0.9005805

00:29:40.465 --> 00:29:41.925 about cracked skin tumor,

NOTE Confidence: 0.9752197

00:29:42.465 --> 00:29:43.285 Mayo protocol.

NOTE Confidence: 0.93927

00:29:43.905 --> 00:29:45.505 Mayo group has been,

NOTE Confidence: 0.9992676

00:29:45.985 --> 00:29:48.165 advocating for liver transplantation

NOTE Confidence: 0.92441404

00:29:48.465 --> 00:29:50.085 for this cracked skin tumor.

NOTE Confidence: 0.88946533

00:29:51.345 --> 00:29:52.725 They are very, very,

NOTE Confidence: 0.98095703

00:29:53.880 --> 00:29:55.020 extensive protocol,

NOTE Confidence: 0.8848766

00:29:56.040 --> 00:29:58.220 prior to transplant and also

NOTE Confidence: 0.8848766

00:29:58.280 --> 00:29:59.960 before, when you're listing a

NOTE Confidence: 0.8848766

00:29:59.960 --> 00:30:00.460 patient.

NOTE Confidence: 0.93725586

00:30:01.560 --> 00:30:02.060 Then,

NOTE Confidence: 0.9350586

00:30:03.960 --> 00:30:05.240 it's it's by all means,

NOTE Confidence: 0.9350586

00:30:05.240 --> 00:30:06.220 it's very selected

NOTE Confidence: 0.8739828

00:30:07.000 --> 00:30:09.455 cases. The original study was

NOTE Confidence: 0.8739828

00:30:09.455 --> 00:30:10.274 from PSC.

NOTE Confidence: 0.8846261

00:30:10.654 --> 00:30:11.534 And then when you have

NOTE Confidence: 0.8846261

00:30:11.534 --> 00:30:12.674 the, cholangiocarcinoma,

NOTE Confidence: 0.86198676

00:30:13.215 --> 00:30:14.735 they find out. They're going

NOTE Confidence: 0.86198676

00:30:14.735 --> 00:30:16.735 for transplant. But even that,

NOTE Confidence: 0.86198676

00:30:16.735 --> 00:30:18.335 the de novo, without the

NOTE Confidence: 0.86198676

00:30:18.335 --> 00:30:18.835 PSC,

NOTE Confidence: 0.8884522

00:30:19.855 --> 00:30:21.394 they apply the same methodology,

NOTE Confidence: 0.9285753

00:30:21.774 --> 00:30:22.800 and it seems like it's

NOTE Confidence: 0.9285753

00:30:23.120 --> 00:30:24.740 achieving the same outcomes.

NOTE Confidence: 0.86690265

00:30:25.200 --> 00:30:26.900 However, because of,

NOTE Confidence: 0.91967773

00:30:27.440 --> 00:30:28.260 lots of,

NOTE Confidence: 0.8397136

00:30:28.800 --> 00:30:30.660 this is truly multi multidisciplinary

NOTE Confidence: 0.9770508

00:30:31.920 --> 00:30:32.420 preparations

NOTE Confidence: 0.9083534

00:30:32.720 --> 00:30:34.500 needed. Not too many transplant

NOTE Confidence: 0.9083534

00:30:34.560 --> 00:30:36.820 centers, not necessarily be support

NOTE Confidence: 0.9083534

00:30:36.880 --> 00:30:38.205 that treatment. However,

NOTE Confidence: 0.97106934

00:30:41.145 --> 00:30:41.885 the outcomes,

NOTE Confidence: 0.9970703

00:30:42.825 --> 00:30:43.325 are

NOTE Confidence: 0.83942205

00:30:45.305 --> 00:30:46.745 very good outcomes. Five years

NOTE Confidence: 0.83942205

00:30:46.745 --> 00:30:48.665 fibro is about sixty five

NOTE Confidence: 0.83942205

00:30:48.665 --> 00:30:49.165 percent,

NOTE Confidence: 0.95857745

00:30:49.865 --> 00:30:51.725 both PSC and non PSC.

NOTE Confidence: 0.8295085

00:30:52.900 --> 00:30:54.280 The UNOS actually,

NOTE Confidence: 0.8891392

00:30:54.740 --> 00:30:57.140 will give, exception point if

NOTE Confidence: 0.8891392

00:30:57.140 --> 00:30:58.740 it's a meet criteria for

NOTE Confidence: 0.8891392

00:30:58.740 --> 00:31:00.660 this Kratzkin tumor liver transplant

NOTE Confidence: 0.8891392

00:31:00.660 --> 00:31:01.160 case.

NOTE Confidence: 0.8084542

00:31:04.340 --> 00:31:06.625 The original studies, is a

NOTE Confidence: 0.8084542

00:31:06.625 --> 00:31:07.445 Mayo studies.

NOTE Confidence: 0.95825195

00:31:07.905 --> 00:31:09.925 That was confirmed by,

NOTE Confidence: 0.2662964

00:31:10.545 --> 00:31:11.045 worldwide,

NOTE Confidence: 0.8169678

00:31:11.905 --> 00:31:13.765 unit studies and also international,

NOTE Confidence: 0.8413086

00:31:16.145 --> 00:31:16.645 studies

NOTE Confidence: 0.99902344

00:31:17.185 --> 00:31:18.005 as well.

NOTE Confidence: 0.99658203

00:31:20.660 --> 00:31:21.160 Now,

NOTE Confidence: 0.9463072

00:31:22.180 --> 00:31:23.220 I think this is more

NOTE Confidence: 0.9463072

00:31:23.220 --> 00:31:25.160 focusing on for intracellular

NOTE Confidence: 0.96416014

00:31:25.700 --> 00:31:26.200 intrahepatic,

NOTE Confidence: 0.93641496

00:31:27.300 --> 00:31:27.800 cholangiocarcinoma.

NOTE Confidence: 0.97998047

00:31:30.020 --> 00:31:31.220 The reason why being,

NOTE Confidence: 0.91160077

00:31:32.195 --> 00:31:33.635 it seems like incidence of

NOTE Confidence: 0.91160077

00:31:33.635 --> 00:31:34.135 intrahepatic

NOTE Confidence: 0.9126587

00:31:34.835 --> 00:31:35.335 cholangiocarcinoma

NOTE Confidence: 0.89868164

00:31:36.035 --> 00:31:36.855 has increasing,

NOTE Confidence: 0.98624676

00:31:38.195 --> 00:31:39.255 as well as,

NOTE Confidence: 0.8453776

00:31:40.195 --> 00:31:41.575 trans liver transplantation

NOTE Confidence: 0.9980469

00:31:41.875 --> 00:31:42.934 for intrahepatic

NOTE Confidence: 0.9707031

00:31:43.315 --> 00:31:43.795 liver,

NOTE Confidence: 0.99676514

00:31:44.355 --> 00:31:44.855 cholangiocarcinoma

NOTE Confidence: 0.99039716

00:31:45.795 --> 00:31:47.175 has progressed tremendously.

NOTE Confidence: 0.9401611

00:31:49.450 --> 00:31:51.929 But overall, the PRINCEPRO is,

NOTE Confidence: 0.9001465

00:31:52.250 --> 00:31:52.750 something,

NOTE Confidence: 0.98950195

00:31:53.210 --> 00:31:53.710 similar.

NOTE Confidence: 0.98547363

00:31:54.730 --> 00:31:55.950 However, resection,

NOTE Confidence: 0.93826294

00:31:56.650 --> 00:31:58.510 is almost like a hepacillary

NOTE Confidence: 0.93826294

00:31:58.570 --> 00:31:59.950 carcinoma liver resection.

NOTE Confidence: 0.8805176

00:32:00.650 --> 00:32:02.669 Maybe only difference would be,

NOTE Confidence: 0.97822267

00:32:03.655 --> 00:32:05.835 would be ideal to obtain,

NOTE Confidence: 0.9555664

00:32:06.695 --> 00:32:07.755 lymph node dissection,

NOTE Confidence: 0.93326825

00:32:08.535 --> 00:32:10.055 to have a more, lymph

NOTE Confidence: 0.93326825

00:32:10.055 --> 00:32:11.255 node is that will be

NOTE Confidence: 0.93326825

00:32:11.255 --> 00:32:13.035 a prognostic and also therapeutic.

NOTE Confidence: 0.9301758

00:32:15.255 --> 00:32:15.755 However,

NOTE Confidence: 0.8376465

00:32:16.055 --> 00:32:16.795 five year,

NOTE Confidence: 0.9621582

00:32:17.800 --> 00:32:18.300 survival,

NOTE Confidence: 0.83569336

00:32:18.760 --> 00:32:20.600 r zero resection steroids twenty

NOTE Confidence: 0.83569336

00:32:20.600 --> 00:32:21.980 five to thirty five percent,

NOTE Confidence: 0.73602295

00:32:22.920 --> 00:32:24.220 of, interest,

NOTE Confidence: 0.948249

00:32:25.080 --> 00:32:26.380 intrahepatic cholangiocarcinoma.

NOTE Confidence: 0.9622803

00:32:30.634 --> 00:32:32.715 And landmark studies is,

NOTE Confidence: 0.9124756

00:32:33.274 --> 00:32:34.414 Hopkins and,

NOTE Confidence: 0.80181885

00:32:35.195 --> 00:32:36.174 Sloan's group.

NOTE Confidence: 0.9230957

00:32:37.914 --> 00:32:39.534 Its outcome is something similar.

NOTE Confidence: 0.9995117

00:32:39.914 --> 00:32:40.894 Generally speaking,

NOTE Confidence: 0.9024251

00:32:41.355 --> 00:32:42.254 it's the importance

NOTE Confidence: 0.92303467

00:32:42.554 --> 00:32:44.095 of r zero section,

NOTE Confidence: 0.9956868

00:32:44.850 --> 00:32:46.150 for surgical cases.

NOTE Confidence: 0.8638238

00:32:47.570 --> 00:32:49.090 And the challenge is sometimes

NOTE Confidence: 0.8638238

00:32:49.090 --> 00:32:50.690 is, do you have,

NOTE Confidence: 0.9822591

00:32:51.250 --> 00:32:52.790 enough remnant volume

NOTE Confidence: 0.93258023

00:32:53.250 --> 00:32:55.010 after resection? That's that's a

NOTE Confidence: 0.93258023

00:32:55.010 --> 00:32:57.110 challenge in cases, particularly cirrhotic

NOTE Confidence: 0.93258023

00:32:57.170 --> 00:32:57.670 patient.

NOTE Confidence: 0.9970703

00:33:02.075 --> 00:33:02.975 So now,

NOTE Confidence: 0.986084

00:33:03.995 --> 00:33:05.375 maybe last, particularly,

NOTE Confidence: 0.99912107

00:33:06.715 --> 00:33:08.414 last five years or so,

NOTE Confidence: 0.858846

00:33:09.595 --> 00:33:11.375 the this, you know, transplant

NOTE Confidence: 0.858846

00:33:11.514 --> 00:33:12.014 community,

NOTE Confidence: 0.9563488

00:33:12.440 --> 00:33:14.040 we are more focusing on

NOTE Confidence: 0.9563488

00:33:14.120 --> 00:33:15.640 it is called transplant on

NOTE Confidence: 0.9563488

00:33:15.640 --> 00:33:16.140 colosy.

NOTE Confidence: 0.95816714

00:33:16.760 --> 00:33:19.340 So the hepatocellular carcinoma, obviously,

NOTE Confidence: 0.95816714

00:33:19.559 --> 00:33:21.559 we've been transplanting for many,

NOTE Confidence: 0.95816714

00:33:21.559 --> 00:33:22.299 many years.

NOTE Confidence: 1

00:33:22.600 --> 00:33:23.100 However,

NOTE Confidence: 0.9488874

00:33:23.799 --> 00:33:25.640 we we start focusing on

NOTE Confidence: 0.9488874

00:33:25.640 --> 00:33:26.460 for cholangiocarcinoma

NOTE Confidence: 0.97665405

00:33:27.635 --> 00:33:29.495 and also colorectal metastasis

NOTE Confidence: 0.8748474

00:33:29.795 --> 00:33:31.635 to the liver. Some selected

NOTE Confidence: 0.8748474

00:33:31.635 --> 00:33:32.855 cases is. And,

NOTE Confidence: 0.9654541

00:33:35.075 --> 00:33:36.855 particularly opening up idea

NOTE Confidence: 0.94754463

00:33:37.315 --> 00:33:38.995 of, and also people pay

NOTE Confidence: 0.94754463

00:33:38.995 --> 00:33:40.135 attention to,

NOTE Confidence: 0.9566345

00:33:41.410 --> 00:33:42.070 this, chorangiocarcinoma

NOTE Confidence: 0.99560547

00:33:42.690 --> 00:33:43.430 liver transplantation

NOTE Confidence: 0.9831543

00:33:43.890 --> 00:33:44.390 is,

NOTE Confidence: 0.98232424

00:33:45.010 --> 00:33:47.270 in two thousand fourteen, sixteen,

NOTE Confidence: 0.8993688

00:33:48.690 --> 00:33:51.270 Spanish studies and, which shows

NOTE Confidence: 0.8993688

00:33:51.330 --> 00:33:53.350 about, below two centimeter,

NOTE Confidence: 0.93115234

00:33:53.985 --> 00:33:54.485 chorangiocarcinoma.

NOTE Confidence: 0.9191546

00:33:55.184 --> 00:33:56.785 And the transplant outcome is

NOTE Confidence: 0.9191546

00:33:56.785 --> 00:33:57.765 essentially fantastic,

NOTE Confidence: 0.8017578

00:33:58.545 --> 00:33:59.025 almost,

NOTE Confidence: 0.8789673

00:33:59.505 --> 00:34:01.205 a hundred percent, survival,

NOTE Confidence: 0.8464966

00:34:02.065 --> 00:34:02.965 for very,

NOTE Confidence: 0.90856934

00:34:04.305 --> 00:34:05.605 small number of cases.

NOTE Confidence: 0.9243164

00:34:06.520 --> 00:34:08.840 And that's also confirmed in

NOTE Confidence: 0.9243164

00:34:08.840 --> 00:34:09.820 multiple studies.

NOTE Confidence: 0.99560547

00:34:10.120 --> 00:34:10.620 And,

NOTE Confidence: 0.74026924

00:34:11.719 --> 00:34:13.719 as doctor Suresh Vasco had

NOTE Confidence: 0.74026924

00:34:13.719 --> 00:34:14.620 showed, actually,

NOTE Confidence: 0.9141188

00:34:16.040 --> 00:34:17.719 you know, three centimeter cut

NOTE Confidence: 0.9141188

00:34:17.719 --> 00:34:20.120 off. It depends on, studies,

NOTE Confidence: 0.9141188

00:34:20.120 --> 00:34:21.500 but that was,

NOTE Confidence: 0.8618164

00:34:23.135 --> 00:34:23.875 made into

NOTE Confidence: 0.7864583

00:34:24.575 --> 00:34:25.075 UNOS,

NOTE Confidence: 0.9695638

00:34:26.175 --> 00:34:28.094 create a policy for UNOS

NOTE Confidence: 0.9695638

00:34:28.094 --> 00:34:28.594 exception.

NOTE Confidence: 0.92595565

00:34:29.614 --> 00:34:31.155 It's smaller than three centimeter

NOTE Confidence: 0.92595565

00:34:31.215 --> 00:34:31.875 of cholangiocarcinoma

NOTE Confidence: 0.95670575

00:34:32.895 --> 00:34:34.175 with six months,

NOTE Confidence: 0.9440918

00:34:34.815 --> 00:34:35.315 observation.

NOTE Confidence: 0.94799805

00:34:35.855 --> 00:34:37.055 As far as this doesn't

NOTE Confidence: 0.94799805

00:34:37.055 --> 00:34:37.555 progress,

NOTE Confidence: 0.8999837

00:34:39.110 --> 00:34:40.310 UNOS will give,

NOTE Confidence: 0.8701477

00:34:40.710 --> 00:34:42.630 it is called MMT minus

NOTE Confidence: 0.8701477

00:34:42.630 --> 00:34:43.830 three, which is like a

NOTE Confidence: 0.8701477

00:34:43.830 --> 00:34:45.670 MER score twenty eight, the

NOTE Confidence: 0.8701477

00:34:45.670 --> 00:34:47.850 same as a hepatocellular carcinoma

NOTE Confidence: 0.97402346

00:34:48.150 --> 00:34:49.770 when you have exception point.

NOTE Confidence: 0.89560544

00:34:50.085 --> 00:34:51.685 So that will open up,

NOTE Confidence: 0.9983724

00:34:52.165 --> 00:34:53.145 the big paradigm

NOTE Confidence: 0.97631836

00:34:53.525 --> 00:34:54.025 for,

NOTE Confidence: 0.9942627

00:34:55.285 --> 00:34:57.545 liver transplantation for intrahepatic

NOTE Confidence: 0.7607422

00:34:58.005 --> 00:34:58.505 liver,

NOTE Confidence: 0.8625488

00:34:59.125 --> 00:34:59.625 cholangiocarcinoma.

NOTE Confidence: 0.9963379

00:35:02.730 --> 00:35:03.630 So the,

NOTE Confidence: 0.76958007

00:35:04.330 --> 00:35:06.510 so rational array is still

NOTE Confidence: 0.7922363

00:35:06.969 --> 00:35:07.469 even,

NOTE Confidence: 0.6897583

00:35:08.170 --> 00:35:09.550 r zero resection case.

NOTE Confidence: 0.93721515

00:35:09.930 --> 00:35:11.930 Liver resection does not give

NOTE Confidence: 0.93721515

00:35:11.930 --> 00:35:12.430 you,

NOTE Confidence: 0.71569824

00:35:14.010 --> 00:35:14.910 great outcome.

NOTE Confidence: 0.9951172

00:35:15.770 --> 00:35:17.230 And then the small

NOTE Confidence: 0.9633789

00:35:18.435 --> 00:35:18.935 size

NOTE Confidence: 0.27954102

00:35:19.395 --> 00:35:19.895 or

NOTE Confidence: 0.79681396

00:35:20.355 --> 00:35:20.855 intrahepatic

NOTE Confidence: 0.39086914

00:35:21.155 --> 00:35:21.395 liver

NOTE Confidence: 0.8491821

00:35:21.955 --> 00:35:22.455 chorangiocarcinoma

NOTE Confidence: 0.8798828

00:35:23.315 --> 00:35:23.815 outcome

NOTE Confidence: 0.9176636

00:35:24.195 --> 00:35:25.415 seems to be promising.

NOTE Confidence: 0.81103516

00:35:27.715 --> 00:35:28.215 Therefore,

NOTE Confidence: 0.65914714

00:35:28.995 --> 00:35:30.455 and ours and the unit's,

NOTE Confidence: 0.99044365

00:35:30.835 --> 00:35:32.275 change of policy. So the

NOTE Confidence: 0.99044365

00:35:32.275 --> 00:35:33.094 last year,

NOTE Confidence: 0.96484375

00:35:33.890 --> 00:35:34.550 I asked,

NOTE Confidence: 0.9023031

00:35:35.810 --> 00:35:36.710 doctor Jaffe,

NOTE Confidence: 0.8803045

00:35:37.010 --> 00:35:38.850 you know, our hepatologist, and

NOTE Confidence: 0.8803045

00:35:38.850 --> 00:35:40.450 then working with all the

NOTE Confidence: 0.8803045

00:35:40.450 --> 00:35:40.950 SMILOs,

NOTE Confidence: 0.7702637

00:35:41.890 --> 00:35:42.390 group,

NOTE Confidence: 0.9875488

00:35:42.930 --> 00:35:43.750 we create,

NOTE Confidence: 0.9941406

00:35:44.290 --> 00:35:44.790 Yale's,

NOTE Confidence: 0.94989014

00:35:45.170 --> 00:35:45.670 chorangiocarcinoma

NOTE Confidence: 0.90600586

00:35:46.290 --> 00:35:46.790 protocol,

NOTE Confidence: 0.9896721

00:35:47.325 --> 00:35:49.005 for liver transplantation. I would

NOTE Confidence: 0.9896721

00:35:49.005 --> 00:35:49.805 like to show it to

NOTE Confidence: 0.9896721

00:35:49.805 --> 00:35:50.305 you.

NOTE Confidence: 0.93046874

00:35:52.605 --> 00:35:54.525 So the inclusion this is

NOTE Confidence: 0.93046874

00:35:54.525 --> 00:35:56.385 the inclusion criteria and exclusion

NOTE Confidence: 0.9951172

00:35:56.685 --> 00:35:57.185 criteria.

NOTE Confidence: 0.99121094

00:35:57.645 --> 00:36:00.065 Inclusion criteria is, is adult

NOTE Confidence: 0.98657227

00:36:00.480 --> 00:36:01.540 and, either,

NOTE Confidence: 0.9716797

00:36:02.880 --> 00:36:03.380 cholangiocarcinoma,

NOTE Confidence: 0.9983724

00:36:04.480 --> 00:36:05.619 by tissue diagnosis

NOTE Confidence: 0.878323

00:36:06.000 --> 00:36:07.619 or mixed tumor, cholangiocarcinoma,

NOTE Confidence: 0.99121094

00:36:10.320 --> 00:36:11.540 that can be included.

NOTE Confidence: 0.8856201

00:36:13.175 --> 00:36:13.915 And, obviously,

NOTE Confidence: 0.991333

00:36:14.375 --> 00:36:15.195 there's no

NOTE Confidence: 0.93641883

00:36:15.495 --> 00:36:17.435 lymph node or some distance

NOTE Confidence: 0.93641883

00:36:17.495 --> 00:36:18.155 of metathesis,

NOTE Confidence: 0.86120605

00:36:18.775 --> 00:36:19.915 that would be excluded,

NOTE Confidence: 0.99820966

00:36:20.375 --> 00:36:21.275 from the criteria.

NOTE Confidence: 0.93965656

00:36:25.329 --> 00:36:27.250 And and, obviously, there's,

NOTE Confidence: 0.9207001

00:36:27.890 --> 00:36:29.650 patient need to tolerate the

NOTE Confidence: 0.9207001

00:36:29.650 --> 00:36:30.849 transplant, so the,

NOTE Confidence: 0.96655273

00:36:32.130 --> 00:36:32.630 cardiopulmonary

NOTE Confidence: 0.99609375

00:36:33.650 --> 00:36:35.430 function need to be appropriate.

NOTE Confidence: 0.9662737

00:36:38.385 --> 00:36:40.705 Workup and staging is, something

NOTE Confidence: 0.9662737

00:36:40.705 --> 00:36:41.605 similar to,

NOTE Confidence: 0.59472656

00:36:43.505 --> 00:36:44.005 as

NOTE Confidence: 0.5105591

00:36:44.305 --> 00:36:44.805 a,

NOTE Confidence: 0.9012587

00:36:45.905 --> 00:36:47.364 workup for, cholangiocarcinoma,

NOTE Confidence: 0.99210614

00:36:48.065 --> 00:36:49.445 MRI, CT scan,

NOTE Confidence: 0.9121582

00:36:50.385 --> 00:36:52.085 and then also PET scan.

