WEBVTT

00:00:00.000 --> 00:00:02.148 Funding for Yale Cancer Answers is

NOTE Confidence: 0.805857452727273

00:00:02.148 --> 00:00:04.180 provided by Smilow Cancer Hospital.

NOTE Confidence: 0.83045246

00:00:06.470 --> 00:00:07.822 Welcome to Yale Cancer

NOTE Confidence: 0.83045246

00:00:07.822 --> 00:00:09.174 Answers with your host

NOTE Confidence: 0.83045246

00:00:09.180 --> 00:00:11.385 Doctor Anees Chagpar. Yale Cancer

NOTE Confidence: 0.83045246

00:00:11.385 --> 00:00:13.590 Answers features the latest information

NOTE Confidence: 0.83045246

00:00:13.656 --> 00:00:15.942 on cancer care by welcoming oncologists

NOTE Confidence: 0.83045246

00:00:15.942 --> 00:00:18.157 and specialists who are on the

NOTE Confidence: 0.83045246

00:00:18.157 --> 00:00:20.362 forefront of the battle to fight cancer.

NOTE Confidence: 0.83045246

00:00:20.370 --> 00:00:20.994 This week,

NOTE Confidence: 0.83045246

00:00:20.994 --> 00:00:22.554 it's a conversation about the

NOTE Confidence: 0.83045246

00:00:22.554 --> 00:00:24.629 care of patients with brain tumors

NOTE Confidence: 0.83045246

00:00:24.629 --> 00:00:26.413 with Doctor Nicholas Blondin. Dr

NOTE Confidence: 0.83045246

00:00:26.413 --> 00:00:28.128 Blondin is an assistant professor

NOTE Confidence: 0.83045246

00:00:28.128 --> 00:00:29.870 of clinical neurology at the

NOTE Confidence: 0.83045246

00:00:29.870 --> 00:00:31.126 Yale School of Medicine,

NOTE Confidence: 0.83045246

00:00:31.130 --> 00:00:34.274 where Doctor Chagpar is a professor

NOTE Confidence: 0.83045246

00:00:34.274 --> 00:00:35.846 of surgical oncology.

NOTE Confidence: 0.83045246

00:00:35.850 --> 00:00:36.660 So maybe

NOTE Confidence: 0.9070686908

00:00:36.670 --> 00:00:39.316 we can start by you telling us a little

NOTE Confidence: 0.9070686908

00:00:39.316 --> 00:00:41.863 bit more about what it is you do and

NOTE Confidence: 0.9070686908

00:00:41.863 --> 00:00:44.257 and a bit more about yourself.

NOTE Confidence: 0.746350576666667

00:00:44.510 --> 00:00:47.708 Well, sure, I'm neurologist by training

NOTE Confidence: 0.746350576666667

00:00:47.710 --> 00:00:49.990 and following my neurology residency

NOTE Confidence: 0.746350576666667

00:00:49.990 --> 00:00:53.714 I did some additional training in oncology

NOTE Confidence: 0.746350576666667

00:00:53.714 --> 00:00:56.356 and so I finished with board certification

NOTE Confidence: 0.746350576666667

00:00:56.356 --> 00:00:58.330 and neurology and Neuro Oncology.

NOTE Confidence: 0.746350576666667

00:00:58.330 --> 00:01:00.166 And so I approach patient care

NOTE Confidence: 0.746350576666667

00:01:00.166 --> 00:01:03.090 as a neurologist thinking about

NOTE Confidence: 0.746350576666667

00:01:03.090 --> 00:01:04.826 Neurological function of my

NOTE Confidence: 0.746350576666667

00:01:04.826 --> 00:01:07.430 patients and how their body works.

NOTE Confidence: 0.746350576666667

00:01:07.430 --> 00:01:08.750 But now we're in practice,

NOTE Confidence: 0.746350576666667

00:01:08.750 --> 00:01:10.190 really full time and

NOTE Confidence: 0.746350576666667

00:01:10.190 --> 00:01:13.070 see patients affected by brain tumors

NOTE Confidence: 0.746350576666667

00:01:13.070 --> 00:01:16.190 and cancer causing neurological symptoms.

NOTE Confidence: 0.917784262727273

00:01:17.350 --> 00:01:19.558 So let's talk a little bit

NOTE Confidence: 0.917784262727273

00:01:19.558 --> 00:01:21.590 about both of those areas.

NOTE Confidence: 0.917784262727273

00:01:21.590 --> 00:01:24.425 So first, in terms of brain cancers,

NOTE Confidence: 0.917784262727273

00:01:24.430 --> 00:01:25.872 can you give us a little bit

NOTE Confidence: 0.917784262727273

00:01:25.872 --> 00:01:27.369 more of the lay of the land?

NOTE Confidence: 0.917784262727273

00:01:27.370 --> 00:01:28.854 Who gets brain cancer?

NOTE Confidence: 0.917784262727273

00:01:28.854 --> 00:01:30.709 What are the different types?

NOTE Confidence: 0.917784262727273

00:01:30.710 --> 00:01:32.558 How? How do we kind of approach

NOTE Confidence: 0.917784262727273

00:01:32.558 --> 00:01:33.810 thinking about brain cancers?

NOTE Confidence: 0.859321143333333

00:01:34.530 --> 00:01:37.530 Sure, well on the one sense.

NOTE Confidence: 0.859321143333333

00:01:37.530 --> 00:01:39.330 Fortunately, brain tumors and

NOTE Confidence: 0.859321143333333

00:01:39.330 --> 00:01:42.030 brain cancer is a rare condition.

NOTE Confidence: 0.859321143333333

00:01:42.030 --> 00:01:45.766 It's felt to have kind of a incidents

NOTE Confidence: 0.859321143333333

00:01:45.766 --> 00:01:49.146 or diagnosis rate of approximately 300

NOTE Confidence: 0.859321143333333

00:01:49.146 --> 00:01:52.674 people per 1,000,000 people per year.

NOTE Confidence: 0.859321143333333

00:01:52.680 --> 00:01:55.459 There are two subtypes of brain tumors,

NOTE Confidence: 0.859321143333333

00:01:55.460 --> 00:01:57.830 those being considered benign brain tumors

NOTE Confidence: 0.859321143333333

00:01:57.830 --> 00:02:00.400 or noncancerous and those being cancerous,

NOTE Confidence: 0.859321143333333

00:02:00.400 --> 00:02:02.590 meningiomas and glioma tumors are

NOTE Confidence: 0.859321143333333

00:02:02.590 --> 00:02:05.766 the most common tumors in in patients

NOTE Confidence: 0.859321143333333

00:02:05.766 --> 00:02:07.578 that constitutes approximately 2/3

NOTE Confidence: 0.859321143333333

00:02:07.578 --> 00:02:11.296 of all all the brain tumors and the

NOTE Confidence: 0.859321143333333

00:02:11.296 --> 00:02:14.045 frequency of these tumor types and

NOTE Confidence: 0.859321143333333

00:02:14.045 --> 00:02:16.880 their grade varies by their age group,

NOTE Confidence: 0.859321143333333

00:02:16.880 --> 00:02:19.778 so brain tumors can actually affect

NOTE Confidence: 0.859321143333333

00:02:19.780 --> 00:02:21.866 a person at any age from infants

NOTE Confidence: 0.859321143333333

00:02:21.866 --> 00:02:22.760 and young children.

NOTE Confidence: 0.859321143333333

00:02:22.760 --> 00:02:23.888 All the way through our very,

NOTE Confidence: 0.859321143333333

00:02:23.890 --> 00:02:27.300 very elderly patients and brain

NOTE Confidence: 0.859321143333333

00:02:27.300 --> 00:02:30.028 tumors are amongst children,

NOTE Confidence: 0.859321143333333

00:02:30.030 --> 00:02:33.390 a relatively common childhood cancer

NOTE Confidence: 0.859321143333333

00:02:33.390 --> 00:02:36.130 following leukemia in adults.

NOTE Confidence: 0.859321143333333

00:02:36.130 --> 00:02:37.500 Brain metastasis,

NOTE Confidence: 0.859321143333333

00:02:37.500 --> 00:02:38.778 which is the spread of other

NOTE Confidence: 0.859321143333333

00:02:38.778 --> 00:02:39.630 cancers to the brain,

NOTE Confidence: 0.859321143333333

00:02:39.630 --> 00:02:43.998 is more common than primary brain tumors.

NOTE Confidence: 0.859321143333333

00:02:44.000 --> 00:02:46.454 Glioblastoma is the most common malignant

NOTE Confidence: 0.859321143333333

00:02:46.454 --> 00:02:48.892 primary brain tumor in adults and

NOTE Confidence: 0.859321143333333

00:02:48.892 --> 00:02:51.094 becomes more common with older age,

NOTE Confidence: 0.859321143333333

00:02:51.100 --> 00:02:53.948 particularly for folks in their 60s or 70s.

NOTE Confidence: 0.730113576

00:02:55.050 --> 00:02:56.650 Wow, lots to unpack there,

NOTE Confidence: 0.730113576

00:02:56.650 --> 00:02:59.320 so let's start at the beginning.

NOTE Confidence: 0.730113576

00:02:59.320 --> 00:03:01.366 When you talked about brain tumors.

NOTE Confidence: 0.730113576

00:03:01.370 --> 00:03:02.950 Kind of affecting everyone

NOTE Confidence: 0.730113576

00:03:02.950 --> 00:03:04.530 throughout the age spectrum.

NOTE Confidence: 0.730113576

00:03:04.530 --> 00:03:06.301 One of the things that I think

NOTE Confidence: 0.730113576

00:03:06.301 --> 00:03:08.168 many of our listeners might be

NOTE Confidence: 0.730113576

00:03:08.168 --> 00:03:10.262 really intrigued about is the fact

NOTE Confidence: 0.730113576

00:03:10.262 --> 00:03:12.391 that brain tumors are so common

NOTE Confidence: 0.730113576

00:03:12.391 --> 00:03:14.106 in young infants and children.

NOTE Confidence: 0.730113576

00:03:14.110 --> 00:03:17.592 Tell us a little bit more about how that

NOTE Confidence: 0.730113576

00:03:17.592 --> 00:03:20.049 presents who might be at greatest risk,

NOTE Confidence: 0.730113576

00:03:20.050 --> 00:03:22.606 and you know, certainly when parents

NOTE Confidence: 0.730113576

00:03:22.606 --> 00:03:25.360 hear that statistic that you mentioned.

NOTE Confidence: 0.730113576

00:03:25.360 --> 00:03:27.790 They may be curious about what to look for

NOTE Confidence: 0.730113576

00:03:27.790 --> 00:03:30.577 in terms of brain cancers in their children.

NOTE Confidence: 0.730113576

00:03:30.580 --> 00:03:32.547 Can you shed some light on that?

