I think we can get started. It is 602. So hello and welcome to the first annual Susan Barris MD CME events for Brain Tumor Symposium. It’s really an exciting way to kick off the brain Tumor Awareness Month of May. And, of course, we could not have done tonight. I might as well just start by thanking Renee, got it for her unbelievable organization of the evening, so thank you. Immediately to her to my panelists who are here, of course, who will introduce as they start their talks and to Chris Cassano,
NOTE Confidence: 0.85384655
00:00:39.240 --> 00:00:41.484 who is the President of Connecticut
NOTE Confidence: 0.85384655
00:00:41.484 --> 00:00:42.606 Brain Tumor Alliance,
NOTE Confidence: 0.85384655
00:00:42.610 --> 00:00:45.102 who has been a huge supporter of
NOTE Confidence: 0.85384655
00:00:45.102 --> 00:00:46.607 brain tumor patients throughout
NOTE Confidence: 0.85384655
00:00:46.607 --> 00:00:48.821 the state of Connecticut of our
NOTE Confidence: 0.85384655
00:00:48.821 --> 00:00:51.210 work here at yelling at Smilow.
NOTE Confidence: 0.85384655
00:00:51.210 --> 00:00:53.454 And it's really great to partner
NOTE Confidence: 0.85384655
00:00:53.454 --> 00:00:55.698 in this event tonight, so Chris,
NOTE Confidence: 0.85384655
00:00:55.698 --> 00:00:58.690 if you want to say a few words,
NOTE Confidence: 0.8109805
00:00:58.690 --> 00:01:01.078 sure, thank you. Doctor Moliterno and.
NOTE Confidence: 0.8109805
00:01:01.080 --> 00:01:03.016 Other panelists and when they bring
NOTE Confidence: 0.8109805
00:01:03.016 --> 00:01:04.956 us together and at first doctors
NOTE Confidence: 0.8109805
00:01:04.956 --> 00:01:06.896 to see parents for the first
NOTE Confidence: 0.8109805
00:01:06.896 --> 00:01:08.201 annual Susie Breast Symposium,
NOTE Confidence: 0.8109805
00:01:08.201 --> 00:01:09.836 I'm looking forward to being
NOTE Confidence: 0.8109805

2
00:01:09.836 --> 00:01:12.062 part of this night and, you know,
NOTE Confidence: 0.8109805
00:01:12.062 --> 00:01:14.325 sharing are more about our organization with
NOTE Confidence: 0.8109805
00:01:14.325 --> 00:01:16.584 all the branches are pasted family stuff,
NOTE Confidence: 0.8109805
00:01:16.584 --> 00:01:18.169 but again, we’re excited.
NOTE Confidence: 0.8109805
00:01:18.169 --> 00:01:20.739 We’re happy we want to be a part
NOTE Confidence: 0.8109805
00:01:20.739 --> 00:01:22.617 of your journey with you and
NOTE Confidence: 0.8109805
00:01:22.617 --> 00:01:24.340 just know that we’re here.
NOTE Confidence: 0.8109805
00:01:24.340 --> 00:01:25.950 We’re all patients and survivors,
NOTE Confidence: 0.8109805
00:01:25.950 --> 00:01:27.888 caregivers, we’ve been in your shoes.
NOTE Confidence: 0.8109805
00:01:27.890 --> 00:01:28.859 We understand it,
NOTE Confidence: 0.8109805
00:01:28.860 --> 00:01:32.526 and that we’re a phone call or email away so.
NOTE Confidence: 0.8109805
00:01:32.530 --> 00:01:34.586 We’re just really excited to be
NOTE Confidence: 0.8109805
00:01:34.586 --> 00:01:36.650 partnering with GAIL on this presentation,
NOTE Confidence: 0.85380363
00:01:36.650 --> 00:01:39.044 and you know, you’re in your head,
NOTE Confidence: 0.85380363
00:01:39.044 --> 00:01:42.130 so thank you very much looking forward to it.
NOTE Confidence: 0.87366825
00:01:43.260 --> 00:01:46.088 Terrific, thank you again for being here.
Alright so we will start the evening. I'm going to start off by sharing my screen. Can you see my screen? Yeah, OK. Alright.

One second hold on. Started at the wrong part of the talk. OK. So again, thank you for being here.

I want to tell you a little bit about the person who this is named after Doctor Susan Baras. She is a patient of mine, a patient of Nicks and Justin incredible person and survivor. I met her. It'll be 3 1/2 years ago soon knock Wood, which Susie makes me do an an.

I do anyway but she had had
a seizure as a pediatrician.

She was in her office an.

She began talking gibberish to her nurse and then generalized and had a seizure, and this was in the late summer of 2018.

She unfortunately found that she had a glioblastoma and it was in the motor area and as you can see here on the picture on the right.

Susie is an avid fitness fanatic and so she is maintaining her strength.

Of course to anyone is so important, but particularly to her she was seen at an outside hospital and

offered a brain biopsy.

And she knew being a physician herself,
that there could be more aggressive ways to treat glioblastoma even if it involved the motor strip.
So thankfully she was referred to me. We performed an awake craniotomy. She did beautifully and achieved a gross total resection and she went home two days after surgery.
This picture taken at the path of hope of the Connecticut, Connecticut Brain Tumor Alliance a few weeks later as Susie after she ran, not the 5K that it was supposed to be, but the 5K twice so she ran the 10K just a couple of weeks after her awake craniotomy.
So she’s an incredible person. They featured her recently on the cover of medicine at Yale. As she says herself, she was never very philanthropic person. But having a brain tumor really made her become one and she recognized the excellence in care that she received at Yale and that she continues to receive it. Yale and that she continues to receive it. She wanted to make sure that other people could have the same type of care that she did and so we formed this Susan Baras MD fund for the male brain tumor Surgery program. It’s going to fund seminars such as
this for education and collaboration. The community and to enhance patient care throughout the state of Connecticut. In addition, pretty excited. Yesterday was a press release, a children’s book that I wrote. Trump parkers brainstorm when I was medical student and then one that I wrote last year. Parker’s water to ride, which was part of a new series. We published it through the children’s Brain Tumor Foundation illustrations. I had initially done,
but have been redone and done much better than my initial ones were.

By Trisha Group Day and so Susie is foundation are her funds are going towards these publications of these books, as are our friends at me as miracles and Love Mark Foundation, who I’ll talk about a little bit later with these books are being sent and have been sent to kids and children’s hospitals all around the country, so that’s something else that that’s usually has been involved with. So anyway, a very special lady, very special person to me.
And I think you know, this will be the beginning of a really nice series of seminars and lectures to come.

So for me as a neurosurgeon, what I was going to focus on, which is what my practices is primary brain tumor, surgical strategies and give that overview. And then we'll segue into neuron koleji radiation oncology and then supportive care. So what we do here at Yale is really in terms of our brain tumor practice. We have the highest volume of brain tumor patients in the state of Connecticut, and we perform the most brain
tumor surgeries as well.

We're fortunate to have so many partners in the community, and I'm really proud of the fact that a large part of my practice in particular comes from other neurosurgeons in the community. Other physicians in the community, and across different system hospitals. Which I think really goes to the fact that we're all here to help patients and we're all here to make sure that they receive the best possible care. As a result, the cases that we see and that we take care of tend to be more complex cases,
and so gliomas and eloquent cortex similar to Susie's tumor as well as skull based tumors and more aggressive meningiomas, which I'll talk a little bit about. We're fortunate that every tumor that we biopsy respect at Yale undergoes full exome sequencing and I am the director of the Multidisciplinary Tumor Board and the Precision Brain Tumor Board. And each week we discuss all of our patients and really rely on the precision brain report for making targeted, ANAN more precision care decisions. This is just a sampling of cases.
that I do pretty routinely.

My fellow had pulled my more recent cases and so again,

you know, glioblastomas here. I don’t know if you can see my mouse

And snuggly blastoma again in the motor area. And snuggly blastoma again in the motor area.

Some big CP angle tumors. Some big CP angle tumors.

Other nasty glioblastomas.

Really aggressive meningiomas here

where we then reconstruct the orbit.

Additional again,

so annoyed wing meningiomas.

Brain stem tumors.

This patient down here had been

operated on several other by
several other neurosurgeons and then sought care here and again. Just just a rough example of what we see and do on a pretty regular basis. The goals are primary brain tumor surgery are really quite simple. Of course, one is to establish a diagnosis to help guide further. Therapy is, but really it’s important. A lot of times to respect as much tumor as possible to maintain or improve quality of life. We also know that that it has a huge impact in the overall
survival and progression free

And then I’ll talk about

And then, as Nick will will discuss,

it’s really important for clinical

Because of course,

we all know for for some of the

tumors the treatment does not

stop at just surgery alone.

One thing that I think we have become

really known for is is how do we?

How are we able to remove tumors

that that are otherwise deemed

inoperable like Susie’s an?
I think there’s a few reasons as to why one is we have sub specialized expertise and so all we do day in and day out is brain tumor surgery. I don’t do any other type of surgery except for microvascular decompression which is a type of skull based surgery but beyond that. Everything I do is focused on brain tumor surgery and I think there’s something to be said for doing that literally every single day. What’s more is that we’re subspecialized even based on the type of tumor,
and so for primary brain tumors, which is my focus, Joe Pete Mayer, who’s in the picture with me, has since retired and blend to my, has really stepped in and and has also been doing a lot of primary brain tumor surgeries. But Veronica Chang, as you can see, there is the leader of our metastatic brain tumor surgery. static program and she focuses on metastatic brain tumor surgery. And so I think that that really adds a lot of value because we’re treating the patient. For the the overall cancer or
the overall Uncle logic problem.

There’s other types of things in terms of the resources and infrastructure that’s really important to making neurosurgery successful, and so it’s standard.

You know, everyone has GPS systems. I also tend to use an ultrasound, which gives real time feedback, and you can see there is a picture of me there using the ultrasound, there’s a really large meningioma and there’s the middle cerebral artery that’s black running through it, so having that frame of
reference is always important.
And then the intra operative MRI.
So we’re the only center in the state that has an intra operative MRI really. Actually quite helpful,
and I’ll show an example as to why even when we do these surgeries day in and day out,
it’s really nice when the patients are still on the table to get a quick MRI that shows if there’s any additional tumor that can be removed.
We also have hybrid intra operative angio suite capability is if we need to embolize a tumor and then I think what really goes back to the sub
specialized expertise is the ability to do more sophisticated microsurgery.

And I'll show an example. Those as well, so frequently doing functional mapping, motor mapping, language mapping during awake craniotomy, for instance with Susie for instance, allowed us to safely remove as much tumor as possible while maintaining the function of the brain. And that's what's the goal in those surgeries.

This was a slide that I was given by Bob Carter who's the chair of mass general,
and I think this is a really interesting and good.

Example, this basically shows that patient mortality is lowest for cranial surgery among surgeons who perform cranial surgery the most and more regularly, and I think that really does hold true, particularly for more complex brain tumor surgeries, and certainly having a high volume of cases and doing these surgeries day in and day out, I think really does. Influence outcomes. This was a patient I shared with Nick and I think this is a good example
NOTE Confidence: 0.85618085
00:12:40.378 --> 00:12:43.393 of of why it’s so important to be
NOTE Confidence: 0.85618085
00:12:43.393 --> 00:12:45.548 collaborative and to be collaborative
NOTE Confidence: 0.85618085
00:12:45.548 --> 00:12:47.660 with with other people in the
NOTE Confidence: 0.85618085
00:12:47.660 --> 00:12:49.340 Community to ensure that patients
NOTE Confidence: 0.85618085
00:12:49.398 --> 00:12:51.600 really receive the best care possible.
NOTE Confidence: 0.85618085
00:12:54.016 --> 00:12:56.113 And so when he presented he was 63
NOTE Confidence: 0.85618085
00:12:56.113 --> 00:13:06.007 so the top left you can see here
NOTE Confidence: 0.85618085
00:13:00.981 --> 00:13:03.554 Left sided GBM underneath the language
NOTE Confidence: 0.85618085
00:13:03.554 --> 00:13:06.007 the area so obviously explaining his aphasia.  
NOTE Confidence: 0.85618085
00:13:13.242 --> 00:13:16.231 it's not an MRI you can make out
NOTE Confidence: 0.85618085
that there’s still a fair amount of tumor even after what was said to be a resection.