NOTE Confidence: 0.9088745

00:36:54.420 --> 00:36:55.140 And we do need to

NOTE Confidence: 0.9088745

00:36:55.140 --> 00:36:56.200 have tissue diagnosis.

NOTE Confidence: 0.95544434

00:36:59.780 --> 00:37:01.080 So this is a major,

NOTE Confidence: 0.95544434

00:37:01.140 --> 00:37:01.640 probably,

NOTE Confidence: 0.97802734

00:37:01.940 --> 00:37:03.160 takeaway from,

NOTE Confidence: 0.99658203

00:37:03.620 --> 00:37:04.440 our protocol.

NOTE Confidence: 0.9198134

00:37:06.425 --> 00:37:07.325 So we don't,

NOTE Confidence: 0.9655762

00:37:08.505 --> 00:37:09.005 exclude,

NOTE Confidence: 0.90498734

00:37:09.705 --> 00:37:11.545 the size. If we let's

NOTE Confidence: 0.90498734

00:37:11.545 --> 00:37:13.085 say, even, like, ten centimeter

NOTE Confidence: 0.90498734

00:37:13.305 --> 00:37:13.805 cholangiocarcinoma,

NOTE Confidence: 0.83808595

00:37:14.744 --> 00:37:16.765 that's not necessarily the automatic,

NOTE Confidence: 0.9592285

00:37:17.385 --> 00:37:18.364 no for,

NOTE Confidence: 0.9992676

00:37:18.905 --> 00:37:19.724 that protocol.

NOTE Confidence: 0.7999573

00:37:21.660 --> 00:37:23.220 It's more important would be

NOTE Confidence: 0.7999573

00:37:23.220 --> 00:37:24.180 a tumor biology,

NOTE Confidence: 0.8883464

00:37:24.739 --> 00:37:26.440 has a response to neoadjuvant

NOTE Confidence: 0.8883464

00:37:26.660 --> 00:37:27.160 treatment.

NOTE Confidence: 0.94833994

00:37:28.180 --> 00:37:29.620 But we do we cut

NOTE Confidence: 0.94833994

00:37:29.700 --> 00:37:30.739 we make a cut with

NOTE Confidence: 0.94833994

00:37:30.739 --> 00:37:32.739 two centimeter versus above two

NOTE Confidence: 0.94833994

00:37:32.739 --> 00:37:34.600 centimeter. Below the two centimeter,

NOTE Confidence: 0.8910598

00:37:36.114 --> 00:37:37.395 the patient will go, like,

NOTE Confidence: 0.8910598

00:37:37.395 --> 00:37:38.535 hypocerebral carcinoma,

NOTE Confidence: 0.83999026

00:37:39.075 --> 00:37:40.695 going to have a neoadsibone

NOTE Confidence: 0.8408203

00:37:40.995 --> 00:37:42.995 treatment such as particularly for

NOTE Confidence: 0.8408203

00:37:42.995 --> 00:37:44.515 this is, like, Y ninety

NOTE Confidence: 0.8408203

00:37:44.515 --> 00:37:45.015 or,

NOTE Confidence: 0.83297294

00:37:45.635 --> 00:37:47.475 radiation based, that'd be better.

NOTE Confidence: 0.83297294

00:37:47.475 --> 00:37:48.690 But, abrasion,

NOTE Confidence: 0.98738605

00:37:49.870 --> 00:37:50.850 try to maintain,

NOTE Confidence: 0.98945314

00:37:51.469 --> 00:37:52.930 for the next six months.

NOTE Confidence: 0.9921875

00:37:53.870 --> 00:37:54.370 Then,

NOTE Confidence: 0.6899007

00:37:56.830 --> 00:37:58.130 the, patient may,

NOTE Confidence: 0.9428362

00:37:59.150 --> 00:38:00.684 have a MET score. So

NOTE Confidence: 0.9428362

00:38:00.684 --> 00:38:01.505 the transplantation,

NOTE Confidence: 0.9444755

00:38:02.605 --> 00:38:04.285 from deceased donor is a

NOTE Confidence: 0.9444755

00:38:04.285 --> 00:38:05.265 feasible option.

NOTE Confidence: 0.8315633

00:38:05.805 --> 00:38:08.224 Now if above two centimeter

NOTE Confidence: 0.8315633

00:38:08.444 --> 00:38:09.665 or mars multifocal,

NOTE Confidence: 0.89801025

00:38:11.964 --> 00:38:12.464 cholangiocarcinoma

NOTE Confidence: 0.987854

00:38:13.910 --> 00:38:16.010 And then, we mandated,

NOTE Confidence: 0.76447755

00:38:16.950 --> 00:38:19.370 neosporin the chemo treatment, essentially,

NOTE Confidence: 0.9980469

00:38:20.390 --> 00:38:21.430 and then to see the

NOTE Confidence: 0.9980469

00:38:21.430 --> 00:38:21.930 response.

NOTE Confidence: 0.9904785

00:38:22.870 --> 00:38:24.250 The issue is,

NOTE Confidence: 0.9740668

00:38:25.590 --> 00:38:26.890 above three centimeter,

NOTE Confidence: 0.90789115

00:38:29.435 --> 00:38:30.875 the UNOS does not give

NOTE Confidence: 0.90789115

00:38:30.875 --> 00:38:33.195 you exception point. So so

NOTE Confidence: 0.90789115

00:38:33.195 --> 00:38:34.635 that means if you have

NOTE Confidence: 0.90789115

00:38:34.635 --> 00:38:35.935 a multiple multifocal,

NOTE Confidence: 0.9776001

00:38:37.594 --> 00:38:38.094 cholangiocarcinoma

NOTE Confidence: 0.9338379

00:38:38.875 --> 00:38:39.375 or,

NOTE Confidence: 0.98657227

00:38:40.235 --> 00:38:40.735 if,

NOTE Confidence: 0.8564453

00:38:41.515 --> 00:38:42.015 above,

NOTE Confidence: 0.9605306

00:38:43.520 --> 00:38:44.660 above three centimeter

NOTE Confidence: 0.984375

00:38:45.280 --> 00:38:45.780 tumor,

NOTE Confidence: 0.9909668

00:38:46.400 --> 00:38:46.900 then,

NOTE Confidence: 0.9225098

00:38:47.440 --> 00:38:48.800 the only option will be

NOTE Confidence: 0.9225098

00:38:48.800 --> 00:38:50.339 a living donor liver transplant.

NOTE Confidence: 0.902771

00:38:50.800 --> 00:38:51.839 So that's the only,

NOTE Confidence: 0.95477295

00:38:52.239 --> 00:38:53.520 the problem is. But,

NOTE Confidence: 0.55371094

00:38:54.319 --> 00:38:55.219 none of this,

NOTE Confidence: 0.9417307

00:38:57.165 --> 00:38:59.085 We will be able to

NOTE Confidence: 0.9417307

00:38:59.085 --> 00:39:01.085 see the tumor biology. So

NOTE Confidence: 0.9417307

00:39:01.085 --> 00:39:02.364 if it's have a response

NOTE Confidence: 0.9417307

00:39:02.364 --> 00:39:03.405 to it, even to, like,

NOTE Confidence: 0.9417307

00:39:03.405 --> 00:39:05.265 say, ten centimeter chorangiocarcinoma,

NOTE Confidence: 0.9770508

00:39:06.844 --> 00:39:08.605 if you, if the patient

NOTE Confidence: 0.9770508

00:39:08.605 --> 00:39:10.305 have a good tumor response,

NOTE Confidence: 0.92458767

00:39:10.685 --> 00:39:11.745 to a chemo,

NOTE Confidence: 0.9784953

00:39:12.660 --> 00:39:13.619 as far as the living

NOTE Confidence: 0.9784953

00:39:13.619 --> 00:39:15.780 donor is available, then, we

NOTE Confidence: 0.9784953

00:39:15.780 --> 00:39:16.520 we will,

NOTE Confidence: 0.9445801

00:39:17.460 --> 00:39:19.079 after we discuss in,

NOTE Confidence: 0.88916016

00:39:20.660 --> 00:39:22.339 tumor board and also, the

NOTE Confidence: 0.88916016

00:39:22.339 --> 00:39:22.839 meeting,

NOTE Confidence: 0.8964844

00:39:23.140 --> 00:39:23.800 we will,

NOTE Confidence: 0.8439331

00:39:25.219 --> 00:39:26.739 trying to go for live

NOTE Confidence: 0.8439331

00:39:26.739 --> 00:39:27.800 donor liver transplant.

NOTE Confidence: 0.8569336

00:39:32.475 --> 00:39:33.995 So, again, this is something

NOTE Confidence: 0.8569336

00:39:34.075 --> 00:39:35.435 it's it's the same,

NOTE Confidence: 0.9758301

00:39:35.755 --> 00:39:36.655 same same,

NOTE Confidence: 0.98095703

00:39:37.195 --> 00:39:38.335 same in a different,

NOTE Confidence: 0.786499

00:39:39.755 --> 00:39:40.900 color, but,

NOTE Confidence: 0.9318472

00:39:41.380 --> 00:39:43.060 so two centimeter and above

NOTE Confidence: 0.9318472

00:39:43.060 --> 00:39:44.340 two centimeter. This is a

NOTE Confidence: 0.9318472

00:39:44.340 --> 00:39:45.719 year year's protocol.

NOTE Confidence: 0.95458984

00:39:46.660 --> 00:39:48.500 Each institution have a different

NOTE Confidence: 0.95458984

00:39:48.500 --> 00:39:49.140 protocol, but,

NOTE Confidence: 0.9946289

00:39:50.580 --> 00:39:52.200 we are open to,

NOTE Confidence: 0.93025714

00:39:52.980 --> 00:39:54.520 have this, patient,

NOTE Confidence: 0.9252581

00:39:56.424 --> 00:39:57.944 coming to this protocol. We

NOTE Confidence: 0.9252581

00:39:57.944 --> 00:39:58.605 we just,

NOTE Confidence: 0.7426758

00:39:59.065 --> 00:39:59.964 kind of finalized

NOTE Confidence: 0.9038086

00:40:00.505 --> 00:40:01.565 few months ago.

NOTE Confidence: 0.9753418

00:40:04.025 --> 00:40:04.525 And,

NOTE Confidence: 0.9896918

00:40:05.785 --> 00:40:07.625 it's important to have a

NOTE Confidence: 0.9896918

00:40:07.625 --> 00:40:08.125 postoperative,

NOTE Confidence: 0.661499

00:40:09.704 --> 00:40:10.924 tree surveillance.

NOTE Confidence: 0.982666

00:40:11.589 --> 00:40:12.089 So,

NOTE Confidence: 0.8898926

00:40:13.589 --> 00:40:14.089 MRI,

NOTE Confidence: 0.90112305

00:40:14.790 --> 00:40:16.790 over abdomen and also the

NOTE Confidence: 0.90112305

00:40:16.790 --> 00:40:18.730 CT scan of chest. That's

NOTE Confidence: 0.90112305

00:40:18.869 --> 00:40:20.309 every three months, every six

NOTE Confidence: 0.90112305

00:40:20.309 --> 00:40:20.809 months,

NOTE Confidence: 0.9326172

00:40:21.510 --> 00:40:21.989 and then,

NOTE Confidence: 0.8383179

00:40:23.685 --> 00:40:24.885 so creating tumor DNA,

NOTE Confidence: 0.9940796

00:40:26.245 --> 00:40:27.445 and then we will,

NOTE Confidence: 0.90427655

00:40:27.844 --> 00:40:29.285 do a surveillance like a

NOTE Confidence: 0.90427655

00:40:29.285 --> 00:40:31.625 hepatocellular carcinoma post reverse transplantation.

NOTE Confidence: 0.8314073

00:40:37.489 --> 00:40:38.690 I think because we missed

NOTE Confidence: 0.8314073

00:40:38.690 --> 00:40:40.070 one one side maybe.

NOTE Confidence: 0.8656616

00:40:42.130 --> 00:40:42.770 Oh, here.

NOTE Confidence: 0.853418

00:40:43.650 --> 00:40:45.430 After the transplant, email suppression,

NOTE Confidence: 0.7809601

00:40:47.250 --> 00:40:48.930 user reusing attack or emails

NOTE Confidence: 0.7809601

00:40:48.930 --> 00:40:49.750 in the beginning,

NOTE Confidence: 0.90709734

00:40:50.975 --> 00:40:52.415 but at least from a

NOTE Confidence: 0.90709734

00:40:52.415 --> 00:40:54.575 certain point or earlier or

NOTE Confidence: 0.90709734

00:40:54.575 --> 00:40:56.175 some selected case even from

NOTE Confidence: 0.90709734

00:40:56.175 --> 00:40:56.835 the beginning,

NOTE Confidence: 0.84903973

00:40:57.295 --> 00:40:58.114 we were using,

NOTE Confidence: 0.97229004

00:40:58.495 --> 00:40:58.995 rapamycin.

NOTE Confidence: 0.94661456

00:41:00.015 --> 00:41:00.515 That's,

NOTE Confidence: 0.9783203

00:41:01.614 --> 00:41:03.549 that'd be a potential benefit,

NOTE Confidence: 0.92195636

00:41:04.030 --> 00:41:05.730 for antitumor effect,

NOTE Confidence: 0.9796956

00:41:06.829 --> 00:41:07.809 and then corticosteroid

NOTE Confidence: 0.9996745

00:41:08.349 --> 00:41:09.489 for three months.

NOTE Confidence: 0.9990932

00:41:13.150 --> 00:41:14.510 And back to in terms

NOTE Confidence: 0.9990932

00:41:14.510 --> 00:41:15.170 of surgery,

NOTE Confidence: 0.82336426

00:41:15.469 --> 00:41:16.190 there's some,

NOTE Confidence: 0.8515625

00:41:17.135 --> 00:41:17.635 things,

NOTE Confidence: 0.89664716

00:41:18.255 --> 00:41:19.315 it's important. We

NOTE Confidence: 0.85805935

00:41:20.815 --> 00:41:22.255 actually, generally speaking, it's a,

NOTE Confidence: 0.85805935

00:41:22.255 --> 00:41:24.094 you know, liver transplant program

NOTE Confidence: 0.85805935

00:41:24.094 --> 00:41:25.555 we're using in machine perfusion.

NOTE Confidence: 0.9069073

00:41:26.575 --> 00:41:27.934 So once the liver is

NOTE Confidence: 0.9069073

00:41:27.934 --> 00:41:29.775 out, from deceased donor, we

NOTE Confidence: 0.9069073

00:41:29.775 --> 00:41:30.915 put into the

NOTE Confidence: 0.8893636

00:41:31.219 --> 00:41:32.920 normal thermic machine perfusion.

NOTE Confidence: 0.9637357

00:41:33.380 --> 00:41:35.539 You know, normal, oxygenated blood

NOTE Confidence: 0.9637357

00:41:35.539 --> 00:41:37.140 is coming in. So you

NOTE Confidence: 0.9637357

00:41:37.140 --> 00:41:38.119 don't have to,

NOTE Confidence: 0.93742293

00:41:39.140 --> 00:41:41.219 rushing into the transplant within

NOTE Confidence: 0.93742293

00:41:41.219 --> 00:41:42.920 eight hours or twelve hours.

NOTE Confidence: 0.93742293

00:41:43.059 --> 00:41:44.864 We can wait. So what

NOTE Confidence: 0.93742293

00:41:44.864 --> 00:41:46.085 does that means is

NOTE Confidence: 0.8244955

00:41:46.465 --> 00:41:47.685 this case, hepatectomy,

NOTE Confidence: 0.8015137

00:41:48.625 --> 00:41:49.125 maybe,

NOTE Confidence: 0.9659424

00:41:49.585 --> 00:41:50.785 a little bit tricky because

NOTE Confidence: 0.9659424

00:41:50.785 --> 00:41:52.165 of radiation, chemotherapy.

NOTE Confidence: 0.9541728

00:41:54.864 --> 00:41:56.545 So but we we can

NOTE Confidence: 0.9541728

00:41:56.545 --> 00:41:57.870 take a time to do

NOTE Confidence: 0.9541728

00:41:57.870 --> 00:41:58.489 a hepatectomy

NOTE Confidence: 0.9399414

00:41:58.870 --> 00:42:00.790 about removing the liver and

NOTE Confidence: 0.9399414

00:42:00.790 --> 00:42:02.090 put the livers in.

NOTE Confidence: 0.74975586

00:42:03.270 --> 00:42:04.090 And particularly

NOTE Confidence: 0.875746

00:42:04.790 --> 00:42:05.910 radiation, we have to be

NOTE Confidence: 0.875746

00:42:05.910 --> 00:42:07.590 careful about, tilia and the

NOTE Confidence: 0.875746

00:42:07.590 --> 00:42:08.810 biliary reconstructions.

NOTE Confidence: 0.87124026

00:42:09.605 --> 00:42:11.224 And living donor is certainly,

NOTE Confidence: 0.976237

00:42:12.164 --> 00:42:13.145 could be a,

NOTE Confidence: 0.9935303

00:42:13.605 --> 00:42:14.424 very important,

NOTE Confidence: 0.9447266

00:42:15.045 --> 00:42:16.825 role, particularly for the patient,

NOTE Confidence: 0.9855686

00:42:17.444 --> 00:42:18.664 above three centimeter,

NOTE Confidence: 0.94744194

00:42:19.045 --> 00:42:21.145 chorangio or multiple chorangiocarcinoma.

NOTE Confidence: 0.9677192

00:42:21.844 --> 00:42:22.984 As far as they have

NOTE Confidence: 0.9677192

00:42:23.250 --> 00:42:24.790 good response to chemotherapy,

NOTE Confidence: 0.98779297

00:42:26.610 --> 00:42:27.350 these are,

NOTE Confidence: 0.9459961

00:42:27.969 --> 00:42:30.070 good candidates for liver transplantation.

NOTE Confidence: 0.9963379

00:42:34.130 --> 00:42:36.070 So my key, key takeaway

NOTE Confidence: 0.90625

00:42:36.370 --> 00:42:36.870 is,

NOTE Confidence: 0.9049072

00:42:37.875 --> 00:42:39.715 always r zero resection is,

NOTE Confidence: 0.9049072

00:42:39.955 --> 00:42:42.135 most important from surgical standpoint.

NOTE Confidence: 0.9970703

00:42:43.555 --> 00:42:44.055 Anatomy

NOTE Confidence: 0.9206543

00:42:44.355 --> 00:42:45.895 where the location is,

NOTE Confidence: 0.9923706

00:42:46.355 --> 00:42:48.614 that dictates surgical treatment.

NOTE Confidence: 0.99072266

00:42:49.875 --> 00:42:50.775 Liver transplant

NOTE Confidence: 0.9460449

00:42:51.150 --> 00:42:51.549 patient,

NOTE Confidence: 0.8856201

00:42:51.950 --> 00:42:53.489 outcome seems like transformative

NOTE Confidence: 0.9082031

00:42:54.109 --> 00:42:54.930 for selected,

NOTE Confidence: 0.756709

00:42:56.190 --> 00:42:58.289 CT scan tumor or intrahepatic,

NOTE Confidence: 0.876988

00:42:59.469 --> 00:42:59.969 craniocarcinoma.

NOTE Confidence: 0.9827474

00:43:02.109 --> 00:43:02.609 Multidisciplinary

NOTE Confidence: 0.9458008

00:43:03.309 --> 00:43:04.770 management is essential,

NOTE Confidence: 0.9472656

00:43:05.390 --> 00:43:05.890 and,

NOTE Confidence: 0.94555664

00:43:06.875 --> 00:43:07.375 obviously,

NOTE Confidence: 0.90220135

00:43:08.234 --> 00:43:10.895 hepatologist and medical oncologist, radiation

NOTE Confidence: 0.90220135

00:43:11.114 --> 00:43:11.614 oncologist,

NOTE Confidence: 0.84399414

00:43:12.474 --> 00:43:13.694 intervention radiologist.

NOTE Confidence: 0.9855957

00:43:13.994 --> 00:43:14.395 And,

NOTE Confidence: 0.6873779

00:43:14.875 --> 00:43:15.375 so,

NOTE Confidence: 0.86816406

00:43:15.835 --> 00:43:17.114 you know, it's a cancer

NOTE Confidence: 0.86816406

00:43:17.114 --> 00:43:18.974 treatment is generally speaking,

NOTE Confidence: 0.9720628

00:43:20.030 --> 00:43:21.650 we do this, but particularly

NOTE Confidence: 0.9720628

00:43:21.869 --> 00:43:23.089 so for chorangiocarcinoma,

NOTE Confidence: 0.6085205

00:43:24.510 --> 00:43:25.550 in very,

NOTE Confidence: 0.99401855

00:43:26.030 --> 00:43:27.089 surgical treatment.

NOTE Confidence: 0.99121094

00:43:28.750 --> 00:43:29.469 And then,

NOTE Confidence: 0.8713379

00:43:29.790 --> 00:43:31.010 emerging therapies,

NOTE Confidence: 0.84609985

00:43:31.390 --> 00:43:32.989 changing the landscape including a

NOTE Confidence: 0.84609985

00:43:32.989 --> 00:43:34.290 transplant, but immunotherapies,

NOTE Confidence: 0.86794025

00:43:35.825 --> 00:43:37.025 I I think that's be

NOTE Confidence: 0.86794025

00:43:37.025 --> 00:43:37.525 a

NOTE Confidence: 0.9326172

00:43:37.905 --> 00:43:38.405 good,

NOTE Confidence: 0.9029948

00:43:39.025 --> 00:43:40.945 transition to next speaker, I

NOTE Confidence: 0.9029948

00:43:40.945 --> 00:43:41.445 believe.

NOTE Confidence: 0.9814453

00:43:42.945 --> 00:43:44.645 Doctor Sogoa, that was amazing.

NOTE Confidence: 0.9814453

00:43:44.705 --> 00:43:45.745 Thank you so much. It

NOTE Confidence: 0.9814453

00:43:45.745 --> 00:43:47.045 really shows that

NOTE Confidence: 0.98483783

00:43:47.345 --> 00:43:48.625 so much has changed and

NOTE Confidence: 0.98483783

00:43:48.625 --> 00:43:50.225 evolved in the space of

NOTE Confidence: 0.98483783

00:43:50.225 --> 00:43:51.125 managing cholangiocarcinoma

NOTE Confidence: 0.99438477

00:43:52.109 --> 00:43:53.309 and allowing for more hope

NOTE Confidence: 0.99438477

00:43:53.309 --> 00:43:54.589 and better options for our

NOTE Confidence: 0.99438477

00:43:54.589 --> 00:43:56.190 patients. So thank you so

NOTE Confidence: 0.99438477

00:43:56.190 --> 00:43:57.410 much. I will

NOTE Confidence: 1

00:43:57.710 --> 00:43:59.329 now begin to discuss

NOTE Confidence: 0.9391276

00:43:59.950 --> 00:44:01.809 systemic therapy in the perioperative

NOTE Confidence: 0.9751994

00:44:02.269 --> 00:44:03.710 setting. If you wanna just

NOTE Confidence: 0.9751994

00:44:03.710 --> 00:44:05.069 stop sharing screen, and I

NOTE Confidence: 0.9751994

00:44:05.069 --> 00:44:06.049 will hopefully

NOTE Confidence: 0.99991864

00:44:06.585 --> 00:44:07.305 be able to do the

NOTE Confidence: 0.99991864

00:44:07.305 --> 00:44:07.805 same.