NOTE Confidence: 0.766308415555556

00:03:33.060 --> 00:03:36.327 Sure. Well, I guess I would like to correct.

NOTE Confidence: 0.766308415555556

00:03:36.330 --> 00:03:39.459 In one sense, they're a common cancer,

NOTE Confidence: 0.766308415555556

00:03:39.460 --> 00:03:41.068 but fortunately cancers are

NOTE Confidence: 0.766308415555556

00:03:41.068 --> 00:03:42.676 extremely rare in children,

NOTE Confidence: 0.766308415555556

00:03:42.680 --> 00:03:46.200 so they are, you know.

NOTE Confidence: 0.766308415555556

00:03:46.200 --> 00:03:47.682 Overall, for children,

NOTE Confidence: 0.766308415555556

00:03:47.682 --> 00:03:49.658 like very rare conditions,

NOTE Confidence: 0.766308415555556

00:03:49.660 --> 00:03:51.565 typically they would be discovered

NOTE Confidence: 0.766308415555556

00:03:51.565 --> 00:03:54.422 by a patient or like a child

NOTE Confidence: 0.766308415555556

00:03:54.422 --> 00:03:56.657 having difficulty with walking like

NOTE Confidence: 0.766308415555556

00:03:56.657 --> 00:03:59.042 unexplained falls or headaches and

NOTE Confidence: 0.766308415555556

00:03:59.042 --> 00:04:01.586 like kind of cognitive impairments

NOTE Confidence: 0.766308415555556

00:04:01.586 --> 00:04:04.571 or sudden changes leading you know,

NOTE Confidence: 0.766308415555556

00:04:04.571 --> 00:04:06.319 to initially like evaluation

NOTE Confidence: 0.766308415555556

00:04:06.319 --> 00:04:09.718 and diagnosis via imaging.

NOTE Confidence: 0.766308415555556

00:04:09.720 --> 00:04:11.196 You know, finding a brain tumor.

NOTE Confidence: 0.864757754

00:04:12.500 --> 00:04:14.933 And so so you know, if you have

NOTE Confidence: 0.864757754

00:04:14.933 --> 00:04:16.830 a child who might be a little

NOTE Confidence: 0.864757754

00:04:16.904 --> 00:04:18.855 bit delayed, might be falling.

NOTE Confidence: 0.864757754

00:04:18.855 --> 00:04:20.780 Might be complaining of headaches,

NOTE Confidence: 0.864757754

00:04:20.780 --> 00:04:22.859 something to go and talk to your

NOTE Confidence: 0.864757754

00:04:22.859 --> 00:04:24.009 pediatrician about. Is that right?

NOTE Confidence: 0.598401276

00:04:24.340 --> 00:04:26.020 Yeah, that's that's for sure.

NOTE Confidence: 0.598401276

00:04:26.020 --> 00:04:28.780 I mean parents. You know,

NOTE Confidence: 0.598401276

00:04:28.780 --> 00:04:29.980 they know their kids the best,

NOTE Confidence: 0.598401276

00:04:29.980 --> 00:04:32.980 and if they see a change.

NOTE Confidence: 0.598401276

00:04:32.980 --> 00:04:34.995 And it's anything I've concerned

NOTE Confidence: 0.598401276

00:04:34.995 --> 00:04:36.607 definitely is most appropriate

NOTE Confidence: 0.598401276

00:04:36.607 --> 00:04:38.906 to check in with the pediatrician

NOTE Confidence: 0.598401276

00:04:38.910 --> 00:04:40.324 and they'll have a good sense to

NOTE Confidence: 0.598401276

00:04:40.324 --> 00:04:41.648 help figure out what's going on.

NOTE Confidence: 0.886437344285714

00:04:42.370 --> 00:04:45.310 And so, how is that diagnosis made?

NOTE Confidence: 0.886437344285714

00:04:45.310 --> 00:04:47.067 You go in? You see the pediatrician.

NOTE Confidence: 0.886437344285714

00:04:47.070 --> 00:04:48.130 The pediatrician says, yeah,

NOTE Confidence: 0.886437344285714

00:04:48.130 --> 00:04:50.729 you know this is kind of odd for your child.

NOTE Confidence: 0.886437344285714

00:04:50.730 --> 00:04:52.970 I agree there might be something going on.

NOTE Confidence: 0.886437344285714

00:04:52.970 --> 00:04:55.866 What's the next step is the next step

NOTE Confidence: 0.886437344285714

00:04:55.866 --> 00:04:58.666 imaging and after that what happens is?

NOTE Confidence: 0.886437344285714

00:04:58.670 --> 00:05:00.440 Is there a biopsy involved?

NOTE Confidence: 0.767627945714286

00:05:01.390 --> 00:05:05.569 Well, I think that the pediatrician would,

NOTE Confidence: 0.767627945714286

00:05:05.570 --> 00:05:08.048 you know here here the the history

NOTE Confidence: 0.767627945714286

00:05:08.048 --> 00:05:09.838 and the situation and then

NOTE Confidence: 0.767627945714286

00:05:09.838 --> 00:05:12.120 examine the child if they see any.

NOTE Confidence: 0.767627945714286

00:05:12.120 --> 00:05:14.904 Concerning neurological signs

NOTE Confidence: 0.767627945714286

00:05:14.904 --> 00:05:18.616 like difficulty with walking.

NOTE Confidence: 0.767627945714286

00:05:18.620 --> 00:05:20.210 Other just neurological

NOTE Confidence: 0.767627945714286

00:05:20.210 --> 00:05:22.140 anomalies on the test.

NOTE Confidence: 0.767627945714286

00:05:22.140 --> 00:05:24.520 They may want to refer the patient

NOTE Confidence: 0.767627945714286

00:05:24.520 --> 00:05:26.939 to a pediatric neurologist,

NOTE Confidence: 0.767627945714286

00:05:26.940 --> 00:05:30.209 or they they may want to just

NOTE Confidence: 0.767627945714286

00:05:30.209 --> 00:05:33.269 proceed with doing an imaging test.

NOTE Confidence: 0.767627945714286

00:05:33.270 --> 00:05:33.892 In children,

NOTE Confidence: 0.767627945714286

00:05:33.892 --> 00:05:35.447 and even really in adults,

NOTE Confidence: 0.767627945714286

00:05:35.450 --> 00:05:37.625 doing Mris may be preferable

NOTE Confidence: 0.767627945714286

00:05:37.625 --> 00:05:40.786 to doing CAT scans as MRI is a

NOTE Confidence: 0.767627945714286

00:05:40.786 --> 00:05:42.290 technology based on magnets,

NOTE Confidence: 0.767627945714286

00:05:42.290 --> 00:05:44.257 whereas CAT scans it's a low dose

NOTE Confidence: 0.767627945714286

00:05:44.257 --> 00:05:46.374 of radiation and you want to try to

NOTE Confidence: 0.767627945714286

00:05:46.374 --> 00:05:48.150 limit radiation in in in children,

NOTE Confidence: 0.767627945714286

00:05:48.150 --> 00:05:50.450 if at all possible, yeah,

NOTE Confidence: 0.767627945714286

00:05:50.450 --> 00:05:53.048 then if if some abnormalities found

NOTE Confidence: 0.767627945714286

00:05:53.048 --> 00:05:55.742 on the imaging then the patient

NOTE Confidence: 0.767627945714286

00:05:55.742 --> 00:05:58.829 would be while he referred to a

NOTE Confidence: 0.767627945714286

00:05:58.829 --> 00:06:00.648 neurosurgeon for their expertise

NOTE Confidence: 0.767627945714286

00:06:00.648 --> 00:06:03.679 and figuring out what could be the.

NOTE Confidence: 0.767627945714286

00:06:03.680 --> 00:06:05.320 The next steps going forward,

NOTE Confidence: 0.767627945714286

00:06:05.320 --> 00:06:07.065 whether it's just further monitoring

NOTE Confidence: 0.767627945714286

00:06:07.065 --> 00:06:09.210 with scans or whether doing like

NOTE Confidence: 0.767627945714286

00:06:09.210 --> 00:06:10.905 a biopsy or a neurosurgical

NOTE Confidence: 0.767627945714286

00:06:10.905 --> 00:06:11.922 procedure is indicated.

NOTE Confidence: 0.81914010375

00:06:13.150 --> 00:06:15.540 How would how would the

NOTE Confidence: 0.81914010375

00:06:15.540 --> 00:06:16.974 neurosurgeon determine that?

NOTE Confidence: 0.81914010375

00:06:16.980 --> 00:06:19.796 If you see a lesion on the MRI,

NOTE Confidence: 0.81914010375

00:06:19.800 --> 00:06:21.585 how would they determine whether

NOTE Confidence: 0.81914010375

00:06:21.585 --> 00:06:23.370 that's something that they can

NOTE Confidence: 0.81914010375

00:06:23.436 --> 00:06:24.966 just watch and follow with?

NOTE Confidence: 0.81914010375

00:06:24.970 --> 00:06:26.526 You know serial scans,

NOTE Confidence: 0.81914010375

00:06:26.526 --> 00:06:28.082 or whether that's something

NOTE Confidence: 0.81914010375

00:06:28.082 --> 00:06:30.500 that needs to be biopsied or

NOTE Confidence: 0.81914010375

00:06:30.500 --> 00:06:34.060 potentially removed well with.

NOTE Confidence: 0.704636606375

00:06:34.060 --> 00:06:38.215 Imaging there can be appearances

NOTE Confidence: 0.704636606375

00:06:38.215 --> 00:06:40.708 of abnormalities that.

NOTE Confidence: 0.704636606375

00:06:40.710 --> 00:06:42.774 Have a look of like some a malignancy

NOTE Confidence: 0.704636606375

00:06:42.774 --> 00:06:45.036 or or a concerning lesion and then

NOTE Confidence: 0.704636606375

00:06:45.036 --> 00:06:47.129 other things that look like non

NOTE Confidence: 0.704636606375

00:06:47.129 --> 00:06:49.199 concerning lesions and that really is

NOTE Confidence: 0.704636606375

00:06:49.199 --> 00:06:51.425 just expertise with time and medical

NOTE Confidence: 0.704636606375

00:06:51.425 --> 00:06:53.661 training to like understand what we're

NOTE Confidence: 0.704636606375

00:06:53.661 --> 00:06:57.350 really looking at on the scans and.

NOTE Confidence: 0.704636606375

00:06:57.350 --> 00:06:58.530 It's like attending physicians

NOTE Confidence: 0.704636606375

00:06:58.530 --> 00:06:59.415 say they would.

NOTE Confidence: 0.704636606375

00:06:59.420 --> 00:07:00.610 They would know like this.

