WEBVTT

NOTE duration:"00:37:01"

NOTE recognizability:0.865

NOTE language:en-us

NOTE Confidence: 0.8068416725

00:00:00.000 --> 00:00:03.208 See we are talking.

NOTE Confidence: 0.8068416725

00:00:03.210 --> 00:00:07.039 Generally about the topic of uncle fertility,

NOTE Confidence: 0.8068416725

00:00:07.040 --> 00:00:11.255 and more specifically about reproductive

NOTE Confidence: 0.8068416725

00:00:11.255 --> 00:00:13.784 endocrinology and infertility.

NOTE Confidence: 0.8068416725

00:00:13.790 --> 00:00:17.460 Referral for fertility preservation and

NOTE Confidence: 0.8068416725

00:00:17.460 --> 00:00:21.003 patients undergoing chemotherapy or Granada.

NOTE Confidence: 0.8068416725

00:00:21.003 --> 00:00:27.450 Toxic therapy as as the the the poster said.

NOTE Confidence: 0.8068416725

00:00:27.450 --> 00:00:29.676 And we're joined by two members of

NOTE Confidence: 0.8068416725

00:00:29.676 --> 00:00:33.326 the OB GYN department, both who are

NOTE Confidence: 0.8068416725

00:00:33.326 --> 00:00:36.386 relatively young in their careers.

NOTE Confidence: 0.8068416725

00:00:36.390 --> 00:00:38.609 I don't actually know who's going first,

NOTE Confidence: 0.8068416725

00:00:38.610 --> 00:00:40.632 and I'm going to introduce both

NOTE Confidence: 0.8068416725

00:00:40.632 --> 00:00:42.650 of them together as we start,

NOTE Confidence: 0.8068416725

00:00:42.650 --> 00:00:44.390 and they can decide that.

NOTE Confidence: 0.8068416725

00:00:44.390 --> 00:00:45.730 So we have two speakers.

NOTE Confidence: 0.8068416725

00:00:45.730 --> 00:00:48.250 We have Tanya Glenn,

NOTE Confidence: 0.8068416725

00:00:48.250 --> 00:00:50.770 who's originally from Rochester,

NOTE Confidence: 0.8068416725

00:00:50.770 --> 00:00:54.424 MN and went to college at Truman

NOTE Confidence: 0.8068416725

00:00:54.424 --> 00:00:57.722 State University in Missouri and then.

NOTE Confidence: 0.8068416725

00:00:57.722 --> 00:01:01.010 Went on to attend medical school at Saint

NOTE Confidence: 0.8068416725

00:01:01.095 --> 00:01:04.000 Louis University School of Medicine.

NOTE Confidence: 0.8068416725

00:01:04.000 --> 00:01:07.411 And took the what is not such a common

NOTE Confidence: 0.8068416725

00:01:07.411 --> 00:01:10.559 path of of joining the military and

NOTE Confidence: 0.8068416725

00:01:10.559 --> 00:01:12.833 did a combined military and civilian

NOTE Confidence: 0.8068416725

00:01:12.833 --> 00:01:15.775 residency at at Wright Patterson Air Force

NOTE Confidence: 0.8068416725

00:01:15.775 --> 00:01:18.772 Base and Wright University in Dayton, OH.

NOTE Confidence: 0.8068416725

00:01:18.772 --> 00:01:21.908 She's in her final year of REI training

NOTE Confidence: 0.8068416725

00:01:21.908 --> 00:01:25.377 at Yale and is going to be taking a

NOTE Confidence: 0.8068416725

00:01:25.377 --> 00:01:28.519 position at Brooks Army Medical Center.

NOTE Confidence: 0.8068416725

00:01:28.520 --> 00:01:32.000 After completing her her

NOTE Confidence: 0.8068416725

00:01:32.000 --> 00:01:34.610 fellowship this year.

NOTE Confidence: 0.8068416725

00:01:34.610 --> 00:01:39.810 And she is joined by Gabriella Barouch Kim,

NOTE Confidence: 0.8068416725

00:01:39.810 --> 00:01:42.050 who is from Los Angeles,

NOTE Confidence: 0.8068416725

00:01:42.050 --> 00:01:43.952 originally received her

NOTE Confidence: 0.8068416725

00:01:43.952 --> 00:01:46.488 undergraduate degree at UCLA,

NOTE Confidence: 0.8068416725

00:01:46.490 --> 00:01:50.074 where she received a number of honors

NOTE Confidence: 0.8068416725

00:01:50.074 --> 00:01:54.440 and went on to medical school at UCSF.

NOTE Confidence: 0.8068416725

00:01:54.440 --> 00:01:58.444 She is a third year resident in

NOTE Confidence: 0.8068416725

00:01:58.444 --> 00:02:03.289 OBGYN and is also interested in REI.

NOTE Confidence: 0.8068416725

00:02:03.290 --> 00:02:06.391 And is in the process of applying

NOTE Confidence: 0.8068416725

00:02:06.391 --> 00:02:07.720 for reproductive endocrinology

NOTE Confidence: 0.8068416725

00:02:07.795 --> 00:02:09.735 and infertility fellowships as the

NOTE Confidence: 0.8068416725

00:02:09.735 --> 00:02:12.624 parent of a child who went through

NOTE Confidence: 0.8068416725

00:02:12.624 --> 00:02:14.380 the Yale OBGYN Residency.

NOTE Confidence: 0.8068416725

00:02:14.380 --> 00:02:17.047 It's always nice to interact with the

NOTE Confidence: 0.8068416725

00:02:17.047 --> 00:02:19.739 with with Yale OBGYN and residents,

NOTE Confidence: 0.8068416725

00:02:19.740 --> 00:02:23.009 so they're they're here today and I'm

NOTE Confidence: 0.8068416725

00:02:23.009 --> 00:02:25.879 I'm not entirely sure what order.

NOTE Confidence: 0.8068416725

00:02:25.880 --> 00:02:27.506 I'm not entirely sure who's talking

NOTE Confidence: 0.8068416725

00:02:27.506 --> 00:02:28.048 about what,

NOTE Confidence: 0.8068416725

00:02:28.050 --> 00:02:29.580 but I'm going to leave it to the two of you.

NOTE Confidence: 0.8068416725

00:02:29.580 --> 00:02:31.140 You're both on one screen and

NOTE Confidence: 0.8068416725

00:02:31.140 --> 00:02:33.050 I think you can figure it out.