NOTE Confidence: 0.9970703

00:44:08.984 --> 00:44:09.484 Yep.

NOTE Confidence: 0.99975586

00:44:10.344 --> 00:44:11.964 Thank you. Thank you.

NOTE Confidence: 0.8974067

00:44:21.339 --> 00:44:22.380 I think as you said,

NOTE Confidence: 0.8974067

00:44:22.380 --> 00:44:23.359 that was a great

NOTE Confidence: 0.9713826

00:44:23.900 --> 00:44:26.640 transition to discussing systemic therapy.

NOTE Confidence: 0.9713826

00:44:26.780 --> 00:44:27.980 When we think about all

NOTE Confidence: 0.9713826

00:44:27.980 --> 00:44:29.980 that doctor Sogawa, doctor Straza

NOTE Confidence: 0.9713826

00:44:29.980 --> 00:44:31.420 Bosco has shared this evening

NOTE Confidence: 0.9713826

00:44:31.420 --> 00:44:33.020 so far, I think that

NOTE Confidence: 0.9713826

00:44:33.020 --> 00:44:34.219 it's now a good time

NOTE Confidence: 0.9713826

00:44:34.219 --> 00:44:35.420 to discuss, well, what do

NOTE Confidence: 0.9713826

00:44:35.420 --> 00:44:37.094 we do in the perioperative

NOTE Confidence: 0.9840698

00:44:37.395 --> 00:44:38.755 setting? So I will spend

NOTE Confidence: 0.9840698

00:44:38.755 --> 00:44:39.895 some time discussing

NOTE Confidence: 0.99720985

00:44:40.435 --> 00:44:42.035 options for patients in the

NOTE Confidence: 0.99720985

00:44:42.035 --> 00:44:43.335 neoadjuvant setting.

NOTE Confidence: 0.9627475

00:44:43.955 --> 00:44:45.315 I will review a couple

NOTE Confidence: 0.9627475

00:44:45.315 --> 00:44:46.835 of studies, but also keep

NOTE Confidence: 0.9627475

00:44:46.835 --> 00:44:48.435 our time, in mind as

NOTE Confidence: 0.9627475

00:44:48.435 --> 00:44:50.160 well. But I'll also discuss

NOTE Confidence: 0.9627475

00:44:50.219 --> 00:44:52.080 adjuvant therapy as doctor Sogawa

NOTE Confidence: 0.9627475

00:44:52.140 --> 00:44:53.760 very briefly alluded to.

NOTE Confidence: 0.96632165

00:44:54.140 --> 00:44:56.380 I will discuss hepatic arterial

NOTE Confidence: 0.96632165

00:44:56.380 --> 00:44:58.060 infusion therapy, but save a

NOTE Confidence: 0.96632165

00:44:58.060 --> 00:44:58.940 little bit of time for

NOTE Confidence: 0.96632165

00:44:58.940 --> 00:45:00.300 my colleague, doctor Zeng, to

NOTE Confidence: 0.96632165

00:45:00.300 --> 00:45:01.760 discuss that as well briefly.

NOTE Confidence: 0.99986047

00:45:02.125 --> 00:45:03.485 And then we will end

NOTE Confidence: 0.99986047

00:45:03.485 --> 00:45:04.385 with discussing

NOTE Confidence: 0.99858946

00:45:04.685 --> 00:45:06.225 metastatic and unresectable

NOTE Confidence: 1

00:45:06.685 --> 00:45:07.185 management.

NOTE Confidence: 0.9945571

00:45:09.405 --> 00:45:11.885 For biliary tract cancers, there's

NOTE Confidence: 0.9945571

00:45:11.885 --> 00:45:13.165 evidence that the use of

NOTE Confidence: 0.9945571

00:45:13.165 --> 00:45:15.425 chemotherapy is appropriate in nearly

NOTE Confidence: 0.9945571

00:45:15.485 --> 00:45:16.305 all settings,

NOTE Confidence: 0.96655273

00:45:16.809 --> 00:45:17.309 especially,

NOTE Confidence: 0.9513463

00:45:17.849 --> 00:45:19.289 in the adjuvant setting, but

NOTE Confidence: 0.9513463

00:45:19.289 --> 00:45:20.030 most importantly,

NOTE Confidence: 0.94577366

00:45:20.569 --> 00:45:22.089 as doctor Zhang will discuss,

NOTE Confidence: 0.94577366

00:45:22.089 --> 00:45:23.630 in the metastatic setting.

NOTE Confidence: 0.9940314

00:45:24.410 --> 00:45:25.690 But there has been recent

NOTE Confidence: 0.9940314

00:45:25.690 --> 00:45:28.089 data that further supports what

NOTE Confidence: 0.9940314

00:45:28.089 --> 00:45:29.369 are options that we can

NOTE Confidence: 0.9940314

00:45:29.369 --> 00:45:31.230 consider in the neoadjuvant

NOTE Confidence: 0.9980469

00:45:31.770 --> 00:45:32.175 setting.

NOTE Confidence: 0.98520505

00:45:32.735 --> 00:45:33.855 I'm going to spend some

NOTE Confidence: 0.98520505

00:45:33.855 --> 00:45:35.455 time first discussing what our

NOTE Confidence: 0.98520505

00:45:35.455 --> 00:45:37.295 options are currently that are

NOTE Confidence: 0.98520505

00:45:37.295 --> 00:45:39.315 evolving in the neoadjuvant setting.

NOTE Confidence: 0.9016113

00:45:39.855 --> 00:45:40.995 And that particularly,

NOTE Confidence: 0.94699246

00:45:41.535 --> 00:45:43.055 as I have listed here,

NOTE Confidence: 0.94699246

00:45:43.055 --> 00:45:44.975 is the ZsaB NEOGOLD study,

NOTE Confidence: 0.94699246

00:45:44.975 --> 00:45:46.114 which was just published,

NOTE Confidence: 0.91355544

00:45:46.460 --> 00:45:47.580 I think, maybe less than

NOTE Confidence: 0.91355544

00:45:47.580 --> 00:45:48.940 a couple months ago but

NOTE Confidence: 0.91355544

00:45:48.940 --> 00:45:50.079 earlier this year.

NOTE Confidence: 0.93698955

00:45:50.619 --> 00:45:51.900 And there is an open

NOTE Confidence: 0.93698955

00:45:51.900 --> 00:45:53.259 clinical trial, which I will

NOTE Confidence: 0.93698955

00:45:53.259 --> 00:45:53.759 discuss,

NOTE Confidence: 0.8557129

00:45:54.539 --> 00:45:56.160 also the BILCAP study,

NOTE Confidence: 0.9817592

00:45:56.779 --> 00:45:57.900 and then, as I said,

NOTE Confidence: 0.9817592

00:45:57.900 --> 00:45:58.960 HAI therapy.

NOTE Confidence: 0.98502606

00:46:04.135 --> 00:46:05.675 I now will briefly discuss

NOTE Confidence: 0.98502606

00:46:05.735 --> 00:46:07.515 the neoadjuvant gulp study.

NOTE Confidence: 0.9903041

00:46:08.855 --> 00:46:10.695 The neoadjuvant gulp study was

NOTE Confidence: 0.9903041

00:46:10.695 --> 00:46:12.695 recently published, and what that

NOTE Confidence: 0.9903041

00:46:12.695 --> 00:46:14.075 study looked at ultimately

NOTE Confidence: 0.99455565

00:46:14.375 --> 00:46:15.830 was the role of neoadjuvant

NOTE Confidence: 0.9980469

00:46:16.290 --> 00:46:16.790 chemotherapy

NOTE Confidence: 0.8713379

00:46:17.570 --> 00:46:18.390 plus immunotherapy

NOTE Confidence: 0.9751465

00:46:18.770 --> 00:46:21.010 plus targeted therapy for patients,

NOTE Confidence: 0.9921875

00:46:21.330 --> 00:46:22.310 using specifically

NOTE Confidence: 0.58251953

00:46:22.770 --> 00:46:23.270 GemOx

NOTE Confidence: 0.88964844

00:46:23.970 --> 00:46:24.790 plus lenvatinib

NOTE Confidence: 0.9430746

00:46:25.650 --> 00:46:26.470 and torapalumab.

NOTE Confidence: 0.9984976

00:46:27.455 --> 00:46:28.735 This is not a commonly

NOTE Confidence: 0.9984976

00:46:28.735 --> 00:46:30.015 used regimen when we think

NOTE Confidence: 0.9984976

00:46:30.015 --> 00:46:30.915 about the combination

NOTE Confidence: 0.94889325

00:46:31.375 --> 00:46:32.895 of this particular regimen, but,

NOTE Confidence: 0.94889325

00:46:32.895 --> 00:46:33.395 certainly,

NOTE Confidence: 0.9690959

00:46:33.775 --> 00:46:35.695 GemOx is a very known

NOTE Confidence: 0.9690959

00:46:35.775 --> 00:46:37.135 well known regimen in the

NOTE Confidence: 0.9690959

00:46:37.135 --> 00:46:38.035 setting of

NOTE Confidence: 0.9995117

00:46:38.655 --> 00:46:39.155 metastatic

NOTE Confidence: 0.98657227

00:46:39.880 --> 00:46:41.239 therapy in the biliary tract

NOTE Confidence: 0.98657227

00:46:41.239 --> 00:46:43.000 setting. And then we also,

NOTE Confidence: 0.98657227

00:46:43.000 --> 00:46:44.359 as we know, have evidence

NOTE Confidence: 0.98657227

00:46:44.359 --> 00:46:45.099 for immunotherapy

NOTE Confidence: 0.98462987

00:46:45.400 --> 00:46:46.700 in this setting as well.

NOTE Confidence: 0.98462987

00:46:46.920 --> 00:46:48.040 And furthermore, just to give

NOTE Confidence: 0.98462987

00:46:48.040 --> 00:46:48.920 you a little bit of

NOTE Confidence: 0.98462987

00:46:48.920 --> 00:46:50.359 history, it builds upon prior

NOTE Confidence: 0.98462987

00:46:50.359 --> 00:46:51.640 work that this team had

NOTE Confidence: 0.98462987

00:46:51.640 --> 00:46:53.340 established looking at this regimen

NOTE Confidence: 0.98462987

00:46:53.480 --> 00:46:54.885 for patients, but more so

NOTE Confidence: 0.98462987

00:46:54.885 --> 00:46:55.945 in the unresectable

NOTE Confidence: 0.88582355

00:46:56.325 --> 00:46:58.565 setting trying to convert these

NOTE Confidence: 0.88582355

00:46:58.565 --> 00:46:59.065 patients.

NOTE Confidence: 0.9898953

00:47:00.005 --> 00:47:02.085 This particular study, however, it

NOTE Confidence: 0.9898953

00:47:02.085 --> 00:47:03.605 enrolled one hundred and seventy

NOTE Confidence: 0.9898953

00:47:03.605 --> 00:47:04.645 eight patients as I have

NOTE Confidence: 0.9898953

00:47:04.645 --> 00:47:06.185 listed here, specifically

NOTE Confidence: 0.9880744

00:47:06.485 --> 00:47:07.925 looking at patients with high

NOTE Confidence: 0.9880744

00:47:07.925 --> 00:47:09.619 risk intrahepatic cholangiocarcinoma.

NOTE Confidence: 0.940258

00:47:10.960 --> 00:47:12.799 And patients or, actually, those

NOTE Confidence: 0.940258

00:47:12.799 --> 00:47:14.000 in the audience may consider,

NOTE Confidence: 0.940258

00:47:14.000 --> 00:47:15.119 well, what is high risk?

NOTE Confidence: 0.940258

00:47:15.119 --> 00:47:16.559 And that has been in

NOTE Confidence: 0.940258

00:47:16.559 --> 00:47:18.400 this study and oftentimes other

NOTE Confidence: 0.940258

00:47:18.400 --> 00:47:19.760 studies defined as a large

NOTE Confidence: 0.940258

00:47:19.760 --> 00:47:20.660 tumor size,

NOTE Confidence: 0.99560547

00:47:21.965 --> 00:47:23.185 multifocal disease,

NOTE Confidence: 0.99975586

00:47:23.485 --> 00:47:24.705 vascular invasion,

NOTE Confidence: 0.97276473

00:47:25.325 --> 00:47:26.705 hepatic portal lymphadenopathy

NOTE Confidence: 0.9312744

00:47:27.085 --> 00:47:28.125 or lymph nodes, I should

NOTE Confidence: 0.9312744

00:47:28.125 --> 00:47:28.625 say,

NOTE Confidence: 0.9025391

00:47:29.005 --> 00:47:31.265 or increased CA nineteen nine,

NOTE Confidence: 0.9883355

00:47:32.525 --> 00:47:34.285 which I previously reviewed when

NOTE Confidence: 0.9883355

00:47:34.285 --> 00:47:35.985 I first started discussing prognostic

NOTE Confidence: 0.9883355

00:47:36.205 --> 00:47:37.380 factors. So you can certainly

NOTE Confidence: 0.9883355

00:47:37.380 --> 00:47:38.599 see the overlap.

NOTE Confidence: 0.9918213

00:47:39.380 --> 00:47:41.380 Patients were randomized to receive

NOTE Confidence: 0.9918213

00:47:41.380 --> 00:47:41.880 neoadjuvant

NOTE Confidence: 0.93494236

00:47:42.259 --> 00:47:43.539 gulp, which I just reviewed

NOTE Confidence: 0.93494236

00:47:43.539 --> 00:47:44.279 that regimen,

NOTE Confidence: 0.93847656

00:47:44.660 --> 00:47:46.739 versus upfront surgery. And all

NOTE Confidence: 0.93847656

00:47:46.739 --> 00:47:48.039 of the patients enrolled

NOTE Confidence: 0.9996745

00:47:48.420 --> 00:47:49.700 were then treated with eight

NOTE Confidence: 0.9996745

00:47:49.700 --> 00:47:51.400 cycles of adjuvant capecitabine.

NOTE Confidence: 0.9685547

00:47:52.415 --> 00:47:54.015 The primary endpoint for this

NOTE Confidence: 0.9685547

00:47:54.015 --> 00:47:55.955 study was event free survival.

NOTE Confidence: 0.9949463

00:47:56.655 --> 00:47:57.855 And I think what's really

NOTE Confidence: 0.9949463

00:47:57.855 --> 00:47:59.214 important is that it's the

NOTE Confidence: 0.9949463

00:47:59.214 --> 00:48:00.974 first randomized study to show

NOTE Confidence: 0.9949463

00:48:00.974 --> 00:48:02.835 evidence for new adjuvant therapy

NOTE Confidence: 1

00:48:03.135 --> 00:48:05.234 in this particular clinical space.

NOTE Confidence: 0.96985286

00:48:09.270 --> 00:48:10.630 The results are shown here,

NOTE Confidence: 0.96985286

00:48:10.870 --> 00:48:12.150 sharing the Kaplan Meier as

NOTE Confidence: 0.96985286

00:48:12.150 --> 00:48:12.790 you can see in the

NOTE Confidence: 0.96985286

00:48:12.790 --> 00:48:13.989 bottom right, but a hundred

NOTE Confidence: 0.96985286

00:48:13.989 --> 00:48:15.110 and seventy eight patients were

NOTE Confidence: 0.96985286

00:48:15.110 --> 00:48:16.330 randomized as I mentioned,

NOTE Confidence: 0.99541557

00:48:16.710 --> 00:48:18.310 and eighty eight patients were

NOTE Confidence: 0.99541557

00:48:18.310 --> 00:48:19.530 randomized to the neoadjuvant

NOTE Confidence: 0.9925842

00:48:19.910 --> 00:48:21.525 group. Important to know when

NOTE Confidence: 0.9925842

00:48:21.525 --> 00:48:22.964 reviewing the table one that

NOTE Confidence: 0.9925842

00:48:22.964 --> 00:48:24.565 there was an overall even

NOTE Confidence: 0.9925842

00:48:24.565 --> 00:48:25.065 distribution

NOTE Confidence: 0.9996745

00:48:25.605 --> 00:48:26.505 of the characteristics

NOTE Confidence: 0.97585225

00:48:26.805 --> 00:48:28.165 in each of the arms

NOTE Confidence: 0.97585225

00:48:28.165 --> 00:48:29.464 as far as the characteristics

NOTE Confidence: 0.97585225

00:48:29.685 --> 00:48:30.185 specifically

NOTE Confidence: 0.98010254

00:48:30.724 --> 00:48:31.864 considering stage,

NOTE Confidence: 0.9301758

00:48:32.325 --> 00:48:34.739 CA ninety nine, performance status,

NOTE Confidence: 0.9921875

00:48:35.219 --> 00:48:36.600 and tumor characteristics.

NOTE Confidence: 0.9954625

00:48:38.020 --> 00:48:39.219 One may ask, well, how

NOTE Confidence: 0.9954625

00:48:39.219 --> 00:48:40.580 many of the patients actually

NOTE Confidence: 0.9954625

00:48:40.580 --> 00:48:42.660 completed the neoadjuvant therapy? And

NOTE Confidence: 0.9954625

00:48:42.660 --> 00:48:43.780 it's important to note that

NOTE Confidence: 0.9954625

00:48:43.780 --> 00:48:44.820 ninety four percent of the

NOTE Confidence: 0.9954625

00:48:44.820 --> 00:48:47.219 neoadjuvant group actually did complete

NOTE Confidence: 0.9954625

00:48:47.219 --> 00:48:48.600 all of the planned cycles.

NOTE Confidence: 0.9499381

00:48:49.805 --> 00:48:52.045 The median event for event

NOTE Confidence: 0.9499381

00:48:52.045 --> 00:48:53.645 free survival or EFS was

NOTE Confidence: 0.9499381

00:48:53.645 --> 00:48:55.025 eighteen months in the neoadjuvant

NOTE Confidence: 0.9499381

00:48:55.245 --> 00:48:56.445 group compared to eight point

NOTE Confidence: 0.9499381

00:48:56.445 --> 00:48:58.045 seven in the patients that

NOTE Confidence: 0.9499381

00:48:58.045 --> 00:48:59.345 had upfront surgery,

NOTE Confidence: 0.9545186

00:48:59.805 --> 00:49:01.245 and the overall survival was

NOTE Confidence: 0.9545186

00:49:01.245 --> 00:49:02.365 seventy nine percent in the

NOTE Confidence: 0.9545186

00:49:02.365 --> 00:49:04.170 neoadjuvant group compared to sixty

NOTE Confidence: 0.9545186

00:49:04.250 --> 00:49:05.690 one percent of those that

NOTE Confidence: 0.9545186

00:49:05.690 --> 00:49:07.069 went to upfront resection.

NOTE Confidence: 0.9997395

00:49:08.170 --> 00:49:09.309 So what are the takeaways?

NOTE Confidence: 1

00:49:09.930 --> 00:49:10.430 Ultimately,

NOTE Confidence: 0.99820554

00:49:11.210 --> 00:49:12.170 I think that we are

NOTE Confidence: 0.99820554

00:49:12.170 --> 00:49:13.530 now starting to see data

NOTE Confidence: 0.99820554

00:49:13.530 --> 00:49:14.809 that there certainly can be

NOTE Confidence: 0.99820554

00:49:14.809 --> 00:49:16.910 a role for considering neoadjuvant

NOTE Confidence: 0.97090656

00:49:17.210 --> 00:49:18.730 therapy for patients with high

NOTE Confidence: 0.97090656

00:49:18.730 --> 00:49:20.165 risk intrahepatic cholangiocarcinoma,

NOTE Confidence: 0.98201495

00:49:21.825 --> 00:49:23.985 and, ultimately, further studies are

NOTE Confidence: 0.98201495

00:49:23.985 --> 00:49:24.485 needed.

NOTE Confidence: 0.9998779

00:49:26.305 --> 00:49:27.605 With that being said,

NOTE Confidence: 0.99240804

00:49:27.905 --> 00:49:29.105 for those that are here

NOTE Confidence: 0.99240804

00:49:29.105 --> 00:49:30.385 practicing in our area, we

NOTE Confidence: 0.99240804

00:49:30.385 --> 00:49:31.825 certainly have an open clinical

NOTE Confidence: 0.99240804

00:49:31.825 --> 00:49:33.105 trial that I would encourage

NOTE Confidence: 0.99240804

00:49:33.105 --> 00:49:34.320 you that if you have

NOTE Confidence: 0.99240804

00:49:34.320 --> 00:49:35.840 any patients that meet these

NOTE Confidence: 0.99240804

00:49:35.840 --> 00:49:36.340 criteria,

NOTE Confidence: 0.9503466

00:49:36.800 --> 00:49:38.080 that we do have a

NOTE Confidence: 0.9503466

00:49:38.080 --> 00:49:39.600 open study, which is under

NOTE Confidence: 0.9503466

00:49:39.600 --> 00:49:41.040 the PI of doctor Raghav

NOTE Confidence: 0.9503466

00:49:41.040 --> 00:49:42.239 Sundar, one of our medical

NOTE Confidence: 0.9503466

00:49:42.239 --> 00:49:44.160 oncologists and experts here, which

NOTE Confidence: 0.9503466

00:49:44.160 --> 00:49:45.440 is a phase two trial

NOTE Confidence: 0.9503466

00:49:45.440 --> 00:49:47.040 that evaluates the role of

NOTE Confidence: 0.9503466

00:49:47.040 --> 00:49:47.780 JEM Systerva

NOTE Confidence: 0.9794922

00:49:48.364 --> 00:49:49.265 as neoadjuvant

NOTE Confidence: 0.94204104

00:49:49.565 --> 00:49:51.184 therapy for high risk intra,

NOTE Confidence: 0.87597656

00:49:52.285 --> 00:49:53.344 intra intrahepatic

NOTE Confidence: 0.9893663

00:49:53.645 --> 00:49:54.145 cholangiocarcinoma.

NOTE Confidence: 0.9840929

00:49:55.565 --> 00:49:57.344 And similar to the overlap

NOTE Confidence: 0.9840929

00:49:57.405 --> 00:49:58.364 of what I reviewed for

NOTE Confidence: 0.9840929

00:49:58.364 --> 00:50:00.224 the NEOGOLD study when considering

NOTE Confidence: 0.9949254

00:50:00.525 --> 00:50:01.910 the high risk features, In

NOTE Confidence: 0.9949254

00:50:01.910 --> 00:50:03.270 this study, high risk is

NOTE Confidence: 0.9949254

00:50:03.270 --> 00:50:04.810 considered as greater than

NOTE Confidence: 0.99811196

00:50:05.590 --> 00:50:07.110 five centimeters greater than or

NOTE Confidence: 0.99811196

00:50:07.110 --> 00:50:08.390 equal to five centimeters as

NOTE Confidence: 0.99811196

00:50:08.390 --> 00:50:09.610 far as the tumor size.