NOTE Confidence: 0.704636606375

00:07:00.610 --> 00:07:02.434 Looks like something we need to deal with,

NOTE Confidence: 0.704636606375

00:07:02.440 --> 00:07:04.408 like and and really diagnose or.

NOTE Confidence: 0.704636606375

00:07:04.410 --> 00:07:05.630 On the other hand, no.

NOTE Confidence: 0.704636606375

00:07:05.630 --> 00:07:08.077 This looks like just a benign kind

NOTE Confidence: 0.704636606375

00:07:08.077 --> 00:07:10.693 of a lesion, and it would really be

NOTE Confidence: 0.704636606375

00:07:10.693 --> 00:07:13.368 safer just to monitor this with scans.

NOTE Confidence: 0.704636606375

00:07:13.370 --> 00:07:14.342 Beyond, yeah, Pediatrics said.

NOTE Confidence: 0.704636606375

00:07:14.342 --> 00:07:16.289 This is a really a just a key

NOTE Confidence: 0.704636606375

00:07:16.289 --> 00:07:17.603 component of my practice as well.

NOTE Confidence: 0.704636606375

00:07:17.610 --> 00:07:19.857 I see patients all the time with

NOTE Confidence: 0.704636606375

00:07:19.857 --> 00:07:21.865 with abnormal scans and they do

NOTE Confidence: 0.704636606375

00:07:21.865 --> 00:07:23.490 fall into those two categories

NOTE Confidence: 0.704636606375

00:07:23.490 --> 00:07:25.404 and I love seeing the patients

NOTE Confidence: 0.704636606375

00:07:25.404 --> 00:07:27.369 where I know the the scan.

NOTE Confidence: 0.704636606375

00:07:27.370 --> 00:07:27.700 Actually,

NOTE Confidence: 0.704636606375

00:07:27.700 --> 00:07:30.340 as it looked really of a benign nature,

NOTE Confidence: 0.704636606375

00:07:30.340 --> 00:07:32.295 you know not consistent with

NOTE Confidence: 0.704636606375

00:07:32.295 --> 00:07:34.081 cancer or malignancy and that's

NOTE Confidence: 0.704636606375

00:07:34.081 --> 00:07:35.407 great news to give a person

NOTE Confidence: 0.8524749725

00:07:36.440 --> 00:07:39.688 so it's a really based on on the

NOTE Confidence: 0.8524749725

00:07:39.688 --> 00:07:41.448 imaging characteristics of of the

NOTE Confidence: 0.8524749725

00:07:41.448 --> 00:07:43.840 lesion in mind and and then you

NOTE Confidence: 0.8524749725

00:07:43.840 --> 00:07:46.120 said that you know in adulthood.

NOTE Confidence: 0.8524749725

00:07:46.120 --> 00:07:49.834 Brain cancers can also occur most commonly

NOTE Confidence: 0.8524749725

00:07:49.834 --> 00:07:53.510 in patients who are in their 60s or 70s.

NOTE Confidence: 0.8524749725

00:07:53.510 --> 00:07:58.058 So how might those symptoms present?

NOTE Confidence: 0.8524749725

00:07:58.060 --> 00:07:59.680 How do patients present with

NOTE Confidence: 0.8524749725

00:07:59.680 --> 00:08:01.300 brain tumors when they're older?

NOTE Confidence: 0.875189222857143

00:08:03.170 --> 00:08:05.655 A warning sign for a brain tumor

NOTE Confidence: 0.875189222857143

00:08:05.655 --> 00:08:08.388 in adults is a first time seizure

NOTE Confidence: 0.875189222857143

00:08:08.390 --> 00:08:10.274 in a person without a previous

NOTE Confidence: 0.875189222857143

00:08:10.274 --> 00:08:12.130 history of seizures or epilepsy.

NOTE Confidence: 0.875189222857143

00:08:12.130 --> 00:08:15.540 That's a common way that.

NOTE Confidence: 0.875189222857143

00:08:15.540 --> 00:08:18.320 A person can be found to have a brain tumor,

NOTE Confidence: 0.875189222857143

00:08:18.320 --> 00:08:21.320 other relatively common of ways

NOTE Confidence: 0.875189222857143

00:08:21.320 --> 00:08:24.940 of diagnosing it as someone with,

NOTE Confidence: 0.875189222857143

00:08:24.940 --> 00:08:26.450 like a rapid onset over

NOTE Confidence: 0.875189222857143

00:08:26.450 --> 00:08:27.658 weeks of of confusion,

NOTE Confidence: 0.875189222857143

00:08:27.660 --> 00:08:30.160 or most seeming like dementia

NOTE Confidence: 0.875189222857143

00:08:30.160 --> 00:08:31.660 and cognitive impairments,

NOTE Confidence: 0.875189222857143

00:08:31.660 --> 00:08:34.838 or if someone develops a visual loss,

NOTE Confidence: 0.875189222857143

00:08:34.840 --> 00:08:37.810 a loss of part of their field of vision.

NOTE Confidence: 0.875189222857143

00:08:37.810 --> 00:08:39.567 I've seen some folks that end up

NOTE Confidence: 0.875189222857143

00:08:39.567 --> 00:08:41.440 having a car accidents where where

NOTE Confidence: 0.875189222857143

00:08:41.440 --> 00:08:43.200 they don't realize they've lost

NOTE Confidence: 0.875189222857143

00:08:43.200 --> 00:08:45.278 some some vision or eye doctors.

NOTE Confidence: 0.875189222857143

00:08:45.278 --> 00:08:46.256 And you know,

NOTE Confidence: 0.875189222857143

00:08:46.260 --> 00:08:48.198 detect a patient has a partial

NOTE Confidence: 0.875189222857143

00:08:48.198 --> 00:08:50.211 visual field loss and refer the

NOTE Confidence: 0.875189222857143

00:08:50.211 --> 00:08:52.640 patient to a neurologist with a scan,

NOTE Confidence: 0.875189222857143

00:08:52.640 --> 00:08:53.780 then showing a brain tumor.

NOTE Confidence: 0.860491598333333

00:08:55.310 --> 00:08:58.082 And then same kind of algorithm in

NOTE Confidence: 0.860491598333333

00:08:58.082 --> 00:09:01.072 terms of getting scans and determining

NOTE Confidence: 0.860491598333333

00:09:01.072 --> 00:09:03.937 based on the imaging characteristics.

NOTE Confidence: 0.860491598333333

00:09:03.940 --> 00:09:05.800 Whether this looks benign or malignant.

NOTE Confidence: 0.827359231

00:09:06.730 --> 00:09:09.710 Exactly we can tell based

NOTE Confidence: 0.827359231

00:09:09.710 --> 00:09:12.690 on scan the scan findings.

NOTE Confidence: 0.827359231

00:09:12.690 --> 00:09:14.658 Have a good differential for what

NOTE Confidence: 0.827359231

00:09:14.658 --> 00:09:16.990 that lesion could be and whether it

NOTE Confidence: 0.827359231

00:09:16.990 --> 00:09:19.936 you know needs to have a biopsy or

NOTE Confidence: 0.827359231

00:09:19.936 --> 00:09:22.396 or neurosurgical intervention or not.

NOTE Confidence: 0.829579295714286

00:09:23.510 --> 00:09:28.508 And so you know you mentioned that.

NOTE Confidence: 0.829579295714286

00:09:28.510 --> 00:09:31.191 Tumors of the brain are are really

NOTE Confidence: 0.829579295714286

00:09:31.191 --> 00:09:33.349 classified into benign and malignant.

NOTE Confidence: 0.829579295714286

00:09:33.350 --> 00:09:35.996 So what proportion of brain cancers

NOTE Confidence: 0.829579295714286

00:09:35.996 --> 00:09:38.356 are benign and what proportion

NOTE Confidence: 0.829579295714286

00:09:38.356 --> 00:09:41.434 are malignant and does that vary

NOTE Confidence: 0.829579295714286

00:09:41.434 --> 00:09:43.620 between children and adults?

NOTE Confidence: 0.854687404

00:09:44.800 --> 00:09:49.330 It does vary vary between.

NOTE Confidence: 0.854687404

00:09:49.330 --> 00:09:50.998 Between children and adults.

NOTE Confidence: 0.854687404

00:09:50.998 --> 00:09:53.083 In terms of what tumors

NOTE Confidence: 0.854687404

00:09:53.083 --> 00:09:55.130 tumors can occur in children.

NOTE Confidence: 0.854687404

00:09:55.130 --> 00:09:56.562 Tumor, called a medulloblastoma

NOTE Confidence: 0.854687404

00:09:56.562 --> 00:09:58.710 is is the common malignant tumor,

NOTE Confidence: 0.854687404

00:09:58.710 --> 00:09:59.738 whereas those are rare

NOTE Confidence: 0.854687404

00:09:59.738 --> 00:10:01.023 in adults and in adults.

NOTE Confidence: 0.854687404

00:10:01.030 --> 00:10:02.318 Glioblastoma is the most

NOTE Confidence: 0.854687404

00:10:02.318 --> 00:10:03.284 common malignant tumor,

NOTE Confidence: 0.854687404

00:10:03.290 --> 00:10:05.366 and those are rare in children.

NOTE Confidence: 0.854687404

00:10:05.370 --> 00:10:05.806 Meningiomas,

NOTE Confidence: 0.854687404

00:10:05.806 --> 00:10:08.858 which are a benign type of tumor

NOTE Confidence: 0.854687404

00:10:08.858 --> 00:10:11.069 are extremely rare in children,

NOTE Confidence: 0.854687404

00:10:11.070 --> 00:10:12.558 but they are the most common

NOTE Confidence: 0.854687404

00:10:12.558 --> 00:10:13.550 brain tumor in adults,

NOTE Confidence: 0.854687404

00:10:13.550 --> 00:10:16.025 and they're considered benign in

NOTE Confidence: 0.854687404

00:10:16.025 --> 00:10:18.156 that they grow relatively slowly.

NOTE Confidence: 0.854687404

00:10:18.156 --> 00:10:20.094 They actually grow on the lining

NOTE Confidence: 0.854687404

00:10:20.094 --> 00:10:22.528 of the brain, called the dura,

NOTE Confidence: 0.854687404

00:10:22.528 --> 00:10:24.858 and cause issues by causing

NOTE Confidence: 0.854687404

00:10:24.858 --> 00:10:27.687 compression on the brain as they grow.

NOTE Confidence: 0.854687404

00:10:27.690 --> 00:10:29.745 So even though they typically

NOTE Confidence: 0.854687404

00:10:29.745 --> 00:10:32.474 don't invade the brain as an

NOTE Confidence: 0.854687404

00:10:32.474 --> 00:10:35.184 organ directly and grow slower.