This is his scan in January, so a few weeks later and you can see that the tumor that we see here is very similar to what you see in the initial preoperative. Scan and unfortunately I see patients like this often an where they’ve undergone a quote, unquote open biopsy, or they pad, you know, limited reception, and that, really, you know,
is a shame because there are opportunities to be more aggressive in others hands.

So Nick actually saw the patient and noticed how aphasic he was and thought, well, maybe he could have more of a reception. Performed so he sent him to me and a few days later had another functional MRI which allows us to see the function of the brain and so Broca’s area you can’t see it in this picture. But it was just overlying over here, and then the arcuate fasciculi us. You’re starting to see there. I was able to do an awake craniotomy on him,
which I’ll show you an example of an
then this is his post opera section,
and of course, having the tumor
which I’ll show some examples of.
This is a short video, but I think.
 Few minutes, not all that short, but I think a really good example
of what an awake craniotomy is
and how we are able to to really
push the extent of resection.
To a Fox 61 exclusive now it’s a nightmare
scenario when undergoing surgery. Waking up in the middle of the
procedure and knowing what’s going on.
But in some cases that can be a lifesaver, lifesaver and necessary. We're going to explain that in a moment, but first we want to introduce you to a man named Andy. Andy is a husband and father of two kids and a nurse. Another interesting fact about him, he's also a professionally trained singer. He's even performed with his church choir at Carnegie Hall, but Andy felt his entire life come to a halt. When he was diagnosed with brain cancer, he needed surgery to remove as much of a tumor as possible. That tumor in the part of his
00:15:35.502 --> 00:15:36.880 brain that controls speech.
NOTE Confidence: 0.8536503
00:15:36.880 --> 00:15:37.822 And, yes, singing.
NOTE Confidence: 0.8536503
00:15:37.822 --> 00:15:40.020 That’s where a special surgery comes in.
NOTE Confidence: 0.8536503
00:15:40.020 --> 00:15:40.950 Surgeons at Yale,
NOTE Confidence: 0.8536503
00:15:40.950 --> 00:15:42.500 New Haven Smilow Cancer Hospital
NOTE Confidence: 0.8536503
00:15:42.500 --> 00:15:43.795 have perfected a procedure
NOTE Confidence: 0.8536503
00:15:43.795 --> 00:15:45.035 called in awake craniotomy.
NOTE Confidence: 0.8536503
00:15:45.040 --> 00:15:46.696 They invited us into the operating
NOTE Confidence: 0.8536503
00:15:46.696 --> 00:15:49.259 room and we did not hesitate to see
NOTE Confidence: 0.8536503
00:15:49.259 --> 00:15:51.009 this incredible procedure first hand.
NOTE Confidence: 0.8383173
00:15:51.250 --> 00:15:52.490 I think you’re right.
NOTE Confidence: 0.9019976
00:15:54.670 --> 00:15:56.700 In an operating room at Yale,
NOTE Confidence: 0.9019976
00:15:56.700 --> 00:15:59.480 New Haven Hospital. Doctors
NOTE Confidence: 0.7940856
00:15:59.480 --> 00:16:01.236 are working to remove it.
NOTE Confidence: 0.7940856
00:16:01.236 --> 00:16:04.400 Tumor from the brain of a 31 year old
NOTE Confidence: 0.7940856
00:16:04.400 --> 00:16:06.850 man named Andy. He is a singer.
Yeah a husband and father of two.

Surgeries waking up in the middle of the operation would be a disaster.

Today an anesthesiologist doing his best to make sure Andy does just that.

Any Stacy surgeons have drilled through his skull and have already begun to remove part of a tumor.

Located on the left side of his temporal lobe, the area which controls language.

Medical staff puts a microphone on it if not for our cameras it so the entire room, including the operating surgeon,
00:16:46.528 --> 00:16:49.120 can hear what Andy has to set.
NOTE Confidence: 0.782905
00:16:51.310 --> 00:16:53.065 The procedure is called an
NOTE Confidence: 0.782905
00:16:53.065 --> 00:16:54.470 awake craniotomy headache. I
NOTE Confidence: 0.782905
00:16:54.470 --> 00:16:56.927 was telling you earlier I I don't
NOTE Confidence: 0.782905
00:16:56.927 --> 00:16:59.380 know if it’s from the brain surgery
NOTE Confidence: 0.782905
00:16:59.380 --> 00:17:02.539 or the fact that I ever had a Cup
NOTE Confidence: 0.782905
00:17:02.540 --> 00:17:03.599 of coffee. Is
NOTE Confidence: 0.782905
00:17:03.600 --> 00:17:05.052 forming physiologist Brooke Callaghan
NOTE Confidence: 0.782905
00:17:05.052 --> 00:17:07.460 sits next to him and begins her
NOTE Confidence: 0.782905
00:17:07.460 --> 00:17:10.619 work. I am going to say it sentence and
NOTE Confidence: 0.782905
00:17:10.620 --> 00:17:12.720 I want you to repeat after
NOTE Confidence: 0.782905
00:17:12.720 --> 00:17:14.826 me. The seashore smells like dog.
NOTE Confidence: 0.782905
00:17:14.830 --> 00:17:15.880 The seashore smells.
NOTE Confidence: 0.83499825
00:17:17.440 --> 00:17:19.918 Interaction can be heard on the
NOTE Confidence: 0.83499825
00:17:19.920 --> 00:17:21.568 speaker throughout the room.
NOTE Confidence: 0.83499825
00:17:21.570 --> 00:17:25.130 Neurosurgeon Doctor Jennifer moliterno.
Has mastered multi-tasking, operating and listening.

Great Doctor Moliterno and her team worked diligently to remove as much of the tumor as possible, which he can’t see are critical microscopic language fibers which are splayed over the tumor. The best way to try to remove as much tumor and preserve his language is to do it with him away. Get too close to those critical fibers. You’ll know it. What do you do in a chair? Problem. I don’t know.
Little bit of confusion,
so that’s a great way to me to tell me to,
even though there might be
a little bit of tumor there,
the risk and benefit of removing
that tumor and having him not
speak for the rest of his life.
Tell you exactly what the right decision is.
If he was asleep, I would have
had no idea as Doctor, Marla Turner
continues operating in a safer spot
and he surprises us when this happens.
He does in the middle of surgery.
Andy, a classically trained
singer, shares his talent.
You wanna half hours
into the procedure dramal Aterno decides it’s time to wrap up. The surgeons are done with the first part of the surgery. So what’s happening as they’re bringing in an hour? I machine and they’re going to look at the work that they did and see how much of the tumor they were able to remove. Orange window and are able to sit with Doctor Maternal. She analyzes her work. The before here is the tumor answer. You don’t have to go back in. Him being awake allowed us to get that outcome and preserve his function.
Now Andy was back home with his family two days after surgery, five days after the surgery, he was able to sing at his son’s baptism. He’s also saying again with his church choir and the Yale Camerata, which is a professional choir. Just a couple of weeks ago and he is undergoing chemotherapy and radiation. But he does say he’s feeling good and of course, warm wishes. Kim is equal fast. This is really why we do what we do. Not every patient needs to be awake to still have that sort of an outcome, and so this was a patient.
You can see the date 2013
he was 40 at the time,
father of two and went to another
hospital and had a biopsy because it was
felt that this lesion that you can see here,
which is a glioblastoma Perry 8 real located,
was too high risk for reception.
After his biopsy he was referred down
for resection and I thought that
we could safely resect it using a.
And translocal approach and
really preserving the cortex.
This is a good case example
of how even for me,
someone who does this literally every
NOTE Confidence: 0.84137017
single day removing tumors, brain tumors,
I can still leave tumor behind.
So this is the beauty of the intraoperative MRI you can see here.
There’s a little bit of residual tumor, tucked underneath the brain and hidden.
And this is our intraoperative MRI that runs back and forth between two of our operating rooms.
So I went back while he was on the table and didn’t take much time at all and was able to achieve a gross total resection.
He had, you know, an MGM T unmethylated tumor.
Pretty poor in terms of prognosis you would think. He went on to be managed by. You are comparing ofner oncology Ann and underwent stupid therapy and then ended up getting enrolled in one of our own homegrown novel clinical trials that Ranjeet Bindra had developed. He progressed, he was enrolled in another clinical trial and then went on to bevacizumab and then progressed about four years after surgery, 3 1/2 years after surgery on Bevis is in math.
It was held that you can see. Here is his recurrence and I took him back for surgery. This time I did a wider resection and what’s nice is is I had mentioned. We performed whole exome sequencing on every patient and so here what you can see basically is he has a hyper mutated phenotype and we know that these tumors can be more susceptible and more amenable to treatment with immune mediated checkpoint inhibitors. So post operatively, he was put on niveau. He progressed despite Niveau an Avastin, and I really respected him I in 2019 and you can see him there with Monica Lawrence,
one of our outstanding oncology pieces. So he's currently doing well on deficits. Maben Niveau 7 1/2 years after his initial diagnosis and so no way am. I trying to sit here and say that all of our GBM patients are living 7 1/2 years. I certainly wish that was the case in one day. I am. Hopefully that will be the case, but I do know that if he had stopped at that biopsy, he definitely would not be here. 7 1/2 years later and so really being aggressive with
surgery and safe with surgery
NOTE Confidence: 0.85780776
00:23:02.700 --> 00:23:04.038 is incredibly important.
NOTE Confidence: 0.85780776
Switching gears real quick
NOTE Confidence: 0.85780776
00:23:05.572 --> 00:23:07.870 before I hand over to Nick.
NOTE Confidence: 0.85780776
This is a patient with what looks like a convexity meningioma.
NOTE Confidence: 0.85780776
He’s an older gentleman who initially had surgery in 2015.
NOTE Confidence: 0.85780776
I don’t have those scans,
NOTE Confidence: 0.85780776
but so was told he had a gross told over section of a benign grade one.
NOTE Confidence: 0.85780776
Meningioma told not to worry about it.
NOTE Confidence: 0.85780776
2017 he had this growth that you can see.
NOTE Confidence: 0.85780776
He had options and actually went to New York City for those
NOTE Confidence: 0.85780776
and underwent radiosurgery.
He had complications with stroke and MI, and then intractable seizures and weaknesses. So when he presented to me in 2019, he had this tumor and he was in a wheelchair. And so I achieved gross total resection. His weakness improved and his seizures improved as well. But the question is, could this have been better predicted and managed differently the first time? And this is where our work behind the scenes is really important. Even within neurosurgery. And so Moroccan ALS lab, as well as others,
have really understood what the somatic genomic landscape of approximately 80% of grade one meningioma czar and more recently we have correlated this with outcomes. I won’t go into the details now, but would be happy to do so in a talk in the future, but basically there’s six subgroups of meningiomas based on their genomic driver mutation, and this was published in Science in 2013. When I was a fellow at Memorial Sloan Kettering, I did work that really understood that more aggressive meningiomas
could present Dinovo or they could progress from low grade to high grade, much like gliomas.

Marotte also looked at that from a more basic science perspective and Anne found the mechanisms to explain that usually these tumors are NFT mutated, were in Mail, acquire chromosomal instability or smart Bianco mutation, and then become Dinovo atypical meningiomas as opposed to the ones that harbor Terr promoter mutations. And progress. What I was alluding to before was
that in a recent publication of ours a few months ago, for the first time we have identified these molecular subgroups of meningiomas to be independent predictor of recurrence, and so we found that there is divergent clinical courses amongst meningiomas. For aggressive subgroups, which are NFT mutated tumors, trap 7 mutated tumors and those that have molecules that are mutated in PR. kinase and hedgehog signaling pathways versus more quiescent types of meningiomas that have
Kayla for polar two ANS mark be one

commutations and so we have even

found that this holds true amongst

grade one meningiomas and so grade

one convexity chip shot meningioma,

like the one that I just described.

Is not necessarily a grade

one benign meningioma,

and so it’s really important for

meningiomas in particular to

realize that they’re not as benign

as everyone thinks of them to be.

So when we go back to this

patient could have that.