NOTE Confidence: 0.8068416725

00:02:33.050 --> 00:02:35.060 Welcome, thank you for joining us.

NOTE Confidence: 0.6345627

00:02:36.710 --> 00:02:39.910 Thank you, thank you for having us.

NOTE Confidence: 0.88201729625

00:02:39.910 --> 00:02:41.125 So I'm Gabriella.

NOTE Confidence: 0.88201729625

00:02:41.125 --> 00:02:43.150 I'm here with Doctor Glenn.

NOTE Confidence: 0.88201729625

00:02:43.150 --> 00:02:45.535 We're actually going to be

NOTE Confidence: 0.88201729625

00:02:45.535 --> 00:02:47.220 Co presenting and Doctor

NOTE Confidence: 0.88201729625

00:02:47.220 --> 00:02:49.410 Glenn is going to help answer

NOTE Confidence: 0.88201729625

00:02:49.410 --> 00:02:51.320 questions at the end as well.

NOTE Confidence: 0.478887551

00:03:01.820 --> 00:03:05.320 OK, your slides. They look perfect.

NOTE Confidence: 0.478887551

00:03:05.800 --> 00:03:08.620 Perfect thank you so much.

NOTE Confidence: 0.478887551

00:03:08.620 --> 00:03:11.188 So today as you already mentioned,

NOTE Confidence: 0.478887551

00:03:11.190 --> 00:03:13.512 we're going to be talking about

NOTE Confidence: 0.478887551

00:03:13.512 --> 00:03:15.060 fertility preservation for patients

NOTE Confidence: 0.478887551

00:03:15.122 --> 00:03:17.030 undergoing gonadal toxic therapy.

NOTE Confidence: 0.855474025

00:03:20.150 --> 00:03:21.802 Neither Doctor Glenn nor

NOTE Confidence: 0.855474025

00:03:21.802 --> 00:03:23.454 I have any disclosures.

NOTE Confidence: 0.928460656

00:03:25.560 --> 00:03:28.570 So our objective with this talk is to try to

NOTE Confidence: 0.928460656

00:03:28.638 --> 00:03:31.578 raise awareness for fertility preservation.

NOTE Confidence: 0.928460656

00:03:31.580 --> 00:03:34.170 Encourage patient and provider discussions

NOTE Confidence: 0.928460656

00:03:34.170 --> 00:03:36.760 surrounding the implications of cancer

NOTE Confidence: 0.928460656

00:03:36.831 --> 00:03:39.516 treatment on future reproductive capacity,

NOTE Confidence: 0.928460656

00:03:39.520 --> 00:03:41.278 improve multidisciplinary collaboration

NOTE Confidence: 0.928460656

00:03:41.278 --> 00:03:44.208 between providers caring for these

NOTE Confidence: 0.928460656

00:03:44.208 --> 00:03:47.140 patients and reproductive specialists,

NOTE Confidence: 0.928460656

00:03:47.140 --> 00:03:49.720 and discuss options for fertility

NOTE Confidence: 0.928460656

00:03:49.720 --> 00:03:52.988 preservation for patients who hope to

NOTE Confidence: 0.928460656

00:03:52.988 --> 00:03:55.416 preserve their reproductive capacity.

NOTE Confidence: 0.928460656

00:03:55.420 --> 00:03:57.532 So first I'd like to start with a

NOTE Confidence: 0.928460656

00:03:57.532 --> 00:03:59.800 little bit of background on this topic.

NOTE Confidence: 0.928460656

00:03:59.800 --> 00:04:02.326 The term oncofertility was coined by

NOTE Confidence: 0.928460656

00:04:02.326 --> 00:04:05.774 Doctor Woodruff and it refers to a field

NOTE Confidence: 0.928460656

00:04:05.774 --> 00:04:08.300 of medicine concerned with minimizing the

NOTE Confidence: 0.928460656

00:04:08.380 --> 00:04:11.254 negative effects of cancer treatment on

NOTE Confidence: 0.928460656

00:04:11.254 --> 00:04:13.714 the reproductive system and fertility,

NOTE Confidence: 0.928460656

00:04:13.714 --> 00:04:16.434 with assisting individuals with reproductive

NOTE Confidence: 0.928460656

00:04:16.434 --> 00:04:19.160 impairments resulting from cancer therapy.

NOTE Confidence: 0.908568968461538

00:04:22.020 --> 00:04:24.771 So what population are we referring to

NOTE Confidence: 0.908568968461538

00:04:24.771 --> 00:04:27.288 when we discuss fertility preservation

NOTE Confidence: 0.908568968461538

00:04:27.288 --> 00:04:31.084 for patients undergoing cancer therapy?

NOTE Confidence: 0.908568968461538

00:04:31.084 --> 00:04:35.334 So over 200,000 people under the age of

NOTE Confidence: 0.908568968461538

00:04:35.334 --> 00:04:38.259 49 are diagnosed with cancer annually

NOTE Confidence: 0.908568968461538

00:04:38.259 --> 00:04:41.023 and 85% of patients less than 39 years

NOTE Confidence: 0.908568968461538

00:04:41.023 --> 00:04:42.989 old will survive for five years.

NOTE Confidence: 0.965542308

00:04:45.590 --> 00:04:50.194 70,000 new cases a year of cancer

NOTE Confidence: 0.965542308

00:04:50.194 --> 00:04:53.004 are diagnosed in adolescence and

NOTE Confidence: 0.965542308

00:04:53.004 --> 00:04:55.654 young adults of these patients,

NOTE Confidence: 0.965542308

00:04:55.654 --> 00:04:57.642 more than 90% of them,

NOTE Confidence: 0.965542308

00:04:57.642 --> 00:04:59.910 will survive for at least five years,

NOTE Confidence: 0.965542308

00:04:59.910 --> 00:05:02.500 and these patients tend to be healthier

NOTE Confidence: 0.965542308

00:05:02.500 --> 00:05:04.850 and tolerate more intense therapies,

NOTE Confidence: 0.965542308

00:05:04.850 --> 00:05:06.970 which is relevant because more

NOTE Confidence: 0.965542308

00:05:06.970 --> 00:05:08.666 intense therapies can drastically

NOTE Confidence: 0.965542308

00:05:08.666 --> 00:05:10.709 reduce the reproductive lifespan.