NOTE Confidence: 0.854687404

00:10:35.190 --> 00:10:37.145 They still can cause significant

NOTE Confidence: 0.854687404

00:10:37.145 --> 00:10:37.927 neurological problems,

NOTE Confidence: 0.854687404

00:10:37.930 --> 00:10:41.780 including seizures and epilepsy, and.

NOTE Confidence: 0.854687404

00:10:41.780 --> 00:10:46.435 So terming them benign may not really,

NOTE Confidence: 0.854687404

00:10:46.440 --> 00:10:47.211 you know, really.

NOTE Confidence: 0.854687404

00:10:47.211 --> 00:10:49.010 Look at the whole scope of of

NOTE Confidence: 0.854687404

00:10:49.068 --> 00:10:50.708 how that's impacting a person.

NOTE Confidence: 0.845416094

00:10:50.860 --> 00:10:53.240 Yeah, benign, but still problematic.

NOTE Confidence: 0.845416094

00:10:53.240 --> 00:10:55.700 So what proportion of brain tumors

NOTE Confidence: 0.845416094

00:10:55.700 --> 00:10:58.480 in children are benign versus what

NOTE Confidence: 0.845416094

00:10:58.480 --> 00:11:00.730 proportion are malignant? Roughly,

NOTE Confidence: 0.739541708888889

00:11:01.280 --> 00:11:03.827 I think that the again the tumors are rare,

NOTE Confidence: 0.739541708888889

00:11:03.830 --> 00:11:06.420 but it may actually be kind of like a like.

NOTE Confidence: 0.739541708888889

00:11:06.420 --> 00:11:09.793 A kind of an even split as some

NOTE Confidence: 0.739541708888889

00:11:09.793 --> 00:11:11.780 tumors are called pilocytic Astro.

NOTE Confidence: 0.739541708888889

00:11:11.780 --> 00:11:13.950 Hey Tomas, that can be cured with

NOTE Confidence: 0.739541708888889

00:11:13.950 --> 00:11:16.109 surgery and it considered benign.

NOTE Confidence: 0.739541708888889

00:11:16.110 --> 00:11:18.238 That's another relatively common

NOTE Confidence: 0.739541708888889

00:11:18.238 --> 00:11:20.900 tumor of children that we really

NOTE Confidence: 0.739541708888889

00:11:20.900 --> 00:11:22.755 don't see very often in in adults.

NOTE Confidence: 0.842127859

00:11:23.710 --> 00:11:26.314 And for adults are benign tumors

NOTE Confidence: 0.842127859

00:11:26.314 --> 00:11:28.050 more common than malignant?

NOTE Confidence: 0.79951429

00:11:28.460 --> 00:11:29.456 They are ten.

NOTE Confidence: 0.79951429

00:11:29.456 --> 00:11:32.218 Yeah, there there is, uh, like an.

NOTE Confidence: 0.79951429

00:11:32.218 --> 00:11:35.074 Increase in the benign tumors compared

NOTE Confidence: 0.79951429

00:11:35.074 --> 00:11:37.937 to compared to the malignant.

NOTE Confidence: 0.79951429

00:11:37.940 --> 00:11:40.585 Again with meningiomas being the

NOTE Confidence: 0.79951429

00:11:40.585 --> 00:11:43.230 most common and pituitary tumors

NOTE Confidence: 0.79951429

00:11:43.313 --> 00:11:46.162 are another form of a benign brain

NOTE Confidence: 0.79951429

00:11:46.162 --> 00:11:47.665 tumor that's relatively common

NOTE Confidence: 0.79951429

00:11:47.665 --> 00:11:50.220 and may be able to be managed

NOTE Confidence: 0.79951429

00:11:50.293 --> 00:11:52.117 with a hormonal medication.

NOTE Confidence: 0.862171852222222

00:11:53.250 --> 00:11:56.239 And so, in the malignant you classified

NOTE Confidence: 0.862171852222222

00:11:56.239 --> 00:11:58.324 the malignant further into brain

NOTE Confidence: 0.862171852222222

00:11:58.324 --> 00:12:00.526 tumors that start in the brain.

NOTE Confidence: 0.862171852222222

00:12:00.530 --> 00:12:02.456 And we've talked a little bit

NOTE Confidence: 0.862171852222222

00:12:02.456 --> 00:12:04.681 about some of those and secondary

NOTE Confidence: 0.862171852222222

00:12:04.681 --> 00:12:06.846 malignancies or cancers that start

NOTE Confidence: 0.862171852222222

00:12:06.846 --> 00:12:09.528 somewhere else in travel to the brain.

NOTE Confidence: 0.862171852222222

00:12:09.530 --> 00:12:12.590 So when we think about malignant

NOTE Confidence: 0.862171852222222

00:12:12.590 --> 00:12:15.476 brain tumors, which are more common,

NOTE Confidence: 0.862171852222222

00:12:15.480 --> 00:12:17.090 the kind that start in the brain,

NOTE Confidence: 0.862171852222222

00:12:17.090 --> 00:12:19.262 or the kind that travel there

NOTE Confidence: 0.862171852222222

00:12:19.262 --> 00:12:20.740 from somewhere else. Well,

NOTE Confidence: 0.909611765555555

00:12:20.750 --> 00:12:24.090 the the secondary tumors are

NOTE Confidence: 0.909611765555555

00:12:24.090 --> 00:12:26.762 actually much more common.

NOTE Confidence: 0.909611765555555

00:12:26.770 --> 00:12:28.986 Actually, I've felt up to be 10 times

NOTE Confidence: 0.909611765555555

00:12:28.986 --> 00:12:31.067 more common than primary brain tumors.

NOTE Confidence: 0.909611765555555

00:12:31.070 --> 00:12:34.164 Uh, I think really just reflecting that

NOTE Confidence: 0.909611765555555

00:12:34.164 --> 00:12:36.904 other cancers like lung cancer and

NOTE Confidence: 0.909611765555555

00:12:36.904 --> 00:12:39.398 breast cancer in particular are are

NOTE Confidence: 0.909611765555555

00:12:39.398 --> 00:12:42.190 just much more common in adults than

NOTE Confidence: 0.909611765555555

00:12:42.190 --> 00:12:44.548 gliomas and other primary brain tumors.

NOTE Confidence: 0.867452112

00:12:44.790 --> 00:12:47.743 If you were diagnosed with another

NOTE Confidence: 0.867452112

00:12:47.743 --> 00:12:49.808 kind of cancer, lung cancer,

NOTE Confidence: 0.867452112

00:12:49.810 --> 00:12:52.394 colon cancer, breast cancer,

NOTE Confidence: 0.867452112

00:12:52.394 --> 00:12:54.461 prostate cancer can all of

NOTE Confidence: 0.867452112

00:12:54.461 --> 00:12:55.746 these travel to the brain?

NOTE Confidence: 0.867452112

00:12:55.750 --> 00:12:57.260 Or does the brain have

NOTE Confidence: 0.867452112

00:12:57.260 --> 00:12:58.166 a certain predilection?

NOTE Confidence: 0.867452112

00:12:58.170 --> 00:13:00.230 For some cancers versus others,

NOTE Confidence: 0.729850115538462

00:13:00.360 --> 00:13:02.824 it turns out that there is this

NOTE Confidence: 0.729850115538462

00:13:02.824 --> 00:13:05.419 predilection for some cancers versus others,

NOTE Confidence: 0.729850115538462

00:13:05.420 --> 00:13:08.668 and some rare cancers have a relatively

NOTE Confidence: 0.729850115538462

00:13:08.668 --> 00:13:11.759 high rate of brain involvement,

NOTE Confidence: 0.729850115538462

00:13:11.760 --> 00:13:13.993 such as Melanoma and then other cancers

NOTE Confidence: 0.729850115538462

00:13:13.993 --> 00:13:16.900 have a very low rate of brain involvement,

NOTE Confidence: 0.729850115538462

00:13:16.900 --> 00:13:19.798 like prostate cancer.

NOTE Confidence: 0.729850115538462

00:13:19.800 --> 00:13:21.175 Lung cancer and breast cancer

NOTE Confidence: 0.729850115538462

00:13:21.175 --> 00:13:22.550 may spread to the brain.

NOTE Confidence: 0.729850115538462

00:13:22.550 --> 00:13:25.952 It's estimated to be at up to 1/4 of

NOTE Confidence: 0.729850115538462

00:13:25.952 --> 00:13:28.370 people affected by those cancers.

NOTE Confidence: 0.729850115538462

00:13:28.370 --> 00:13:30.915 Ultimately, and treatments have improved

NOTE Confidence: 0.729850115538462

00:13:30.915 --> 00:13:34.528 for breast and lung cancer over the last

NOTE Confidence: 0.729850115538462

00:13:34.530 --> 00:13:37.085 decade and pay as patients live longer.

NOTE Confidence: 0.729850115538462

00:13:37.090 --> 00:13:40.962 There may be a higher rate of brain

NOTE Confidence: 0.729850115538462

00:13:40.962 --> 00:13:43.949 metastasis that that wasn't seen in the past.

NOTE Confidence: 0.931159199285714

00:13:44.870 --> 00:13:46.878 We're going to have to take a

NOTE Confidence: 0.931159199285714

00:13:46.878 --> 00:13:48.640 short break for a medical minute.

NOTE Confidence: 0.931159199285714

00:13:48.640 --> 00:13:51.136 But please stay tuned to learn more about

NOTE Confidence: 0.931159199285714

00:13:51.140 --> 00:13:52.870 brain tumors and their treatment.

NOTE Confidence: 0.931159199285714

00:13:52.870 --> 00:13:55.014 When we come back after the break with

NOTE Confidence: 0.931159199285714

00:13:55.014 --> 00:13:56.988 my guest Doctor Nicholas Blondin.

NOTE Confidence: 0.793122909

00:13:57.890 --> 00:13:59.880 Funding for Yale Cancer Answers

NOTE Confidence: 0.793122909

00:13:59.880 --> 00:14:01.870 comes from Smilow Cancer Hospital,

NOTE Confidence: 0.793122909

00:14:01.870 --> 00:14:03.310 where the bladder cancer team

NOTE Confidence: 0.793122909

00:14:03.310 --> 00:14:05.226 is at the forefront of bladder

NOTE Confidence: 0.793122909

00:14:05.226 --> 00:14:06.910 cancer treatment and research.

NOTE Confidence: 0.793122909

00:14:06.910 --> 00:14:08.960 Learn more at Yale Cancer Center dot org.

NOTE Confidence: 0.877649448333333

00:14:11.700 --> 00:14:14.190 There are over 16.9 million

NOTE Confidence: 0.877649448333333

00:14:14.190 --> 00:14:17.141 cancer survivors in the US and

NOTE Confidence: 0.877649448333333

00:14:17.141 --> 00:14:19.062 over 240,000 here in Connecticut.