NOTE Confidence: 0.9963786

00:50:09.989 --> 00:50:11.290 Is there any multifocality

NOTE Confidence: 0.96940106

00:50:11.750 --> 00:50:12.489 of the disease,

NOTE Confidence: 0.99902344

00:50:13.030 --> 00:50:14.090 vascular invasion,

NOTE Confidence: 0.99008787

00:50:14.710 --> 00:50:16.730 suspected or confirmed lymph nodes,

NOTE Confidence: 0.98083496

00:50:17.085 --> 00:50:18.685 a CA nineteen nine greater

NOTE Confidence: 0.98083496

00:50:18.685 --> 00:50:19.505 than two hundred.

NOTE Confidence: 0.9359575

00:50:21.805 --> 00:50:22.685 And here I have the

NOTE Confidence: 0.9359575

00:50:22.685 --> 00:50:24.205 study schema really just showing

NOTE Confidence: 0.9359575

00:50:24.205 --> 00:50:25.565 that the role of the

NOTE Confidence: 0.9359575

00:50:25.565 --> 00:50:26.685 near or how it is

NOTE Confidence: 0.9359575

00:50:26.685 --> 00:50:27.825 actually operationalized

NOTE Confidence: 0.99820966

00:50:28.205 --> 00:50:30.125 with four cycles prior to

NOTE Confidence: 0.99820966

00:50:30.125 --> 00:50:31.585 and four cycles after.

NOTE Confidence: 0.99975586

00:50:36.570 --> 00:50:37.310 In addition,

NOTE Confidence: 0.99429685

00:50:38.090 --> 00:50:40.750 we've besides talking about neoadjuvant,

NOTE Confidence: 0.99375

00:50:41.369 --> 00:50:42.650 there is certainly the role

NOTE Confidence: 0.99375

00:50:42.650 --> 00:50:44.110 that has been further explored

NOTE Confidence: 0.9996338

00:50:44.489 --> 00:50:45.770 of what the role of

NOTE Confidence: 0.9996338

00:50:45.770 --> 00:50:47.230 adjuvant therapy is.

NOTE Confidence: 0.995752

00:50:47.724 --> 00:50:49.325 As mentioned by probably all

NOTE Confidence: 0.995752

00:50:49.325 --> 00:50:50.625 of us at this point,

NOTE Confidence: 0.9653386

00:50:50.925 --> 00:50:52.765 biliary tract cancer certainly are

NOTE Confidence: 0.9653386

00:50:52.765 --> 00:50:54.224 associated with a poor prognosis,

NOTE Confidence: 0.9653386

00:50:54.285 --> 00:50:55.425 and the rate of recurrence

NOTE Confidence: 0.9653386

00:50:55.484 --> 00:50:56.844 is rather high up to

NOTE Confidence: 0.9653386

00:50:56.844 --> 00:50:58.464 or greater than fifty percent.

NOTE Confidence: 0.9956744

00:50:59.005 --> 00:51:00.765 So adjuvant therapy certainly has

NOTE Confidence: 0.9956744

00:51:00.765 --> 00:51:02.285 been recommended, which is really

NOTE Confidence: 0.9956744

00:51:02.285 --> 00:51:04.030 guided by patient

NOTE Confidence: 0.99785155

00:51:04.410 --> 00:51:04.910 comorbidities,

NOTE Confidence: 0.99450684

00:51:05.290 --> 00:51:06.989 their preference, and then also

NOTE Confidence: 0.99450684

00:51:07.050 --> 00:51:08.349 recovery from surgery.

NOTE Confidence: 0.9701322

00:51:12.570 --> 00:51:14.089 There have been few adjuvant

NOTE Confidence: 0.9701322

00:51:14.089 --> 00:51:15.690 studies evaluating the role of

NOTE Confidence: 0.9701322

00:51:15.690 --> 00:51:17.655 adjuvant therapy for biliary tract

NOTE Confidence: 0.9701322

00:51:17.655 --> 00:51:19.175 cancer. Many of these studies,

NOTE Confidence: 0.9701322

00:51:19.175 --> 00:51:20.695 however, we should note have

NOTE Confidence: 0.9701322

00:51:20.695 --> 00:51:22.295 been small. They've also been

NOTE Confidence: 0.9701322

00:51:22.295 --> 00:51:22.795 nonrandomized,

NOTE Confidence: 0.99527997

00:51:23.415 --> 00:51:24.535 and many have also been

NOTE Confidence: 0.99527997

00:51:24.535 --> 00:51:25.035 retrospective.

NOTE Confidence: 0.99975586

00:51:25.975 --> 00:51:27.575 But our clinical decision for

NOTE Confidence: 0.99975586

00:51:27.575 --> 00:51:28.475 using capecitabine

NOTE Confidence: 0.9837477

00:51:28.775 --> 00:51:30.135 in the adjuvant setting is

NOTE Confidence: 0.9837477

00:51:30.135 --> 00:51:31.839 really largely guided by the

NOTE Confidence: 0.9837477

00:51:31.839 --> 00:51:32.819 BILCAP study.

NOTE Confidence: 0.9550293

00:51:34.800 --> 00:51:36.099 As you can see here,

NOTE Confidence: 0.9513672

00:51:36.560 --> 00:51:38.660 within the e NCCN guidelines,

NOTE Confidence: 0.9791666

00:51:40.319 --> 00:51:41.300 adjuvant capecitabine

NOTE Confidence: 0.98809135

00:51:41.680 --> 00:51:43.359 is recommended and is considered

NOTE Confidence: 0.98809135

00:51:43.359 --> 00:51:44.900 a category one recommendation,

NOTE Confidence: 0.9978841

00:51:45.359 --> 00:51:47.094 and this is an ultimate

NOTE Confidence: 0.9978841

00:51:47.094 --> 00:51:47.594 decision

NOTE Confidence: 0.9940103

00:51:47.975 --> 00:51:49.515 from the data from BILCap.

NOTE Confidence: 0.9940103

00:51:49.575 --> 00:51:50.695 And I will review that

NOTE Confidence: 0.9940103

00:51:50.695 --> 00:51:51.735 because many in the room

NOTE Confidence: 0.9940103

00:51:51.735 --> 00:51:53.415 may say, well, the results

NOTE Confidence: 0.9940103

00:51:53.415 --> 00:51:55.255 from BILCap were limited as

NOTE Confidence: 0.9940103

00:51:55.255 --> 00:51:56.455 far as what the actual

NOTE Confidence: 0.9940103

00:51:56.455 --> 00:51:58.135 intention to treat results were,

NOTE Confidence: 0.9940103

00:51:58.135 --> 00:51:59.435 and I will review that.

NOTE Confidence: 0.96242046

00:52:03.089 --> 00:52:04.849 Described here, the BILCAP study

NOTE Confidence: 0.96242046

00:52:04.849 --> 00:52:06.450 was a phase three randomized

NOTE Confidence: 0.96242046

00:52:06.450 --> 00:52:08.529 study ultimately evaluating the role

NOTE Confidence: 0.96242046

00:52:08.529 --> 00:52:09.829 of adjuvant capecitabine

NOTE Confidence: 0.96358234

00:52:10.450 --> 00:52:12.210 versus observation in patients that

NOTE Confidence: 0.96358234

00:52:12.210 --> 00:52:14.049 had undergone resection for biliary

NOTE Confidence: 0.96358234

00:52:14.049 --> 00:52:14.789 tract cancers.

NOTE Confidence: 0.9384837

00:52:15.815 --> 00:52:17.335 Foraging forty three patients were

NOTE Confidence: 0.9384837

00:52:17.335 --> 00:52:18.295 part of this study, and

NOTE Confidence: 0.9384837

00:52:18.295 --> 00:52:20.055 they ultimately were randomized to

NOTE Confidence: 0.9384837

00:52:20.055 --> 00:52:21.035 either adjuvant

NOTE Confidence: 0.9487508

00:52:21.414 --> 00:52:23.414 capecitabine with eight cycles versus

NOTE Confidence: 0.9487508

00:52:23.414 --> 00:52:23.914 observation,

NOTE Confidence: 0.9916295

00:52:24.375 --> 00:52:26.134 and the primary endpoint was

NOTE Confidence: 0.9916295

00:52:26.134 --> 00:52:27.114 overall survival.

NOTE Confidence: 0.8833146

00:52:30.390 --> 00:52:31.589 The takeaway is, which is

NOTE Confidence: 0.8833146

00:52:31.589 --> 00:52:32.969 what leads to the controversy

NOTE Confidence: 0.8833146

00:52:33.109 --> 00:52:34.469 as far as do we

NOTE Confidence: 0.8833146

00:52:34.469 --> 00:52:36.489 recommend adjuvant case, cytobine,

NOTE Confidence: 0.9383545

00:52:36.869 --> 00:52:37.930 or do we not?

NOTE Confidence: 0.95989686

00:52:38.630 --> 00:52:40.710 I've listed the amount of

NOTE Confidence: 0.95989686

00:52:40.710 --> 00:52:42.070 patients randomized as I just

NOTE Confidence: 0.95989686

00:52:42.070 --> 00:52:44.234 recently reviewed, And I also

NOTE Confidence: 0.95989686

00:52:44.295 --> 00:52:45.895 want to note similarly to

NOTE Confidence: 0.95989686

00:52:45.895 --> 00:52:47.255 the NeoGOLD study that the

NOTE Confidence: 0.95989686

00:52:47.255 --> 00:52:48.935 patients were overall matched in

NOTE Confidence: 0.95989686

00:52:48.935 --> 00:52:50.075 regards to ECOD

NOTE Confidence: 0.9758301

00:52:50.455 --> 00:52:51.275 tumor characteristics.

NOTE Confidence: 0.97748274

00:52:53.175 --> 00:52:54.375 A little bit over half

NOTE Confidence: 0.97748274

00:52:54.375 --> 00:52:55.974 of the patients completed all

NOTE Confidence: 0.97748274

00:52:55.974 --> 00:52:57.035 the planned cycles.

NOTE Confidence: 0.9750824

00:52:58.820 --> 00:53:00.980 The recurrence free survival did

NOTE Confidence: 0.9750824

00:53:00.980 --> 00:53:02.500 favor the treatment group, which

NOTE Confidence: 0.9750824

00:53:02.500 --> 00:53:03.540 I think is important to

NOTE Confidence: 0.9750824

00:53:03.540 --> 00:53:04.040 know.

NOTE Confidence: 0.96608806

00:53:04.820 --> 00:53:06.660 But the endpoint, again, which

NOTE Confidence: 0.96608806

00:53:06.660 --> 00:53:08.180 was overall survival, did not

NOTE Confidence: 0.96608806

00:53:08.180 --> 00:53:10.180 reach statistical significance in the

NOTE Confidence: 0.96608806

00:53:10.180 --> 00:53:12.045 patients for the inpatient to

NOTE Confidence: 0.96608806

00:53:12.045 --> 00:53:13.085 treat, which I have noted

NOTE Confidence: 0.96608806

00:53:13.085 --> 00:53:13.885 here as far as the

NOTE Confidence: 0.96608806

00:53:13.885 --> 00:53:14.385 data.

NOTE Confidence: 0.96346027

00:53:15.085 --> 00:53:16.525 But the endpoint for overall

NOTE Confidence: 0.96346027

00:53:16.525 --> 00:53:17.025 survival

NOTE Confidence: 0.83121747

00:53:17.484 --> 00:53:18.465 and the protocol

NOTE Confidence: 0.9511205

00:53:19.165 --> 00:53:21.085 actually did. So I think

NOTE Confidence: 0.9511205

00:53:21.085 --> 00:53:22.045 as far as when we

NOTE Confidence: 0.9511205

00:53:22.045 --> 00:53:23.244 were thinking about this for

NOTE Confidence: 0.9511205

00:53:23.244 --> 00:53:24.705 the per protocol analysis,

NOTE Confidence: 0.99902344

00:53:25.219 --> 00:53:26.839 this is what ultimately contributes

NOTE Confidence: 0.99902344

00:53:27.059 --> 00:53:27.559 to

NOTE Confidence: 0.92285156

00:53:27.859 --> 00:53:29.000 us still recommending

NOTE Confidence: 0.99328613

00:53:29.539 --> 00:53:30.599 adjuvant capecitabine

NOTE Confidence: 0.96680975

00:53:31.059 --> 00:53:32.819 and also understanding that, again,

NOTE Confidence: 0.96680975

00:53:32.819 --> 00:53:34.599 these patients have high recurrence

NOTE Confidence: 0.96680975

00:53:34.739 --> 00:53:36.339 risk, and we have limited

NOTE Confidence: 0.96680975

00:53:36.339 --> 00:53:38.440 data for alternative therapies.

NOTE Confidence: 1

00:53:41.895 --> 00:53:42.715 When discussing

NOTE Confidence: 0.97874576

00:53:43.015 --> 00:53:44.135 with our patients, I think

NOTE Confidence: 0.97874576

00:53:44.135 --> 00:53:45.015 it should be a shared

NOTE Confidence: 0.97874576

00:53:45.015 --> 00:53:46.935 decision making, really thinking about,

NOTE Confidence: 0.97874576

00:53:46.935 --> 00:53:47.895 do they have any other

NOTE Confidence: 0.97874576

00:53:47.895 --> 00:53:48.395 comorbidities,

NOTE Confidence: 0.9873047

00:53:49.175 --> 00:53:49.675 DPD,

NOTE Confidence: 0.99954927

00:53:50.295 --> 00:53:51.335 and all of the things

NOTE Confidence: 0.99954927

00:53:51.335 --> 00:53:53.255 that will ultimately guide our

NOTE Confidence: 0.99954927

00:53:53.255 --> 00:53:54.475 decision to recommend

NOTE Confidence: 0.9616862

00:53:54.775 --> 00:53:55.755 adjuvant capecitabine.

NOTE Confidence: 0.93367827

00:54:00.400 --> 00:54:02.819 I'll briefly review chemo radiation

NOTE Confidence: 0.93367827

00:54:02.880 --> 00:54:04.079 because some may say, well,

NOTE Confidence: 0.93367827

00:54:04.079 --> 00:54:06.079 what happens if after surgery,

NOTE Confidence: 0.93367827

00:54:06.079 --> 00:54:08.339 after doctor Sogawa discussed surgery

NOTE Confidence: 0.93367827

00:54:08.480 --> 00:54:09.859 that there's an r one

NOTE Confidence: 0.93367827

00:54:10.000 --> 00:54:10.500 resection,

NOTE Confidence: 0.9773809

00:54:11.015 --> 00:54:12.775 so positive resection margin. So

NOTE Confidence: 0.9773809

00:54:12.775 --> 00:54:13.975 there are some patients that

NOTE Confidence: 0.9773809

00:54:13.975 --> 00:54:15.415 we may have a shared

NOTE Confidence: 0.9773809

00:54:15.415 --> 00:54:16.875 decision making, multidisciplinary

NOTE Confidence: 0.98829204

00:54:17.415 --> 00:54:18.855 tumor board to discuss the

NOTE Confidence: 0.98829204

00:54:18.855 --> 00:54:20.715 role of adjuvant chemoradiation.

NOTE Confidence: 0.9883525

00:54:21.655 --> 00:54:22.614 For the sake of time,

NOTE Confidence: 0.9883525

00:54:22.614 --> 00:54:23.415 I won't go into the

NOTE Confidence: 0.9883525

00:54:23.415 --> 00:54:25.080 greatest detail, but I think

NOTE Confidence: 0.9883525

00:54:25.080 --> 00:54:26.440 things to consider for your

NOTE Confidence: 0.9883525

00:54:26.440 --> 00:54:28.220 patient population when considering,

NOTE Confidence: 1

00:54:28.760 --> 00:54:29.580 should I

NOTE Confidence: 0.99853516

00:54:29.880 --> 00:54:30.780 actually recommend

NOTE Confidence: 0.97021484

00:54:31.480 --> 00:54:31.980 chemoradiation

NOTE Confidence: 0.84318036

00:54:32.440 --> 00:54:33.980 is is there no positivity?

NOTE Confidence: 0.9272239

00:54:34.520 --> 00:54:36.460 Is there positive resection margin?

NOTE Confidence: 0.9272239

00:54:36.520 --> 00:54:38.440 And then ultimately, shared decision

NOTE Confidence: 0.9272239

00:54:38.440 --> 00:54:38.940 making.

NOTE Confidence: 0.9875488

00:54:42.455 --> 00:54:42.955 Additionally,

NOTE Confidence: 0.8916504

00:54:43.895 --> 00:54:45.515 earlier, I believe doctor Strazzabasco

NOTE Confidence: 0.98502606

00:54:46.055 --> 00:54:47.035 may have mentioned,

NOTE Confidence: 0.96899414

00:54:47.495 --> 00:54:49.035 hepatic arterial infusion.

NOTE Confidence: 0.94744873

00:54:49.735 --> 00:54:50.955 And I think, ultimately,

NOTE Confidence: 0.99960935

00:54:51.495 --> 00:54:53.595 for this particular patient population,

NOTE Confidence: 0.99849445

00:54:54.780 --> 00:54:56.000 high risk of recurrence,

NOTE Confidence: 0.9729492

00:54:56.940 --> 00:54:59.040 poor prognosis, it's really important

NOTE Confidence: 0.99370116

00:54:59.340 --> 00:55:00.780 to consider what are the

NOTE Confidence: 0.99370116

00:55:00.780 --> 00:55:02.140 other therapies that we can

NOTE Confidence: 0.99370116

00:55:02.140 --> 00:55:04.239 consider in this particular setting,

NOTE Confidence: 0.9837564

00:55:04.540 --> 00:55:06.480 especially in the perioperative management.

NOTE Confidence: 0.9824663

00:55:06.915 --> 00:55:08.114 And I'll make sure to

NOTE Confidence: 0.9824663

00:55:08.114 --> 00:55:08.915 save a little bit of

NOTE Confidence: 0.9824663

00:55:08.915 --> 00:55:10.035 time because I know doctor

NOTE Confidence: 0.9824663

00:55:10.035 --> 00:55:11.475 Zhang will also discuss this

NOTE Confidence: 0.9824663

00:55:11.475 --> 00:55:12.135 as well.

NOTE Confidence: 0.9938616

00:55:13.235 --> 00:55:14.594 But when we think about

NOTE Confidence: 0.9938616

00:55:14.594 --> 00:55:15.735 HAI specifically,

NOTE Confidence: 0.9852865

00:55:16.275 --> 00:55:18.114 we ultimately think about what

NOTE Confidence: 0.9852865

00:55:18.114 --> 00:55:19.235 the role of this is.

NOTE Confidence: 0.9852865

00:55:19.235 --> 00:55:20.455 So when we think about,

NOTE Confidence: 0.6014404

00:55:21.130 --> 00:55:21.630 floxiridine

NOTE Confidence: 0.83776855

00:55:21.930 --> 00:55:22.750 or FUDR,

NOTE Confidence: 0.969561

00:55:23.130 --> 00:55:25.070 which is a metabolic intermediate

NOTE Confidence: 0.969561

00:55:25.290 --> 00:55:26.810 of five f u, it's

NOTE Confidence: 0.969561

00:55:26.810 --> 00:55:29.050 infused through the hepatic arterio,

NOTE Confidence: 0.969561

00:55:29.050 --> 00:55:30.010 and it has a ninety

NOTE Confidence: 0.969561

00:55:30.010 --> 00:55:32.250 percent first pass hepatic extraction

NOTE Confidence: 0.969561

00:55:32.250 --> 00:55:33.450 rate. That's really important when

NOTE Confidence: 0.969561

00:55:33.450 --> 00:55:35.585 we're thinking about intrahepatic cholangiocarcinoma,

NOTE Confidence: 0.95288986

00:55:36.205 --> 00:55:37.665 which which is why this

NOTE Confidence: 0.95288986

00:55:37.725 --> 00:55:39.344 is used in HAI.

NOTE Confidence: 0.9846191

00:55:39.885 --> 00:55:41.244 And this is possibly what

NOTE Confidence: 0.9846191

00:55:41.244 --> 00:55:43.025 contributes to the overall potential

NOTE Confidence: 0.9846191

00:55:43.085 --> 00:55:44.864 to convert patients to resectable

NOTE Confidence: 0.9846191

00:55:44.925 --> 00:55:45.885 status so we can get

NOTE Confidence: 0.9846191

00:55:45.885 --> 00:55:46.945 them to doctor Sogawa

NOTE Confidence: 0.977417

00:55:47.390 --> 00:55:49.150 and also to ultimately contribute

NOTE Confidence: 0.977417

00:55:49.150 --> 00:55:50.450 to improving survival.

NOTE Confidence: 0.9851733

00:55:51.150 --> 00:55:52.510 The limitations of the current

NOTE Confidence: 0.9851733

00:55:52.510 --> 00:55:54.830 data ultimately do, they're limited

NOTE Confidence: 0.9851733

00:55:54.830 --> 00:55:55.550 in the space of the

NOTE Confidence: 0.9851733

00:55:55.550 --> 00:55:56.430 fact that we don't have

NOTE Confidence: 0.9851733

00:55:56.430 --> 00:55:56.930 nonrandomized

NOTE Confidence: 0.9604492

00:55:57.310 --> 00:55:57.810 studies,

NOTE Confidence: 0.99708664

00:55:58.190 --> 00:55:59.870 which really could strengthen our

NOTE Confidence: 0.99708664

00:55:59.870 --> 00:56:02.370 overall recommendation for considering HAI.

NOTE Confidence: 0.9993652

00:56:02.775 --> 00:56:04.055 But despite this, this is

NOTE Confidence: 0.9993652

00:56:04.055 --> 00:56:05.674 certainly an option to consider

NOTE Confidence: 0.99423826

00:56:05.974 --> 00:56:07.414 for your patients that could

NOTE Confidence: 0.99423826

00:56:07.414 --> 00:56:09.515 potentially be considered for resection

NOTE Confidence: 0.97469074

00:56:10.214 --> 00:56:11.835 through ultimate conversion.

NOTE Confidence: 0.9773393

00:56:13.174 --> 00:56:14.135 And these are the patients

NOTE Confidence: 0.9773393

00:56:14.135 --> 00:56:14.934 that you would want to

NOTE Confidence: 0.9773393

00:56:14.934 --> 00:56:16.135 think about as long as

NOTE Confidence: 0.9773393

00:56:16.135 --> 00:56:17.335 they don't have any extra

NOTE Confidence: 0.9773393

00:56:17.335 --> 00:56:18.395 hepatic disease,

NOTE Confidence: 0.97957355

00:56:18.830 --> 00:56:20.350 if they have preserved functional

NOTE Confidence: 0.97957355

00:56:20.350 --> 00:56:22.350 status, of course, and preserved

NOTE Confidence: 0.97957355

00:56:22.350 --> 00:56:23.170 liver function.