NOTE Confidence: 0.910569123333333

00:05:13.930 --> 00:05:16.966 Certain cancer treatments such as radiation,

NOTE Confidence: 0.910569123333333

00:05:16.970 --> 00:05:18.356 chemotherapy, and surgery,

NOTE Confidence: 0.910569123333333

00:05:18.356 --> 00:05:21.128 can lead to sterility and subfertility.

NOTE Confidence: 0.910569123333333

00:05:21.130 --> 00:05:23.986 So next I'd like to briefly discuss

NOTE Confidence: 0.910569123333333

00:05:23.986 --> 00:05:26.325 what some of the morbidities

NOTE Confidence: 0.910569123333333

00:05:26.325 --> 00:05:28.880 of are of these therapies.

NOTE Confidence: 0.910569123333333

00:05:28.880 --> 00:05:32.240 So specifically regarding radiation therapy,

NOTE Confidence: 0.910569123333333

00:05:32.240 --> 00:05:34.684 there are acute morbidities,

NOTE Confidence: 0.910569123333333

00:05:34.684 --> 00:05:36.517 including primary hypogonadism,

NOTE Confidence: 0.910569123333333

00:05:36.520 --> 00:05:38.308 premature ovarian insufficiency,

NOTE Confidence: 0.910569123333333

00:05:38.308 --> 00:05:40.692 which was previously referred

NOTE Confidence: 0.910569123333333

00:05:40.692 --> 00:05:43.779 to as premature ovarian failure,

NOTE Confidence: 0.910569123333333

00:05:43.780 --> 00:05:44.842 central hypogonadism,

NOTE Confidence: 0.910569123333333

00:05:44.842 --> 00:05:47.497 specifically for patients who are

NOTE Confidence: 0.910569123333333

00:05:47.497 --> 00:05:49.839 undergoing radiation to the brain,

NOTE Confidence: 0.910569123333333

00:05:49.840 --> 00:05:51.496 and then there are late morbidities,

NOTE Confidence: 0.910569123333333

00:05:51.500 --> 00:05:53.855 including secondary cancers that can

NOTE Confidence: 0.910569123333333

00:05:53.855 --> 00:05:55.739 result from radiation therapies,

NOTE Confidence: 0.910569123333333

00:05:55.740 --> 00:05:58.290 hypothalamic pituitary ovarian

NOTE Confidence: 0.910569123333333

00:05:58.290 --> 00:05:59.990 access deficiencies.

NOTE Confidence: 0.910569123333333

00:05:59.990 --> 00:06:01.406 Spinal cord dysfunction,

NOTE Confidence: 0.910569123333333

00:06:01.406 --> 00:06:03.294 which can potentially lead

NOTE Confidence: 0.910569123333333

00:06:03.294 --> 00:06:05.844 to impotence among males and

NOTE Confidence: 0.910569123333333

00:06:05.844 --> 00:06:07.960 infertility or ovarian insufficiency.

NOTE Confidence: 0.95036386

00:06:10.940 --> 00:06:13.500 Regarding the effects of chemotherapy,

NOTE Confidence: 0.95036386

00:06:13.500 --> 00:06:16.398 there are the effects of late morbidity,

NOTE Confidence: 0.95036386

00:06:16.400 --> 00:06:17.974 including infertility,

NOTE Confidence: 0.95036386

00:06:17.974 --> 00:06:20.335 premature ovarian insufficiency

NOTE Confidence: 0.95036386

00:06:20.335 --> 00:06:22.696 and primary hypogonadism,

NOTE Confidence: 0.95036386

00:06:22.700 --> 00:06:24.785 and there are increased risks

NOTE Confidence: 0.95036386

00:06:24.785 --> 00:06:26.870 specifically with people who are

NOTE Confidence: 0.95036386

00:06:26.939 --> 00:06:28.903 receiving alkylating agents or

NOTE Confidence: 0.95036386

00:06:28.903 --> 00:06:31.358 patients with Hodgkin's lymphoma or

NOTE Confidence: 0.95036386

00:06:31.358 --> 00:06:33.695 breast cancer with undergoing adjuvant

NOTE Confidence: 0.95036386

00:06:33.695 --> 00:06:36.359 therapy where at increased risk of

NOTE Confidence: 0.95036386

00:06:36.360 --> 00:06:38.328 premature ovarian insufficiency.

NOTE Confidence: 0.901384763333333

00:06:41.640 --> 00:06:43.584 Regarding stem cell therapies

NOTE Confidence: 0.901384763333333

00:06:43.584 --> 00:06:46.014 and the effects of those,

NOTE Confidence: 0.901384763333333

00:06:46.020 --> 00:06:48.372 those can lead to gonadal dysfunction

NOTE Confidence: 0.901384763333333

00:06:48.372 --> 00:06:50.552 and the late morbidity associated

NOTE Confidence: 0.901384763333333

00:06:50.552 --> 00:06:52.704 with those include secondary

NOTE Confidence: 0.901384763333333

00:06:52.704 --> 00:06:54.856 cancers and endocrine dysfunction.

NOTE Confidence: 0.914950466086956

00:06:57.170 --> 00:06:59.570 Lastly, there are the surgical effects

NOTE Confidence: 0.914950466086956

00:06:59.570 --> 00:07:02.279 of cancer therapies and the acute and

NOTE Confidence: 0.914950466086956

00:07:02.279 --> 00:07:04.367 long term effects of those include

NOTE Confidence: 0.914950466086956

00:07:04.367 --> 00:07:06.589 early menopause and sterilization.

NOTE Confidence: 0.914950466086956

00:07:06.590 --> 00:07:08.675 For example, if somebody would

NOTE Confidence: 0.914950466086956

00:07:08.675 --> 00:07:11.184 need to undergo removal of their

NOTE Confidence: 0.914950466086956

00:07:11.184 --> 00:07:12.856 ovaries or fallopian tubes.