Could this have been better

44
predicted and manage the first time? And the answer is yes,
and so this is an example of our whole exome sequencing report that we have on each of our patients tumors and what we found.
As you can see here is first of all. The Histology with atypical meningioma, but we found that the patient had an NF2 mutation.
Ann had chromosomal instability, particularly with the chromosome 1P deletion, suggesting that this was a denovo atypical meningioma, and so this was a typical from the start, and typically we followed
these patients either closely, very closely, or we radiate up front, which is more more typically what we do. And so again, another example of how really understanding the tumors is important. An back in the Science Paper 2013 and more recent in a publication and more recent in a publication we also have shown that these genomic subgroups can be predicted based on intra cranial location. So we use this all the time in our clinics where just understanding where the location is will say yeah,
that’s likely to be this mutated meningioma. And based on the neuron College paper recently, summers are going to behave more aggressively and it really does influence how we treat these patients. Of course, not everything ends with surgery. I wish that it did, and you know patients could be cured and move on, but unfortunately that’s not the case. And what we deal with, and so that’s why we have our precision brain tumor treatment program an our tumor board that we need and discuss weekly.
And of course, we could not do what we do without support of our patients. And so Connecticut Brain Tumor Alliance has been amazing supporting. Some of the meningioma research that I just discussed, especially all the clinical correlations, research that I just discussed as well as patients themselves. The Love Mark Foundation on TV and Jamie Lovemark dream Love Mark is a PGA golfer. They’ve donated nearly a half $1,000,000 with every penny going to our patients,
and so we can’t thank them enough because it.

It really does help in terms of their care.

And a special thank you to our primary brain tumor surgery clinical team.

So if and when you ever speak to someone from my office, Jillian Bongard, she is one of our APR ends. Marcy Diggs, another superstar.

Actually, they’re all superstars Kelly Mishad, who is one of our Nurse coordinators Marcia Williams, and then Amorini Pina,
who is our administrative assistant. We can be reached at anytime and so any questions just feel free to give us a call or to email me.

Alright, so that is the surgical overview. Next we have Doctor Nick Bond and who is a new oncologist at Yale. He has practiced also. Let me stop sharing. At Trumbull Smilow. Anne has been a really good friend of mine and Ann is really, really good doctor. Well, thanks for those kind words, Jen and. Thanks for the opportunity.
to participate in this talk.

It’s really been not privilege of mine to be part of the Yale brain tumor team.

For the last two and a half years now and work together with such other fine docs, I really feel like we’re making a difference for folks here in Connecticut, so only start sharing my screen here.

I’m going to provide an update in brain tumor management from the neurooncology perspective, and I’ll be specifically focusing on glioblastoma, the most common malignant brain tumor in adults. Do not touch on other brain tumors such
NOTE Confidence: 0.86127996
00:30:25.804 --> 00:30:27.358 as meningioma in this particular saw.
NOTE Confidence: 0.74802816
00:30:29.520 --> 00:30:31.556 Here’s my disclosure. Slide.
NOTE Confidence: 0.74802816
00:30:31.556 --> 00:30:34.840 I participate as Aryel investigator for a.
NOTE Confidence: 0.74802816
00:30:34.840 --> 00:30:36.188 Nonprofit organization called Global
NOTE Confidence: 0.74802816
00:30:36.188 --> 00:30:37.536 Coalition for Adaptive Research.
NOTE Confidence: 0.74802816
00:30:37.540 --> 00:30:39.906 Orji car running a large clinical trial,
NOTE Confidence: 0.74802816
00:30:39.910 --> 00:30:41.190 which I’ll speak on.
NOTE Confidence: 0.74802816
00:30:41.190 --> 00:30:43.630 Also do consulting for Novocure and Biocept,
NOTE Confidence: 0.74802816
00:30:43.630 --> 00:30:45.430 and have no stock or financial
NOTE Confidence: 0.74802816
00:30:45.430 --> 00:30:47.680 interest in any of these companies,
NOTE Confidence: 0.74802816
00:30:47.680 --> 00:30:50.150 and I produced this presentation.
NOTE Confidence: 0.74802816
00:30:50.150 --> 00:30:51.942 So I’m going to start by just
NOTE Confidence: 0.74802816
00:30:51.942 --> 00:30:53.853 touching base on some basic overview
NOTE Confidence: 0.74802816
00:30:53.853 --> 00:30:55.663 information and clear blastoma so
NOTE Confidence: 0.74802816
00:30:55.663 --> 00:30:57.799 I mentioned it’s the most common
NOTE Confidence: 0.74802816
malignant primary brain tumor in adults.

The incidence is around three folks per 100,000 per year, and so we estimate that there’s probably 100 to 150 new cases per year in Connecticut.

So consider brain cancer arising from the cancerous transformation of glial cells, which are normal cells that exist in the brain and help kind of support the brain structure and release hormones that maintain neuron integrity, but these cells generally don’t divide in adults, but they can develop mutations or
NOTE Confidence: 0.74802816
00:31:33.940 --> 00:31:35.640 abnormal chromosome numbers that
NOTE Confidence: 0.74802816
00:31:35.707 --> 00:31:37.767 cause them to become cancerous
NOTE Confidence: 0.74802816
00:31:37.767 --> 00:31:39.827 and develop a glioblastoma tumor.
NOTE Confidence: 0.74802816
00:31:39.830 --> 00:31:42.548 And once the tumor has developed.
NOTE Confidence: 0.74802816
00:31:42.550 --> 00:31:44.734 By the time it’s causing symptoms
NOTE Confidence: 0.74802816
00:31:44.734 --> 00:31:47.167 and discovered it is both nodule
NOTE Confidence: 0.74802816
00:31:47.167 --> 00:31:48.967 and also infiltrating cells.
NOTE Confidence: 0.74802816
00:31:48.970 --> 00:31:51.430 So by infiltrating I mean tumor
NOTE Confidence: 0.74802816
00:31:51.430 --> 00:31:53.520 cells that are spreading into
NOTE Confidence: 0.74802816
00:31:53.520 --> 00:31:55.776 the normal tissue of the brain,
NOTE Confidence: 0.74802816
00:31:55.780 --> 00:31:58.162 and so the really the problem
NOTE Confidence: 0.74802816
00:31:58.162 --> 00:32:00.192 of glioblastoma is that while
NOTE Confidence: 0.74802816
00:32:00.192 --> 00:32:02.712 the visible tumor on an MRI can
NOTE Confidence: 0.74802816
00:32:02.712 --> 00:32:05.009 be removed and doctor maternal,
NOTE Confidence: 0.74802816
00:32:05.010 --> 00:32:07.416 so they’re up some really neat
NOTE Confidence: 0.74802816
54
Now, unfortunately, there will be residual glioblastoma cells that. Exist in the brain and could regrow into new tumors or cause more neurological disability by spreading throughout the brain. So it’s my job as a neuro oncologist to try to provide chemotherapy and other treatments to slow the growth of those tumors cells, or really ideally completely inactivate them. And so again, it’s a disease which can’t be cured by surgery.
but the extensive surgery is critical with complete removal of all the visible tumor. Really providing a much better chance for the patient to be a long term survivor. And following removal of the tumor, common treatment options, or radiation and chemotherapy again, I’ll be touching on the chemotherapy. and my colleague Doctor McGibbon will be touching on the radiation. So it glioblastoma is typically found by causing a first time seizure in an adult. So anyone from.
Kind of adolescents on that has a first time seizure. A common cause of that would be a brain tumor and specifically glioblastoma. That would lead to imaging such as a CAT scan or MRI showing a mass within the brain tissue. An characteristic findings of this, including a dark middle area of the tumor called the necrosis, is consistent with glioblastoma, so we could know even preoperative that a tumor looks likely to be a glioblastoma, but we need the tumor to be removed and pathology testing to be done to confirm that before proceed.
to further treatment and then beyond seizures other common. Presenting symptoms could be. Visual changes loss of part of the peripheral vision or visual field and then also new onset cognitive impairments. So a common story would be someone that seemed to be developing memory loss or almost dementia like symptoms, symptoms worsening over weeks to a few months that can be due to brain dysfunction from a glioblastoma brain tumor. And so in regards to prognosis. I had mentioned the extensive surgical resection is important,
but another critical factor is simply age, age of a patient and.
Studies have indicated that an age of 70 is kind of a cut off benchmark.
So if a person is diagnosed young 69 and younger.
They may be able to tolerate more intensive treatment,
more extensive radiation,
higher doses of chemotherapy compared to someone who’s 70 and older,
and I like to think of this similar to you know,
dosing of Tylenol for Pediatrics versus adults.
So you can’t give a child an adult
00:34:51.432 --> 00:34:53.668 dosage of Tylenol or mot ring.

00:34:53.670 --> 00:34:56.214 You have to base the treatment on the age of the patient and their body size.

00:34:56.214 --> 00:35:01.328 So again, looking at a patient,

00:35:01.330 --> 00:35:03.390 I’m going to treat someone differently based on their age.

00:35:03.390 --> 00:35:05.450 And then.

00:35:05.450 --> 00:35:07.320 Their disability of a person could depend on where the tumor is located,

00:35:07.320 --> 00:35:09.330 so ideally the tumor is grown in a place where Jen can completely respect it,

00:35:09.330 --> 00:35:11.788 but in some cases tumors will arise in more central areas of the brain,

00:35:11.790 --> 00:35:14.562 the thalamus or brainstem,

00:35:14.562 --> 00:35:16.950 and in these areas only a biopsy can be done,
and so neurological disabilities will persist after the diagnosis and be more difficult to treat.

And then there are some molecular factors which are of critical for understanding the prognosis. 2 main factors with glioblastoma are The MGM T status. And IDH, one status MGMT is an enzyme that can repair the damage done to tumor cells by Thomas Ola, my chemotherapy. And so patients have high amounts of MGMT enzyme within their tumor cells. They’ll be relatively resistant to temodar chemotherapy.
It won’t work as well, and those patients generally have poorer prognosis for long term survival.

And so his doctor Will Turner had mentioned we do whole exome sequencing or essentially DNA sequencing of tumor cells after they are removed. To understand what mutations exist in the tumor beyond what their MGM molecular statuses and their IDH one mutation status and we look for mutations which could be targeted by new generation chemotherapy. So in a small percentage of glioblastomas, unfortunately less than 5%.
At this point there do exist mutation and such as B. Raff and NTR K. Fusion, for which new generation chemotherapy exists can cross the blood brain barrier and be effective to treat those tumors and delay progression, sometimes for years. So we want to test every patient for their genomics of their two men to understand if they would have a treatment option for one of these new treatments and further just understanding what is the prognosis of this tumor. And so it now the standard therapies,
which I haven’t unfortunately, are fairly limited. I feel jealous of my medical oncology colleagues who may have a number of treatments, like for example breast cancer has more than 30 approved drugs to treat it, whereas for glioblastomas, unfortunately we only have a few drugs FDA approved for treatment in one device, and so the initial standard of care for glioblastoma was established in 2005, which combines olamide or TMZ chemotherapy. Along with radiation treatment for the
initial phase of treatment and then
monthly maintenance rounds of Tim’s Olamide,
and this did provide a few months
longer survival on average for
patients with a subgroup of patients
with the low energy and she enzyme
level surviving for longer.
Then in 2009. But this is a map or a vast and was approved
by the FDA for use in recurrent GBM.
This is a drug which will bind to a
hormone called veg F and slow down
blood vessel growth around tumors
and basically starve tumors of oxygen
and so by treating a patient with.
This is a map you can slow the
growth of the tumor and in some cases completely stabilize it with an effect being an average of a few months of further survival time. Some patients could go even for many months, if their tumors acceptable, it’s another three to four months of longer survival time. A person could get with that. This is a map. And then in 2018 or the Optune device was approved. So for some patients that are able to use the Optune device,
it’s a device of four arrays which are placed on the scalp creating electrical field, which interferes with the mechanical process of cell division. So as tumor cells attempt to divide from 1 cell into two cells, applying electrical fields can block that process from happening and cause the cell to ultimately self-destruct and not complete the division process. So Optune is now used for patients following radiation treatment along with Tim’s Ola. My chemotherapy with that M as Olamide damaging the DNA and then the
option device slowing or preventing the cell division process and with that current standard of care, on average we’re looking for about a two years survival time for a newly diagnosed patient. And for patients over 870, they may not be able to tolerate Timmons Olamide or or they may have side effects from these chemotherapies, so their survival on average maybe about one year one you know 1 to 1 1/2 years and then for patients with The MGM T methyl lated status or low levels of The MGM T enzyme.
I'm looking for an average at least three years survival from diagnosis for that patient,
so we want more drugs, and we want better options. And we want non toxic drugs.
So people can maintain their quality of life while also getting the Disease Control and not having progression.
So this is where clinical trials come in. We have the opportunity to participate in a number of clinical trials here at Yale, and I'm going to touch on a few which I am excited about, the first being the GBM agile clinical trial GBM.
Agile is not only a national but an international effort.