NOTE Confidence: 0.9995117

00:56:26.430 --> 00:56:27.250 In summary,

NOTE Confidence: 0.9995117

00:56:27.550 --> 00:56:28.670 which many of us have

NOTE Confidence: 0.9995117

00:56:28.670 --> 00:56:29.570 already said,

NOTE Confidence: 0.9864638

00:56:29.870 --> 00:56:31.630 biliary tract cancers are certainly

NOTE Confidence: 0.9864638

00:56:31.630 --> 00:56:32.130 heterogeneous,

NOTE Confidence: 0.9972331

00:56:32.435 --> 00:56:33.815 and they require multidisciplinary

NOTE Confidence: 0.8613281

00:56:34.355 --> 00:56:34.855 management,

NOTE Confidence: 0.92614746

00:56:35.315 --> 00:56:36.775 hence our panel tonight.

NOTE Confidence: 0.9648263

00:56:37.155 --> 00:56:38.755 There's growing data to support

NOTE Confidence: 0.9648263

00:56:38.755 --> 00:56:40.994 neoadjuvant therapy, especially for our

NOTE Confidence: 0.9648263

00:56:40.994 --> 00:56:42.135 our high risk patients.

NOTE Confidence: 0.9837144

00:56:42.675 --> 00:56:44.275 It's really important to explore

NOTE Confidence: 0.9837144

00:56:44.275 --> 00:56:46.580 clinical trial patients, and, ultimately,

NOTE Confidence: 0.9837144

00:56:46.800 --> 00:56:48.239 further work is needed in

NOTE Confidence: 0.9837144

00:56:48.239 --> 00:56:48.900 this space.

NOTE Confidence: 0.9261649

00:56:49.360 --> 00:56:50.800 I now will transition to

NOTE Confidence: 0.9261649

00:56:50.800 --> 00:56:52.400 doctor Zhang who will end

NOTE Confidence: 0.9261649

00:56:52.400 --> 00:56:53.860 our discussion this evening

NOTE Confidence: 0.98361546

00:56:54.160 --> 00:56:56.180 discussing the role of metastatic

NOTE Confidence: 0.98361546

00:56:56.400 --> 00:56:58.260 disease and unresectable disease.

NOTE Confidence: 0.98046875

00:57:02.095 --> 00:57:03.055 Alright. Thank you so much,

NOTE Confidence: 0.98046875

00:57:03.055 --> 00:57:04.015 Jackie. Let me try to

NOTE Confidence: 0.98046875

00:57:04.015 --> 00:57:05.715 share my slides. Of course.

NOTE Confidence: 0.99316406

00:57:10.415 --> 00:57:10.915 Alright.

NOTE Confidence: 0.9069632

00:57:20.760 --> 00:57:21.960 Does that all look okay?

NOTE Confidence: 0.9069632

00:57:21.960 --> 00:57:23.960 That's perfect, doctor Dang. Okay.

NOTE Confidence: 0.9069632

00:57:23.960 --> 00:57:25.000 Great. Thank you so much,

NOTE Confidence: 0.9069632

00:57:25.000 --> 00:57:25.900 Jackie, for,

NOTE Confidence: 0.958432

00:57:26.760 --> 00:57:28.440 that great transition. And, also,

NOTE Confidence: 0.958432

00:57:28.440 --> 00:57:29.720 I'm very grateful to have

NOTE Confidence: 0.958432

00:57:29.720 --> 00:57:31.340 the opportunity to speak tonight.

NOTE Confidence: 0.958432

00:57:31.560 --> 00:57:32.735 Thank you for everybody for

NOTE Confidence: 0.958432

00:57:32.735 --> 00:57:34.655 staying fit as well. So

NOTE Confidence: 0.958432

00:57:34.655 --> 00:57:35.935 I'll be focusing on the

NOTE Confidence: 0.958432

00:57:35.935 --> 00:57:38.015 management of metastatic biliary tract

NOTE Confidence: 0.958432

00:57:38.015 --> 00:57:40.195 cancer from medical oncology perspective

NOTE Confidence: 0.95636857

00:57:40.655 --> 00:57:43.075 with emphasis on systemic therapy,

NOTE Confidence: 0.95636857

00:57:43.295 --> 00:57:44.515 molecular profiling,

NOTE Confidence: 0.9842285

00:57:45.230 --> 00:57:46.930 as well as treatment sequencing.

NOTE Confidence: 0.999483

00:57:47.230 --> 00:57:48.349 And then we'll also talk

NOTE Confidence: 0.999483

00:57:48.349 --> 00:57:49.950 about a few practical issues

NOTE Confidence: 0.999483

00:57:49.950 --> 00:57:50.910 that come up in real

NOTE Confidence: 0.999483

00:57:50.910 --> 00:57:51.809 world care.

NOTE Confidence: 0.9902344

00:57:53.549 --> 00:57:55.170 I have no relevant disclosures.

NOTE Confidence: 0.9966196

00:57:57.995 --> 00:57:59.035 So this is a brief

NOTE Confidence: 0.9966196

00:57:59.035 --> 00:58:00.395 outline of how we're gonna

NOTE Confidence: 0.9966196

00:58:00.395 --> 00:58:01.535 approach the talk.

NOTE Confidence: 0.9947754

00:58:01.995 --> 00:58:03.195 I'll start with a brief

NOTE Confidence: 0.9947754

00:58:03.195 --> 00:58:04.575 case to frame the discussion,

NOTE Confidence: 0.97417533

00:58:05.035 --> 00:58:06.235 and then we'll review the

NOTE Confidence: 0.97417533

00:58:06.235 --> 00:58:08.015 molecular's landscape and biomarkers

NOTE Confidence: 0.9407959

00:58:08.475 --> 00:58:10.255 relevant to advanced disease.

NOTE Confidence: 0.9794778

00:58:10.800 --> 00:58:12.160 From there, I'll move through

NOTE Confidence: 0.9794778

00:58:12.160 --> 00:58:14.000 first and second line therapy

NOTE Confidence: 0.9794778

00:58:14.000 --> 00:58:16.080 and then discuss targeted therapy

NOTE Confidence: 0.9794778

00:58:16.080 --> 00:58:16.740 and sequencing.

NOTE Confidence: 0.95218915

00:58:17.360 --> 00:58:18.720 And we'll briefly touch on

NOTE Confidence: 0.95218915

00:58:18.720 --> 00:58:20.240 a selective role of hepatic

NOTE Confidence: 0.95218915

00:58:20.240 --> 00:58:21.140 arterial infusion,

NOTE Confidence: 0.9866699

00:58:21.600 --> 00:58:22.880 like Jackie did, and then

NOTE Confidence: 0.9866699

00:58:22.880 --> 00:58:24.500 close with some practical considerations

NOTE Confidence: 0.9485677

00:58:24.800 --> 00:58:25.940 and future directions.

NOTE Confidence: 0.9054362

00:58:27.895 --> 00:58:29.095 So ground to ground the

NOTE Confidence: 0.9054362

00:58:29.095 --> 00:58:29.595 discussion,

NOTE Confidence: 0.9716131

00:58:29.974 --> 00:58:31.095 I'll start with a patient

NOTE Confidence: 0.9716131

00:58:31.095 --> 00:58:32.535 of mine. This is the

NOTE Confidence: 0.9716131

00:58:32.535 --> 00:58:33.815 eighty three year old woman

NOTE Confidence: 0.9716131

00:58:33.815 --> 00:58:35.095 who came to me with

NOTE Confidence: 0.9716131

00:58:35.095 --> 00:58:36.075 advanced cholangiocarcinoma.

NOTE Confidence: 0.9639855

00:58:37.255 --> 00:58:39.095 Genomic profiling was obtained at

NOTE Confidence: 0.9639855

00:58:39.095 --> 00:58:41.434 diagnosis and identified an IDH1

NOTE Confidence: 0.9639855

00:58:41.655 --> 00:58:42.155 mutation.

NOTE Confidence: 0.84606934

00:58:42.869 --> 00:58:43.529 She started,

NOTE Confidence: 0.9918132

00:58:44.150 --> 00:58:45.670 standard first line therapy with

NOTE Confidence: 0.9918132

00:58:45.670 --> 00:58:46.170 gemcitabine,

NOTE Confidence: 0.9686279

00:58:46.549 --> 00:58:47.049 cisplatin,

NOTE Confidence: 0.93831384

00:58:47.349 --> 00:58:48.010 and darvalumab.

NOTE Confidence: 0.975296

00:58:48.789 --> 00:58:49.750 I'll come back to her

NOTE Confidence: 0.975296

00:58:49.750 --> 00:58:51.109 later, but first, I wanna

NOTE Confidence: 0.975296

00:58:51.109 --> 00:58:52.869 review why that genomic result

NOTE Confidence: 0.975296

00:58:52.869 --> 00:58:53.369 mattered.

NOTE Confidence: 0.99373937

00:58:55.315 --> 00:58:56.515 So we have seen this

NOTE Confidence: 0.99373937

00:58:56.515 --> 00:58:58.435 previously tonight, but one of

NOTE Confidence: 0.99373937

00:58:58.435 --> 00:58:59.875 the key concepts in advanced

NOTE Confidence: 0.99373937

00:58:59.875 --> 00:59:01.395 biliary tract cancer is that

NOTE Confidence: 0.99373937

00:59:01.395 --> 00:59:03.495 these tumors are molecularly heterogeneous

NOTE Confidence: 0.99373937

00:59:03.635 --> 00:59:04.775 and differ by subtype.

NOTE Confidence: 0.9959744

00:59:05.475 --> 00:59:06.695 Intrahepatic cholangiocarcinoma,

NOTE Confidence: 0.9716057

00:59:07.555 --> 00:59:08.935 which can be further classified

NOTE Confidence: 0.9716057

00:59:08.995 --> 00:59:10.350 into small duct and large

NOTE Confidence: 0.9716057

00:59:10.350 --> 00:59:10.850 ducts,

NOTE Confidence: 0.86210126

00:59:11.310 --> 00:59:13.250 is enriched before actionable alterations

NOTE Confidence: 0.86210126

00:59:13.310 --> 00:59:14.930 such as IDH one mutations

NOTE Confidence: 0.86210126

00:59:15.070 --> 00:59:15.730 and FGFR

NOTE Confidence: 0.8630371

00:59:16.030 --> 00:59:16.770 two fusions,

NOTE Confidence: 0.9925537

00:59:17.230 --> 00:59:18.210 whereas extrahepatic

NOTE Confidence: 0.83926296

00:59:18.670 --> 00:59:20.770 disease, more often, Harper KRAS,

NOTE Confidence: 0.83926296

00:59:20.830 --> 00:59:22.830 TP fifty three, and HER2

NOTE Confidence: 0.83926296

00:59:22.830 --> 00:59:23.330 alterations.

NOTE Confidence: 0.8880615

00:59:24.234 --> 00:59:25.275 So the importance of this

NOTE Confidence: 0.8880615

00:59:25.275 --> 00:59:27.215 is not just biologic classification.

NOTE Confidence: 0.9777832

00:59:27.994 --> 00:59:29.835 In the metastatic setting, it

NOTE Confidence: 0.9777832

00:59:29.835 --> 00:59:32.415 directly influences the molecular testing

NOTE Confidence: 0.8767578

00:59:32.715 --> 00:59:34.734 and ultimately the treatment options.

NOTE Confidence: 0.99851704

00:59:35.480 --> 00:59:36.920 So once we recognize that

NOTE Confidence: 0.99851704

00:59:36.920 --> 00:59:38.460 these tumors differ molecularly,

NOTE Confidence: 0.97694904

00:59:39.160 --> 00:59:40.599 the next practical question is

NOTE Confidence: 0.97694904

00:59:40.599 --> 00:59:42.279 how we identify those differences

NOTE Confidence: 0.97694904

00:59:42.279 --> 00:59:43.020 in clinic.

NOTE Confidence: 0.9660121

00:59:44.920 --> 00:59:46.920 So in practice, c ninety

NOTE Confidence: 0.9660121

00:59:46.920 --> 00:59:48.599 nine is commonly followed, but

NOTE Confidence: 0.9660121

00:59:48.599 --> 00:59:49.980 it has important limitations.

NOTE Confidence: 0.983134

00:59:50.805 --> 00:59:52.165 It is not useful for

NOTE Confidence: 0.983134

00:59:52.165 --> 00:59:53.684 screening, and its role is

NOTE Confidence: 0.983134

00:59:53.684 --> 00:59:54.585 mainly prognostic

NOTE Confidence: 0.986084

00:59:55.125 --> 00:59:56.405 and in following trends over

NOTE Confidence: 0.986084

00:59:56.405 --> 00:59:56.905 time.

NOTE Confidence: 0.98271483

00:59:57.285 --> 00:59:59.385 An important limitation for CA99

NOTE Confidence: 0.9980469

00:59:59.765 --> 01:00:00.265 diagnosis

NOTE Confidence: 0.98657227

01:00:00.565 --> 01:00:01.765 is that it's absent in

NOTE Confidence: 0.98657227

01:00:01.765 --> 01:00:03.224 about ten percent of individuals

NOTE Confidence: 0.98657227

01:00:03.365 --> 01:00:04.825 who lack the Lewis antigen.

NOTE Confidence: 0.9995117

01:00:05.760 --> 01:00:06.260 Additionally,

NOTE Confidence: 0.99894637

01:00:06.560 --> 01:00:08.340 elevated levels of these proteins

NOTE Confidence: 0.99894637

01:00:08.400 --> 01:00:10.000 may also be detected in

NOTE Confidence: 0.99894637

01:00:10.000 --> 01:00:12.080 individuals with biliary obstruction or

NOTE Confidence: 0.99894637

01:00:12.080 --> 01:00:13.700 other benign biliary disease.

NOTE Confidence: 0.9505697

01:00:14.880 --> 01:00:16.000 There's a lot of interest

NOTE Confidence: 0.9505697

01:00:16.000 --> 01:00:17.760 in emergent biomarkers such as

NOTE Confidence: 0.9505697

01:00:17.760 --> 01:00:20.020 cell free DNA, circulating RNA,

NOTE Confidence: 0.9980469

01:00:20.515 --> 01:00:21.015 extracellular

NOTE Confidence: 0.9465739

01:00:21.315 --> 01:00:22.615 vesicles, and metabolomics.

NOTE Confidence: 0.9690407

01:00:24.115 --> 01:00:25.155 But at this point, those

NOTE Confidence: 0.9690407

01:00:25.155 --> 01:00:26.135 remain investigational.

NOTE Confidence: 0.96313477

01:00:26.835 --> 01:00:28.695 So for treatment decisions today,

NOTE Confidence: 0.96313477

01:00:28.755 --> 01:00:30.835 tissue based NGS remains the

NOTE Confidence: 0.96313477

01:00:30.835 --> 01:00:32.515 standard, and ideally, it should

NOTE Confidence: 0.96313477

01:00:32.515 --> 01:00:34.215 be obtained early in metastatic

NOTE Confidence: 0.96313477

01:00:34.435 --> 01:00:34.935 disease.

NOTE Confidence: 0.97352666

01:00:35.820 --> 01:00:37.260 So with that framework in

NOTE Confidence: 0.97352666

01:00:37.260 --> 01:00:38.540 mind, I'll move into first

NOTE Confidence: 0.97352666

01:00:38.540 --> 01:00:40.300 line treatment where the standard

NOTE Confidence: 0.97352666

01:00:40.300 --> 01:00:41.820 has changed meaningfully in the

NOTE Confidence: 0.97352666

01:00:41.820 --> 01:00:42.880 last few years.

NOTE Confidence: 0.9353353

01:00:45.340 --> 01:00:46.540 So for more than a

NOTE Confidence: 0.9353353

01:00:46.540 --> 01:00:48.780 decade, cisplatin and gencitabine remain

NOTE Confidence: 0.9353353

01:00:48.780 --> 01:00:50.060 the backbone of first line

NOTE Confidence: 0.9353353

01:00:50.060 --> 01:00:52.375 therapy after ABC zero two.

NOTE Confidence: 0.96357423

01:00:52.835 --> 01:00:54.275 The major recent advance has

NOTE Confidence: 0.96357423

01:00:54.275 --> 01:00:55.655 been the addition of immunotherapy.

NOTE Confidence: 0.9009776

01:00:56.515 --> 01:00:57.555 So here we talk about

NOTE Confidence: 0.9009776

01:00:57.555 --> 01:00:59.155 the TOPAS one trial, which

NOTE Confidence: 0.9009776

01:00:59.155 --> 01:01:01.555 established darvelumab plus gemcitabine and

NOTE Confidence: 0.9009776

01:01:01.555 --> 01:01:02.055 cisplatin

NOTE Confidence: 0.89538574

01:01:02.595 --> 01:01:03.795 as the new first line

NOTE Confidence: 0.89538574

01:01:03.795 --> 01:01:04.295 standard,

NOTE Confidence: 0.9711702

01:01:04.750 --> 01:01:06.270 with a median overall survival

NOTE Confidence: 0.9711702

01:01:06.270 --> 01:01:07.550 of twelve point nine months

NOTE Confidence: 0.9711702

01:01:07.550 --> 01:01:09.330 versus eleven point three months

NOTE Confidence: 0.9711702

01:01:09.390 --> 01:01:10.670 and a hazard ratio of

NOTE Confidence: 0.9711702

01:01:10.670 --> 01:01:11.730 point seven six.

NOTE Confidence: 0.96520996

01:01:12.350 --> 01:01:14.370 The absolute benefit is modest,

NOTE Confidence: 0.96520996

01:01:14.430 --> 01:01:15.570 but it is meaningful,

NOTE Confidence: 0.8742327

01:01:15.950 --> 01:01:17.070 and it moved the field

NOTE Confidence: 0.8742327

01:01:17.070 --> 01:01:18.130 beyond chemotherapy

NOTE Confidence: 1

01:01:18.430 --> 01:01:18.930 alone.

NOTE Confidence: 0.93144345

01:01:19.645 --> 01:01:20.765 So not shown on this

NOTE Confidence: 0.93144345

01:01:20.765 --> 01:01:21.885 slide here is a second

NOTE Confidence: 0.93144345

01:01:21.885 --> 01:01:23.725 randomized phase three clinical trial,

NOTE Confidence: 0.93144345

01:01:23.725 --> 01:01:24.845 which is the Kino nine

NOTE Confidence: 0.93144345

01:01:24.845 --> 01:01:26.865 six six, which also supports

NOTE Confidence: 0.93144345

01:01:26.925 --> 01:01:27.425 additional

NOTE Confidence: 0.88911134

01:01:27.885 --> 01:01:30.045 addition of immune checkpoint inhibitor

NOTE Confidence: 0.88911134

01:01:30.045 --> 01:01:30.705 to Cisgene.

NOTE Confidence: 0.99348956

01:01:31.325 --> 01:01:32.625 In that trial, pembrolizumab

NOTE Confidence: 0.9780041

01:01:33.410 --> 01:01:34.930 or placebo was added to

NOTE Confidence: 0.9780041

01:01:34.930 --> 01:01:37.010 cisgene, which also improved overall

NOTE Confidence: 0.9780041

01:01:37.010 --> 01:01:38.470 survival in the pembrolizumab

NOTE Confidence: 0.9490777

01:01:38.930 --> 01:01:40.850 arm. So in practice, for

NOTE Confidence: 0.9490777

01:01:40.850 --> 01:01:42.390 most FIT patients, chemoimmunotherapy

NOTE Confidence: 0.9951172

01:01:43.090 --> 01:01:44.530 is now the default first

NOTE Confidence: 0.9951172

01:01:44.530 --> 01:01:45.270 line approach.

NOTE Confidence: 0.9338989

01:01:46.585 --> 01:01:48.205 But even with that advanced,

NOTE Confidence: 0.9338989

01:01:48.265 --> 01:01:49.645 outcomes remain limited,

NOTE Confidence: 0.9966708

01:01:49.945 --> 01:01:52.025 and many patients eventually require

NOTE Confidence: 0.9966708

01:01:52.025 --> 01:01:53.465 or consider for second line

NOTE Confidence: 0.9966708

01:01:53.465 --> 01:01:53.965 therapy.

NOTE Confidence: 0.9740014

01:01:55.865 --> 01:01:57.065 So in the second line

NOTE Confidence: 0.9740014

01:01:57.065 --> 01:01:59.250 setting, the ABC zero six

NOTE Confidence: 0.9740014

01:01:59.330 --> 01:02:01.250 trial established Fofox as a

NOTE Confidence: 0.9740014

01:02:01.250 --> 01:02:02.070 standard cytotoxic

NOTE Confidence: 0.99902344

01:02:02.450 --> 01:02:02.950 option

NOTE Confidence: 0.9951172

01:02:03.250 --> 01:02:04.070 after progression

NOTE Confidence: 0.9921875

01:02:04.610 --> 01:02:05.830 on first line therapy.

NOTE Confidence: 0.95937407

01:02:06.370 --> 01:02:07.890 The benefit again is modest

NOTE Confidence: 0.95937407

01:02:07.890 --> 01:02:09.570 with median overall survival of

NOTE Confidence: 0.95937407

01:02:09.570 --> 01:02:10.770 six point two months in

NOTE Confidence: 0.95937407

01:02:10.770 --> 01:02:12.930 the Fofox and active symptom

NOTE Confidence: 0.95937407

01:02:12.930 --> 01:02:14.805 control arm versus five point

NOTE Confidence: 0.95937407

01:02:14.805 --> 01:02:15.925 three months in the active

NOTE Confidence: 0.95937407

01:02:15.925 --> 01:02:17.224 symptom control only.

NOTE Confidence: 0.9843614

01:02:17.765 --> 01:02:18.885 So this is a practice

NOTE Confidence: 0.9843614

01:02:18.885 --> 01:02:20.645 defining study, but it also

NOTE Confidence: 0.9843614

01:02:20.645 --> 01:02:22.165 highlights a major unmet need

NOTE Confidence: 0.9843614

01:02:22.165 --> 01:02:22.984 in the disease.

NOTE Confidence: 0.95371383

01:02:23.845 --> 01:02:25.285 In real world practice, second

NOTE Confidence: 0.95371383

01:02:25.285 --> 01:02:26.805 line treatment is often more

NOTE Confidence: 0.95371383

01:02:26.805 --> 01:02:28.405 constrained than the trial setting

NOTE Confidence: 0.95371383

01:02:28.405 --> 01:02:29.224 was just.

NOTE Confidence: 0.8993598

01:02:32.300 --> 01:02:34.460 So clinically, Fofax remains the

NOTE Confidence: 0.8993598

01:02:34.460 --> 01:02:36.240 standard second line regimen.