NOTE Confidence: 0.796782801818182

00:07:15.260 --> 00:07:17.680 So different therapies have

NOTE Confidence: 0.796782801818182

00:07:17.680 --> 00:07:19.495 different reproductive reproductive

NOTE Confidence: 0.796782801818182

00:07:19.495 --> 00:07:21.740 risks associated with them,

NOTE Confidence: 0.796782801818182

00:07:21.740 --> 00:07:24.205 so high risk therapies include

NOTE Confidence: 0.796782801818182

00:07:24.205 --> 00:07:26.177 high dose pelvic radiation,

NOTE Confidence: 0.796782801818182

00:07:26.180 --> 00:07:28.980 radiation to the brain,

NOTE Confidence: 0.796782801818182

00:07:28.980 --> 00:07:31.780 hematopoietic stem cell transplantation,

NOTE Confidence: 0.796782801818182

00:07:31.780 --> 00:07:34.800 total body radiation or chemotherapy

NOTE Confidence: 0.796782801818182

00:07:34.800 --> 00:07:37.820 with high dose alkylating agents,

NOTE Confidence: 0.796782801818182

00:07:37.820 --> 00:07:40.000 whereas low risk therapies include

NOTE Confidence: 0.796782801818182

00:07:40.000 --> 00:07:42.770 low dose radiation to the pelvis,

NOTE Confidence: 0.796782801818182

00:07:42.770 --> 00:07:45.734 non alkylating chemotherapeutic drugs.

NOTE Confidence: 0.796782801818182

00:07:45.734 --> 00:07:47.216 Or antimetabolites.

NOTE Confidence: 0.913877095625

00:07:50.510 --> 00:07:52.386 So now I'd like to transition a

NOTE Confidence: 0.913877095625

00:07:52.386 --> 00:07:54.107 bit to discuss the importance

NOTE Confidence: 0.913877095625

00:07:54.107 --> 00:07:55.815 of counseling these patients.

NOTE Confidence: 0.860479558888889

00:07:59.430 --> 00:08:01.755 So all patients of reproductive

NOTE Confidence: 0.860479558888889

00:08:01.755 --> 00:08:04.080 age who will undergo potentially

NOTE Confidence: 0.860479558888889

00:08:04.160 --> 00:08:07.115 gonadal toxic therapies should be

NOTE Confidence: 0.860479558888889

00:08:07.115 --> 00:08:08.888 receiving fertility counseling.

NOTE Confidence: 0.860479558888889

00:08:08.890 --> 00:08:12.362 This is in line with guidelines from the

NOTE Confidence: 0.860479558888889

00:08:12.362 --> 00:08:14.909 American Society of Clinical Oncology,

NOTE Confidence: 0.860479558888889

00:08:14.910 --> 00:08:17.645 which reports that all oncologic

NOTE Confidence: 0.860479558888889

00:08:17.645 --> 00:08:19.833 healthcare providers should be

NOTE Confidence: 0.860479558888889

00:08:19.833 --> 00:08:21.822 prepared to discuss infertility

NOTE Confidence: 0.860479558888889

00:08:21.822 --> 00:08:24.552 as a potential risk of therapy.

NOTE Confidence: 0.860479558888889

00:08:24.560 --> 00:08:27.194 The NCCN practice guideline also says

NOTE Confidence: 0.860479558888889

00:08:27.194 --> 00:08:29.443 that fertility preservation is an

NOTE Confidence: 0.860479558888889

00:08:29.443 --> 00:08:31.573 essential element of management of

NOTE Confidence: 0.860479558888889

00:08:31.573 --> 00:08:34.119 adolescents and young adults with cancer.

NOTE Confidence: 0.876169466666667

00:08:36.590 --> 00:08:40.271 That being said, less than half of US doctors

NOTE Confidence: 0.876169466666667

00:08:40.271 --> 00:08:43.327 inform cancer patients of childbearing

NOTE Confidence: 0.876169466666667

00:08:43.327 --> 00:08:45.887 age about fertility preservation,

NOTE Confidence: 0.876169466666667

00:08:45.890 --> 00:08:48.774 and only 47% of US doctors routinely

NOTE Confidence: 0.876169466666667

00:08:48.774 --> 00:08:51.321 refer cancer patients of childbearing

NOTE Confidence: 0.876169466666667

00:08:51.321 --> 00:08:53.785 age to reproductive endocrinologist.

NOTE Confidence: 0.939442077142857

00:08:56.200 --> 00:08:58.960 54% of oncologists do not discuss

NOTE Confidence: 0.939442077142857

00:08:58.960 --> 00:09:01.440 fertility, according to the JNC

NOTE Confidence: 0.939442077142857

00:09:01.440 --> 00:09:04.559 CN that was published in 2013,

NOTE Confidence: 0.939442077142857

00:09:04.559 --> 00:09:06.326 whereas specifically pediatric

NOTE Confidence: 0.939442077142857

00:09:06.326 --> 00:09:09.860 oncologists tend to do a bit

NOTE Confidence: 0.939442077142857

00:09:09.953 --> 00:09:12.495 better and 94% of pediatric

NOTE Confidence: 0.939442077142857

00:09:12.495 --> 00:09:14.130 oncologists discuss fertility.

NOTE Confidence: 0.8655962927

00:09:16.230 --> 00:09:18.100 And what basically this highlights

NOTE Confidence: 0.8655962927

00:09:18.100 --> 00:09:20.606 is that there is a discrepancy

NOTE Confidence: 0.8655962927

00:09:20.606 --> 00:09:23.426 between the current guidelines and

NOTE Confidence: 0.8655962927

00:09:23.426 --> 00:09:25.682 the reality regarding counseling,

NOTE Confidence: 0.8655962927

00:09:25.690 --> 00:09:28.057 and this is something for all of us to

NOTE Confidence: 0.8655962927

00:09:28.057 --> 00:09:30.615 work on and an area for improvement to

NOTE Confidence: 0.8655962927

00:09:30.615 --> 00:09:33.049 increase access to fertility preservation.

NOTE Confidence: 0.89745851

00:09:36.240 --> 00:09:40.136 So what about Yale? What is going on?

NOTE Confidence: 0.89745851

00:09:40.140 --> 00:09:43.740 How are you doing with counseling at Yale

NOTE Confidence: 0.89745851

00:09:43.740 --> 00:09:46.715 regarding fertility preservation for patients

NOTE Confidence: 0.89745851

00:09:46.715 --> 00:09:50.500 undergoing therapy for their cancer?

NOTE Confidence: 0.89745851

00:09:50.500 --> 00:09:54.460 So we do have one study that looks into

NOTE Confidence: 0.89745851

00:09:54.460 --> 00:09:57.792 how what percentage of patients are being

NOTE Confidence: 0.89745851

00:09:57.792 --> 00:10:00.350 counselled specifically for patients

NOTE Confidence: 0.89745851

00:10:00.350 --> 00:10:03.110 who are prescribed cyclophosphamide.