NOTE Confidence: 0.877649448333333

00:14:19.062 --> 00:14:20.614 Completing treatment for cancer

NOTE Confidence: 0.877649448333333

00:14:20.614 --> 00:14:22.889 is a very exciting milestone,

NOTE Confidence: 0.877649448333333

00:14:22.890 --> 00:14:24.864 but cancer and its treatment can

NOTE Confidence: 0.877649448333333

00:14:24.864 --> 00:14:26.960 be a life changing experience.

NOTE Confidence: 0.877649448333333

00:14:26.960 --> 00:14:28.950 The return to normal activities

NOTE Confidence: 0.877649448333333

00:14:28.950 --> 00:14:30.940 and relationships may be difficult

NOTE Confidence: 0.877649448333333

00:14:31.005 --> 00:14:33.105 and cancer survivors may face other

NOTE Confidence: 0.877649448333333

00:14:33.105 --> 00:14:35.170 long term side effects of cancer,

NOTE Confidence: 0.877649448333333

00:14:35.170 --> 00:14:36.922 including heart problems,

NOTE Confidence: 0.877649448333333

00:14:36.922 --> 00:14:37.506 osteoporosis,

NOTE Confidence: 0.877649448333333

00:14:37.506 --> 00:14:40.426 fertility issues and an increased

NOTE Confidence: 0.877649448333333

00:14:40.426 --> 00:14:42.438 risk of second cancers.

NOTE Confidence: 0.877649448333333

00:14:42.440 --> 00:14:45.050 Resources for cancer survivors are

NOTE Confidence: 0.877649448333333

00:14:45.050 --> 00:14:47.138 available at federally designated

NOTE Confidence: 0.877649448333333

00:14:47.138 --> 00:14:48.399 Comprehensive cancer centers

NOTE Confidence: 0.877649448333333

00:14:48.399 --> 00:14:50.421 such as Yale Cancer Center

NOTE Confidence: 0.877649448333333

00:14:50.421 --> 00:14:52.498 and Smilow Cancer Hospital.

NOTE Confidence: 0.877649448333333

00:14:52.500 --> 00:14:54.500 To keep cancer survivors well

NOTE Confidence: 0.877649448333333

00:14:54.500 --> 00:14:56.500 and focused on healthy living,

NOTE Confidence: 0.877649448333333

00:14:56.500 --> 00:14:58.340 the Smilow Cancer Hospital

NOTE Confidence: 0.877649448333333

00:14:58.340 --> 00:15:00.180 Survivorship clinic focuses on

NOTE Confidence: 0.877649448333333

00:15:00.180 --> 00:15:01.887 providing guidance and direction

NOTE Confidence: 0.877649448333333

00:15:01.887 --> 00:15:03.702 to empower survivors to take

NOTE Confidence: 0.877649448333333

00:15:03.702 --> 00:15:05.639 steps to maximize their health,

NOTE Confidence: 0.877649448333333

00:15:05.640 --> 00:15:08.020 quality of life and longevity.

NOTE Confidence: 0.877649448333333

00:15:08.020 --> 00:15:10.340 More information is available

NOTE Confidence: 0.877649448333333

00:15:10.340 --> 00:15:11.788 at yalecancercenter.org. You're

NOTE Confidence: 0.877649448333333

00:15:11.788 --> 00:15:13.090 listening to Connecticut

NOTE Confidence: 0.877649448333333

00:15:13.090 --> 00:15:13.940 Public Radio.

NOTE Confidence: 0.837679218333333

00:15:14.870 --> 00:15:17.150 Welcome back to Yale Cancer Answers.

NOTE Confidence: 0.837679218333333

00:15:17.150 --> 00:15:18.775 This is doctor Anees Chagpar

NOTE Confidence: 0.837679218333333

00:15:18.775 --> 00:15:20.860 and I'm joined tonight by my

NOTE Confidence: 0.837679218333333

00:15:20.860 --> 00:15:22.448 guest Doctor Nicholas Blondin.

NOTE Confidence: 0.837679218333333

00:15:22.450 --> 00:15:24.850 We're talking about the management of

NOTE Confidence: 0.837679218333333

00:15:24.850 --> 00:15:27.254 patients with brain tumors in honor

NOTE Confidence: 0.837679218333333

00:15:27.254 --> 00:15:29.084 of Brain Cancer Awareness Month.

NOTE Confidence: 0.837679218333333

00:15:29.090 --> 00:15:31.280 Now, right before the break,

NOTE Confidence: 0.837679218333333

00:15:31.280 --> 00:15:33.572 Doctor Blondin was telling us that

NOTE Confidence: 0.837679218333333

00:15:33.572 --> 00:15:35.613 brain tumors can affect everyone

NOTE Confidence: 0.837679218333333

00:15:35.613 --> 00:15:37.848 throughout the age spectrum from

NOTE Confidence: 0.837679218333333

00:15:37.848 --> 00:15:40.382 infants and young children all the way

NOTE Confidence: 0.837679218333333

00:15:40.382 --> 00:15:42.825 up to more elderly patients that brain

NOTE Confidence: 0.837679218333333

00:15:42.825 --> 00:15:45.610 tumors can be benign or malignant.

NOTE Confidence: 0.837679218333333

00:15:45.610 --> 00:15:47.518 And of those that are malignant,

NOTE Confidence: 0.837679218333333

00:15:47.520 --> 00:15:49.520 they can either start in the brain or

NOTE Confidence: 0.837679218333333

00:15:49.520 --> 00:15:51.876 they can travel there from somewhere else,

NOTE Confidence: 0.837679218333333

00:15:51.880 --> 00:15:54.856 and that is by far the most common.

NOTE Confidence: 0.837679218333333

00:15:54.860 --> 00:15:57.296 Our brain scans routinely done in

NOTE Confidence: 0.837679218333333

00:15:57.296 --> 00:16:00.080 patients who have been diagnosed with,

NOTE Confidence: 0.837679218333333

00:16:00.080 --> 00:16:02.720 say, breast cancer or lung cancer,

NOTE Confidence: 0.837679218333333

00:16:02.720 --> 00:16:05.940 or Melanoma or prostate cancer.

NOTE Confidence: 0.837679218333333

00:16:05.940 --> 00:16:07.692 Or is that something that is

NOTE Confidence: 0.837679218333333

00:16:07.692 --> 00:16:09.820 only done if they have symptoms?

NOTE Confidence: 0.859610875

00:16:11.290 --> 00:16:14.730 It depends again on the type of cancer

NOTE Confidence: 0.859610875

00:16:14.730 --> 00:16:18.328 that that a person has been diagnosed with,

NOTE Confidence: 0.859610875

00:16:18.328 --> 00:16:21.634 and there are guidelines for various

NOTE Confidence: 0.859610875

00:16:21.634 --> 00:16:25.342 cancers in regards to doing screening

NOTE Confidence: 0.859610875

00:16:25.342 --> 00:16:29.536 Mris or or not needing to do them with.

NOTE Confidence: 0.859610875

00:16:29.540 --> 00:16:31.286 Some lung cancers,

NOTE Confidence: 0.859610875

00:16:31.286 --> 00:16:34.196 particularly more advanced lung cancers,

NOTE Confidence: 0.859610875

00:16:34.200 --> 00:16:36.130 that that may involve lymph

NOTE Confidence: 0.859610875

00:16:36.130 --> 00:16:37.674 nodes in the chest.

NOTE Confidence: 0.859610875

00:16:37.680 --> 00:16:40.452 Doing an MRI of the brain and

NOTE Confidence: 0.859610875

00:16:40.452 --> 00:16:42.223 following diagnosis is generally

NOTE Confidence: 0.859610875

00:16:42.223 --> 00:16:43.972 appropriate and recommended,

NOTE Confidence: 0.859610875

00:16:43.972 --> 00:16:47.470 and with other cancers like Melanoma.

NOTE Confidence: 0.859610875

00:16:47.470 --> 00:16:49.294 When when they're diagnosed,

NOTE Confidence: 0.859610875

00:16:49.294 --> 00:16:52.716 brain scan also is part of the it's

NOTE Confidence: 0.859610875

00:16:52.716 --> 00:16:54.446 called the staging evaluation and

NOTE Confidence: 0.859610875

00:16:54.446 --> 00:16:57.050 doing a like a evaluation to find

NOTE Confidence: 0.859610875

00:16:57.050 --> 00:16:59.354 where could this cancer have gone.

NOTE Confidence: 0.8699840775

00:16:59.490 --> 00:17:02.184 But in other cancers like breast

NOTE Confidence: 0.8699840775

00:17:02.184 --> 00:17:05.029 cancer and colon cancer for example,

NOTE Confidence: 0.8699840775

00:17:05.030 --> 00:17:07.130 it's not done routinely. Is that right?

NOTE Confidence: 0.63400685

00:17:07.990 --> 00:17:10.690 That is correct.

NOTE Confidence: 0.63400685

00:17:10.690 --> 00:17:12.470 Believe the majority of breast

NOTE Confidence: 0.63400685

00:17:12.470 --> 00:17:14.740 cancers are localized in one breast,

NOTE Confidence: 0.63400685

00:17:14.740 --> 00:17:17.128 they can be fortunately cured with

NOTE Confidence: 0.63400685

00:17:17.128 --> 00:17:19.813 surgery or does with surgery followed

NOTE Confidence: 0.63400685

00:17:19.813 --> 00:17:22.348 by radiation or other therapies.

NOTE Confidence: 0.63400685

00:17:22.350 --> 00:17:24.394 And in the these patients the chance

NOTE Confidence: 0.63400685

00:17:24.394 --> 00:17:26.854 of a brain of tasks is felt to

NOTE Confidence: 0.63400685

00:17:26.854 --> 00:17:29.062 be sufficiently low that doing a

NOTE Confidence: 0.63400685

00:17:29.062 --> 00:17:32.534 screening brain MRI is not part of

NOTE Confidence: 0.63400685

00:17:32.534 --> 00:17:34.692 the these kind of guidelines for for

NOTE Confidence: 0.63400685

00:17:34.692 --> 00:17:36.510 evaluation at the time of diagnosis.

NOTE Confidence: 0.827689154

00:17:37.470 --> 00:17:41.196 And so for patients who, you know,

NOTE Confidence: 0.827689154

00:17:41.196 --> 00:17:44.820 have a cancer and either due to symptoms

NOTE Confidence: 0.827689154

00:17:44.912 --> 00:17:48.036 or due to routine screening, have an

NOTE Confidence: 0.827689154

00:17:48.036 --> 00:17:50.650 MRI of the brain and a lesion lights up.

NOTE Confidence: 0.827689154

00:17:50.650 --> 00:17:53.550 Presumably that would be

NOTE Confidence: 0.827689154

00:17:53.550 --> 00:17:56.450 suspicious for a metastasis.