NOTE Confidence: 0.99902344

01:02:36.860 --> 01:02:37.360 Liposomal

NOTE Confidence: 0.8923828

01:02:37.660 --> 01:02:38.160 irinotecan

NOTE Confidence: 0.8975157

01:02:38.540 --> 01:02:39.580 and five of you is

NOTE Confidence: 0.8975157

01:02:39.580 --> 01:02:41.500 also using some settings, but

NOTE Confidence: 0.8975157

01:02:41.500 --> 01:02:43.055 the data are mixed, as

NOTE Confidence: 0.8975157

01:02:43.055 --> 01:02:44.495 reflected by the NIFTI and

NOTE Confidence: 0.8975157

01:02:44.495 --> 01:02:46.515 NELIRIC trial, which show contradictory

NOTE Confidence: 0.8975157

01:02:46.655 --> 01:02:47.155 results.

NOTE Confidence: 1

01:02:48.175 --> 01:02:48.675 Importantly,

NOTE Confidence: 0.93833005

01:02:48.975 --> 01:02:50.655 only about half the patients

NOTE Confidence: 0.93833005

01:02:50.655 --> 01:02:52.275 ever reach second line therapy,

NOTE Confidence: 0.9808594

01:02:52.575 --> 01:02:53.935 which is one reason early

NOTE Confidence: 0.9808594

01:02:53.935 --> 01:02:56.195 molecular profiling matters so much.

NOTE Confidence: 1

01:02:56.570 --> 01:02:57.390 If actionable

NOTE Confidence: 0.9672309

01:02:57.770 --> 01:03:00.010 alterations identify upfront, they can

NOTE Confidence: 0.9672309

01:03:00.010 --> 01:03:01.790 create options at progression.

NOTE Confidence: 0.9794922

01:03:02.970 --> 01:03:04.010 And that leads to the

NOTE Confidence: 0.9794922

01:03:04.010 --> 01:03:05.050 next slide, which is that

NOTE Confidence: 0.9794922

01:03:05.050 --> 01:03:06.030 standard chemotherapy

NOTE Confidence: 0.9474284

01:03:06.330 --> 01:03:08.430 still leaves us with substantial

NOTE Confidence: 0.9474284

01:03:08.490 --> 01:03:08.990 limitations.

NOTE Confidence: 0.9556152

01:03:10.325 --> 01:03:11.924 So despite the progress we

NOTE Confidence: 0.9556152

01:03:11.924 --> 01:03:13.605 have made, the median overall

NOTE Confidence: 0.9556152

01:03:13.605 --> 01:03:15.845 survival for metastatic biliary tract

NOTE Confidence: 0.9556152

01:03:15.845 --> 01:03:17.625 cancer remains around a year.

NOTE Confidence: 0.9980469

01:03:18.085 --> 01:03:19.224 Second line chemotherapy

NOTE Confidence: 0.9269206

01:03:19.605 --> 01:03:20.984 offers limited benefit,

NOTE Confidence: 0.98323566

01:03:21.285 --> 01:03:22.825 and we still lack reliable

NOTE Confidence: 0.98323566

01:03:22.885 --> 01:03:25.065 benefit biomarkers for immunotherapy

NOTE Confidence: 0.95458984

01:03:25.365 --> 01:03:25.740 response.

NOTE Confidence: 0.9919922

01:03:26.780 --> 01:03:28.140 The majority of patients do

NOTE Confidence: 0.9919922

01:03:28.140 --> 01:03:30.080 not have currently actionable targets.

NOTE Confidence: 0.9929289

01:03:30.619 --> 01:03:31.900 So what this field needs

NOTE Confidence: 0.9929289

01:03:31.900 --> 01:03:33.520 is better predictive biomarkers,

NOTE Confidence: 0.8564453

01:03:33.820 --> 01:03:34.640 better sequencing

NOTE Confidence: 0.65808105

01:03:34.940 --> 01:03:35.440 strategies,

NOTE Confidence: 0.99934894

01:03:35.820 --> 01:03:37.840 and broader access to molecular

NOTE Confidence: 0.99934894

01:03:37.900 --> 01:03:39.520 testing and targeted therapies.

NOTE Confidence: 0.9852702

01:03:40.795 --> 01:03:42.075 So to show how early

NOTE Confidence: 0.9852702

01:03:42.075 --> 01:03:44.095 molecular profiling can change management,

NOTE Confidence: 0.9852702

01:03:44.235 --> 01:03:45.355 I'll return to the patient

NOTE Confidence: 0.9852702

01:03:45.355 --> 01:03:46.575 I introduced earlier.

NOTE Confidence: 0.9116391

01:03:47.915 --> 01:03:50.155 This patient initially responded to

NOTE Confidence: 0.9116391

01:03:50.155 --> 01:03:52.175 gemcitabine cisplatin and durvalumab,

NOTE Confidence: 0.9778239

01:03:53.400 --> 01:03:55.000 And this lasted for about

NOTE Confidence: 0.9778239

01:03:55.000 --> 01:03:56.680 six months. But then she

NOTE Confidence: 0.9778239

01:03:56.680 --> 01:03:58.520 developed progression with enlargement of

NOTE Confidence: 0.9778239

01:03:58.520 --> 01:04:00.359 the primary lesion and new

NOTE Confidence: 0.9778239

01:04:00.359 --> 01:04:00.859 intrahepatic

NOTE Confidence: 0.9532878

01:04:01.240 --> 01:04:01.740 metastasis.

NOTE Confidence: 0.9953206

01:04:02.760 --> 01:04:04.140 This is where the molecular

NOTE Confidence: 0.9953206

01:04:04.280 --> 01:04:06.520 result identified at diagnosis becomes

NOTE Confidence: 0.9953206

01:04:06.520 --> 01:04:07.500 clinically important.

NOTE Confidence: 0.9881592

01:04:08.205 --> 01:04:09.405 Because she had a known

NOTE Confidence: 0.9881592

01:04:09.405 --> 01:04:10.545 IDH one mutation,

NOTE Confidence: 0.99278426

01:04:11.005 --> 01:04:12.525 she had a rational targeted

NOTE Confidence: 0.99278426

01:04:12.525 --> 01:04:14.145 option available at progression.

NOTE Confidence: 0.9722261

01:04:17.325 --> 01:04:18.365 So now we'll take a

NOTE Confidence: 0.9722261

01:04:18.365 --> 01:04:19.965 look at targeted therapy and

NOTE Confidence: 0.9722261

01:04:19.965 --> 01:04:21.490 how it it fits into

NOTE Confidence: 0.9722261

01:04:21.490 --> 01:04:23.410 treatment sequencing in biliary tract

NOTE Confidence: 0.9722261

01:04:23.410 --> 01:04:23.910 cancer.

NOTE Confidence: 0.9955706

01:04:24.930 --> 01:04:26.530 About thirty to forty percent

NOTE Confidence: 0.9955706

01:04:26.530 --> 01:04:28.130 of patients with biliary tract

NOTE Confidence: 0.9955706

01:04:28.130 --> 01:04:30.070 cancer harbor actionable alterations.

NOTE Confidence: 0.88507485

01:04:30.850 --> 01:04:32.770 The two best established examples

NOTE Confidence: 0.88507485

01:04:32.770 --> 01:04:34.455 in intrahepatic disease disease or

NOTE Confidence: 0.88507485

01:04:34.455 --> 01:04:36.635 IDH one mutations and FGFR

NOTE Confidence: 0.9788412

01:04:37.095 --> 01:04:37.835 two fusions.

NOTE Confidence: 0.9372864

01:04:38.615 --> 01:04:40.395 For IDH one mutant disease,

NOTE Confidence: 0.9372864

01:04:40.455 --> 01:04:40.955 ivositanib

NOTE Confidence: 0.8932373

01:04:41.415 --> 01:04:43.015 is a approved targeted option

NOTE Confidence: 0.8932373

01:04:43.015 --> 01:04:44.955 and showed overall survival benefit

NOTE Confidence: 0.98046875

01:04:45.255 --> 01:04:46.955 despite substantial crossover.

NOTE Confidence: 0.9941406

01:04:47.780 --> 01:04:48.280 FGFR

NOTE Confidence: 0.85662436

01:04:48.580 --> 01:04:50.580 inhibitors such as pemigatinib and

NOTE Confidence: 0.85662436

01:04:50.580 --> 01:04:51.080 fudimbatimab

NOTE Confidence: 0.93528646

01:04:51.540 --> 01:04:53.619 have shown meaningful activity, and

NOTE Confidence: 0.93528646

01:04:53.619 --> 01:04:55.720 in selected patients, compared favorably

NOTE Confidence: 0.93528646

01:04:55.859 --> 01:04:57.640 with traditional second line chemotherapy.

NOTE Confidence: 0.99243164

01:04:58.900 --> 01:05:00.980 HER2 is particularly relevant in

NOTE Confidence: 0.99243164

01:05:00.980 --> 01:05:01.480 extrahepatic

NOTE Confidence: 0.99245876

01:05:01.780 --> 01:05:03.080 and gallbladder cancers.

NOTE Confidence: 0.8904785

01:05:03.795 --> 01:05:05.234 A very recent study from

NOTE Confidence: 0.8904785

01:05:05.234 --> 01:05:07.494 the Horizon BTC one study

NOTE Confidence: 0.964388

01:05:07.795 --> 01:05:09.815 showed durable activity with zenidetimab

NOTE Confidence: 0.9682129

01:05:10.515 --> 01:05:12.454 in previously treated HER2 positive

NOTE Confidence: 0.9402669

01:05:12.755 --> 01:05:14.454 metastatic biliary cancer,

NOTE Confidence: 0.9896973

01:05:14.835 --> 01:05:16.595 with a confirmed response rate

NOTE Confidence: 0.9896973

01:05:16.595 --> 01:05:18.135 of about forty one percent

NOTE Confidence: 0.98413086

01:05:18.440 --> 01:05:20.060 and a median overall survival

NOTE Confidence: 0.98413086

01:05:20.280 --> 01:05:21.260 of fifteen months,

NOTE Confidence: 0.9970259

01:05:21.560 --> 01:05:23.320 which further supports HER2 as

NOTE Confidence: 0.9970259

01:05:23.320 --> 01:05:24.760 a meaningful target in this

NOTE Confidence: 0.9970259

01:05:24.760 --> 01:05:25.260 disease.

NOTE Confidence: 0.94254553

01:05:26.280 --> 01:05:27.180 BRAF V600E

NOTE Confidence: 0.9718192

01:05:27.560 --> 01:05:29.320 is another important, though less

NOTE Confidence: 0.9718192

01:05:29.320 --> 01:05:30.300 common target.

NOTE Confidence: 0.99178797

01:05:30.965 --> 01:05:32.485 So target therapy has become

NOTE Confidence: 0.99178797

01:05:32.485 --> 01:05:34.005 an important part of modern

NOTE Confidence: 0.99178797

01:05:34.005 --> 01:05:34.505 sequencing,

NOTE Confidence: 0.92975724

01:05:35.045 --> 01:05:36.165 not just an as a

NOTE Confidence: 0.92975724

01:05:36.165 --> 01:05:37.065 niche consideration.

NOTE Confidence: 0.9801218

01:05:38.805 --> 01:05:40.325 So in addition to the

NOTE Confidence: 0.9801218

01:05:40.325 --> 01:05:41.845 currently approved targets, there are

NOTE Confidence: 0.9801218

01:05:41.845 --> 01:05:43.785 also rare but actionable alterations

NOTE Confidence: 0.9801218

01:05:43.925 --> 01:05:45.625 and broader precision strategies

NOTE Confidence: 0.9368164

01:05:45.930 --> 01:05:47.530 that are beginning to shape

NOTE Confidence: 0.9368164

01:05:47.530 --> 01:05:48.910 how we think about sequencing.

NOTE Confidence: 0.97325844

01:05:50.569 --> 01:05:52.490 So these are the, rare

NOTE Confidence: 0.97325844

01:05:52.490 --> 01:05:54.810 but clinically relevant alterations, such

NOTE Confidence: 0.97325844

01:05:54.810 --> 01:05:57.069 as MSI high disease, NTRK

NOTE Confidence: 0.925114

01:05:57.369 --> 01:05:59.369 fusions, and in selected cases,

NOTE Confidence: 0.925114

01:05:59.369 --> 01:06:01.310 RET or NRG one fusions.

NOTE Confidence: 0.99601233

01:06:02.035 --> 01:06:03.795 In fact, patients with MSI

NOTE Confidence: 0.99601233

01:06:03.795 --> 01:06:06.035 high may greatly benefit from

NOTE Confidence: 0.99601233

01:06:06.035 --> 01:06:06.535 pembrolizumab

NOTE Confidence: 0.8088379

01:06:06.835 --> 01:06:07.335 treatment,

NOTE Confidence: 0.91023135

01:06:07.715 --> 01:06:08.675 as they are shown to

NOTE Confidence: 0.91023135

01:06:08.675 --> 01:06:10.035 have an oral response rate

NOTE Confidence: 0.91023135

01:06:10.035 --> 01:06:10.855 in the seventies,

NOTE Confidence: 0.95780945

01:06:11.635 --> 01:06:13.075 which is significantly higher than

NOTE Confidence: 0.95780945

01:06:13.075 --> 01:06:14.835 the response rates that are

NOTE Confidence: 0.95780945

01:06:14.835 --> 01:06:16.375 observed in patients with pancreatic

NOTE Confidence: 0.95780945

01:06:16.595 --> 01:06:17.095 cancer.

NOTE Confidence: 0.99578303

01:06:17.890 --> 01:06:19.810 Higher PD L1 expression may

NOTE Confidence: 0.99578303

01:06:19.810 --> 01:06:21.490 also correlate with slightly better

NOTE Confidence: 0.99578303

01:06:21.490 --> 01:06:21.990 outcomes,

NOTE Confidence: 0.999783

01:06:22.290 --> 01:06:23.650 but this measure is not

NOTE Confidence: 0.999783

01:06:23.650 --> 01:06:25.350 suitable to select patients.

NOTE Confidence: 0.98916626

01:06:26.290 --> 01:06:27.890 More broadly, we're moving beyond

NOTE Confidence: 0.98916626

01:06:27.890 --> 01:06:29.650 one mutation, one drug thinking,

NOTE Confidence: 0.98916626

01:06:29.650 --> 01:06:31.510 and more toward precision sequencing

NOTE Confidence: 0.98916626

01:06:31.570 --> 01:06:32.070 concepts,

NOTE Confidence: 0.9965007

01:06:32.655 --> 01:06:34.195 including sequential FGFR

NOTE Confidence: 0.9995117

01:06:34.495 --> 01:06:34.995 inhibition,

NOTE Confidence: 0.99738955

01:06:35.695 --> 01:06:37.775 resistance monitoring, and the possible

NOTE Confidence: 0.99738955

01:06:37.775 --> 01:06:39.295 use of liquid biopsy to

NOTE Confidence: 0.99738955

01:06:39.295 --> 01:06:40.755 guide subsequent therapy.

NOTE Confidence: 0.98191035

01:06:41.455 --> 01:06:42.575 The main point is that

NOTE Confidence: 0.98191035

01:06:42.575 --> 01:06:44.095 molecular testing will not just

NOTE Confidence: 0.98191035

01:06:44.095 --> 01:06:46.175 inform one treatment option, but

NOTE Confidence: 0.98191035

01:06:46.175 --> 01:06:47.535 the sequence of care over

NOTE Confidence: 0.98191035

01:06:47.535 --> 01:06:48.035 time.

NOTE Confidence: 0.95061034

01:06:50.470 --> 01:06:51.930 So this is the algorithm

NOTE Confidence: 0.95061034

01:06:51.990 --> 01:06:53.190 that I adapted from the

NOTE Confidence: 0.95061034

01:06:53.190 --> 01:06:55.029 recent nature review that provides

NOTE Confidence: 0.95061034

01:06:55.029 --> 01:06:56.809 a simplified overview of management.

NOTE Confidence: 0.9940796

01:06:57.349 --> 01:06:58.549 I'll focus on the right

NOTE Confidence: 0.9940796

01:06:58.549 --> 01:07:00.150 hand side, which pertains to

NOTE Confidence: 0.9940796

01:07:00.150 --> 01:07:01.049 advanced endometastatic

NOTE Confidence: 1

01:07:01.589 --> 01:07:02.089 disease.

NOTE Confidence: 0.9998779

01:07:02.685 --> 01:07:04.045 The first key step is

NOTE Confidence: 0.9998779

01:07:04.045 --> 01:07:05.665 comprehensive molecular profiling.

NOTE Confidence: 0.94415283

01:07:06.605 --> 01:07:08.125 Most FIT patients start with

NOTE Confidence: 0.94415283

01:07:08.125 --> 01:07:09.105 first line chemoimmunotherapy,

NOTE Confidence: 0.9251709

01:07:10.125 --> 01:07:11.185 and then at progression,

NOTE Confidence: 0.990625

01:07:11.725 --> 01:07:13.985 management branches based on whether

NOTE Confidence: 0.990625

01:07:14.125 --> 01:07:16.065 an actionable alteration is present.

NOTE Confidence: 0.863739

01:07:16.640 --> 01:07:18.160 If it is, our target

NOTE Confidence: 0.863739

01:07:18.160 --> 01:07:19.920 this therapy becomes the preferred

NOTE Confidence: 0.863739

01:07:19.920 --> 01:07:20.660 next step.

NOTE Confidence: 0.9969727

01:07:21.040 --> 01:07:22.740 If not, second line chemotherapy

NOTE Confidence: 0.99438477

01:07:23.120 --> 01:07:24.740 remains a reasonable option.

NOTE Confidence: 0.96186966

01:07:25.200 --> 01:07:26.960 So this algorithm really highlights

NOTE Confidence: 0.96186966

01:07:26.960 --> 01:07:28.420 a central role of molecular

NOTE Confidence: 0.96186966

01:07:28.480 --> 01:07:28.980 profiling,

NOTE Confidence: 0.9913737

01:07:29.360 --> 01:07:30.660 not just as a diagnostic

NOTE Confidence: 0.9913737

01:07:30.800 --> 01:07:31.300 exercise,

NOTE Confidence: 0.99578303

01:07:31.925 --> 01:07:33.205 but as a decision point

NOTE Confidence: 0.99578303

01:07:33.205 --> 01:07:34.965 that determines subsequent lines of

NOTE Confidence: 0.99578303

01:07:34.965 --> 01:07:35.465 therapy.

NOTE Confidence: 0.96017337

01:07:38.005 --> 01:07:39.365 So although my focus is

NOTE Confidence: 0.96017337

01:07:39.365 --> 01:07:41.765 on systemic therapy, hepatic arterial

NOTE Confidence: 0.96017337

01:07:41.765 --> 01:07:43.765 infusions worth mentioning in selected

NOTE Confidence: 0.96017337

01:07:43.765 --> 01:07:45.065 patients with unresectable

NOTE Confidence: 0.9913228

01:07:45.819 --> 01:07:47.760 liver confined intrahepatic cholangiocarcinoma.

NOTE Confidence: 0.9819336

01:07:48.940 --> 01:07:51.099 In a systemic review, response

NOTE Confidence: 0.9819336

01:07:51.099 --> 01:07:52.780 rates were about forty one

NOTE Confidence: 0.9819336

01:07:52.780 --> 01:07:54.720 percent with a median PFS

NOTE Confidence: 0.9819336

01:07:54.780 --> 01:07:56.059 of ten months and OS

NOTE Confidence: 0.9819336

01:07:56.059 --> 01:07:57.339 of just over twenty one

NOTE Confidence: 0.9819336

01:07:57.339 --> 01:07:57.839 months.

NOTE Confidence: 0.9873047

01:07:58.755 --> 01:07:59.494 Most recently,

NOTE Confidence: 0.9166938

01:07:59.875 --> 01:08:01.394 the Dutch pump two phase

NOTE Confidence: 0.9166938

01:08:01.394 --> 01:08:03.095 two study in JCO

NOTE Confidence: 0.98291016

01:08:03.635 --> 01:08:04.135 evaluated

NOTE Confidence: 0.99902344

01:08:04.595 --> 01:08:05.095 the

NOTE Confidence: 0.8811442

01:08:05.635 --> 01:08:07.474 HAI HAE pump with concurrent

NOTE Confidence: 0.8811442

01:08:07.474 --> 01:08:08.855 gemcitabine and cisplatin

NOTE Confidence: 0.9707031

01:08:09.394 --> 01:08:10.755 and asked support for this

NOTE Confidence: 0.9707031

01:08:10.755 --> 01:08:12.694 approach in carefully selected patients.

NOTE Confidence: 0.98273677

01:08:13.490 --> 01:08:14.690 This is not a routine

NOTE Confidence: 0.98273677

01:08:14.690 --> 01:08:16.630 option for most patients with

NOTE Confidence: 0.98273677

01:08:16.689 --> 01:08:18.770 metastatic disease, but it is

NOTE Confidence: 0.98273677

01:08:18.770 --> 01:08:20.870 reasonable to consider at experience

NOTE Confidence: 0.98273677

01:08:20.929 --> 01:08:22.070 centers with multidisciplinary

NOTE Confidence: 1

01:08:22.689 --> 01:08:23.189 review.

NOTE Confidence: 0.9423131

01:08:27.165 --> 01:08:29.265 So in practice, treatment decisions

NOTE Confidence: 0.9423131

01:08:29.405 --> 01:08:30.305 in metastatic

NOTE Confidence: 0.9904948

01:08:31.085 --> 01:08:33.245 biliary tract cancers are shaped

NOTE Confidence: 0.9904948

01:08:33.245 --> 01:08:34.925 not only by biology, but

NOTE Confidence: 0.9904948

01:08:34.925 --> 01:08:36.545 also by real world factors.

NOTE Confidence: 0.99658203

01:08:37.005 --> 01:08:39.005 Candidate selection depends on performance

NOTE Confidence: 0.99658203

01:08:39.005 --> 01:08:40.705 status, organ function,

NOTE Confidence: 0.9959717

01:08:41.280 --> 01:08:42.020 disease distribution,

NOTE Confidence: 1

01:08:42.400 --> 01:08:43.700 and molecular profile.

NOTE Confidence: 0.99902344

01:08:44.479 --> 01:08:46.080 Access barriers are also very

NOTE Confidence: 0.99902344

01:08:46.080 --> 01:08:48.340 real, including delays in referral,

NOTE Confidence: 0.99902344

01:08:48.479 --> 01:08:51.060 limited availability of comprehensive NGS,

NOTE Confidence: 0.99761283

01:08:51.520 --> 01:08:53.380 and unequal access to targeted

NOTE Confidence: 0.99761283

01:08:53.439 --> 01:08:54.900 or liver directed therapies.

NOTE Confidence: 0.99934894

01:08:55.845 --> 01:08:56.505 Because benefit is

NOTE Confidence: 0.9886126

01:08:56.805 --> 01:08:58.665 often modest beyond first line,

NOTE Confidence: 0.9886126

01:08:58.805 --> 01:09:00.165 quality of life and patient

NOTE Confidence: 0.9886126

01:09:00.165 --> 01:09:01.625 goals should remain central.