NOTE Confidence: 0.89745851

00:10:03.110 --> 00:10:07.666 The study included 236 reproductive age women

NOTE Confidence: 0.89745851

00:10:07.666 --> 00:10:13.720 between December of 2019 and October of 2021.

NOTE Confidence: 0.89745851

00:10:13.720 --> 00:10:17.640 And of these 236 patients,

NOTE Confidence: 0.89745851

00:10:17.640 --> 00:10:20.368 33% received family planning

NOTE Confidence: 0.89745851

00:10:20.368 --> 00:10:24.212 counseling and 9% were offered

NOTE Confidence: 0.89745851

00:10:24.212 --> 00:10:26.900 ovarian tissue cryopreservation.

NOTE Confidence: 0.89745851

00:10:26.900 --> 00:10:29.115 There were certain factors which

NOTE Confidence: 0.89745851

00:10:29.115 --> 00:10:30.887 modified a patient's likelihood

NOTE Confidence: 0.89745851

00:10:30.887 --> 00:10:33.411 for receiving counseling and those

NOTE Confidence: 0.89745851

00:10:33.411 --> 00:10:35.287 included Caucasian race age,

NOTE Confidence: 0.89745851

00:10:35.287 --> 00:10:36.388 less than 40,

NOTE Confidence: 0.89745851

00:10:36.388 --> 00:10:39.106 and those who had living children were

NOTE Confidence: 0.89745851

00:10:39.106 --> 00:10:41.764 less likely to receive this counseling.

NOTE Confidence: 0.948708902222222

00:10:46.220 --> 00:10:49.166 So how can we improve access

NOTE Confidence: 0.948708902222222

00:10:49.166 --> 00:10:50.639 for fertility preservation?

NOTE Confidence: 0.939861242142857

00:10:53.570 --> 00:10:55.957 There are several things that need to

NOTE Confidence: 0.939861242142857

00:10:55.957 --> 00:10:58.457 happen for us to achieve that goal.

NOTE Confidence: 0.939861242142857

00:10:58.460 --> 00:11:01.810 One is to increase awareness.

NOTE Confidence: 0.939861242142857

00:11:01.810 --> 00:11:04.962 Next would be to assess patient's

NOTE Confidence: 0.939861242142857

00:11:04.962 --> 00:11:06.890 interest in receiving fertility,

NOTE Confidence: 0.939861242142857

00:11:06.890 --> 00:11:10.310 preservation treatment,

NOTE Confidence: 0.939861242142857

00:11:10.310 --> 00:11:13.235 as well as the provider

NOTE Confidence: 0.939861242142857

00:11:13.235 --> 00:11:14.990 providing basic counseling

NOTE Confidence: 0.939861242142857

00:11:14.990 --> 00:11:17.330 regarding fertility preservation.

NOTE Confidence: 0.939861242142857

00:11:17.330 --> 00:11:19.490 Placing a referral when indicated,

NOTE Confidence: 0.939861242142857

00:11:19.490 --> 00:11:21.152 and then ensuring that a patient

NOTE Confidence: 0.939861242142857

00:11:21.152 --> 00:11:22.880 is able to access this care.

NOTE Confidence: 0.936076306666667

00:11:27.340 --> 00:11:30.520 So how do we increase awareness?

NOTE Confidence: 0.936076306666667

00:11:30.520 --> 00:11:33.040 Well, patients are often overwhelmed

NOTE Confidence: 0.936076306666667

00:11:33.040 --> 00:11:35.848 by a cancer diagnosis, especially when

NOTE Confidence: 0.936076306666667

00:11:35.848 --> 00:11:37.818 they first receive that diagnosis.

NOTE Confidence: 0.936076306666667

00:11:37.820 --> 00:11:39.490 They can be worried about

NOTE Confidence: 0.936076306666667

00:11:39.490 --> 00:11:40.826 delays in cancer treatment,

NOTE Confidence: 0.936076306666667

00:11:40.830 --> 00:11:44.662 or they could just be unaware of the

NOTE Confidence: 0.936076306666667

00:11:44.662 --> 00:11:47.543 potential effects of their therapy

NOTE Confidence: 0.936076306666667

00:11:47.543 --> 00:11:49.979 on their reproductive capacity.

NOTE Confidence: 0.936076306666667

00:11:49.980 --> 00:11:52.614 The medical team already has a

NOTE Confidence: 0.936076306666667

00:11:52.614 --> 00:11:55.219 considerable amount of counseling to do

NOTE Confidence: 0.936076306666667

00:11:55.219 --> 00:11:57.535 when a patient receives this diagnosis,

NOTE Confidence: 0.936076306666667

00:11:57.540 --> 00:12:00.996 and oftentimes that the discussion of

NOTE Confidence: 0.936076306666667

00:12:00.996 --> 00:12:04.380 fertility preservation cannot be prioritized.

NOTE Confidence: 0.936076306666667

00:12:04.380 --> 00:12:06.991 However, the onus really falls on the

NOTE Confidence: 0.936076306666667

00:12:06.991 --> 00:12:09.585 medical team to be able to identify

NOTE Confidence: 0.936076306666667

00:12:09.585 --> 00:12:12.502 these patients who are at risk and to

NOTE Confidence: 0.936076306666667

00:12:12.502 --> 00:12:14.698 be able to provide basic counseling

NOTE Confidence: 0.936076306666667

00:12:14.698 --> 00:12:17.326 and place the referral to reproductive

NOTE Confidence: 0.936076306666667

00:12:17.326 --> 00:12:18.748 endocrinology when indicated.

NOTE Confidence: 0.91699023

00:12:21.330 --> 00:12:24.642 So what are some ways that we propose we

NOTE Confidence: 0.91699023

00:12:24.642 --> 00:12:28.065 optimize this awareness so one is just

NOTE Confidence: 0.91699023

00:12:28.065 --> 00:12:30.049 through education and collaboration,

NOTE Confidence: 0.91699023

00:12:30.050 --> 00:12:32.577 which is why doctor Glenn and I

NOTE Confidence: 0.91699023

00:12:32.577 --> 00:12:35.810 are here is to try to promote that

NOTE Confidence: 0.91699023

00:12:35.810 --> 00:12:38.483 and something else that we that

NOTE Confidence: 0.91699023

00:12:38.483 --> 00:12:41.548 we proposed was epic optimization,

NOTE Confidence: 0.91699023

00:12:41.550 --> 00:12:42.762 which we'll talk about a little

NOTE Confidence: 0.91699023

00:12:42.762 --> 00:12:44.090 bit more in the next slide.