NOTE Confidence: 0.827689154

00:17:56.450 --> 00:17:58.230 So what's the next step?

NOTE Confidence: 0.827689154

00:17:58.230 --> 00:18:00.576 Do these patients routinely get a

NOTE Confidence: 0.827689154

00:18:00.576 --> 00:18:03.003 biopsy of their brain to determine

NOTE Confidence: 0.827689154

00:18:03.003 --> 00:18:05.768 whether that is in fact a metastasis?

NOTE Confidence: 0.827689154

00:18:05.770 --> 00:18:07.530 Or are they treated?

NOTE Confidence: 0.827689154

00:18:07.530 --> 00:18:10.760 On spec or how does that work?

NOTE Confidence: 0.7612195156

00:18:11.200 --> 00:18:14.819 Yep, so I work closely with my

NOTE Confidence: 0.7612195156

00:18:14.819 --> 00:18:16.370 medical oncology colleagues.

NOTE Confidence: 0.7612195156

00:18:16.370 --> 00:18:20.226 And if a patient that they're treating for,

NOTE Confidence: 0.7612195156

00:18:20.230 --> 00:18:24.118 say, breast cancer, develops.

NOTE Confidence: 0.7612195156

00:18:24.120 --> 00:18:26.770 Increasing headaches and had never

NOTE Confidence: 0.7612195156

00:18:26.770 --> 00:18:29.420 had headaches before and dizziness

NOTE Confidence: 0.7612195156

00:18:29.420 --> 00:18:31.328 or other neurological symptoms.

NOTE Confidence: 0.7612195156

00:18:31.328 --> 00:18:33.236 Their medical oncologists can

NOTE Confidence: 0.7612195156

00:18:33.236 --> 00:18:35.792 order an MRI at that time to

NOTE Confidence: 0.7612195156

00:18:35.792 --> 00:18:37.740 evaluate for an issue and then,

NOTE Confidence: 0.7612195156

00:18:37.740 --> 00:18:40.444 if lesions are found,

NOTE Confidence: 0.7612195156

00:18:40.444 --> 00:18:43.176 they would refer the patient to

NOTE Confidence: 0.7612195156

00:18:43.176 --> 00:18:45.695 me for a consultation and it can

NOTE Confidence: 0.7612195156

00:18:45.695 --> 00:18:47.969 review the situation in the scan

NOTE Confidence: 0.7612195156

00:18:47.969 --> 00:18:50.380 and typically for brain metastasis.

NOTE Confidence: 0.7612195156

00:18:50.380 --> 00:18:53.218 We actually can avoid a biopsy.

NOTE Confidence: 0.7612195156

00:18:53.220 --> 00:18:55.145 Imaging can be consistent with

NOTE Confidence: 0.7612195156

00:18:55.145 --> 00:18:55.915 that diagnosis,

NOTE Confidence: 0.7612195156

00:18:55.920 --> 00:18:58.875 and patients can be treated with

NOTE Confidence: 0.7612195156

00:18:58.875 --> 00:19:01.415 some radiation therapy strategies

NOTE Confidence: 0.7612195156

00:19:01.415 --> 00:19:05.700 and that can control the metastasis

NOTE Confidence: 0.7612195156

00:19:05.700 --> 00:19:07.884 and the patient can kind of just

NOTE Confidence: 0.7612195156

00:19:07.884 --> 00:19:09.909 continue on with their treatment.

NOTE Confidence: 0.7612195156

00:19:09.910 --> 00:19:11.404 At that point,

NOTE Confidence: 0.7612195156

00:19:11.404 --> 00:19:13.396 there's radiation therapies are

NOTE Confidence: 0.7612195156

00:19:13.396 --> 00:19:15.404 performed by radiation oncologists

NOTE Confidence: 0.7612195156

00:19:15.404 --> 00:19:17.136 and in some cases,

NOTE Confidence: 0.7612195156

00:19:17.140 --> 00:19:19.520 neurosurgeons who used advanced

NOTE Confidence: 0.7612195156

00:19:19.520 --> 00:19:20.710 radiation technologies.

NOTE Confidence: 0.7612195156

00:19:20.710 --> 00:19:22.260 Like the Gamma knife machine

NOTE Confidence: 0.796512669666667

00:19:23.290 --> 00:19:26.580 and so so certainly radiation is 1

NOTE Confidence: 0.796512669666667

00:19:26.580 --> 00:19:29.619 modality to treat brain metastases.

NOTE Confidence: 0.796512669666667

00:19:29.620 --> 00:19:32.205 Oftentimes when we think about

NOTE Confidence: 0.796512669666667

00:19:32.205 --> 00:19:34.790 metastases in general for cancers,

NOTE Confidence: 0.796512669666667

00:19:34.790 --> 00:19:38.241 we think about more systemic kind of

NOTE Confidence: 0.796512669666667

00:19:38.241 --> 00:19:41.110 therapies like chemotherapy or immunotherapy,

NOTE Confidence: 0.796512669666667

00:19:41.110 --> 00:19:43.530 or even other targeted therapies.

NOTE Confidence: 0.796512669666667

00:19:43.530 --> 00:19:45.588 So, for example, in breast cancer,

NOTE Confidence: 0.796512669666667

00:19:45.590 --> 00:19:48.266 we might think about endocrine therapy,

NOTE Confidence: 0.796512669666667

00:19:48.270 --> 00:19:51.120 but in terms of managing.

NOTE Confidence: 0.796512669666667

00:19:51.120 --> 00:19:53.236 Brain metastases sometimes these

NOTE Confidence: 0.796512669666667

00:19:53.236 --> 00:19:56.410 systemic therapies are not as effective

NOTE Confidence: 0.796512669666667

00:19:56.487 --> 00:19:59.055 because of the blood brain barrier.

NOTE Confidence: 0.796512669666667

00:19:59.060 --> 00:20:01.252 Can you talk a little bit more about

NOTE Confidence: 0.796512669666667

00:20:01.252 --> 00:20:02.975 that and potentially strategies and

NOTE Confidence: 0.796512669666667

00:20:02.975 --> 00:20:05.572 newer agents that might be able to

NOTE Confidence: 0.796512669666667

00:20:05.637 --> 00:20:07.827 cross that bloodbane barrier better?

NOTE Confidence: 0.884998918181818

00:20:08.520 --> 00:20:11.530 Right, the blood brain barrier is a

NOTE Confidence: 0.884998918181818

00:20:11.530 --> 00:20:13.842 mechanism that developed to prevent

NOTE Confidence: 0.884998918181818

00:20:13.842 --> 00:20:16.207 toxic molecules from crossing from

NOTE Confidence: 0.884998918181818

00:20:16.207 --> 00:20:18.419 the bloodstream into the brain.

NOTE Confidence: 0.884998918181818

00:20:18.420 --> 00:20:20.868 And so it was good for

NOTE Confidence: 0.884998918181818

00:20:20.868 --> 00:20:22.500 evolution and brain health.

NOTE Confidence: 0.884998918181818

00:20:22.500 --> 00:20:24.770 But it makes it challenging

NOTE Confidence: 0.884998918181818

00:20:24.770 --> 00:20:26.586 to treat brain metastasis.

NOTE Confidence: 0.884998918181818

00:20:26.590 --> 00:20:28.410 Fortunately, over the last decade,

NOTE Confidence: 0.884998918181818

00:20:28.410 --> 00:20:30.330 there's really been tremendous

NOTE Confidence: 0.884998918181818

00:20:30.330 --> 00:20:33.145 progress in the development of new

NOTE Confidence: 0.884998918181818

00:20:33.145 --> 00:20:35.480 drugs to treat systemic cancers,

NOTE Confidence: 0.884998918181818

00:20:35.480 --> 00:20:37.520 and some of these drugs can

NOTE Confidence: 0.884998918181818

00:20:37.520 --> 00:20:39.510 cross the blood brain barrier.

NOTE Confidence: 0.884998918181818

00:20:39.510 --> 00:20:41.103 Both molecular drugs,

NOTE Confidence: 0.884998918181818

00:20:41.103 --> 00:20:43.227 particularly for some subtypes

NOTE Confidence: 0.884998918181818

00:20:43.227 --> 00:20:46.329 of lung cancer and immunotherapy,

NOTE Confidence: 0.884998918181818

00:20:46.330 --> 00:20:49.234 also can be highly effective for

NOTE Confidence: 0.884998918181818

00:20:49.234 --> 00:20:51.922 some patients affected by brain

NOTE Confidence: 0.884998918181818

00:20:51.922 --> 00:20:54.300 metastasis with cancer types

NOTE Confidence: 0.884998918181818

00:20:54.300 --> 00:20:57.150 like lung cancer on Melanoma.

NOTE Confidence: 0.884998918181818

00:20:57.150 --> 00:20:59.238 So being in in the field and in

NOTE Confidence: 0.884998918181818

00:20:59.238 --> 00:21:00.874 practice it's really been exciting

NOTE Confidence: 0.884998918181818

00:21:00.874 --> 00:21:02.968 for me to see these developments.

NOTE Confidence: 0.884998918181818

00:21:02.970 --> 00:21:06.218 And now we have some medical options to

NOTE Confidence: 0.884998918181818

00:21:06.218 --> 00:21:08.769 treat patients with brain metastasis.

NOTE Confidence: 0.884998918181818

00:21:08.770 --> 00:21:11.451 Whereas about 10 years ago the options

NOTE Confidence: 0.884998918181818

00:21:11.451 --> 00:21:14.638 really were just radiation or a surgery.

NOTE Confidence: 0.869495909

00:21:15.930 --> 00:21:19.182 And so when a patient is

NOTE Confidence: 0.869495909

00:21:19.182 --> 00:21:21.350 diagnosed with brain metastases,

NOTE Confidence: 0.869495909

00:21:21.350 --> 00:21:22.538 what's their prognosis?

NOTE Confidence: 0.869495909

00:21:22.538 --> 00:21:25.310 Because I can imagine that many patients

NOTE Confidence: 0.869495909

00:21:25.373 --> 00:21:28.034 may be thinking to themselves, you know,

NOTE Confidence: 0.869495909

00:21:28.034 --> 00:21:31.250 is it worth it to have more treatment

NOTE Confidence: 0.869495909

00:21:31.344 --> 00:21:34.724 to have potentially chemotherapy or

NOTE Confidence: 0.869495909

00:21:34.724 --> 00:21:37.800 immunotherapy and radiation therapy if

NOTE Confidence: 0.869495909

00:21:37.800 --> 00:21:40.390 the prognosis is going to be dismal?

NOTE Confidence: 0.869495909

00:21:40.390 --> 00:21:42.672 Can you talk a little bit about

NOTE Confidence: 0.869495909

00:21:42.672 --> 00:21:44.594 what the implications of a brain

NOTE Confidence: 0.869495909

00:21:44.594 --> 00:21:46.054 metastases are in terms of?