NOTE Confidence: 0.9720459

01:09:02.165 --> 01:09:02.905 And finally,

NOTE Confidence: 0.9666341

01:09:03.205 --> 01:09:03.705 multidisciplinary

NOTE Confidence: 0.9975586

01:09:04.325 --> 01:09:05.785 care and patient advocacy

NOTE Confidence: 0.9674072

01:09:06.245 --> 01:09:08.104 are often essential in navigating

NOTE Confidence: 0.9674072

01:09:08.165 --> 01:09:09.545 these complex decisions.

NOTE Confidence: 0.98030597

01:09:10.645 --> 01:09:11.870 So So looking ahead, the

NOTE Confidence: 0.98030597

01:09:11.870 --> 01:09:13.390 field is continuing to evolve

NOTE Confidence: 0.98030597

01:09:13.390 --> 01:09:15.090 beyond the current approved targets.

NOTE Confidence: 0.97398543

01:09:16.110 --> 01:09:17.950 There are multiple novel targets

NOTE Confidence: 0.97398543

01:09:17.950 --> 01:09:19.570 and strategies under investigation,

NOTE Confidence: 0.96295166

01:09:20.270 --> 01:09:22.210 including KRAS directed therapies,

NOTE Confidence: 0.9621582

01:09:22.510 --> 01:09:24.130 expanded HER2 strategies,

NOTE Confidence: 0.9305245

01:09:24.745 --> 01:09:26.505 claudan eighteen point two, and

NOTE Confidence: 0.9305245

01:09:26.505 --> 01:09:27.485 MDM two.

NOTE Confidence: 0.99595135

01:09:27.864 --> 01:09:28.985 At the same time, we're

NOTE Confidence: 0.99595135

01:09:28.985 --> 01:09:30.745 also seeing increased interest in

NOTE Confidence: 0.99595135

01:09:30.745 --> 01:09:31.805 combination approaches,

NOTE Confidence: 0.97216797

01:09:32.344 --> 01:09:33.965 resistance informed sequencing,

NOTE Confidence: 0.9945313

01:09:34.344 --> 01:09:36.364 and liquid biopsy guided strategies.

NOTE Confidence: 0.995638

01:09:37.550 --> 01:09:39.330 Many of these remain investigational,

NOTE Confidence: 0.99853516

01:09:39.870 --> 01:09:41.230 but the broader direction is

NOTE Confidence: 0.99853516

01:09:41.230 --> 01:09:41.730 clear.

NOTE Confidence: 0.9626953

01:09:42.110 --> 01:09:44.210 We're moving toward increasing individualized

NOTE Confidence: 0.9547526

01:09:44.590 --> 01:09:46.990 therapy supported by molecularly selected

NOTE Confidence: 0.9547526

01:09:46.990 --> 01:09:47.490 trials.

NOTE Confidence: 0.9848633

01:09:48.830 --> 01:09:50.270 So to close, these are

NOTE Confidence: 0.9848633

01:09:50.270 --> 01:09:51.470 the main points I hope

NOTE Confidence: 0.9848633

01:09:51.470 --> 01:09:52.450 you'll take away.

NOTE Confidence: 0.9832715

01:09:53.304 --> 01:09:55.645 So to summarize, first, chemoimmunotherapy

NOTE Confidence: 0.962321

01:09:56.344 --> 01:09:57.545 is now the first line

NOTE Confidence: 0.962321

01:09:57.545 --> 01:09:59.324 standard for most FIT patients

NOTE Confidence: 0.962321

01:09:59.545 --> 01:10:01.724 with metastatic biliary tract cancer.

NOTE Confidence: 0.9988281

01:10:02.744 --> 01:10:05.304 Second, early molecular profiling is

NOTE Confidence: 0.9988281

01:10:05.304 --> 01:10:07.885 essential to identify actionable alterations

NOTE Confidence: 0.9988281

01:10:08.180 --> 01:10:09.720 and to guide later sequencing.

NOTE Confidence: 0.99454755

01:10:10.820 --> 01:10:13.160 Third, targeted therapies have meaningfully

NOTE Confidence: 0.99454755

01:10:13.300 --> 01:10:15.780 expanded options beyond chemotherapy for

NOTE Confidence: 0.99454755

01:10:15.780 --> 01:10:16.680 selected patients.

NOTE Confidence: 0.96313477

01:10:17.460 --> 01:10:18.120 And finally,

NOTE Confidence: 0.98291016

01:10:18.500 --> 01:10:19.400 patient selection,

NOTE Confidence: 0.98795575

01:10:19.939 --> 01:10:21.240 access, and multidisciplinary

NOTE Confidence: 0.99800247

01:10:21.860 --> 01:10:24.095 care remain critical in translating

NOTE Confidence: 0.99800247

01:10:24.155 --> 01:10:25.835 these advances into real world

NOTE Confidence: 0.99800247

01:10:25.835 --> 01:10:26.335 practice.

NOTE Confidence: 0.9993286

01:10:27.515 --> 01:10:29.115 This remains a very challenging

NOTE Confidence: 0.9993286

01:10:29.115 --> 01:10:31.115 disease, but precision oncology is

NOTE Confidence: 0.9993286

01:10:31.115 --> 01:10:32.635 clearly changing how we approach

NOTE Confidence: 0.9993286

01:10:32.635 --> 01:10:33.135 it.

NOTE Confidence: 0.9711914

01:10:33.915 --> 01:10:34.655 Thank you.

NOTE Confidence: 0.991378

01:10:36.590 --> 01:10:37.790 Thank you so much, doctor

NOTE Confidence: 0.991378

01:10:37.790 --> 01:10:38.910 Zhang, for wrapping it up

NOTE Confidence: 0.991378

01:10:38.910 --> 01:10:40.750 and just really making sure

NOTE Confidence: 0.991378

01:10:40.750 --> 01:10:42.110 we really understand that so

NOTE Confidence: 0.991378

01:10:42.110 --> 01:10:43.550 much has evolved in this

NOTE Confidence: 0.991378

01:10:43.550 --> 01:10:45.150 space, especially for options for

NOTE Confidence: 0.991378

01:10:45.150 --> 01:10:46.270 our patients and the need

NOTE Confidence: 0.991378

01:10:46.270 --> 01:10:47.490 for tumor profiling

NOTE Confidence: 0.9985514

01:10:47.985 --> 01:10:50.305 early to offer additional options

NOTE Confidence: 0.9985514

01:10:50.305 --> 01:10:51.905 after progression on first line

NOTE Confidence: 0.9985514

01:10:51.905 --> 01:10:53.525 therapy. Thank you so much.

NOTE Confidence: 0.9775696

01:10:54.305 --> 01:10:55.745 I noticed that we do

NOTE Confidence: 0.9775696

01:10:55.745 --> 01:10:57.425 not have any questions in

NOTE Confidence: 0.9775696

01:10:57.425 --> 01:10:58.945 the chat, and I noticed

NOTE Confidence: 0.9775696

01:10:58.945 --> 01:10:59.985 that we also have gone

NOTE Confidence: 0.9775696

01:10:59.985 --> 01:11:01.205 over an hour, but

NOTE Confidence: 0.9901123

01:11:01.550 --> 01:11:03.729 just for some multidisciplinary

NOTE Confidence: 0.97755694

01:11:04.350 --> 01:11:05.710 discussion, given that it's rare

NOTE Confidence: 0.97755694

01:11:05.710 --> 01:11:06.510 that all of us are

NOTE Confidence: 0.97755694

01:11:06.510 --> 01:11:07.870 here together, I figured I

NOTE Confidence: 0.97755694

01:11:07.870 --> 01:11:08.910 allow us to at least

NOTE Confidence: 0.97755694

01:11:08.910 --> 01:11:10.510 have time for some few

NOTE Confidence: 0.97755694

01:11:10.510 --> 01:11:12.430 moments of discussion to maybe

NOTE Confidence: 0.97755694

01:11:12.430 --> 01:11:14.030 generate some questions. And if

NOTE Confidence: 0.97755694

01:11:14.030 --> 01:11:15.470 not, we can end the

NOTE Confidence: 0.97755694

01:11:15.470 --> 01:11:15.970 night.

NOTE Confidence: 0.94638133

01:11:16.295 --> 01:11:17.735 But I'll start off, and

NOTE Confidence: 0.94638133

01:11:17.735 --> 01:11:19.415 I'll ask doctor Sogel a

NOTE Confidence: 0.94638133

01:11:19.415 --> 01:11:22.075 question for you. You reviewed

NOTE Confidence: 0.98923564

01:11:23.415 --> 01:11:25.675 the actual criteria for considering

NOTE Confidence: 0.98923564

01:11:25.735 --> 01:11:27.735 patients for transplant, and I

NOTE Confidence: 0.98923564

01:11:27.735 --> 01:11:28.854 wanted to know if you

NOTE Confidence: 0.98923564

01:11:28.854 --> 01:11:30.660 could discuss what are some

NOTE Confidence: 0.98923564

01:11:30.660 --> 01:11:31.720 common barriers

NOTE Confidence: 0.9914958

01:11:32.260 --> 01:11:34.120 that may reduce the overall

NOTE Confidence: 0.9914958

01:11:34.180 --> 01:11:36.580 equitable approach for transplant for

NOTE Confidence: 0.9914958

01:11:36.580 --> 01:11:37.320 these patients.

NOTE Confidence: 0.9811198

01:11:38.580 --> 01:11:39.380 Well, I think,

NOTE Confidence: 0.88256836

01:11:41.380 --> 01:11:42.340 one thing that we don't

NOTE Confidence: 0.88256836

01:11:42.340 --> 01:11:43.380 know is,

NOTE Confidence: 0.9187012

01:11:44.145 --> 01:11:45.505 somebody who is a resection

NOTE Confidence: 0.9187012

01:11:45.505 --> 01:11:46.005 candidate

NOTE Confidence: 0.7155762

01:11:46.704 --> 01:11:47.204 and,

NOTE Confidence: 0.9083775

01:11:48.625 --> 01:11:49.985 is a transplant will be

NOTE Confidence: 0.9083775

01:11:49.985 --> 01:11:51.184 a beneficial or not. We

NOTE Confidence: 0.9083775

01:11:51.184 --> 01:11:52.405 don't have any trials.

NOTE Confidence: 0.9914551

01:11:52.864 --> 01:11:53.364 So,

NOTE Confidence: 0.7123814

01:11:54.224 --> 01:11:56.324 like, in like, about cerebrocarcinoma,

NOTE Confidence: 0.8874512

01:11:56.864 --> 01:11:57.604 for example,

NOTE Confidence: 0.97119683

01:11:57.920 --> 01:11:59.520 you know, that's also something

NOTE Confidence: 0.97119683

01:11:59.520 --> 01:12:00.960 similar too. When you have

NOTE Confidence: 0.97119683

01:12:00.960 --> 01:12:02.500 a liver resection, it's it's

NOTE Confidence: 0.9727783

01:12:02.880 --> 01:12:03.619 it's available.

NOTE Confidence: 0.9980469

01:12:04.159 --> 01:12:04.659 We

NOTE Confidence: 0.9255127

01:12:04.960 --> 01:12:06.239 tend to go into liver

NOTE Confidence: 0.9255127

01:12:06.239 --> 01:12:08.320 resection if it's liver is,

NOTE Confidence: 0.81463623

01:12:09.119 --> 01:12:10.580 liver function is remain.

NOTE Confidence: 0.9667969

01:12:12.405 --> 01:12:14.885 And but outcome is, generally

NOTE Confidence: 0.9667969

01:12:14.885 --> 01:12:16.425 speaking, actually, transplantation

NOTE Confidence: 0.86499023

01:12:17.285 --> 01:12:18.745 have as a better survival,

NOTE Confidence: 0.83089197

01:12:20.005 --> 01:12:21.445 than the resection if it's,

NOTE Confidence: 0.83089197

01:12:21.445 --> 01:12:22.725 you know, if it's in

NOTE Confidence: 0.83089197

01:12:22.805 --> 01:12:24.725 so, it's good within the

NOTE Confidence: 0.83089197

01:12:24.725 --> 01:12:25.545 Meran's criteria.

NOTE Confidence: 0.92611533

01:12:26.229 --> 01:12:28.470 However, utility of, you know,

NOTE Confidence: 0.92611533

01:12:28.470 --> 01:12:29.590 liver trans you know, or,

NOTE Confidence: 0.92611533

01:12:29.590 --> 01:12:31.770 you know, scarcity of, organs.

NOTE Confidence: 0.92611533

01:12:31.830 --> 01:12:33.050 And then so, therefore,

NOTE Confidence: 0.87939453

01:12:33.430 --> 01:12:34.570 most of our practice,

NOTE Confidence: 0.984713

01:12:35.670 --> 01:12:36.950 generally, if it's somebody who

NOTE Confidence: 0.984713

01:12:36.950 --> 01:12:38.550 is a resection candidate, we're

NOTE Confidence: 0.984713

01:12:38.550 --> 01:12:39.850 going for resection

NOTE Confidence: 0.91432834

01:12:40.345 --> 01:12:41.865 rather than the transplantation. So

NOTE Confidence: 0.91432834

01:12:41.865 --> 01:12:43.945 that's part certainly, we need

NOTE Confidence: 0.91432834

01:12:43.945 --> 01:12:45.645 to have a more clarity

NOTE Confidence: 0.9876709

01:12:46.104 --> 01:12:46.845 for this.

NOTE Confidence: 0.9980469

01:12:47.385 --> 01:12:47.885 And,

NOTE Confidence: 0.91872925

01:12:48.665 --> 01:12:50.265 what I see more and

NOTE Confidence: 0.91872925

01:12:50.265 --> 01:12:52.104 more patient who's, for the

NOTE Confidence: 0.91872925

01:12:52.104 --> 01:12:52.604 chorangio,

NOTE Confidence: 0.8199599

01:12:53.465 --> 01:12:54.425 was found at is the

NOTE Confidence: 0.8199599

01:12:54.425 --> 01:12:55.710 latest stage of age.

NOTE Confidence: 0.9995117

01:12:56.270 --> 01:12:56.770 So,

NOTE Confidence: 0.8679199

01:12:57.950 --> 01:12:59.310 you know, age is not

NOTE Confidence: 0.8679199

01:12:59.310 --> 01:13:00.989 necessarily be a it's a

NOTE Confidence: 0.8679199

01:13:00.989 --> 01:13:02.689 biological age is more important,

NOTE Confidence: 0.8679199

01:13:02.750 --> 01:13:03.250 but

NOTE Confidence: 0.97280276

01:13:03.950 --> 01:13:05.489 not too many people who

NOTE Confidence: 0.97280276

01:13:05.550 --> 01:13:07.170 can go for liver transplantation,

NOTE Confidence: 0.8972052

01:13:08.235 --> 01:13:09.695 like a later of seventies

NOTE Confidence: 0.8972052

01:13:09.755 --> 01:13:10.574 or eighties.

NOTE Confidence: 0.96083575

01:13:11.034 --> 01:13:12.395 It's very hard to do

NOTE Confidence: 0.96083575

01:13:12.395 --> 01:13:13.295 a liver transplantation.

NOTE Confidence: 0.98205566

01:13:13.675 --> 01:13:15.215 So that's that's another,

NOTE Confidence: 0.9995117

01:13:16.314 --> 01:13:16.814 limitation.

NOTE Confidence: 0.9064331

01:13:17.835 --> 01:13:19.295 Number three would be,

NOTE Confidence: 0.8688965

01:13:21.620 --> 01:13:22.120 particularly,

NOTE Confidence: 0.93226457

01:13:23.780 --> 01:13:25.080 above three centimeter.

NOTE Confidence: 0.9370117

01:13:25.700 --> 01:13:26.660 Even you have,

NOTE Confidence: 0.9593506

01:13:27.220 --> 01:13:27.720 downstaging,

NOTE Confidence: 0.9737685

01:13:28.500 --> 01:13:30.100 be able to give a

NOTE Confidence: 0.9737685

01:13:30.100 --> 01:13:30.600 chemo,

NOTE Confidence: 0.9547526

01:13:32.180 --> 01:13:34.280 may potentially get the exception

NOTE Confidence: 0.9547526

01:13:34.420 --> 01:13:35.885 point. However, it's not the

NOTE Confidence: 0.9547526

01:13:35.885 --> 01:13:37.025 automatic exception.

NOTE Confidence: 0.9805501

01:13:37.485 --> 01:13:38.465 So the only,

NOTE Confidence: 0.96005046

01:13:38.925 --> 01:13:41.085 possibility, a living donor. So

NOTE Confidence: 0.96005046

01:13:41.085 --> 01:13:43.085 not not everyone can have

NOTE Confidence: 0.96005046

01:13:43.085 --> 01:13:44.285 a living donor. So that's,

NOTE Confidence: 0.875

01:13:46.604 --> 01:13:47.104 limitation

NOTE Confidence: 0.99035645

01:13:47.885 --> 01:13:49.025 of at this moment.

NOTE Confidence: 0.9995117

01:13:50.590 --> 01:13:51.410 Thank you.

NOTE Confidence: 0.8446045

01:13:52.110 --> 01:13:54.430 Doctor Strzad Bosco, this is,

NOTE Confidence: 0.963845

01:13:54.910 --> 01:13:56.350 a question for you and

NOTE Confidence: 0.963845

01:13:56.350 --> 01:13:58.430 really thinking about potential audience

NOTE Confidence: 0.963845

01:13:58.430 --> 01:13:58.930 members.

NOTE Confidence: 0.99975586

01:13:59.390 --> 01:14:00.930 What are ways that

NOTE Confidence: 0.96875

01:14:01.310 --> 01:14:01.810 oncologists

NOTE Confidence: 1

01:14:02.564 --> 01:14:03.705 can better partner

NOTE Confidence: 0.9708252

01:14:04.165 --> 01:14:04.985 with hepatologists

NOTE Confidence: 0.99316406

01:14:06.085 --> 01:14:06.905 to ultimately

NOTE Confidence: 0.99640447

01:14:07.285 --> 01:14:08.885 improve the outcomes for our

NOTE Confidence: 0.99640447

01:14:08.885 --> 01:14:10.885 patients diagnosed with biliary tract

NOTE Confidence: 0.99640447

01:14:10.885 --> 01:14:11.385 cancers?

NOTE Confidence: 0.89006346

01:14:15.420 --> 01:14:16.960 Oh, you're muted, doctor Strassbosco.

NOTE Confidence: 0.99938965

01:14:20.380 --> 01:14:21.680 Can you hear me now?

NOTE Confidence: 0.99938965

01:14:21.820 --> 01:14:22.720 Yes. I can.

NOTE Confidence: 0.972585

01:14:23.100 --> 01:14:24.560 Well, I think that that

NOTE Confidence: 0.972585

01:14:24.700 --> 01:14:25.979 it's a it's a it's

NOTE Confidence: 0.972585

01:14:25.979 --> 01:14:26.700 a very,

NOTE Confidence: 0.9450335

01:14:27.180 --> 01:14:29.979 stronger and daily partnership, to

NOTE Confidence: 0.9450335

01:14:29.979 --> 01:14:30.640 be honest.

NOTE Confidence: 0.85498047

01:14:31.225 --> 01:14:31.725 Hepatologists

NOTE Confidence: 0.91259766

01:14:32.505 --> 01:14:33.705 are the one that,

NOTE Confidence: 0.9951172

01:14:34.425 --> 01:14:35.485 probably diagnosing

NOTE Confidence: 0.7470703

01:14:35.945 --> 01:14:36.445 more,

NOTE Confidence: 0.8788656

01:14:38.344 --> 01:14:39.485 intraepartic cholangiocarcinoma,

NOTE Confidence: 0.9921875

01:14:40.745 --> 01:14:41.245 and

NOTE Confidence: 0.6251221

01:14:42.185 --> 01:14:43.165 so we,

NOTE Confidence: 0.8607585

01:14:44.025 --> 01:14:45.245 receive the patient.

NOTE Confidence: 0.8684082

01:14:46.460 --> 01:14:46.960 We,

NOTE Confidence: 0.8972684

01:14:48.060 --> 01:14:49.100 kind of work up the

NOTE Confidence: 0.8972684

01:14:49.100 --> 01:14:51.100 patient reaches the anguities. But

NOTE Confidence: 0.8972684

01:14:51.100 --> 01:14:52.320 then after that,

NOTE Confidence: 0.8593588

01:14:53.340 --> 01:14:55.200 it's, it's, it's really teamwork,

NOTE Confidence: 0.94873047

01:14:55.740 --> 01:14:56.240 between,

NOTE Confidence: 0.8980713

01:14:56.860 --> 01:14:57.360 oncology,

NOTE Confidence: 0.8520508

01:14:59.260 --> 01:14:59.760 surgery.

NOTE Confidence: 0.7994791

01:15:01.305 --> 01:15:02.445 Intervention, radiology.

NOTE Confidence: 0.88842773

01:15:03.705 --> 01:15:04.205 And,

NOTE Confidence: 0.96369916

01:15:04.665 --> 01:15:06.825 you know, these cases are,

NOTE Confidence: 0.96369916

01:15:06.825 --> 01:15:08.985 of course, less, frequent than

NOTE Confidence: 0.96369916

01:15:08.985 --> 01:15:09.485 hepatosarcosinoma,

NOTE Confidence: 0.97065336

01:15:10.104 --> 01:15:10.985 but I think that with

NOTE Confidence: 0.97065336

01:15:10.985 --> 01:15:11.565 the hepatosarcosinoma,

NOTE Confidence: 0.85668945

01:15:12.265 --> 01:15:13.725 we are very well

NOTE Confidence: 0.9604492

01:15:14.265 --> 01:15:15.405 oiled and integrated

NOTE Confidence: 0.9842122

01:15:16.960 --> 01:15:17.460 multidisciplinary

NOTE Confidence: 0.91646904

01:15:20.159 --> 01:15:22.099 tumor board and and and

NOTE Confidence: 0.91646904

01:15:22.159 --> 01:15:22.900 and approach.

NOTE Confidence: 0.9983724

01:15:23.520 --> 01:15:24.820 And thinking about

NOTE Confidence: 0.87280273

01:15:25.400 --> 01:15:25.900 the,

NOTE Confidence: 0.8651123

01:15:27.920 --> 01:15:28.960 transplant for,

NOTE Confidence: 0.7265044

01:15:29.520 --> 01:15:30.739 intraparticle angiocarcinoma,

NOTE Confidence: 0.895874

01:15:32.784 --> 01:15:33.764 it seems to me

NOTE Confidence: 0.90045166

01:15:35.025 --> 01:15:36.465 that there is a there

NOTE Confidence: 0.90045166

01:15:36.465 --> 01:15:37.364 is a clear,

NOTE Confidence: 0.93910843

01:15:37.905 --> 01:15:39.184 clear patient where this may

NOTE Confidence: 0.93910843

01:15:39.184 --> 01:15:40.864 be indicated. Right? So, you

NOTE Confidence: 0.93910843

01:15:40.864 --> 01:15:43.025 know, as we discussed, many

NOTE Confidence: 0.93910843

01:15:43.025 --> 01:15:44.005 patient with

NOTE Confidence: 0.9867079

01:15:45.280 --> 01:15:45.780 cholangiocarcinoma,

NOTE Confidence: 0.9005534

01:15:46.560 --> 01:15:48.739 they have steatotic liver disease.