NOTE Confidence: 0.882033265

00:12:46.740 --> 00:12:49.344 So something that Doctor Glenn and I

NOTE Confidence: 0.882033265

00:12:49.344 --> 00:12:51.732 had proposed to the Epic optimization

NOTE Confidence: 0.882033265

00:12:51.732 --> 00:12:54.532 team is to potentially have a hard

NOTE Confidence: 0.882033265

00:12:54.611 --> 00:12:57.523 stop when a new diagnosis of cancer is

NOTE Confidence: 0.882033265

00:12:57.523 --> 00:13:00.568 entered into a patients problem list.

NOTE Confidence: 0.882033265

00:13:00.568 --> 00:13:04.852 A provider could could encounter this alert

NOTE Confidence: 0.882033265

00:13:04.852 --> 00:13:08.680 that would require that they acknowledge

NOTE Confidence: 0.882033265

00:13:08.778 --> 00:13:12.900 a reason for either referring a patient

NOTE Confidence: 0.882033265

00:13:12.900 --> 00:13:16.260 to reproductive endocrinology or not.

NOTE Confidence: 0.882033265

00:13:16.260 --> 00:13:18.570 Facing a referral or acknowledging that

NOTE Confidence: 0.882033265

00:13:18.570 --> 00:13:21.238 this is not applicable for this patient.

NOTE Confidence: 0.860350266333333

00:13:23.850 --> 00:13:27.082 After a after a provider is met with

NOTE Confidence: 0.860350266333333

00:13:27.082 --> 00:13:29.910 this alert they would then when

NOTE Confidence: 0.860350266333333

00:13:29.910 --> 00:13:32.802 indicated either place a consult to

NOTE Confidence: 0.860350266333333

00:13:32.889 --> 00:13:36.263 gynecology when a patient is in the

NOTE Confidence: 0.860350266333333

00:13:36.263 --> 00:13:39.170 inpatient setting or if they are in

NOTE Confidence: 0.860350266333333

00:13:39.170 --> 00:13:40.995 the outpatient setting they would

NOTE Confidence: 0.860350266333333

00:13:40.995 --> 00:13:43.229 simply just place an REI referral.

NOTE Confidence: 0.860350266333333

00:13:43.230 --> 00:13:46.830 I just want to highlight here that when

NOTE Confidence: 0.860350266333333

00:13:46.830 --> 00:13:49.682 patients are in the inpatient setting,

NOTE Confidence: 0.860350266333333

00:13:49.682 --> 00:13:53.280 that console is a general consult to

NOTE Confidence: 0.860350266333333

00:13:53.280 --> 00:13:56.140 gynecology. Once that console is placed,

NOTE Confidence: 0.860350266333333

00:13:56.140 --> 00:13:58.920 the guide, the inpatient gynecology

NOTE Confidence: 0.860350266333333

00:13:58.920 --> 00:14:01.144 resident team will contact

NOTE Confidence: 0.860350266333333

00:14:01.144 --> 00:14:02.820 reproductive endocrinology.

NOTE Confidence: 0.74503135

00:14:05.110 --> 00:14:10.326 This can also be done for for preservation.

NOTE Confidence: 0.74503135

00:14:10.326 --> 00:14:13.265 For male patients, it would still be a

NOTE Confidence: 0.74503135

00:14:13.265 --> 00:14:15.099 gynecology consult in that case as well.

NOTE Confidence: 0.817576109

00:14:17.920 --> 00:14:20.624 So now regarding education,

NOTE Confidence: 0.817576109

00:14:20.624 --> 00:14:23.328 the Oncofertility Conservatorium was

NOTE Confidence: 0.817576109

00:14:23.328 --> 00:14:26.400 developed in 2007 to address the lack

NOTE Confidence: 0.817576109

00:14:26.400 --> 00:14:27.776 of knowledge concerning fertility,

NOTE Confidence: 0.817576109

00:14:27.780 --> 00:14:31.535 preservation and the National physicians

NOTE Confidence: 0.817576109

00:14:31.535 --> 00:14:34.539 cooperative includes 83 institutions,

NOTE Confidence: 0.817576109

00:14:34.540 --> 00:14:36.206 including oncologists,

NOTE Confidence: 0.817576109

00:14:36.206 --> 00:14:37.872 surgeons, endocrinologists,

NOTE Confidence: 0.817576109

00:14:37.872 --> 00:14:39.538 reproductive endocrinologist,

NOTE Confidence: 0.817576109

00:14:39.540 --> 00:14:41.472 urologist, rheumatologist, geneticist,

NOTE Confidence: 0.817576109

00:14:41.472 --> 00:14:44.048 and mental health providers,

NOTE Confidence: 0.817576109

00:14:44.050 --> 00:14:47.770 and below are also different links.

NOTE Confidence: 0.817576109

00:14:47.770 --> 00:14:52.066 That can be used by both providers and

NOTE Confidence: 0.817576109

00:14:52.066 --> 00:14:56.516 patients to promote education on this topic.

NOTE Confidence: 0.90424603

00:15:00.600 --> 00:15:02.216 And then regarding counseling.

NOTE Confidence: 0.90424603

00:15:02.216 --> 00:15:04.236 So there are several steps

NOTE Confidence: 0.90424603

00:15:04.236 --> 00:15:06.119 involved in counseling patients,

NOTE Confidence: 0.90424603

00:15:06.120 --> 00:15:08.848 including informing patients of

NOTE Confidence: 0.90424603

00:15:08.848 --> 00:15:12.258 the potential risks to fertility.

NOTE Confidence: 0.90424603

00:15:12.260 --> 00:15:13.544 Of their therapy,

NOTE Confidence: 0.90424603

00:15:13.544 --> 00:15:16.540 as well as just inquiring whether they

NOTE Confidence: 0.90424603

00:15:16.622 --> 00:15:19.297 desire to preserve their fertility.

NOTE Confidence: 0.90424603

00:15:19.300 --> 00:15:21.035 Referring patients to REI if

NOTE Confidence: 0.90424603

00:15:21.035 --> 00:15:23.190 they are interested as well as

NOTE Confidence: 0.90424603

00:15:23.190 --> 00:15:24.945 following up on those patients.