To treat newly diagnosed and recurrent GBM and the way the study is designed as that is a master protocol that can open up new experience experimental arms for new drugs and new treatments. So currently for clinical trials, one drug would have its own clinical trial and need to recruit half of the patients for the standard of care. Half of the patients for the experimental treatment.
there may be many arms of experimental therapies all referencing one standard. Common standard of care therapy. And as I showed on the current slide, unfortunately our standard Care isn’t really not acceptable to me and I think that the GBM Agile offers a chance to move new drugs forward or understand if new drugs are effective with exposing less people to the placebo or just the common standard oral treatment. So currently we have the study opening you’re looking at drug called Regehr Alphanim which inhibits multiple enzymes within a cell.
Responsible for tumor cell growth and regular alphanim is being compared to Tim’s Olamide and maintenance. Newly diagnosed patients and also for recurrent GBM treatment and then two other drugs will be entering into the GBM agile study shortly within the next few weeks here at Yale and those drugs are fellow 83, a drug similar to Tim’s Olamide a drug similar to Tim’s Olamide and Paxil listed, which is another molecular inhibitor blocking a molecule called P I3 trainees, so we’re excited to offer this to patients. We haven’t screening,
only diagnosed patients offer
participation in this.
And then another line of therapy
that we are actively looking into
his immunotherapy for glioblastoma
the initial studies of immunotherapy
for treatment, the checkmate studies comparing Opdivo,
also known as new volume AB checkpoint
inhibitor drug versus standard of care,
chemotherapy’s an unfortunately in
these studies in the volume app
was not proven to.
Improve improve survival for patients
or lead to you no longer progression
time until progression or or maintain.

Maintain health for longer and so.

Really, the drug it seems to be highly effective in some cancer types such as Melanoma and lung cancer, but in affective in glioblastoma an the study was designed really before the study was designed really before.

there was a basic science understanding of the immune system of the brain. It was just hoped that this this would be a treatment for patients, but we now know that there are some factors in cells within the brain that can block the effect.
00:43:05.375 --> 00:43:06.839 of these particular immunotherapy
NOTE Confidence: 0.8002533
00:43:06.839 --> 00:43:09.497 drugs when they used on their own.
NOTE Confidence: 0.8002533
00:43:09.497 --> 00:43:12.696 And so new drugs are being developed
NOTE Confidence: 0.8002533
00:43:12.696 --> 00:43:16.080 which I'll touch on in the next slide.
NOTE Confidence: 0.8002533
00:43:16.080 --> 00:43:18.424 But it also appears that now we now
NOTE Confidence: 0.8002533
00:43:18.424 --> 00:43:19.944 believe that combining immunotherapy
NOTE Confidence: 0.8002533
00:43:19.944 --> 00:43:22.548 with surgery or radiation for recurrent
NOTE Confidence: 0.8002533
00:43:22.548 --> 00:43:25.188 GBM may improve their effectiveness.
NOTE Confidence: 0.8002533
00:43:25.190 --> 00:43:27.075 Small study was published utilizing
NOTE Confidence: 0.8002533
00:43:27.075 --> 00:43:29.462 she Trudeau with surgery or with
NOTE Confidence: 0.8002533
00:43:29.462 --> 00:43:30.340 repeat radiation,
NOTE Confidence: 0.8002533
00:43:30.340 --> 00:43:32.512 a second on radiation and patients
NOTE Confidence: 0.8002533
00:43:32.512 --> 00:43:34.885 appear to have longer survival times
NOTE Confidence: 0.8002533
00:43:34.885 --> 00:43:37.453 and better outcome with that strategy.
NOTE Confidence: 0.8805834
00:43:40.170 --> 00:43:42.600 So with our new clinical trial.
NOTE Confidence: 0.8805834
00:43:42.600 --> 00:43:44.400 It’s designed to block TIGIT,
which is a new molecule involved in immune system function in the brain. The molecule is actually discovered in the course of research for multiple sclerosis through a research effort headed up here by David Hafler that you’re of the Yellow Neurology Department, and it turns out in patients with multiple sclerosis they have low levels of digit and an overactive immune system in patients with glioblastoma have high levels of digit and a suppressed immune system. So the hope is that by blocking TIGIT we can activate the immune system.
00:44:16.867 --> 00:44:20.084 system in the brain and now will have
NOTE Confidence: 0.8805834
00:44:20.084 --> 00:44:22.089 effectiveness to treat GBM tumors.
NOTE Confidence: 0.8805834
00:44:22.090 --> 00:44:23.992 So the study has been designed
NOTE Confidence: 0.8805834
00:44:23.992 --> 00:44:26.545 to use an anti TIGIT antibody or
NOTE Confidence: 0.8805834
00:44:26.545 --> 00:44:28.570 a molecule that block TIGIT.
NOTE Confidence: 0.8805834
00:44:28.570 --> 00:44:30.570 Combine that with a standard
NOTE Confidence: 0.8805834
00:44:30.570 --> 00:44:32.570 checkpoint inhibitor called a B122
NOTE Confidence: 0.8805834
00:44:32.636 --> 00:44:34.612 and our hope is that this will be
NOTE Confidence: 0.8805834
00:44:34.612 --> 00:44:36.853 a new effective treatment and a
NOTE Confidence: 0.8805834
00:44:36.853 --> 00:44:39.367 breakthrough for immuno therapy for GBM.
NOTE Confidence: 0.81072026
00:44:42.960 --> 00:44:44.612 And then of course,
NOTE Confidence: 0.81072026
00:44:44.612 --> 00:44:47.090 a key factor in glioblastoma management
NOTE Confidence: 0.81072026
00:44:47.166 --> 00:44:49.896 is adjunctive care and supportive care.
NOTE Confidence: 0.81072026
00:44:49.900 --> 00:44:51.205 Understanding how corticosteroids,
NOTE Confidence: 0.81072026
00:44:51.205 --> 00:44:54.122 such as dexamethasone, can impact a patient.
NOTE Confidence: 0.81072026
00:44:54.122 --> 00:44:55.734 Steroids can be helpful
to reduce brain swelling,
but they can have harmful side effects
such as weakening the immune system,
such as weakening the immune system,
causing weight gain, causing fragile skin,
and cause immunosupression so,
close management of dexamethasone is key,
it’s something I.
Think about every day for most
Think about every day for most
of the patients that I see.
Are they on text about the zone?
What’s their dose?
Can it be reduced?
Isn’t necessary and just understanding
how to optimize for an individual
patient what their best line
00:45:26.566 --> 00:45:28.662 of treatment is and then anti
NOTE Confidence: 0.81072026
00:45:28.662 --> 00:45:30.062 convulsant medication also may
NOTE Confidence: 0.81072026
00:45:30.062 --> 00:45:31.857 be necessary for some patients,
NOTE Confidence: 0.81072026
00:45:31.857 --> 00:45:33.405 particularly anyone who has
NOTE Confidence: 0.81072026
00:45:33.405 --> 00:45:36.227 suffered a seizure at the onset of
NOTE Confidence: 0.81072026
00:45:36.227 --> 00:45:38.282 glioblastoma or anyone with seizures
NOTE Confidence: 0.81072026
00:45:38.282 --> 00:45:40.395 or suspected seizures at any points
NOTE Confidence: 0.81072026
00:45:40.395 --> 00:45:42.285 need to be on an anti seizure.
NOTE Confidence: 0.81072026
00:45:42.290 --> 00:45:43.738 Medication and understanding the
NOTE Confidence: 0.81072026
00:45:43.738 --> 00:45:45.548 side effects of these medications
NOTE Confidence: 0.81072026
00:45:45.548 --> 00:45:47.512 really can be critical to optimizing
NOTE Confidence: 0.81072026
00:45:47.512 --> 00:45:48.748 someone’s quality of life,
NOTE Confidence: 0.81072026
00:45:48.750 --> 00:45:50.556 and if someone is having side
NOTE Confidence: 0.81072026
00:45:50.556 --> 00:45:52.490 effects on a seizure medication,
NOTE Confidence: 0.81072026
00:45:52.490 --> 00:45:54.764 it’s best to change that method
NOTE Confidence: 0.81072026
00:45:54.764 --> 00:45:57.039 utilized a different Med rather than
have the patient you know have a poorer quality of life from side effects. Then I actively utilized counseling for a number of patients of mine, Brian, who was also on the call and be speaking later, has been just truly wonderful to work with. The trouble he’s been extremely helpful with so many patients in mind, and I really think that this is an important component of treatment, which I’m proud that we offer. It’s Milo. And then of course, physical therapy, rehabilitation, exercise,
00:46:27.854 --> 00:46:28.566 or key,
NOTE Confidence: 0.81072026
00:46:28.570 --> 00:46:31.120 I advise patients exercise as
NOTE Confidence: 0.81072026
00:46:31.120 --> 00:46:32.650 much as possible.
NOTE Confidence: 0.81072026
00:46:32.650 --> 00:46:35.051 Doctor Paris is an example in my
NOTE Confidence: 0.81072026
00:46:35.051 --> 00:46:38.233 mind of someone who has been able to
NOTE Confidence: 0.81072026
00:46:38.233 --> 00:46:39.893 maintain exercise after diagnosis
NOTE Confidence: 0.81072026
00:46:39.893 --> 00:46:42.523 and a truly believe it’s been very
NOTE Confidence: 0.81072026
00:46:42.523 --> 00:46:45.352 helpful for for her up to this point.
NOTE Confidence: 0.81072026
00:46:45.352 --> 00:46:47.909 So I speak with everyone else about
NOTE Confidence: 0.81072026
00:46:47.909 --> 00:46:50.261 exercise and fitness and see if
NOTE Confidence: 0.81072026
00:46:50.261 --> 00:46:52.628 we can optimize that for folks.
NOTE Confidence: 0.81072026
00:46:52.630 --> 00:46:55.438 And then of course also optimizing
NOTE Confidence: 0.81072026
00:46:55.438 --> 00:46:57.932 nutrition and utilizing our nutritionist
NOTE Confidence: 0.81072026
00:46:57.932 --> 00:47:00.637 Rebecca and the tribal office.
NOTE Confidence: 0.81072026
00:47:00.640 --> 00:47:00.956 Alright,
NOTE Confidence: 0.81072026
00:47:00.956 --> 00:47:04.193 I will wrap up at that point on my talk
and I think I’ll pass it back to Jenn.

For moderation, yes, and I’m going to pass it right along to Doctor McGibbon, who is also a friend, an A radiation oncologist out of Greenwich primarily.

Yeah, thanks so much introduction we try to share my screen here.

See can see see that OK switch to. Slideshow.

So yes, thanks again for the introduction, so I have the pleasure of starting work for Yale.