NOTE Confidence: 0.9005534

01:15:48.960 --> 01:15:51.300 Sometimes they they have, cirrhosis.

NOTE Confidence: 0.92567277

01:15:52.159 --> 01:15:53.920 This patient, particularly if they

NOTE Confidence: 0.92567277

01:15:53.920 --> 01:15:55.540 are diagnosed with small,

NOTE Confidence: 0.9338379

01:15:56.000 --> 01:15:56.479 small,

NOTE Confidence: 0.8330078

01:15:56.960 --> 01:15:58.260 tumor, they are

NOTE Confidence: 0.9831238

01:15:59.155 --> 01:16:00.615 difficult to be resected.

NOTE Confidence: 0.92041016

01:16:01.395 --> 01:16:01.875 And,

NOTE Confidence: 0.87908936

01:16:04.035 --> 01:16:05.575 maybe this patient also,

NOTE Confidence: 0.9463501

01:16:06.275 --> 01:16:07.575 a little more compromised.

NOTE Confidence: 0.375

01:16:07.955 --> 01:16:08.455 So

NOTE Confidence: 0.99316406

01:16:08.835 --> 01:16:09.335 immunotherapy

NOTE Confidence: 0.9485786

01:16:10.515 --> 01:16:11.955 adjuvant is not something that

NOTE Confidence: 0.9485786

01:16:11.955 --> 01:16:13.075 you think about, but they

NOTE Confidence: 0.9485786

01:16:13.075 --> 01:16:15.230 could very easily be treated

NOTE Confidence: 0.9313151

01:16:15.850 --> 01:16:16.830 by local regional

NOTE Confidence: 0.9237793

01:16:18.170 --> 01:16:19.870 treatment and go down immediately,

NOTE Confidence: 0.9845703

01:16:20.250 --> 01:16:21.950 go down the the transplant,

NOTE Confidence: 0.97126466

01:16:22.890 --> 01:16:24.410 way, for example. Right? So

NOTE Confidence: 0.97126466

01:16:24.410 --> 01:16:25.950 we see the patient with,

NOTE Confidence: 0.949428

01:16:27.050 --> 01:16:28.970 downstage the tumor. We we

NOTE Confidence: 0.949428

01:16:28.970 --> 01:16:29.710 we buy

NOTE Confidence: 0.94088745

01:16:30.015 --> 01:16:31.614 time, and that is key.

NOTE Confidence: 0.94088745

01:16:31.614 --> 01:16:32.515 It's very important.

NOTE Confidence: 0.9851074

01:16:33.695 --> 01:16:35.155 And then we try to,

NOTE Confidence: 0.9672241

01:16:35.695 --> 01:16:37.455 to to to transfer the

NOTE Confidence: 0.9672241

01:16:37.455 --> 01:16:38.735 patient. And in in this

NOTE Confidence: 0.9672241

01:16:38.735 --> 01:16:39.554 phase also,

NOTE Confidence: 0.85637414

01:16:39.854 --> 01:16:41.775 medical oncology comes in as

NOTE Confidence: 0.85637414

01:16:41.775 --> 01:16:43.074 we discussed, particularly

NOTE Confidence: 0.8919897

01:16:43.455 --> 01:16:44.975 if this tumor are larger

NOTE Confidence: 0.8919897

01:16:44.975 --> 01:16:47.439 than two centimeter with, with

NOTE Confidence: 0.8919897

01:16:47.439 --> 01:16:48.660 an adjuvant treatment.

NOTE Confidence: 0.96972656

01:16:50.640 --> 01:16:51.140 So

NOTE Confidence: 0.9937744

01:16:52.080 --> 01:16:53.520 it's it's very difficult to

NOTE Confidence: 0.9937744

01:16:53.520 --> 01:16:54.020 say

NOTE Confidence: 0.8803304

01:16:54.800 --> 01:16:56.180 where they are the boundaries,

NOTE Confidence: 0.8803304

01:16:56.400 --> 01:16:56.900 honestly,

NOTE Confidence: 0.9033203

01:16:57.835 --> 01:16:58.895 of these different

NOTE Confidence: 0.42700195

01:16:59.675 --> 01:17:00.175 professionals

NOTE Confidence: 0.93273926

01:17:01.354 --> 01:17:03.454 that are working together,

NOTE Confidence: 0.9993286

01:17:07.034 --> 01:17:08.474 to provide the best treatment

NOTE Confidence: 0.9993286

01:17:08.474 --> 01:17:09.454 for our patients.

NOTE Confidence: 0.97422284

01:17:13.729 --> 01:17:15.010 Thank you so much, doctor

NOTE Confidence: 0.97422284

01:17:15.010 --> 01:17:16.610 Strazzavasco. I think we have

NOTE Confidence: 0.97422284

01:17:16.610 --> 01:17:17.810 one question in the chat,

NOTE Confidence: 0.97422284

01:17:17.810 --> 01:17:18.630 so I appreciate,

NOTE Confidence: 0.97213465

01:17:19.410 --> 01:17:20.850 that one question being put

NOTE Confidence: 0.97213465

01:17:20.850 --> 01:17:21.890 in the chat. And that's

NOTE Confidence: 0.97213465

01:17:21.890 --> 01:17:22.390 specifically

NOTE Confidence: 0.9303816

01:17:22.770 --> 01:17:24.370 about the NEOGOLD study. I

NOTE Confidence: 0.9303816

01:17:24.370 --> 01:17:26.210 think you raise a certainly

NOTE Confidence: 0.9303816

01:17:26.210 --> 01:17:27.695 a good point regarding this

NOTE Confidence: 0.9303816

01:17:27.695 --> 01:17:28.655 recently published,

NOTE Confidence: 0.9316406

01:17:29.054 --> 01:17:29.554 study,

NOTE Confidence: 0.8383789

01:17:29.854 --> 01:17:30.354 which,

NOTE Confidence: 0.99902344

01:17:30.895 --> 01:17:32.655 again, is the first study

NOTE Confidence: 0.99902344

01:17:32.655 --> 01:17:34.354 in this particular space.

NOTE Confidence: 0.94718856

01:17:35.454 --> 01:17:36.974 There's certainly as we get

NOTE Confidence: 0.94718856

01:17:36.974 --> 01:17:38.494 further and out further out

NOTE Confidence: 0.94718856

01:17:38.494 --> 01:17:39.870 as far as thinking about

NOTE Confidence: 0.94718856

01:17:39.870 --> 01:17:41.469 about forty two to forty

NOTE Confidence: 0.94718856

01:17:41.469 --> 01:17:42.850 eight months as far as

NOTE Confidence: 0.94718856

01:17:42.910 --> 01:17:44.429 where those tells are closely

NOTE Confidence: 0.94718856

01:17:44.429 --> 01:17:45.870 meeting, which is ultimately what

NOTE Confidence: 0.94718856

01:17:45.870 --> 01:17:47.010 you're alluding to.

NOTE Confidence: 0.9995117

01:17:47.310 --> 01:17:48.050 I think

NOTE Confidence: 0.997857

01:17:49.150 --> 01:17:50.590 that tells me that we

NOTE Confidence: 0.997857

01:17:50.590 --> 01:17:51.810 just need more information.

NOTE Confidence: 0.96304685

01:17:52.485 --> 01:17:53.604 You know, the study was

NOTE Confidence: 0.96304685

01:17:53.604 --> 01:17:55.285 a Chinese study, which means

NOTE Confidence: 0.96304685

01:17:55.285 --> 01:17:56.165 that I think it would

NOTE Confidence: 0.96304685

01:17:56.165 --> 01:17:57.445 be also helpful to have

NOTE Confidence: 0.96304685

01:17:57.445 --> 01:17:59.625 this study done similarly here

NOTE Confidence: 0.7888997

01:17:59.925 --> 01:18:01.145 in Western countries,

NOTE Confidence: 0.99592286

01:18:01.604 --> 01:18:02.965 but I don't think that

NOTE Confidence: 0.99592286

01:18:02.965 --> 01:18:04.165 it shows us that we

NOTE Confidence: 0.99592286

01:18:04.165 --> 01:18:06.665 should not consider neoadjuvant therapy.

NOTE Confidence: 0.87954104

01:18:06.965 --> 01:18:08.400 I think it just ultimately

NOTE Confidence: 0.87954104

01:18:08.460 --> 01:18:09.580 shows us that more work

NOTE Confidence: 0.87954104

01:18:09.580 --> 01:18:10.699 is done. More work is

NOTE Confidence: 0.87954104

01:18:10.699 --> 01:18:11.660 done. If I can add

NOTE Confidence: 0.7901204

01:18:12.300 --> 01:18:13.580 if I can add a

NOTE Confidence: 0.7901204

01:18:13.580 --> 01:18:15.420 a general consideration about the

NOTE Confidence: 0.7901204

01:18:15.420 --> 01:18:17.280 taste of the government mayor

NOTE Confidence: 0.9364537

01:18:17.900 --> 01:18:19.660 is the fact they are

NOTE Confidence: 0.9364537

01:18:19.660 --> 01:18:20.479 very tricky

NOTE Confidence: 0.984375

01:18:21.275 --> 01:18:22.735 because you should look also

NOTE Confidence: 0.984375

01:18:22.795 --> 01:18:23.455 at the

NOTE Confidence: 0.97281903

01:18:23.995 --> 01:18:24.975 how the cases

NOTE Confidence: 0.94262695

01:18:25.995 --> 01:18:26.495 decrease.

NOTE Confidence: 0.95874023

01:18:27.995 --> 01:18:29.354 Some of the some of

NOTE Confidence: 0.95874023

01:18:29.354 --> 01:18:29.835 the,

NOTE Confidence: 0.9326172

01:18:31.115 --> 01:18:32.235 trial that was shown at

NOTE Confidence: 0.9326172

01:18:32.235 --> 01:18:33.275 the end that the two,

NOTE Confidence: 0.9326172

01:18:33.275 --> 01:18:35.229 three patient on the on

NOTE Confidence: 0.9326172

01:18:35.229 --> 01:18:37.490 the later stages. And so

NOTE Confidence: 0.98476565

01:18:38.030 --> 01:18:39.890 how significant can they be?

NOTE Confidence: 0.947347

01:18:40.590 --> 01:18:41.890 Yeah. I think.

NOTE Confidence: 0.9227295

01:18:42.670 --> 01:18:44.590 So many many trials failed

NOTE Confidence: 0.9227295

01:18:44.590 --> 01:18:46.430 the test of the of

NOTE Confidence: 0.9227295

01:18:46.430 --> 01:18:47.170 the tails,

NOTE Confidence: 1

01:18:47.710 --> 01:18:48.210 but

NOTE Confidence: 0.9628906

01:18:49.255 --> 01:18:51.195 how significant that is is

NOTE Confidence: 0.9628906

01:18:51.255 --> 01:18:52.055 is is a is a

NOTE Confidence: 0.9628906

01:18:52.055 --> 01:18:53.415 question that I always ask

NOTE Confidence: 0.9628906

01:18:53.415 --> 01:18:53.915 myself

NOTE Confidence: 0.93094677

01:18:54.375 --> 01:18:55.575 Yeah. Because the number of

NOTE Confidence: 0.93094677

01:18:55.575 --> 01:18:56.935 patient are certainly not the

NOTE Confidence: 0.93094677

01:18:56.935 --> 01:18:58.135 number that for which the

NOTE Confidence: 0.93094677

01:18:58.135 --> 01:18:59.354 study has been designed.

NOTE Confidence: 0.9808757

01:19:02.310 --> 01:19:03.990 Doctor Zhang, I think I'll

NOTE Confidence: 0.9808757

01:19:03.990 --> 01:19:05.350 end with asking you one

NOTE Confidence: 0.9808757

01:19:05.350 --> 01:19:06.790 question before we wrap up

NOTE Confidence: 0.9808757

01:19:06.790 --> 01:19:07.610 for the evening.

NOTE Confidence: 0.9834015

01:19:08.150 --> 01:19:09.350 But and we can kinda

NOTE Confidence: 0.9834015

01:19:09.350 --> 01:19:10.950 discuss this together as well.

NOTE Confidence: 0.9834015

01:19:10.950 --> 01:19:12.390 But one question I often

NOTE Confidence: 0.9834015

01:19:12.390 --> 01:19:13.590 think about when I'm thinking

NOTE Confidence: 0.9834015

01:19:13.590 --> 01:19:14.870 about our patients that have

NOTE Confidence: 0.9834015

01:19:14.870 --> 01:19:15.930 undergone resection,

NOTE Confidence: 0.9936217

01:19:16.475 --> 01:19:17.595 and now they're coming to

NOTE Confidence: 0.9936217

01:19:17.595 --> 01:19:19.455 us and referred by surgery

NOTE Confidence: 0.9936217

01:19:19.755 --> 01:19:21.435 to discuss the role of

NOTE Confidence: 0.9936217

01:19:21.435 --> 01:19:22.495 adjuvant capecitabine.

NOTE Confidence: 0.99952334

01:19:23.515 --> 01:19:26.015 What limits you from offering

NOTE Confidence: 0.99952334

01:19:26.155 --> 01:19:27.295 adjuvant capecitabine

NOTE Confidence: 0.9293457

01:19:27.755 --> 01:19:29.375 or what says I'm absolutely

NOTE Confidence: 0.9293457

01:19:29.595 --> 01:19:31.215 going to do it versus

NOTE Confidence: 0.9403076

01:19:31.570 --> 01:19:33.890 every patient I recommend adjuvant,

NOTE Confidence: 0.9403076

01:19:33.890 --> 01:19:34.390 Kate?

NOTE Confidence: 0.90933615

01:19:35.410 --> 01:19:36.850 Yeah. Great question. So in

NOTE Confidence: 0.90933615

01:19:36.850 --> 01:19:39.010 general, yes, for patients after

NOTE Confidence: 0.90933615

01:19:39.010 --> 01:19:40.390 upfront chemo resection,

NOTE Confidence: 0.8545583

01:19:40.930 --> 01:19:43.010 adjuvant keeps sit sitavine remains

NOTE Confidence: 0.8545583

01:19:43.010 --> 01:19:44.130 a standard based on the

NOTE Confidence: 0.8545583

01:19:44.130 --> 01:19:44.930 BILCAT trial.

NOTE Confidence: 0.98866105

01:19:45.745 --> 01:19:47.185 Assuming that they have recovered,

NOTE Confidence: 0.98866105

01:19:47.185 --> 01:19:48.545 you know, adequately from the

NOTE Confidence: 0.98866105

01:19:48.545 --> 01:19:50.545 surgery and also enough fitness

NOTE Confidence: 0.98866105

01:19:50.545 --> 01:19:51.364 for the treatment.

NOTE Confidence: 0.99142456

01:19:52.145 --> 01:19:53.585 But in practice, you know,

NOTE Confidence: 0.99142456

01:19:53.585 --> 01:19:55.205 the decision has been visualized

NOTE Confidence: 0.99142456

01:19:55.344 --> 01:19:57.265 based on margin status, nodal

NOTE Confidence: 0.99142456

01:19:57.265 --> 01:19:57.765 status,

NOTE Confidence: 0.96736485

01:19:58.219 --> 01:20:00.460 like, performance status, and patient

NOTE Confidence: 0.96736485

01:20:00.460 --> 01:20:02.219 preference too. I think I

NOTE Confidence: 0.96736485

01:20:02.219 --> 01:20:03.820 really appreciate your point during

NOTE Confidence: 0.96736485

01:20:03.820 --> 01:20:04.860 the talk about, you know,

NOTE Confidence: 0.96736485

01:20:04.860 --> 01:20:06.140 patients having high risk of

NOTE Confidence: 0.96736485

01:20:06.140 --> 01:20:07.900 recurrence, and currently, we don't

NOTE Confidence: 0.96736485

01:20:07.900 --> 01:20:09.580 have many other alternatives. You

NOTE Confidence: 0.96736485

01:20:09.580 --> 01:20:11.020 know? So that's something you

NOTE Confidence: 0.96736485

01:20:11.020 --> 01:20:12.314 present upfront with them and

NOTE Confidence: 0.96736485

01:20:12.314 --> 01:20:13.695 also the modest benefit.

NOTE Confidence: 0.94846106

01:20:14.555 --> 01:20:15.835 But in general, I think

NOTE Confidence: 0.94846106

01:20:15.835 --> 01:20:16.955 in the absence of, you

NOTE Confidence: 0.94846106

01:20:16.955 --> 01:20:19.035 know, definitive, like, the fit

NOTE Confidence: 0.94846106

01:20:19.195 --> 01:20:20.395 like, lack of fitness or

NOTE Confidence: 0.94846106

01:20:20.395 --> 01:20:21.995 preference, I would still offer

NOTE Confidence: 0.94846106

01:20:21.995 --> 01:20:23.135 it to most patients.

NOTE Confidence: 0.98513997

01:20:23.515 --> 01:20:24.475 I agree with you. And

NOTE Confidence: 0.98513997

01:20:24.475 --> 01:20:25.515 I think, you know, this

NOTE Confidence: 0.98513997

01:20:25.515 --> 01:20:26.850 is one of those conversations

NOTE Confidence: 0.99902344

01:20:27.310 --> 01:20:27.810 that

NOTE Confidence: 0.9666533

01:20:28.590 --> 01:20:30.590 share decision making. I, you

NOTE Confidence: 0.9666533

01:20:30.590 --> 01:20:32.189 know, review the data with

NOTE Confidence: 0.9666533

01:20:32.189 --> 01:20:33.890 them and show the limitations

NOTE Confidence: 0.9666533

01:20:34.110 --> 01:20:35.010 as NCCN.

NOTE Confidence: 0.98709714

01:20:35.310 --> 01:20:36.930 In their footnote, they highlight,

NOTE Confidence: 0.98709714

01:20:36.989 --> 01:20:38.590 you know, what happened as

NOTE Confidence: 0.98709714

01:20:38.590 --> 01:20:40.125 far as the intention to

NOTE Confidence: 0.98709714

01:20:40.125 --> 01:20:42.225 treat versus per protocol results.

NOTE Confidence: 0.9793091

01:20:42.765 --> 01:20:44.045 But as you alluded to,

NOTE Confidence: 0.9793091

01:20:44.045 --> 01:20:45.425 doctor Zhang, ultimately,

NOTE Confidence: 0.99434406

01:20:46.285 --> 01:20:47.325 we don't have any other

NOTE Confidence: 0.99434406

01:20:47.325 --> 01:20:47.825 alternatives.

NOTE Confidence: 0.97046775

01:20:48.205 --> 01:20:49.165 You know, it's not like,

NOTE Confidence: 0.97046775

01:20:49.165 --> 01:20:50.205 okay. Well, I can offer

NOTE Confidence: 0.97046775

01:20:50.205 --> 01:20:51.405 this instead. And what we

NOTE Confidence: 0.97046775

01:20:51.405 --> 01:20:52.365 do know, which is what

NOTE Confidence: 0.97046775

01:20:52.365 --> 01:20:54.010 I often share with, my

NOTE Confidence: 0.97046775

01:20:54.010 --> 01:20:55.370 patients, is that there's such

NOTE Confidence: 0.97046775

01:20:55.370 --> 01:20:56.590 a high risk of recurrence.

NOTE Confidence: 0.97046775

01:20:56.890 --> 01:20:57.790 And, ultimately,

NOTE Confidence: 0.9799892

01:20:58.250 --> 01:20:59.550 when we think about capecitabine

NOTE Confidence: 0.9799892

01:20:59.850 --> 01:21:01.710 compared to, let's just say,

NOTE Confidence: 0.9799892

01:21:01.770 --> 01:21:03.470 FOLFOX or some other

NOTE Confidence: 0.8869629

01:21:03.850 --> 01:21:05.790 more multi agent regimen,

NOTE Confidence: 0.99820966

01:21:06.195 --> 01:21:07.255 there's less toxicities

NOTE Confidence: 0.98342896

01:21:07.715 --> 01:21:09.314 associated with it depending on

NOTE Confidence: 0.98342896

01:21:09.314 --> 01:21:10.454 what their comorbidities

NOTE Confidence: 0.971405

01:21:10.755 --> 01:21:12.695 are, DPD testing, etcetera.

NOTE Confidence: 0.99902344

01:21:13.074 --> 01:21:14.275 So I certainly agree with

NOTE Confidence: 0.99902344

01:21:14.275 --> 01:21:14.775 you.

NOTE Confidence: 0.99576825

01:21:16.275 --> 01:21:17.314 If there are no other

NOTE Confidence: 0.99576825

01:21:17.314 --> 01:21:18.675 questions in the chat, which

NOTE Confidence: 0.99576825

01:21:18.675 --> 01:21:19.875 it does not look like

NOTE Confidence: 0.99576825

01:21:19.875 --> 01:21:21.280 it is, I first want

NOTE Confidence: 0.99576825

01:21:21.280 --> 01:21:22.420 to thank my panelists

NOTE Confidence: 0.99783325

01:21:22.800 --> 01:21:24.880 for speaking this evening, for

NOTE Confidence: 0.99783325

01:21:24.880 --> 01:21:26.100 taking time to

NOTE Confidence: 1

01:21:26.560 --> 01:21:27.699 educate our community

NOTE Confidence: 0.9667155

01:21:28.159 --> 01:21:29.760 and coming together. And I

NOTE Confidence: 0.9667155

01:21:29.760 --> 01:21:30.960 also want to thank all

NOTE Confidence: 0.9667155

01:21:30.960 --> 01:21:31.620 of the

NOTE Confidence: 0.9376526

01:21:32.000 --> 01:21:33.760 guests that came tonight or

NOTE Confidence: 0.9376526

01:21:33.760 --> 01:21:34.580 will come later,

NOTE Confidence: 0.9460961

01:21:34.955 --> 01:21:35.835 and for all of those

NOTE Confidence: 0.9460961

01:21:35.835 --> 01:21:37.915 that helped organize this event.

NOTE Confidence: 0.9460961

01:21:37.915 --> 01:21:39.035 Thank you so much for

NOTE Confidence: 0.9460961

01:21:39.035 --> 01:21:40.495 joining. Have a good evening.

NOTE Confidence: 0.9460961

01:21:40.635 --> 01:21:42.715 You, Kylie, Jack Jackie, for

NOTE Confidence: 0.9460961

01:21:42.715 --> 01:21:43.535 making this

NOTE Confidence: 0.99560547

01:21:44.555 --> 01:21:45.535 beautiful panel.

NOTE Confidence: 0.9995117

01:21:46.075 --> 01:21:47.295 Of course. Thanks.

NOTE Confidence: 0.9927368

01:21:47.915 --> 01:21:49.275 Thank you. Bye. Thank you

NOTE Confidence: 0.9927368

01:21:49.275 --> 01:21:50.379 so much. Good