NOTE Confidence: 0.869495909

00:21:46.060 --> 00:21:47.508 Diagnosis and has that

NOTE Confidence: 0.869495909

00:21:47.508 --> 00:21:48.956 changed in recent years?

NOTE Confidence: 0.821990775

00:21:49.530 --> 00:21:52.668 Well, I believe it has definitely

NOTE Confidence: 0.821990775

00:21:52.668 --> 00:21:54.760 changed and it's improved.

NOTE Confidence: 0.821990775

00:21:54.760 --> 00:21:56.308 Pretty significantly for

NOTE Confidence: 0.821990775

00:21:56.308 --> 00:21:57.711 some patients, really,

NOTE Confidence: 0.821990775

00:21:57.711 --> 00:22:00.679 it depends on the cancer type and then.

NOTE Confidence: 0.821990775

00:22:00.680 --> 00:22:02.309 Really cancer subtype.

NOTE Confidence: 0.821990775

00:22:02.309 --> 00:22:05.024 Is there potentially effective therapy

NOTE Confidence: 0.821990775

00:22:05.024 --> 00:22:08.516 for this cancer subtype and what's the?

NOTE Confidence: 0.821990775

00:22:08.520 --> 00:22:10.100 The amount of brain metastasis,

NOTE Confidence: 0.821990775

00:22:10.100 --> 00:22:11.696 or the burden of brain metastasis,

NOTE Confidence: 0.821990775

00:22:11.700 --> 00:22:15.192 is there only one lesion or a few lesions,

NOTE Confidence: 0.821990775

00:22:15.200 --> 00:22:18.218 or is there a numerous lesions,

NOTE Confidence: 0.821990775

00:22:18.220 --> 00:22:22.994 and so if a patient has a.

NOTE Confidence: 0.821990775

00:22:23.000 --> 00:22:25.275 Type of lung cancer that can be

NOTE Confidence: 0.821990775

00:22:25.275 --> 00:22:26.680 responsive to certain drugs.

NOTE Confidence: 0.821990775

00:22:26.680 --> 00:22:28.280 What's called Osimertinib for

NOTE Confidence: 0.821990775

00:22:28.280 --> 00:22:30.680 a subtype of of lung cancer.

NOTE Confidence: 0.821990775

00:22:30.680 --> 00:22:32.705 This has activity against brain

NOTE Confidence: 0.821990775

00:22:32.705 --> 00:22:35.526 metastasis and patients who may be able

NOTE Confidence: 0.821990775

00:22:35.526 --> 00:22:38.064 to actually continue living for years with,

NOTE Confidence: 0.821990775

00:22:38.064 --> 00:22:39.520 you know with this.

NOTE Confidence: 0.821990775

00:22:39.520 --> 00:22:41.260 With this treatment for them.

NOTE Confidence: 0.821990775

00:22:41.260 --> 00:22:42.892 Whereas in the past,

NOTE Confidence: 0.821990775

00:22:42.892 --> 00:22:45.680 when these drugs haven't been developed yet,

NOTE Confidence: 0.821990775

00:22:45.680 --> 00:22:47.352 the outlook was considerably

NOTE Confidence: 0.821990775

00:22:47.352 --> 00:22:49.024 worse for these patients.

NOTE Confidence: 0.85295849

00:22:50.560 --> 00:22:52.996 And are there exciting clinical trials

NOTE Confidence: 0.85295849

00:22:52.996 --> 00:22:56.140 ongoing now that are looking at novel

NOTE Confidence: 0.85295849

00:22:56.140 --> 00:22:58.068 treatments for brain metastases?

NOTE Confidence: 0.85295849

00:22:58.070 --> 00:22:59.158 What's on the horizon?

NOTE Confidence: 0.921942613333333

00:23:00.250 --> 00:23:03.085 It has been exciting to see a lot of

NOTE Confidence: 0.921942613333333

00:23:03.085 --> 00:23:05.566 new drugs coming into development

NOTE Confidence: 0.921942613333333

00:23:05.566 --> 00:23:08.976 and a renewed or really just a

NOTE Confidence: 0.921942613333333

00:23:08.976 --> 00:23:12.479 new focus on brain metastasis and

NOTE Confidence: 0.921942613333333

00:23:12.479 --> 00:23:16.144 CNS disease by investigators and.

NOTE Confidence: 0.921942613333333

00:23:16.150 --> 00:23:18.006 Companies trying to develop

NOTE Confidence: 0.921942613333333

00:23:18.006 --> 00:23:19.398 these novel treatments.

NOTE Confidence: 0.921942613333333

00:23:19.400 --> 00:23:20.768 Think in the past.

NOTE Confidence: 0.921942613333333

00:23:20.768 --> 00:23:22.820 Brain tumors were felt to be

NOTE Confidence: 0.921942613333333

00:23:22.897 --> 00:23:25.255 difficult to treat and in a

NOTE Confidence: 0.921942613333333

00:23:25.255 --> 00:23:27.340 difficult area to research there.

NOTE Confidence: 0.921942613333333

00:23:27.340 --> 00:23:29.484 There wasn't as as much interest in treating,

NOTE Confidence: 0.921942613333333

00:23:29.490 --> 00:23:30.742 but that's really changed

NOTE Confidence: 0.921942613333333

00:23:30.742 --> 00:23:32.307 over the last several years,

NOTE Confidence: 0.921942613333333

00:23:32.310 --> 00:23:36.070 and there's a number of of drugs in

NOTE Confidence: 0.921942613333333

00:23:36.070 --> 00:23:38.550 development for all various types of cancers,

NOTE Confidence: 0.921942613333333

00:23:38.550 --> 00:23:41.826 including primary brain tumors and gliomas.

NOTE Confidence: 0.921942613333333

00:23:41.830 --> 00:23:43.566 Looking at ways to try to fight,

NOTE Confidence: 0.921942613333333

00:23:43.570 --> 00:23:45.394 fight these cancers and to improve

NOTE Confidence: 0.921942613333333

00:23:45.394 --> 00:23:46.960 the survival time and quality

NOTE Confidence: 0.921942613333333

00:23:46.960 --> 00:23:48.410 of life for the patients

NOTE Confidence: 0.906375358571429

00:23:49.090 --> 00:23:50.924 you know. Speaking of quality of life,

NOTE Confidence: 0.906375358571429

00:23:50.930 --> 00:23:52.970 that's another question that I had.

NOTE Confidence: 0.906375358571429

00:23:52.970 --> 00:23:54.896 Whether you have a primary brain

NOTE Confidence: 0.906375358571429

00:23:54.896 --> 00:23:56.969 tumor or a secondary brain tumor,

NOTE Confidence: 0.906375358571429

00:23:56.970 --> 00:23:59.872 one can imagine that the toxicity

NOTE Confidence: 0.906375358571429

00:23:59.872 --> 00:24:02.164 of the regimens that you're given,

NOTE Confidence: 0.906375358571429

00:24:02.170 --> 00:24:04.400 whether it's radiation therapy or

NOTE Confidence: 0.906375358571429

00:24:04.400 --> 00:24:06.490 chemotherapy, can have side effects.

NOTE Confidence: 0.906375358571429

00:24:06.490 --> 00:24:09.430 Whether it's you know swelling in the

NOTE Confidence: 0.906375358571429

00:24:09.430 --> 00:24:11.818 brain that can cause other issues.

NOTE Confidence: 0.906375358571429

00:24:11.820 --> 00:24:14.270 Whether it's fatigue, other things,

NOTE Confidence: 0.906375358571429

00:24:14.270 --> 00:24:17.438 can you talk a little bit about the side

NOTE Confidence: 0.906375358571429

00:24:17.438 --> 00:24:19.887 effects of treatment and some of the

NOTE Confidence: 0.906375358571429

00:24:19.887 --> 00:24:22.296 ways that you and a multidisciplinary

NOTE Confidence: 0.906375358571429

00:24:22.296 --> 00:24:25.242 team kind of help patients through

NOTE Confidence: 0.906375358571429

00:24:25.242 --> 00:24:27.060 treatment of brain cancers?

NOTE Confidence: 0.639972148

00:24:27.890 --> 00:24:30.570 For treatment of my patients,

NOTE Confidence: 0.639972148

00:24:30.570 --> 00:24:32.225 I'm always considering a person's

NOTE Confidence: 0.639972148

00:24:32.225 --> 00:24:34.304 quality of life and the impacts

NOTE Confidence: 0.639972148

00:24:34.304 --> 00:24:36.446 that treatments would have on them.

NOTE Confidence: 0.639972148

00:24:36.450 --> 00:24:40.725 And it sometimes can be a balancing act over.

NOTE Confidence: 0.639972148

00:24:40.730 --> 00:24:42.680 What may be an effective treatment

NOTE Confidence: 0.639972148

00:24:42.680 --> 00:24:44.330 to lengthen a person's life?

NOTE Confidence: 0.639972148

00:24:44.330 --> 00:24:45.210 But on the flip side,

NOTE Confidence: 0.639972148

00:24:45.210 --> 00:24:46.630 what kind of adverse side

NOTE Confidence: 0.639972148

00:24:46.630 --> 00:24:47.766 effects could this cause?

NOTE Confidence: 0.639972148

00:24:47.770 --> 00:24:50.129 And this is really leads to treatment

NOTE Confidence: 0.639972148

00:24:50.129 --> 00:24:52.263 needing to be individualized for

NOTE Confidence: 0.639972148

00:24:52.263 --> 00:24:54.381 every single patient, then,

NOTE Confidence: 0.639972148

00:24:54.381 --> 00:24:57.036 particularly with primary brain tumors.

NOTE Confidence: 0.639972148

00:24:57.040 --> 00:25:00.556 Really look at an individual patient.

NOTE Confidence: 0.639972148

00:25:00.560 --> 00:25:03.480 And try to discuss with them what I

NOTE Confidence: 0.639972148

00:25:03.480 --> 00:25:06.215 think would be really the optimal

NOTE Confidence: 0.639972148

00:25:06.215 --> 00:25:08.420 treatment to achieve to achieve what

NOTE Confidence: 0.639972148

00:25:08.420 --> 00:25:11.064 their outcomes are and and folks even

NOTE Confidence: 0.639972148

00:25:11.064 --> 00:25:13.199 can have different perspectives on,

NOTE Confidence: 0.639972148

00:25:13.200 --> 00:25:15.544 you know they're what they perceive to be

NOTE Confidence: 0.639972148

00:25:15.544 --> 00:25:17.677 their quality of life and versus survival,

NOTE Confidence: 0.639972148

00:25:17.680 --> 00:25:18.698 survival time.