NOTE Confidence: 0.8755865092

00:15:28.120 --> 00:15:30.290 At this point I want to just

NOTE Confidence: 0.8755865092

00:15:30.290 --> 00:15:32.661 transition a bit to discuss to

NOTE Confidence: 0.8755865092

00:15:32.661 --> 00:15:34.481 discuss patient perspectives and

NOTE Confidence: 0.8755865092

00:15:34.481 --> 00:15:36.889 hopefully this will help highlight

NOTE Confidence: 0.8755865092

00:15:36.889 --> 00:15:39.369 again the importance of this topic.

NOTE Confidence: 0.906476153

00:15:42.680 --> 00:15:46.397 So in a study that looked at

NOTE Confidence: 0.906476153

00:15:46.397 --> 00:15:50.280 female cancer survivors. Umm?

NOTE Confidence: 0.906476153

00:15:50.280 --> 00:15:52.992 There was an increased rate of

NOTE Confidence: 0.906476153

00:15:52.992 --> 00:15:54.800 pregnancy termination among female

NOTE Confidence: 0.906476153

00:15:54.873 --> 00:15:57.489 cancer providers due to a fear of the

NOTE Confidence: 0.906476153

00:15:57.489 --> 00:15:59.973 effect of their therapies on their

NOTE Confidence: 0.906476153

00:15:59.973 --> 00:16:02.173 future on their future children,

NOTE Confidence: 0.906476153

00:16:02.180 --> 00:16:03.820 and what this really highlights

NOTE Confidence: 0.906476153

00:16:03.820 --> 00:16:05.460 is a gap in education.

NOTE Confidence: 0.88962042

00:16:07.800 --> 00:16:10.619 This study also showed that 91%

NOTE Confidence: 0.88962042

00:16:10.619 --> 00:16:12.614 of female cancer survivors felt

NOTE Confidence: 0.88962042

00:16:12.614 --> 00:16:15.334 that their quality of life was

NOTE Confidence: 0.88962042

00:16:15.334 --> 00:16:17.434 improved after receiving counseling

NOTE Confidence: 0.88962042

00:16:17.434 --> 00:16:19.534 and treatment about fertility.

NOTE Confidence: 0.886591492727273

00:16:22.260 --> 00:16:25.858 There was also a cross sectional study

NOTE Confidence: 0.886591492727273

00:16:25.858 --> 00:16:28.040 concerning fertility after cancer,

NOTE Confidence: 0.886591492727273

00:16:28.040 --> 00:16:31.505 where the primary outcome was use of

NOTE Confidence: 0.886591492727273

00:16:31.505 --> 00:16:34.636 fertility treatment and in this study,

NOTE Confidence: 0.886591492727273

00:16:34.636 --> 00:16:38.180 75% of participants reported that having

NOTE Confidence: 0.886591492727273

00:16:38.180 --> 00:16:41.980 a biological child was important to them.

NOTE Confidence: 0.886591492727273

00:16:41.980 --> 00:16:44.052 15% of these participants

NOTE Confidence: 0.886591492727273

00:16:44.052 --> 00:16:46.124 actually used fertility services.

NOTE Confidence: 0.886591492727273

00:16:46.130 --> 00:16:49.756 And survivors were less likely to pursue

NOTE Confidence: 0.886591492727273

00:16:49.756 --> 00:16:53.092 infertility treatment due to a fear of

NOTE Confidence: 0.886591492727273

00:16:53.092 --> 00:16:55.636 adverse effects on their personal health,

NOTE Confidence: 0.886591492727273

00:16:55.640 --> 00:16:57.080 which again highlights a

NOTE Confidence: 0.886591492727273

00:16:57.080 --> 00:16:58.520 gap in their education.

NOTE Confidence: 0.905115535833333

00:17:01.730 --> 00:17:04.316 Other patient perspectives include a survey

NOTE Confidence: 0.905115535833333

00:17:04.316 --> 00:17:07.350 from the Journal of Clinical Oncology.

NOTE Confidence: 0.905115535833333

00:17:07.350 --> 00:17:11.350 In this survey, 81% of teen girls and

NOTE Confidence: 0.905115535833333

00:17:11.350 --> 00:17:14.710 93% of their parents would be interested

NOTE Confidence: 0.905115535833333

00:17:14.710 --> 00:17:17.221 in fertility preservation, even if that,

NOTE Confidence: 0.905115535833333

00:17:17.221 --> 00:17:20.860 even if that method were to be experimental.

NOTE Confidence: 0.884638052727273

00:17:23.920 --> 00:17:27.364 In a survey from the Journal of

NOTE Confidence: 0.884638052727273

00:17:27.364 --> 00:17:29.710 Assisted Reproduction and Genetics.

NOTE Confidence: 0.884638052727273

00:17:29.710 --> 00:17:32.566 12.5% of patients reported that they were.

NOTE Confidence: 0.884638052727273

00:17:32.570 --> 00:17:35.440 They would regret if they were unable

NOTE Confidence: 0.884638052727273

00:17:35.440 --> 00:17:38.988 to use the tissue that they preserved

NOTE Confidence: 0.884638052727273

00:17:38.990 --> 00:17:40.782 for ovarian tissue preservation.

NOTE Confidence: 0.884638052727273

00:17:40.782 --> 00:17:43.470 In these patients and parents felt

NOTE Confidence: 0.884638052727273

00:17:43.540 --> 00:17:46.150 more in control of their decision

NOTE Confidence: 0.884638052727273

00:17:46.150 --> 00:17:47.890 with receiving this counseling.

NOTE Confidence: 0.870578100909091

00:17:52.340 --> 00:17:53.516 Other patient perspectives.

NOTE Confidence: 0.870578100909091

00:17:53.516 --> 00:17:55.868 There are studies and surveys that

NOTE Confidence: 0.870578100909091

00:17:55.868 --> 00:17:59.675 indicate that 26 to 80% of individuals

NOTE Confidence: 0.870578100909091

00:17:59.675 --> 00:18:01.556 remember discussing fertility.

NOTE Confidence: 0.870578100909091

00:18:01.560 --> 00:18:03.525 This range really highlights the

NOTE Confidence: 0.870578100909091

00:18:03.525 --> 00:18:05.097 variability in each practice.