12 years ago, up in the Trumbull area
and First start working with Doctor
NOTE Confidence: 0.7843451
One in there and Doctor Montero.
NOTE Confidence: 0.7843451
And now the medical Director
NOTE Confidence: 0.7843451
for Radiation Oncology,
NOTE Confidence: 0.7843451
Greenwich Hospital and getting to
NOTE Confidence: 0.7843451
extend the smile care down this
NOTE Confidence: 0.7843451
way and actually I have a personal
NOTE Confidence: 0.7843451
connection with Doctor Bear says,
NOTE Confidence: 0.7843451
well, kind of highlights,
NOTE Confidence: 0.7843451
the nice coordination mean the system.
NOTE Confidence: 0.7843451
Are within the system because colleague
NOTE Confidence: 0.7843451
of mine and the radiation side Dr.
NOTE Confidence: 0.7843451
Contesti was actually the 1st to see her,
NOTE Confidence: 0.7843451
but she lived closer to tremble
NOTE Confidence: 0.7843451
and so I got to see her and offer
NOTE Confidence: 0.7843451
that same kind of yield quality of
NOTE Confidence: 0.7843451
00:48:23.077 --> 00:48:24.961 radiation there and so it’s wonderful
NOTE Confidence: 0.7843451
00:48:24.961 --> 00:48:28.650 to see her doing doing so well.
NOTE Confidence: 0.7843451
00:48:28.650 --> 00:48:31.050 Can I just talk through at least some
NOTE Confidence: 0.7843451
00:48:31.050 --> 00:48:33.367 of the roles of radiation therapy
NOTE Confidence: 0.7843451
00:48:33.367 --> 00:48:35.827 in the treatment of brain tumors?
NOTE Confidence: 0.7843451
00:48:35.830 --> 00:48:37.630 I don’t have any disclosures,
NOTE Confidence: 0.7843451
00:48:37.630 --> 00:48:38.569 by the way,
NOTE Confidence: 0.7843451
00:48:38.569 --> 00:48:40.447 so where does radiation therapy fit
NOTE Confidence: 0.7843451
00:48:40.447 --> 00:48:43.001 in so in benign tumors sometimes will
NOTE Confidence: 0.7843451
00:48:43.001 --> 00:48:44.925 do so called definitive radiation
NOTE Confidence: 0.7843451
00:48:44.925 --> 00:48:46.960 as a replacement for surgery,
NOTE Confidence: 0.7843451
00:48:46.960 --> 00:48:50.182 or as it’s been shown earlier in the talks,
NOTE Confidence: 0.7843451
00:48:50.190 --> 00:48:52.338 will do post operative radiation therapy.
NOTE Confidence: 0.7843451
00:48:52.340 --> 00:48:54.482 If there’s been left behind or were
NOTE Confidence: 0.7843451
00:48:54.482 --> 00:48:56.931 worried that it will progress in Casa
NOTE Confidence: 0.7843451
00:48:56.931 --> 00:48:59.127 problem and more commonly were involved
NOTE Confidence: 0.7843451
00:48:59.195 --> 00:49:01.775 in malignant tumors like the glioblastomas.
NOTE Confidence: 0.7843451
00:49:01.780 --> 00:49:04.548 Either after a biopsy has been done or
NOTE Confidence: 0.7843451
00:49:04.548 --> 00:49:07.437 after when the more impressive surgeries,
NOTE Confidence: 0.7843451
00:49:07.440 --> 00:49:09.455 like the maximum safe resections
NOTE Confidence: 0.7843451
00:49:09.455 --> 00:49:10.664 like Doctor Moliterno,
NOTE Confidence: 0.7843451
00:49:10.670 --> 00:49:11.478 was highlighting.
NOTE Confidence: 0.7843451
00:49:11.478 --> 00:49:12.690 And of course,
NOTE Confidence: 0.7843451
00:49:12.690 --> 00:49:15.395 we’re always collaborating with Neurooncology
NOTE Confidence: 0.7843451
00:49:15.395 --> 00:49:18.100 as well for concurrent chemotherapy
NOTE Confidence: 0.7843451
00:49:18.168 --> 00:49:20.436 and other treatments of that type.
NOTE Confidence: 0.7843451
00:49:20.440 --> 00:49:21.020 For us,
NOTE Confidence: 0.7843451
00:49:21.020 --> 00:49:22.760 the people become familiar with this.
NOTE Confidence: 0.7843451
00:49:22.760 --> 00:49:25.289 If you only see my cursor on the top
NOTE Confidence: 0.7843451
00:49:25.289 --> 00:49:27.973 left is a picture of one of our common.
NOTE Confidence: 0.7843451
00:49:27.980 --> 00:49:29.430 It’s called a linear accelerator.
It’s the machine that shoots the X Rays and we have what looks like a black table top here, and patients will lie on that and will create a face mask. And this is just one example of a mask. We have different ones, some have opening some, some do not, but the idea is we’re going to be using radiation for multiple days. We need to make sure the X Rays are hitting the exact same spot each time. And so we need something to hold the head and shoulders in the same position.
To go further from there, you know we need to really customize the X Ray beam so they’re only shooting where we want and trying to spare the surrounding tissues. And we do that if it look in where the Red Arrows pointing, that’s the head of this machine, and in that there’s this object to the right. Scalding multileaf collimator and it’s a series of stacked leaves metal leaves that can create any shape that we want within a rectangle, and between creating different shapes with that MLC. And moving the actual head of the
00:50:30.749 --> 00:50:32.687 machine to different angles around the
00:50:32.687 --> 00:50:34.337 patient and adjusting the intensity
00:50:34.337 --> 00:50:36.650 of the beam at each of those angles,
00:50:36.650 --> 00:50:39.482 we can get a very fancy
00:50:39.482 --> 00:50:40.898 dose distribution inside.
00:50:40.900 --> 00:50:41.436 And furthermore,
00:50:41.436 --> 00:50:43.580 we can take what look like the arms
00:50:43.640 --> 00:50:45.536 of the machine here on each side and
00:50:45.536 --> 00:50:47.595 spend the machine around a patient each
00:50:47.595 --> 00:50:49.646 day before treatment and take an image.
00:50:49.646 --> 00:50:52.410 We see a couple of examples in the left here,
00:50:52.410 --> 00:50:54.579 so we can make sure that how we’ve planned
00:50:54.579 --> 00:50:56.644 the person based on a special CAT scan
00:50:56.644 --> 00:50:58.980 as to exactly how they’re lined internally,
00:50:58.980 --> 00:51:00.402 so we have the mask to
NOTE Confidence: 0.81071264
help get us in position, but we don’t rely just on that. We go further with imaging to make sure we are right on target before we turn the beam on that day. I guess I mean helpful. Just go through 2 examples, one glioblastoma, and one meningioma, and I think they both really highlight the close collaboration that’s necessary and that we really enjoy in this yell system and a cross between New Haven and the satellite. So in this one case, the patient was in with headaches
and difficulty with concentrating.

And an MRI was performed which showed this lesion on the left side.

And you notice that there’s one type of sequence samaritas called T1.

It’s with contrast, reshoot, Diane,

but there’s another type of scenes called T2.

And if you look at the top left

in the top right,

this has taken a similar slice,

but it looks quite different between the two,

and it’s really highlighting the

bulk of the tumor on the left,

but showing some of the fluid dynamics

and swelling around on the right,
which becomes important for us from radiation planning. And you know what’s the? What’s the basic algorithm here? We want maximum safe surgery. Then there’s a gap for healing about three to six weeks, and then we start with Tim’s online telephone line chemotherapy and radiation at the same time. And then we keep going with the time zone line afterwards, and then possibly do those alternating electrical fields that Hunter Biden was talking about. So when the patient comes to us,
they've already we are established with their performance test is like and some of the special markers like that. MGM T that was mentioned and. We see if there are eligible for any clinical trials. And then we get into what style of radiation should we offer? And the standard ratio that we give is 30 treatments. It has an initial phase with slightly bigger fields and a second phase called the Cone down with smaller fields, but it’s 30 individual days done Monday to Friday,
weekends off and at each

00:52:57.040 --> 00:52:58.610 treatment takes about 15 minutes,

00:52:58.610 --> 00:53:00.180 and so it’s about a six week course.

00:53:00.180 --> 00:53:03.508 And there are some special

00:53:03.510 --> 00:53:04.985 It’s called hypo fractionated radiation.

00:53:04.985 --> 00:53:06.165 We’re using a shorter course or it’s

00:53:06.170 --> 00:53:07.640 a little higher dose per day and

00:53:07.640 --> 00:53:09.852 we have that as a potential too,

00:53:09.852 --> 00:53:11.930 and how can we pair this with chemotherapy.

00:53:11.930 --> 00:53:13.840 So the first thing we do,

00:53:13.840 --> 00:53:16.306 and that’s part of the multidisciplinary

00:53:16.306 --> 00:53:19.104 discussion as to really which is the best

00:53:19.104 --> 00:53:21.949 they’ve usually gotten an MRI with,
they’ve come to us outside.

We get one and we really want to see.

OK, what’s the difference now in the cavity and even see compared to before that you know this has been. There’s a little bit of a white here that’s more postoperative change, not necessarily cancer left behind and you can see the difference now. Things look again between the T1 for these left room, just empty 2.

And when it comes to radiation, the principle is we were going to get a CAT scan.
We’re going to overlay the various Mris and so here.

We’ve taken in this blueish color is what the tumor look like before the surgery and now copy it onto the MRI from after surgery.

And then we draw in more in the middle here. This pink drawing.

What are we concerned about just from the MRI afterwards we combine these things on the right.

And then we get to work with our physics crew. And if you kind of adjust your eyes from this is a 3D or 2D representation.
00:54:30.257 --> 00:54:33.039 of a 3D process so you can see here.

00:54:33.040 --> 00:54:35.182 It looks like someone’s face with the nose and the eyes and these pink and blue is highlighting where the tumor is.

00:54:35.182 --> 00:54:37.812 nose and the eyes and these pink and blue is highlighting where the tumor is.

00:54:40.080 --> 00:54:41.790 The red dashed line is simulating the Ark as the machine moves around, and these yellow little funny rectangles.

00:54:41.790 --> 00:54:44.240 The red dashed line is simulating the Ark as the machine moves around, and these yellow little funny rectangles.

00:54:44.240 --> 00:54:46.160 and these yellow little funny rectangles.

00:54:46.160 --> 00:54:47.084 That’s that MLC.

00:54:47.084 --> 00:54:48.316 That’s that MLC, creating the different shapes.

00:54:48.316 --> 00:54:49.680 as it goes around.

00:54:49.680 --> 00:54:51.485 So manipulating all those things.

00:54:51.485 --> 00:54:53.290 in the field design process.

00:54:53.290 --> 00:54:54.012 We get.

00:54:54.012 --> 00:54:55.817 This type of dose distribution.

00:54:55.817 --> 00:54:57.919 you can see on the right.
So now we’ve taken those drawings.

We’ve actually created real dose.

We can see that we’re trying to spare the rest of the brain and really concentrate what’s in here.

This is a multi day process to get things right between our planning session when we’re ready.

And as part of the review, we look at something called the dose volume histogram.

Every structure that we care about between what’s called the PTV, which is what we’re planning to target.
The optic nerves eyes the Coakley, the brainstem, anything that we care about that’s in there. We can model. How much dose is going to it and we have very strict criteria about how much is too much, how much can be repaired and we keep going round and round and round till we have a plan that meets all the goals while maximizing goes to the tumor.

Move on to a meningioma, some enjoy the say. The overall treatment concept here. If we go to the NCCN guidelines. The just read this here, so trim selection should be based on assessment,
variety of interrelated factors, including patient features, tumor features, potential for causing or logic consequences. If untreated presences, various symptoms and treatment related factors such as neurologic consequences from surgery, radiation, likelihood of complete resection. Can we do complete irradiation with different techniques? Treatability with Jennifer Progressives, etc. So you can see it’s very complicated. We really need that multi display input which is ending with the national lines actually speak to that. And that’s what we practice at Yale for sure.
Meeting every week.

I’m talking about individual patients.

How can we really get this so it’s customized and we have the best combination?

For us generally, if you know meningiomas coming in and and Doctor Martin give a lot more details, I’m being a little broad here, if something is small and doesn’t seem regression some progressing, sometimes it can be observed, but usually it’s surgery that we’re leading with, and if it turns out to be a grade 1/2, which is the lowest kind of least aggressive.
Then we can sometimes observe sometimes to radiation. If it’s great to, or almost definitely doing radiation of his grade 3, or definitely doing it, and occasionally radiation would be a replacement for surgery. But that’s not as common. In terms of UPS, the technique usually similar to the glioblastoma. It’s a daily treatment for anywhere from 25 to 30 sessions. Sometimes if it’s small enough and we feel more confident that, say, a grade one tumor,
although like Doctor Martin was pointing out, sometimes we're wrong about that. So with very highly selected patients sometimes will do radiosurgery as a single treatment. And here's a nice collaboration example, so we have a 41 year old female who presented with eye symptoms. If you look this MRI, there's clearly something is a little different here. These images always like you're looking from their feet towards their head, so from their feet towards their head, so the left side of your screen is the right side of their body.
So this right side.
There's something different here compared to here,
and this is the I here's the optic nerve coming back.
If you like these kind of black arrows here, these are very important blood vessels.
If you look at this object here, this is the brain stem, so this is.
A very very critical area and this lady in particular had some worsening vision over about a year, but then it really escalated pretty quickly.
The MRI showed that that a nasty appearing lesion,
and so the question is what to do?

Should we do surgeries to do radiation?

Well, at this point the patient has very serious symptoms.

An radiation is not going to reverse the vision symptoms.

In that case, its radiation for meningioma is excellent at stopping it from growing further, and can sometimes have a little shrinkage over time, but it can’t have a rapid shrinkage, can’t reverse symptoms quickly like she need it,
so surgery was the right call.