NOTE Confidence: 0.639972148

00:25:18.698 --> 00:25:19.716 And again,

NOTE Confidence: 0.639972148

00:25:19.716 --> 00:25:22.261 it's an individual conversation and

NOTE Confidence: 0.639972148

00:25:22.261 --> 00:25:25.388 with the team I work closely with a

NOTE Confidence: 0.639972148

00:25:25.388 --> 00:25:27.679 colleagues in in different disciplines

NOTE Confidence: 0.639972148

00:25:27.679 --> 00:25:30.484 and and everyone is instrumental in

NOTE Confidence: 0.639972148

00:25:30.484 --> 00:25:33.010 the optimal management of brain tumor.

NOTE Confidence: 0.639972148

00:25:33.010 --> 00:25:35.850 The other specialists include neurosurgeons,

NOTE Confidence: 0.639972148

00:25:35.850 --> 00:25:37.650 radiation oncologists,

NOTE Confidence: 0.639972148

00:25:37.650 --> 00:25:40.350 pathologists and radiologists,

NOTE Confidence: 0.639972148

00:25:40.350 --> 00:25:42.270 and.

NOTE Confidence: 0.639972148

00:25:42.270 --> 00:25:44.235 We have frequent meetings to

NOTE Confidence: 0.639972148

00:25:44.235 --> 00:25:46.663 review patient cases and come up

NOTE Confidence: 0.639972148

00:25:46.663 --> 00:25:48.598 with an optimal treatment approach

NOTE Confidence: 0.639972148

00:25:48.598 --> 00:25:51.402 for a patient based on all of

NOTE Confidence: 0.639972148

00:25:51.402 --> 00:25:52.590 our collective expertise.

NOTE Confidence: 0.885495876333333

00:25:53.900 --> 00:25:56.000 You know one of the things that

NOTE Confidence: 0.885495876333333

00:25:56.000 --> 00:25:58.536 comes up in this show routinely time

NOTE Confidence: 0.885495876333333

00:25:58.536 --> 00:26:01.426 after time is this concept that you

NOTE Confidence: 0.885495876333333

00:26:01.426 --> 00:26:03.322 mentioned of really personalizing

NOTE Confidence: 0.885495876333333

00:26:03.322 --> 00:26:05.692 care to an individual patient,

NOTE Confidence: 0.885495876333333

00:26:05.700 --> 00:26:08.724 and a lot of that seems to be really

NOTE Confidence: 0.885495876333333

00:26:08.724 --> 00:26:11.874 driven by this explosion in genomics

NOTE Confidence: 0.885495876333333

00:26:11.874 --> 00:26:14.062 and understanding genetic mutations

NOTE Confidence: 0.885495876333333

00:26:14.062 --> 00:26:16.720 that can cause various cancers.

NOTE Confidence: 0.885495876333333

00:26:16.720 --> 00:26:19.810 When we think about primary brain

NOTE Confidence: 0.885495876333333

00:26:19.810 --> 00:26:22.521 cancers and even secondary brain

NOTE Confidence: 0.885495876333333

00:26:22.521 --> 00:26:24.070 cancers tell us a little bit.

NOTE Confidence: 0.885495876333333

00:26:24.070 --> 00:26:26.515 About how genomics or mutational

NOTE Confidence: 0.885495876333333

00:26:26.515 --> 00:26:28.960 analysis of these tumors helps

NOTE Confidence: 0.885495876333333

00:26:29.039 --> 00:26:30.980 to individualize therapy.

NOTE Confidence: 0.885495876333333

00:26:30.980 --> 00:26:32.786 Is that something that's commonly done?

NOTE Confidence: 0.879124102307692

00:26:33.570 --> 00:26:35.730 It is commonly done.

NOTE Confidence: 0.879124102307692

00:26:35.730 --> 00:26:37.890 We consider that essentially

NOTE Confidence: 0.879124102307692

00:26:37.890 --> 00:26:40.208 standard of Care now and.

NOTE Confidence: 0.879124102307692

00:26:40.210 --> 00:26:43.852 There are different subtypes of Glioblastoma

NOTE Confidence: 0.879124102307692

00:26:43.852 --> 00:26:47.185 1 main differentiation being the status

NOTE Confidence: 0.879124102307692

00:26:47.185 --> 00:26:50.441 of an enzyme called the N MGMT enzyme.

NOTE Confidence: 0.879124102307692

00:26:50.450 --> 00:26:53.411 And now we've been able to develop

NOTE Confidence: 0.879124102307692

00:26:53.411 --> 00:26:55.629 these various subgroups of patients.

NOTE Confidence: 0.879124102307692

00:26:55.630 --> 00:26:57.960 And are trying to develop.

NOTE Confidence: 0.879124102307692

00:26:57.960 --> 00:27:01.192 New treatment strategies. Unfortunately,

NOTE Confidence: 0.879124102307692

00:27:01.192 --> 00:27:03.560 there this is all still in development.

NOTE Confidence: 0.879124102307692

00:27:03.560 --> 00:27:06.528 There really has been no breakthrough yet for

NOTE Confidence: 0.879124102307692

00:27:06.528 --> 00:27:08.769 various subtypes of primary brain tumors.

NOTE Confidence: 0.879124102307692

00:27:08.770 --> 00:27:11.630 Uh, but with other cancers

NOTE Confidence: 0.879124102307692

00:27:11.630 --> 00:27:15.300 like lung cancer in particular.

NOTE Confidence: 0.879124102307692

00:27:15.300 --> 00:27:17.640 This strategy was looking, you know,

NOTE Confidence: 0.879124102307692

00:27:17.640 --> 00:27:19.880 was evaluated evolved several years

NOTE Confidence: 0.879124102307692

00:27:19.880 --> 00:27:22.505 ago and now various subtypes of

NOTE Confidence: 0.879124102307692

00:27:22.505 --> 00:27:24.710 of lung cancers such as the ALK

NOTE Confidence: 0.879124102307692

00:27:24.710 --> 00:27:27.182 mutated or alpha mutated lung cancer

NOTE Confidence: 0.879124102307692

00:27:27.182 --> 00:27:29.397 has its own targeted therapies.

NOTE Confidence: 0.879124102307692

00:27:29.400 --> 00:27:31.650 These can cross the blood brain

NOTE Confidence: 0.879124102307692

00:27:31.650 --> 00:27:33.866 barrier and and be highly effective

NOTE Confidence: 0.879124102307692

00:27:33.866 --> 00:27:35.676 at controlling all commutative lung

NOTE Confidence: 0.879124102307692

00:27:35.676 --> 00:27:37.429 cancer that affects the brain.

NOTE Confidence: 0.879124102307692

00:27:37.430 --> 00:27:39.796 So I'm hopeful that we'll get there

NOTE Confidence: 0.879124102307692

00:27:39.796 --> 00:27:41.509 with glioblastoma treatment over the

NOTE Confidence: 0.879124102307692

00:27:41.509 --> 00:27:43.763 next 10 years because I've seen these

NOTE Confidence: 0.879124102307692

00:27:43.763 --> 00:27:45.478 breakthroughs occur in in other cancer.

NOTE Confidence: 0.879124102307692

00:27:45.480 --> 00:27:47.489 IES, and that's been great to see.

NOTE Confidence: 0.924136628

00:27:47.910 --> 00:27:51.600 You know the other question that a lot

NOTE Confidence: 0.924136628

00:27:51.600 --> 00:27:54.550 of patients could ask is, you know,

NOTE Confidence: 0.924136628

00:27:54.550 --> 00:27:57.374 was there anything that I did that could

NOTE Confidence: 0.924136628

00:27:57.374 --> 00:27:59.884 cause this brain tumor or anything that

NOTE Confidence: 0.924136628

00:27:59.884 --> 00:28:02.589 I could do to prevent brain tumors?

NOTE Confidence: 0.924136628

00:28:02.590 --> 00:28:05.103 You know, we all hear about doing

NOTE Confidence: 0.924136628

00:28:05.103 --> 00:28:07.301 crossword puzzles and keeping your brain

NOTE Confidence: 0.924136628

00:28:07.301 --> 00:28:09.765 active to try to stay off dementia,

NOTE Confidence: 0.924136628

00:28:09.770 --> 00:28:12.623 but is there anything that we can do to

NOTE Confidence: 0.924136628

00:28:12.623 --> 00:28:15.574 kind of help mitigate against brain tumors?

NOTE Confidence: 0.924136628

00:28:15.574 --> 00:28:18.458 Or the toxicity of brain tumor treatment.

NOTE Confidence: 0.894108897142857

00:28:19.270 --> 00:28:21.438 I was just having a conversation with a

NOTE Confidence: 0.894108897142857

00:28:21.438 --> 00:28:23.945 patient of mine yesterday about this and.

NOTE Confidence: 0.894108897142857

00:28:23.945 --> 00:28:26.224 Was wondering like how how did I

NOTE Confidence: 0.894108897142857

00:28:26.224 --> 00:28:28.349 get this and the truth is that.

NOTE Confidence: 0.894108897142857

00:28:28.350 --> 00:28:30.569 For the vast, vast majority of people,

NOTE Confidence: 0.894108897142857

00:28:30.570 --> 00:28:32.280 their brain tumors are just sporadic.

NOTE Confidence: 0.923537306875

00:28:32.950 --> 00:28:35.422 Doctor Nicholas Blondin is an assistant

NOTE Confidence: 0.923537306875

00:28:35.422 --> 00:28:37.070 professor of clinical neurology

NOTE Confidence: 0.923537306875

00:28:37.130 --> 00:28:38.930 at the Yale School of Medicine.

NOTE Confidence: 0.923537306875

00:28:38.930 --> 00:28:40.998 If you have questions,

NOTE Confidence: 0.923537306875

00:28:40.998 --> 00:28:43.016 the address is canceranswers@yale.edu

NOTE Confidence: 0.923537306875

00:28:43.016 --> 00:28:45.812 and past editions of the program

NOTE Confidence: 0.923537306875

00:28:45.812 --> 00:28:48.252 are available in audio and written

NOTE Confidence: 0.923537306875

00:28:48.252 --> 00:28:49.205 form at yalecancercenter.org.

NOTE Confidence: 0.923537306875

00:28:49.205 --> 00:28:51.645 We hope you'll join us next week to

NOTE Confidence: 0.923537306875

00:28:51.645 --> 00:28:53.513 learn more about the fight against

NOTE Confidence: 0.923537306875

00:28:53.513 --> 00:28:55.310 cancer here on Connecticut Public radio

NOTE Confidence: 0.923537306875

00:28:55.310 --> 00:28:57.722 funding for Yale Cancer Answers is

NOTE Confidence: 0.923537306875

00:28:57.722 --> 00:29:00.000 provided by Smilow Cancer Hospital.