Thankfully, she met with Doctor Moliterno did took out as much as could be respected. That’s all those very delicate structures have to be so careful about as much as taking out as could be turned out to be great one and which was great is that her vision improved dramatically after surgery. Had a little bit of double vision left, but the cutie was excellent and moved on to a post offer of MRI. And the post off of MRI, the pre 8 properties on the left and post office on the right and be easier to tell with with multiple slices.
But you get the sense that there’s a little something left behind ‘cause we’re so close to these special arteries and so on, but it’s been debunked and it’s had a huge impact in her quality of life. So now radiation comes in. How can we help out too? Now stabilize this and and take it to the next level and so on. A very similar process to what I showed in the glioblastoma. There’s a modeling process making a mask. Creating a CAT scan and MRI who create these beams in the center and then we
have ultimately a dose distribution.

Now we look again.

This color cloud here.

Here’s what I here’s that optic nerve coming back.

So we’re we’re sculpting dose away from the brain stem back here and the optic nerve here so again, having this concentration of dose where we’re most worried and then sculpting those away.

From the areas that are critical, but again an outcome which is really only possible with this special collaboration between you know neurosurgeon radiation,
01:00:20.300 --> 01:00:23.828 or in other cases with the
01:00:23.828 --> 01:00:25.592 neurologist as well.
01:00:25.600 --> 01:00:27.581 I just want to quickly highlight something
01:00:27.581 --> 01:00:29.889 from one of my colleagues size picture
01:00:29.889 --> 01:00:31.995 earlier Doctor Bindra and Doctor Schiff.
01:00:32.000 --> 01:00:34.160 Just it’s nice to see within the L
01:00:34.160 --> 01:00:36.104 system all the things were already
01:00:36.104 --> 01:00:38.531 mentioned and there’s just a lot of
01:00:38.531 --> 01:00:40.637 work this homegrown aspect looking at.
01:00:40.640 --> 01:00:42.418 How can we use our resources to
01:00:42.418 --> 01:00:44.307 develop new new therapeutics or not
01:00:44.307 --> 01:00:46.092 only participating in trials that
01:00:46.092 --> 01:00:48.320 other people have design things forward?
01:00:48.320 --> 01:00:48.944 We’re innovating,
01:00:48.944 --> 01:00:51.440 he ran and bring the best for our
01:00:51.503 --> 01:00:53.183 patients in this particular trial
NOTE Confidence: 0.83236545
01:00:53.183 --> 01:00:54.863 is for people with a.
NOTE Confidence: 0.83236545
01:00:54.870 --> 01:00:56.570 Recurrent type of glioma.
NOTE Confidence: 0.83236545
01:00:56.570 --> 01:00:59.668 But it’s just wonderful to see this
NOTE Confidence: 0.83236545
01:00:59.668 --> 01:01:02.464 this kind of effort and collaboration.
NOTE Confidence: 0.83236545
01:01:02.470 --> 01:01:04.886 And that’s it for my portion of time.
NOTE Confidence: 0.83236545
01:01:04.890 --> 01:01:06.708 Thanks so much for including me.
NOTE Confidence: 0.86554575
01:01:09.820 --> 01:01:12.448 Thanks so much, Bruce.
NOTE Confidence: 0.86554575
01:01:12.450 --> 01:01:14.875 So will hold all questions to the
NOTE Confidence: 0.86554575
01:01:14.875 --> 01:01:17.500 end an our last panelist in our last
NOTE Confidence: 0.86554575
01:01:17.500 --> 01:01:19.896 talk is Brian Jenn who is a licensed
NOTE Confidence: 0.86554575
01:01:19.896 --> 01:01:22.458 social worker with Smilow as well.
NOTE Confidence: 0.8958651
01:01:22.458 --> 01:01:36.356 So thank you for having me.
NOTE Confidence: 0.83947015
01:02:00.110 --> 01:02:01.750 Sorry, a little technical difficulties,
NOTE Confidence: 0.83947015
01:02:01.750 --> 01:02:04.046 but here I have my screen here.
NOTE Confidence: 0.8218864
01:02:08.950 --> 01:02:10.900 Can you guys hear me OK?
Thank you. OK so I’m Brian. I’m one of the clinical social workers at Smilow. I work mainly out of the Trumbull office but I also work at the Greenwich Office and it’s my privilege to work with Doctor Blunden and Doctor McKibben, and my talk is going to be specifically about supporting patients and families through this process and all the different ways we can try to support and help. Through this difficult journey, so I have no disclosures my. My focus will really be on going
through the framework and then practical resources and ways that we can support. So oftentimes when we’re dealing with the tumor or cancer diagnosis, the question is, how do we cope? How do we get through this? How do we make it a little bit easier, a little bit better and the truth of it is it’s a really complex question. It really depends on who’s involved in the family system, what experiences do they bring to the table? What losses or previous diagnosis had they gone through as a family? And also where they are at when diagnosed, it’s an incredibly.
Difficult proposition to sort of bring this all together and really address what is most pressing at any given time. There's a lot of different processes that have to come together to shape what coping is, so the framework that I use, the model that is most helpful is family systems illness, modeled by John Rowland and he developed it while he was at Yale and then went on to University of Chicago and why this is such a useful way of sort of approaching a family and an individual who.
Is suffering through an illness and specifically like a cancer diagnosis is that it breaks up the dimensions and multiple ways and sort of interweaves it together so at the center of it you have the individual whose life has changed and has been altered in a significant way and then bring that brings with emotional turmoil at times. There’s also changes in terms of what is a person going to process, how are they going to deal with their basic needs. What are the practical concerns that they have and then it alters every
relationship within their sphere. These relationship includes their spouses, their children, their work, their friendships and also their developing new relationships. And the most important one is is with their medical team and developing that collaboration to work together to achieve a goal together. So it also recognizes that each stage and phase is different. Often times when I meet with patients, it’s not. Always when their first diagnosis. Sometimes I’m meeting with somebody who’s in a stage of remission and it
01:05:00.918 -- 01:05:02.483 looks very different from somebody
NOTE Confidence: 0.85245454
01:05:02.483 -- 01:05:04.630 who is processing a new diagnosis.
NOTE Confidence: 0.85245454
01:05:04.630 -- 01:05:06.884 You know you can see this sort
NOTE Confidence: 0.85245454
01:05:06.884 -- 01:05:08.788 of onset category that he puts,
NOTE Confidence: 0.85245454
01:05:08.790 -- 01:05:10.710 and oftentimes I sit with patients,
NOTE Confidence: 0.85245454
01:05:10.710 -- 01:05:12.754 and I say it’s like being shot
NOTE Confidence: 0.85245454
01:05:12.754 -- 01:05:14.870 out of a cannon. It’s it’s.
NOTE Confidence: 0.85245454
01:05:14.870 -- 01:05:16.470 There’s no time to prepare.
NOTE Confidence: 0.85245454
01:05:16.470 -- 01:05:18.070 It’s a shock and surreal.
NOTE Confidence: 0.85245454
01:05:18.070 -- 01:05:19.385 And so recognizing what the
NOTE Confidence: 0.85245454
01:05:19.385 -- 01:05:21.166 needs are and what the different
NOTE Confidence: 0.85245454
01:05:21.166 -- 01:05:23.186 challenges are is vitally important.
NOTE Confidence: 0.85245454
01:05:23.190 -- 01:05:26.460 And this does a very good job of sort of.
NOTE Confidence: 0.85245454
01:05:26.460 -- 01:05:29.106 Breaking down the challenges that come in
NOTE Confidence: 0.85245454
01:05:29.106 -- 01:05:31.970 each stage when you have a chronic stage,
NOTE Confidence: 0.85245454
01:05:31.970 -- 01:05:34.166 it’s it’s a place of stability,
but it’s different and that
adaption takes a lot of work and
there still works to process out what
this looks like.
How do we find significant
meaning during that time?
And then this is a process
of constant adaption,
so there’s transitions.
There’s new treatments.
There is also endings at times,
and all these things need to
be addressed and supporting.
Supporting both the patient
and the family together.
So in the first crisis Phase I wanted to highlight a few of the challenges that come up and in the crisis stage phase you have the need to understand what was going on. What does it mean in terms of my life? What does it mean in terms of the treatment will be receiving? How does affect what I was doing previously? You know, if you’re sending off your kids, your kids off the truck college, how does it look to support them when they’re trying to separate in? Differentiate themselves from the family unit at one of the aspects. I really like.
A lot is the third one creating meaning that promotes family mastering and competency, and this is really the narrative that patients and individuals come to in terms of. How I make sense of this and how I transcend beyond it? It is the narrative that incorporate family histories of my parents were extremely resilient and my dad never complained and he always got up for work. These are the things we can tap in the inherent straight strength of family systems and individuals that are there.
And also there’s a grief process that comes up and grieving for the family identity before this disorder. Often times I’ve heard, spouses share how they’re feeling angry at just watching another family going to a diner because it’s so normal. It’s so routine, this is something that needs its place. It needs time to be fully felt and healed. And of course, establishing a relationship with your health care providers and developing that trust and collaborative process. The chronic phase.
It's a little bit different. You know. It's you found a place of stability, but you know, I've heard patients really describe sort of living with anticipatory loss and uncertainty. I've had people say, you know I've returned to normal. I'm baking and gardening and it feels great, but at times I feel really insecure and it's really hard when you have those two incongruent emotional...
states at one time and making sense
of that and being open to each place.
And validating is tremendous
Lee difficult to do also within
the family system?
You know,
developing open communication lines
really sharing the burden amongst
the whole family unit and supporting
each other is a key process.
And and extending on into grief
is is sort of acceptance.
You know, the grief process hasn’t stages.
It has all its difficult emotions
that can come up and it.
But one of the things it leads
A degree of acceptance of where the new normal is, where people are at, and you know where they can do what they can do from there and how they can empower themselves.

So there is another stage of transitions. Anytime there’s a change anytime the family system needs to find equilibrium and sometimes that includes an ending phased in which you know individuals and families have to identify an unfinished business. What’s really important to accomplish and
then really maximizing the quality of life,
the meaning, the purpose, and you know,
bringing that time together to its.
To it, to maximize the goodness that
can come from spending time together.
So this is one of the frameworks that
helps me sort of support patients and
recognize what is important in a given time,
and it’s really excellent in terms of
recognizing the whole picture of the patient.
You know, their history,
their family history,
the multi generational stories
that are shared among them that
have helped them through this.
And also it’s a very positive one in
01:10:03.128 --> 01:10:05.661 terms of it’s really encouraging the
NOTE Confidence: 0.859428
01:10:05.661 --> 01:10:08.340 family to meet these challenges and for
NOTE Confidence: 0.859428
NOTE Confidence: 0.859428
01:10:10.820 --> 01:10:11.882 Ripples it did.
NOTE Confidence: 0.859428
01:10:11.882 --> 01:10:13.298 The effect extends throughout
NOTE Confidence: 0.859428
01:10:13.298 --> 01:10:14.360 the family system,
NOTE Confidence: 0.859428
01:10:14.360 --> 01:10:15.776 and it’s an extraordinarily
NOTE Confidence: 0.859428
01:10:15.776 --> 01:10:17.546 hard challenge to meet alone.
NOTE Confidence: 0.859428
01:10:17.550 --> 01:10:20.727 So the fact that you have people around you,
NOTE Confidence: 0.859428
01:10:20.730 --> 01:10:24.216 the people that can support you.
NOTE Confidence: 0.859428
01:10:24.220 --> 01:10:27.356 It’s vital to tap into that reserve.
NOTE Confidence: 0.86585623
01:10:29.820 --> 01:10:31.955 And you know this is something that you
NOTE Confidence: 0.86585623
01:10:31.955 --> 01:10:34.278 know has been spoken about in terms of
NOTE Confidence: 0.86585623
01:10:34.278 --> 01:10:36.080 maximizing you know why we’re fighting
NOTE Confidence: 0.86585623
01:10:36.080 --> 01:10:38.054 and why we’re going through this is
NOTE Confidence: 0.86585623

124
01:10:38.054 --> 01:10:40.608 that we have to be as a medical team.
NOTE Confidence: 0.86585623
01:10:40.610 --> 01:10:42.236 Very mindful of those goals of
NOTE Confidence: 0.86585623
01:10:42.236 --> 01:10:44.020 what a good life looks like.
NOTE Confidence: 0.86585623
01:10:44.020 --> 01:10:46.127 You know, I’ve heard Doctor Blondin mentioned
NOTE Confidence: 0.86585623
01:10:46.127 --> 01:10:48.557 you know such and such is going to wedding.
NOTE Confidence: 0.86585623
01:10:48.560 --> 01:10:50.712 I’m going to hold off on the treatment
NOTE Confidence: 0.86585623
01:10:50.712 --> 01:10:52.439 for this week and they’re going
NOTE Confidence: 0.86585623
01:10:52.439 --> 01:10:54.530 to have fun and and that’s vital.
NOTE Confidence: 0.86585623
01:10:54.530 --> 01:10:57.599 I mean, This is why we go through all
NOTE Confidence: 0.86585623
01:10:57.599 --> 01:11:00.170 these hardships is to enjoy life.
NOTE Confidence: 0.86585623
01:11:00.170 --> 01:11:02.555 So you know pulling it back to sort of
NOTE Confidence: 0.86585623
01:11:02.555 --> 01:11:05.048 what we do and then in the crisis stage,
NOTE Confidence: 0.86585623
01:11:05.050 --> 01:11:06.898 this is often one of the things that
NOTE Confidence: 0.86585623
01:11:06.898 --> 01:11:08.839 we will help support patients with.
NOTE Confidence: 0.86585623
01:11:08.840 --> 01:11:10.200 This is the practical service.
NOTE Confidence: 0.86585623
01:11:10.200 --> 01:11:12.368 How am I going to pay my bills?
But you know, can I return to work?

What are the things that are going to be helpful in this time?

And these are things that social work entail quick.

There’s a number of resources that I will share at the end and turn websites that you can find out more information about how to navigate this process.

Because you know they didn’t teach us this in school.

This is kind of just thrust upon us,

and so one of the things that we can try to help with is get you the resources of how to apply for disability,
if that’s an option that when people want to pursue how to maintain your health insurance, maybe you know Medicaid is an option. How do we access the. Oh, sorry, the marketplace to find an insurance that fits. So all these sort of things that are basic to our well being and living our life. We will support people with. There was also grants that people can access to help out with basic needs. Paying for utilities, maybe a rent, maybe a mortgage payment. All these sort of things you know,
laying the foundation to getting through this process.

The emotional challenges and, you know, one of the things that were shared with me so succinctly is, a patient said to me. It’s the brain. It’s kind of who we are and this was in regards to the terror that they felt in terms of the changes. The fear of loss. I have had a individual share with me, recognizing that she had lost the ability to sign her name, the ability to sign her name,
and that’s so fundamentally us. And so this is a very unique challenge to brain tumors and brain cancers that it’s really how we define ourselves. It’s our function, it’s our balance, it’s our eyesight. It’s driving it. Independence, and this is a profound in terms of how it affects our life and how it shapes our lives. So often times when I’m sitting with people, there’s two different processes that I sort of flesh out with them, and one is a degree of trauma that it’s going to trigger.
Our anxiety are survival mechanisms, I tell family members. And when I first meet them, are you a little more irritable with each other and they’re like yes, and it’s that’s normal because it’s part of our fight or flight mechanism. And then knowing that and being. Cognizant of that you know helps us sort of be a little bit more gentle to ourselves that you know that we recognize we’re a little bit under stress and this is natural. A lot of my job is normalizing these emotions that it feels so
intense in the very beginning and then giving tools like meditation, prayer in itself is a way of staying present, you know, and having people access the things that make them feel better. The other emotional process that I tend to see is a grief one and that comes with any limitations. Anytime we have obstacle or wall, We triggered the grief process and that grief process can roll into all past losses, and so this is when I oftentimes they really identify and really they really identify and really. stress because it’s not linear. It’s not even logical at times,
but it’s just the power of those emotions in the expression that need to be had. And healing grief is just very simple. It’s feeling the emotions and then reconnecting life and the good ways that really pull you through. So I also want to address the caregivers because. Their job is is vital and these are things that I always share. You’re doing a superb, wonderful job caring for the people you love, and oftentimes it doesn’t feel that way. And the problem is, the game is rigged. You’re balancing two moral
vices together of caring for yourself,

NOTE Confidence: 0.85824853

caring for the person you love,

NOTE Confidence: 0.85824853

and there’s never enough hours in the day.

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So I just want to tell you,

NOTE Confidence: 0.85824853

doing a superb job and a wonderful job,

NOTE Confidence: 0.85824853

the other part of that is that

NOTE Confidence: 0.85824853

guilt is a school for self care.

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So if you’re feeling guilty that

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you can’t do something and you’re

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just a little bit tired.

NOTE Confidence: 0.85824853

It’s really your body saying

NOTE Confidence: 0.85824853

I want to and I’m willing,

NOTE Confidence: 0.85824853

but I need to take care of this so it’s

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OK to care for yourself to slow down.

NOTE Confidence: 0.85824853

Take a time,

NOTE Confidence: 0.85824853

take a time to walk and maybe go
01:15:10.953 --> 01:15:13.241 to a movie or talk to a friend
01:15:13.241 --> 01:15:15.594 because you’re self care is modeling
01:15:15.594 --> 01:15:17.921 within your family system of how
01:15:17.921 --> 01:15:19.576 to prioritize your well being.
01:15:19.580 --> 01:15:21.560 How to nurture yourself and if
01:15:21.560 --> 01:15:23.600 that energy get gets rippled out
01:15:23.600 --> 01:15:25.868 to all the people in your family.
01:15:28.330 --> 01:15:32.768 So just in terms of ending the.
01:15:32.770 --> 01:15:34.856 The talk I really wanted to address,
01:15:34.860 --> 01:15:36.939 sort of the unsung gifts of cancer,
01:15:36.940 --> 01:15:38.220 and this is science.
01:15:38.220 --> 01:15:40.140 Certain things that have been shared
01:15:40.201 --> 01:15:42.084 with me that have really made an
01:15:42.084 --> 01:15:44.124 impact in terms of the wisdom that
01:15:44.124 --> 01:15:45.876 can come from a cancer diagnosis.
The fact that individuals will share, like you know, I, I quit my job and it was the best thing I ever done did in my life and I really prospered in terms of the things I loved and that sort of being true to their authentic self and listening to what’s most important to them. There’s a real clarity that comes from a really Major diagnosis like this and also the fact that our attitude is profoundly important. So we’re not diminishing the emotional impact in the difficulties that arise, but. We have the capacity sort of transcending those difficulties and those obstacles,
and that's one of the things that you know social work wants to help with. Counseling can help with our spiritual practice can help with and to really tap into that as a resource and a tool to getting through difficulty. So I'm going to run through a number of resources we have at smilow. Most importantly, we have the brain tumor Support Group, which is up and running through Stephanie. I saw that mentioned in the chat and I really highly recommend support groups. It's a great way to breakdown feelings.
01:16:55.933 --> 01:16:58.109 of isolation to give mutual aid to help
NOTE Confidence: 0.8848299
01:16:58.109 --> 01:17:00.116 people to get other people’s perspective.
NOTE Confidence: 0.8848299
01:17:00.120 --> 01:17:01.332 It’s a beautiful thing.
NOTE Confidence: 0.8848299
01:17:01.332 --> 01:17:02.847 There’s great sense of humor,
NOTE Confidence: 0.8848299
01:17:02.850 --> 01:17:04.360 it’s it’s a wonderful thing.
NOTE Confidence: 0.8848299
01:17:04.360 --> 01:17:05.875 There’s also a caregiver support
NOTE Confidence: 0.8848299
01:17:05.875 --> 01:17:07.390 group that’s in the evening,
NOTE Confidence: 0.8848299
01:17:07.390 --> 01:17:10.374 so it’s a little bit easier for caregivers.
NOTE Confidence: 0.8848299
01:17:10.380 --> 01:17:13.140 To try to attend and these are all
NOTE Confidence: 0.8848299
01:17:13.140 --> 01:17:15.886 by Zoom who’s who’s run by Mary.
NOTE Confidence: 0.8848299
01:17:15.890 --> 01:17:17.590 There’s also a meaning centered
NOTE Confidence: 0.8848299
01:17:17.590 --> 01:17:19.290 psychotherapy group and that was
NOTE Confidence: 0.8848299
01:17:19.347 --> 01:17:21.675 developer cancer patient and some very
NOTE Confidence: 0.8848299
NOTE Confidence: 0.8848299
01:17:23.230 --> 01:17:25.492 And that’s really to address sort
NOTE Confidence: 0.8848299
01:17:25.492 --> 01:17:28.450 of that feeling of how do I find
01:17:28.450 --> 01:17:29.826 my purpose through this?

NOTE Confidence: 0.8848299

01:17:29.830 --> 01:17:32.766 What is my my new life look like?

NOTE Confidence: 0.8848299

01:17:32.770 --> 01:17:34.948 And it’s done through seven week

NOTE Confidence: 0.8848299

01:17:34.948 --> 01:17:37.170 individual sessions and eight week groups.

NOTE Confidence: 0.8848299

01:17:37.170 --> 01:17:39.010 That palliative care has it.

NOTE Confidence: 0.8848299

01:17:39.010 --> 01:17:42.066 There’s a number of social workers that are.

NOTE Confidence: 0.8848299

01:17:42.070 --> 01:17:42.847 Trained in it,

NOTE Confidence: 0.8848299

01:17:42.847 --> 01:17:45.003 and so you can just ask your team

NOTE Confidence: 0.8848299

01:17:45.003 --> 01:17:46.659 and they can do a referral.

NOTE Confidence: 0.8848299

01:17:46.660 --> 01:17:48.785 We have nutrition as Doctor

NOTE Confidence: 0.8848299

01:17:48.785 --> 01:17:49.635 Blunden mentioned.

NOTE Confidence: 0.8848299

01:17:49.640 --> 01:17:52.615 We have integrated medicine who

NOTE Confidence: 0.8848299

01:17:52.615 --> 01:17:54.995 have wonderful guided meditations.

NOTE Confidence: 0.8848299

01:17:55.000 --> 01:17:57.220 The Covid we did have massage

NOTE Confidence: 0.8848299

01:17:57.220 --> 01:17:58.330 therapy at times,

NOTE Confidence: 0.8848299
and different classes that you can attend in person like Gentle Yoga.

They’re doing a little more remote.

There is also art therapy.

We also have a referral to pack,

which is parenting at a challenging time.

You know,

for individuals with children of any age we have a module that helps people figure out communication tenants

how to maintain open communication,

what emotions to sort of look for and describe and reach for in their children.

And just sort of just ways of creating a normal structure to support people through a difficult time.
Also palliative care is another wonderful referral. They have a holistic practice and they have a very large team that people can have access to. Community resources, so the connected Brain Tumor Alliance education advocacy they have they support groups as well. There's An's place who have individual and group counseling. Cancer Care has online kids hugs is for kids, parents and their children. The American Cancer Society has a number of information transportation
they did have before covid.

And then there’s a number of other ones cancer in careers, triage, cancers. Which helps with employment and legal support and then of course, financial grants to help people meet needs during their treatment.

There’s a cancer Connecticut Cancer Foundation, Lovemark Foundation and cancer care and then this is just the one last slide. It is long term care options through the state of Connecticut. Sometimes when individuals need extra support at home.
These are the programs that are available. The one thing I wanted to point out was that if people under age 64 there is not a lot of great resources, the wait list for that is four to five years. So if anyone is interested in talking about in finding more information they can contact me. And also I would also recommend if we could call your representative and advocate that that’s kind of unacceptable. If that if people need help that we should have that. So I want to thank you and I had to give a special thank you to my wife.
01:20:10.600 --> 01:20:13.117 who kept the house is quiet as I’ve
NOTE Confidence: 0.86480135
01:20:13.117 --> 01:20:15.510 ever heard it with our three little boys.
NOTE Confidence: 0.86480135
01:20:15.510 --> 01:20:18.359 So it was a little leery for a little bit,
NOTE Confidence: 0.86480135
01:20:18.360 --> 01:20:20.088 but thank you for the time.
NOTE Confidence: 0.8691634
NOTE Confidence: 0.8691634
01:20:25.230 --> 01:20:28.560 I know I have my almost 6 year old son who
NOTE Confidence: 0.8691634
01:20:28.560 --> 01:20:31.530 I know is gonna race in here any minute
NOTE Confidence: 0.8691634
01:20:31.614 --> 01:20:34.686 so I can feel the stress and understand.
NOTE Confidence: 0.8691634
01:20:34.690 --> 01:20:37.732 But that was a really beautiful talk and Ann.
NOTE Confidence: 0.8691634
01:20:37.740 --> 01:20:39.576 Thank you so much for summarizing
NOTE Confidence: 0.8691634
01:20:39.576 --> 01:20:41.450 all of those those resources.
NOTE Confidence: 0.8691634
01:20:41.450 --> 01:20:42.464 That’s incredibly helpful,
NOTE Confidence: 0.8691634
01:20:42.464 --> 01:20:43.816 so really appreciate that.
NOTE Confidence: 0.8691634
01:20:43.820 --> 01:20:45.906 And yeah, Jillian had mentioned in the
NOTE Confidence: 0.8691634
01:20:45.906 --> 01:20:48.653 chat and of course you mentioned the brain
NOTE Confidence: 0.8691634
01:20:48.653 --> 01:20:50.920 Tumor Support Group is really useful.
Really helpful.

And now you know is occurring through zoom.

So we can have all of our patients and really very remotely participate,

and that’s open to everyone in anyone.

So I think what we can now do in the interest of time and children who are going to lose it.

Perhaps we can switch to some questions so we have some in the chat box.

I’m never very good at.

And so I’ll start at the beginning.

Yes, it is possible to get the recording of this session and Renee had
already provided the link for that.
NOTE Confidence: 0.84093803

It will be posted in the next few days.
NOTE Confidence: 0.84093803

I believe she said. Uhm?
NOTE Confidence: 0.84093803

Yep, so she has that.
NOTE Confidence: 0.84093803

We have a question of a friend
NOTE Confidence: 0.84093803

recently diagnosed with a glioblastoma.
NOTE Confidence: 0.84093803

She’s 67.
NOTE Confidence: 0.84093803

She was otherwise in good health
NOTE Confidence: 0.84093803

before suffering a grand Mal seizure.
NOTE Confidence: 0.84093803

She had a total resection last week and is
NOTE Confidence: 0.84093803

now starting chemo and radiation therapy.
NOTE Confidence: 0.84093803

She qualifies, do too as I understand it,
NOTE Confidence: 0.84093803

a type of virus she has been exposed
NOTE Confidence: 0.84093803

to in the past for a clinical
NOTE Confidence: 0.84093803

trial being conducted at Duke where
NOTE Confidence: 0.84093803

she is currently being treated.
Can you discuss the options for clinical trials that might be available? Please discuss in lay terms.

Nick, do you know you’ve already elaborated some, but.

Yeah thanks. I mean, generally speaking in terms of clinical trials.

There are individual factors for each trial regarding a person’s eligibility.

Even within glioblastoma Fedsmith later on, not related, and then there’s certain time points at which folks can enter clinical trials.
So one time point is generally after surgery before radiation,
and then a second time point is at times when recurrence or relapse happens in the future. 
A few ways to find out about clinical trials are number one. Ask your doctor. 
They’ll be aware of the clinical trials open at their institution. For example here at Yale. 
I’m aware of all the trials that we have open and the investigators for the site will be the different docs in the practice. So at Yale is myself Doctor Romero, Doctor Barrington.
Dr.
Corbin then looking more broadly, your doctor probably will have a sense of other clinical trials open and a way to kind of search for yourself. Or do you own research is to go to websiteclinicaltrials.gov and within there’s a on the landing page. There is a field that you can enter. Search being for glioblastoma and then filter by the state that you live in your age. You live in your age. What type of trial you would be interested in and look that way another way that you could search for clinical trials.
Just do the national Brain Tumor Society website whichisbraintumor.org. They have a clinical trial search feature which may be a little bit easier for less tech savvy folks to use in clinicaltrials.gov. So I know it Chris mentioned the goal of the Connecticut brain tumor alliances to make Connecticut a center of excellence for different clinical trials. And I do know that Yale has the most number of clinical trials open, but then Hartford Hospital and you can’t help also have different clinical trials. So there are a variety of clinical trials open for patients and they
come and go as they fill up their recruitment goal for patients. And we’re always looking to expand the number of trials that we offer here and bring that to fruition for the state. Great, and along those lines you can always reach out to us for second opinions with regards to clinical trials and care. Alright, are there any additional trials for Optune device in GBM Nick? So there is a device trial for newly diagnosed patients. It’s open at Hartford Hospital and smaller hospitals around the US and in this study there comparing two groups,
The first group being patients who will receive Optune device after radiation is finished in the standard fashion. That’s the kind of the control group and the experimental group starts Optune device when they start radiation therapy, with the theory being that starting up soon earlier. It’s just longer time of exposure to the fields which could be beneficial, and there may be some interaction between electrical fields and radiation that that could be more beneficial killing tumor cells so that study is currently open for enrollment in Hartford I believe, and I and other places,
and I'm looking forward to seeing the results. The results of that study, probably in a couple of years off into the future.

Next question from email. We have some concerns regarding the covid vaccines for brain tumor patients in active treatment, particularly on the clinical trial with Tim is Olumide. How will we know if the code vaccine is effectively brain? Can’t is affecting brain cancer patients negatively?
Or if it is ineffective for brain tumor patients, is just being studied currently? Or is the data specific to this demographic not being collected at all? Are there any symptoms that cancer patients and treatment should watch out for with the first or second vaccine shot? I'd be happy to weigh in on that huge. I've had a number of patients of mine asked me about the Covid vaccine and. Generally speaking, and pretty much essentially in every person's case I recommend, they would proceed with the Covid vaccine.
To protect themselves against Covid's very serious illness, I've lost patients of mine and friends of mine to Covid as I'm sure, pretty probably everyone on the call has over half a million Americans have died from Covid and the vaccines have been proven safe and effective to reduce severe Covid essentially eliminate the chance of severe Covid, so there appears to be no Real changing of a person's body or biology that would impact GBM in any way, either positive or negative, with the Covid vaccine.
Some folks do get a reaction as the immune system becomes immunized by the vaccine. Reports I’m hearing is generally after the shot within 24 to 48 hours lasting for a short period of time. Generally that’s the 24 hours of just feeling something like fatigue or minor fever, and these can be treated with over the counter medications like Tylenol or Motrin. And then you know that’s it, and you will no longer be at risk of getting secret Cove.
It's so I can recommend everyone I meet. Please proceed with getting your covid vaccine and that's how will crush Covid.

That's a whole other weapon alright. And there's guidelines now from the CDC in terms of correct. Also, I will point out there was a hold placed on the single shot Johnson and Johnson vaccine after there were a small number of cases, a few cases reported of a possible Association with blood clotting, something called cerebral venous sign from Sinus Trumbo, SIS and so out of several million
doses of the vaccine given just a.

Few folks had developed the thrombosis, so it’s still somewhat unclear if there is an actual relation of that or not.

But with a person with any increased risk factors of getting deep vein thrombosis or blood clots, the other two vaccines available in the US. The Pfizer and Moderna brand vaccines both don’t have any known association with blood clots and could be something that’s definitely reasonable for a person to receive alright.

Can you elaborate Nick? Just real quick, maybe Methley did versus
01:29:12.030 --> 01:29:12.802 unmethylated. Sure,

01:29:15.504 --> 01:29:17.680 so we now know there are two

01:29:17.680 --> 01:29:19.968 methylated and unmethylated,

01:29:19.970 --> 01:29:23.379 and that refers to the status of

01:29:23.379 --> 01:29:27.117 the gene for the MGMT enzyme and.

01:29:27.120 --> 01:29:29.904 When the gene is methylated within the DNA,

01:29:29.910 --> 01:29:33.334 the gene is turned off and those patients

01:29:33.334 --> 01:29:36.173 don’t have the gene active and so

01:29:36.173 --> 01:29:39.683 they don’t have much of the MGMT enzyme.


01:29:41.670 --> 01:29:42.768 It’s turned on.

01:29:42.768 --> 01:29:45.330 Unmethylated has high levels of the enzyme,

01:29:45.330 --> 01:29:47.520 and temozolomide is less effective,

01:29:47.520 --> 01:29:49.683 so it ends all of my damages
DNA as its mechanism of action.

NOTE Confidence: 0.79012245

01:29:52.280 -- 01:29:54.110 MGMT enzyme reverses the damage,

NOTE Confidence: 0.79012245

01:29:54.110 -- 01:29:55.326 so 10 is old.

NOTE Confidence: 0.79012245

01:29:55.326 -- 01:29:56.846 Might still has some effectiveness

NOTE Confidence: 0.79012245

01:29:56.846 -- 01:29:58.500 and unmethylated patients,

NOTE Confidence: 0.79012245

01:29:58.500 -- 01:30:00.660 but it’s it’s less than methyl

NOTE Confidence: 0.79012245

01:30:00.660 -- 01:30:03.671 lated and so we believe that just

NOTE Confidence: 0.79012245

01:30:03.671 -- 01:30:06.647 metallated patients in general or more.

NOTE Confidence: 0.79012245

01:30:06.650 -- 01:30:08.430 Susceptible to the benefits of

NOTE Confidence: 0.79012245

01:30:08.430 -- 01:30:09.854 radiation and chemo therapies,

NOTE Confidence: 0.79012245

01:30:09.860 -- 01:30:13.073 and that may be why the prognosis is better.

NOTE Confidence: 0.79012245

01:30:13.080 -- 01:30:15.600 And then there may be other

NOTE Confidence: 0.79012245

01:30:15.600 -- 01:30:17.740 biological factors that just make.

NOTE Confidence: 0.79012245

01:30:17.740 -- 01:30:19.488 Methylate is subtype patients

NOTE Confidence: 0.79012245

01:30:19.488 -- 01:30:21.236 better responders to therapy,

NOTE Confidence: 0.79012245

01:30:21.240 -- 01:30:23.420 and they may do better,
and these are still kind of being worked out.

Great in the interest of time.

Will take a few more,

one here asking to provide insight

of my experience of affectedness

of five Ala in extent perception,

overall survival of tumors as

compared to intra operative MRI.

In my personal experience I really use

an rely on the Inter operative MRI.

That’s just my strategy and

seems to work the best for me.

Man we do review.

We do first of all manage a

very large database that has all of
our patients and outcomes that we follow which we continually analyze, and it does support the use of our current strategies.

So we have been satisfied with that. Next one, enjoy the presentations. I’ve recently joined the staff at Rutgers in New Brunswick after 16 years in Kansas City. Looking forward to connecting professionally with you as well. That was the last one. And someone just to thank you, so you’re welcome.
I just want to again thank Chris Cassano from Connecticut Brain Tumor Alliance Renee Gaudet, who thankfully organized all of this and put this together. She always does such an outstanding job, and then my Co. Panelist, Nick Blonde and Bruce Mcgibbon, and Brian Gin for really their outstanding talks. All in honor of Doctor Susie Baras, who is an amazing person, continuing to be treated for for glioblastoma and really giving back and making sure that patients can.
01:32:15.922 --> 01:32:18.507 receive the same level of care that.
NOTE Confidence: 0.8169612
01:32:18.510 --> 01:32:21.062 She has so we look forward to more
NOTE Confidence: 0.8169612
01:32:21.062 --> 01:32:23.488 of these seminars in the future.
NOTE Confidence: 0.8169612
01:32:23.490 --> 01:32:26.088 And if there's any more comments
NOTE Confidence: 0.8169612
NOTE Confidence: 0.8169612
01:32:27.390 --> 01:32:28.755 I'll turn it over to you guys
NOTE Confidence: 0.8169612
NOTE Confidence: 0.82497567
01:32:33.020 --> 01:32:35.194 Just that want to echo what you said?
NOTE Confidence: 0.82497567
01:32:35.200 --> 01:32:37.104 Thank you for the help in organizing
NOTE Confidence: 0.82497567
01:32:37.104 --> 01:32:38.770 and thanks everyone for joining and
NOTE Confidence: 0.82497567
01:32:38.770 --> 01:32:40.360 pleasure to be here this evening.
NOTE Confidence: 0.85076165
01:32:41.880 --> 01:32:44.196 Come to our tumor support groups.
NOTE Confidence: 0.85076165
01:32:44.200 --> 01:32:45.970 Email us if you have any
NOTE Confidence: 0.85076165
01:32:45.970 --> 01:32:47.815 questions or want any additional
NOTE Confidence: 0.85076165
01:32:47.815 --> 01:32:49.597 opinions or conversations.
NOTE Confidence: 0.85076165
01:32:49.600 --> 01:32:51.530 Brain tumor surgery at yale.edu.
163
01:32:51.530 --> 01:32:54.890 Happy to connect you. Alright.

01:32:54.890 --> 01:32:56.576 Thank you, have a good night.

01:32:58.910 --> 01:33:02.166 Did everyone thanks?