NOTE Confidence: 0.974336988

00:18:08.010 --> 00:18:10.828 68% of males and 14% of females

NOTE Confidence: 0.974336988

00:18:10.828 --> 00:18:13.073 remembered being offered a referral

NOTE Confidence: 0.974336988

00:18:13.073 --> 00:18:14.420 for fertility preservation.

NOTE Confidence: 0.903673052

00:18:16.580 --> 00:18:19.646 And then this last statistic reports

NOTE Confidence: 0.903673052

00:18:19.646 --> 00:18:22.359 that female survivors were less

NOTE Confidence: 0.903673052

00:18:22.359 --> 00:18:25.279 likely to be prescribed infertility

NOTE Confidence: 0.903673052

00:18:25.279 --> 00:18:27.615 medications after seeking help,

NOTE Confidence: 0.903673052

00:18:27.620 --> 00:18:30.819 and that relative risk was 0.57.

NOTE Confidence: 0.903673052

00:18:30.819 --> 00:18:33.531 And what this shows us is that there's

NOTE Confidence: 0.903673052

00:18:33.531 --> 00:18:36.435 also a lack of education among providers.

NOTE Confidence: 0.913911173684211

00:18:39.100 --> 00:18:41.388 So next, I'd like to speak about the

NOTE Confidence: 0.913911173684211

00:18:41.388 --> 00:18:43.407 different methods that can be offered

NOTE Confidence: 0.913911173684211

00:18:43.407 --> 00:18:45.142 to patients for fertility preservation.

NOTE Confidence: 0.890928088461538

00:18:47.800 --> 00:18:50.110 So there are many proven as

NOTE Confidence: 0.890928088461538

00:18:50.110 --> 00:18:51.650 well as experimental methods

NOTE Confidence: 0.890928088461538

00:18:51.727 --> 00:18:53.449 for preserving fertility.

NOTE Confidence: 0.890928088461538

00:18:53.450 --> 00:18:56.790 These include gamete or embryo

NOTE Confidence: 0.890928088461538

00:18:56.790 --> 00:18:58.666 cryopreservation, ovarian tissue,

NOTE Confidence: 0.890928088461538

00:18:58.666 --> 00:19:01.078 or whole ovary preservation,

NOTE Confidence: 0.890928088461538

00:19:01.080 --> 00:19:02.796 suppression of damage which

NOTE Confidence: 0.890928088461538

00:19:02.796 --> 00:19:04.512 can include decreasing the

NOTE Confidence: 0.890928088461538

00:19:04.512 --> 00:19:07.168 dose of a certain therapy or

NOTE Confidence: 0.890928088461538

00:19:07.168 --> 00:19:08.896 using an alternative therapy.

NOTE Confidence: 0.890928088461538

00:19:08.900 --> 00:19:12.188 Decreasing the dose to the gonads,

NOTE Confidence: 0.890928088461538

00:19:12.190 --> 00:19:14.662 or steel or shielding the gonads

NOTE Confidence: 0.890928088461538

00:19:14.662 --> 00:19:17.060 or avoidance of damage entirely,

NOTE Confidence: 0.890928088461538

00:19:17.060 --> 00:19:18.131 which could entail.

NOTE Confidence: 0.890928088461538

00:19:18.131 --> 00:19:19.916 Removing the gonads or using

NOTE Confidence: 0.890928088461538

00:19:19.916 --> 00:19:21.140 an alternative therapy.

NOTE Confidence: 0.86628459625

00:19:23.960 --> 00:19:26.816 So to discuss some of the proven methods,

NOTE Confidence: 0.86628459625

00:19:26.820 --> 00:19:29.930 the gold standard is considered

NOTE Confidence: 0.86628459625

00:19:29.930 --> 00:19:31.174 embryo cryopreservation.

NOTE Confidence: 0.86628459625

00:19:31.180 --> 00:19:33.480 This process includes stimulating

NOTE Confidence: 0.86628459625

00:19:33.480 --> 00:19:35.780 the ovaries with gonadotropins,

NOTE Confidence: 0.86628459625

00:19:35.780 --> 00:19:37.571 surgically retrieving oocytes,

NOTE Confidence: 0.86628459625

00:19:37.571 --> 00:19:39.959 inseminating the O sites,

NOTE Confidence: 0.86628459625

00:19:39.960 --> 00:19:43.299 culturing them for three to five days,

NOTE Confidence: 0.86628459625

00:19:43.300 --> 00:19:45.640 and then cryo preserving them.

NOTE Confidence: 0.86628459625

00:19:45.640 --> 00:19:48.300 This tends to have a high success

NOTE Confidence: 0.86628459625

00:19:48.300 --> 00:19:51.010 with 90% survival of embryos and

NOTE Confidence: 0.86628459625

00:19:51.010 --> 00:19:53.939 live birth rates between 22 to 35.

NOTE Confidence: 0.86628459625

00:19:53.940 --> 00:19:55.504 Percent, this whole process

NOTE Confidence: 0.86628459625

00:19:55.504 --> 00:19:57.850 takes about two to three weeks,

NOTE Confidence: 0.86628459625

00:19:57.850 --> 00:19:59.980 and some of the cons include

NOTE Confidence: 0.86628459625

00:19:59.980 --> 00:20:02.110 exposure to high dose hormones,

NOTE Confidence: 0.86628459625

00:20:02.110 --> 00:20:03.445 the time involved,

NOTE Confidence: 0.86628459625

00:20:03.445 --> 00:20:07.206 and the fact that the that the patient

NOTE Confidence: 0.86628459625

00:20:07.206 --> 00:20:11.098 would need either partner or donor sperm.

NOTE Confidence: 0.86628459625

00:20:11.100 --> 00:20:13.508 Another option is mature

NOTE Confidence: 0.86628459625

00:20:13.508 --> 00:20:15.314 O site cryopreservation.

NOTE Confidence: 0.86628459625

00:20:15.320 --> 00:20:18.295 This tends to have slightly lower success

NOTE Confidence: 0.86628459625

00:20:18.295 --> 00:20:20.614 rates between 50 and 90% survival.

NOTE Confidence: 0.86628459625

00:20:20.614 --> 00:20:23.792 That's likely due to attrition of the

NOTE Confidence: 0.86628459625

00:20:23.792 --> 00:20:26.758 O sites, as they need to be frozen,

NOTE Confidence: 0.86628459625

00:20:26.760 --> 00:20:29.343 thawed, then inseminated.

NOTE Confidence: 0.86628459625

00:20:29.343 --> 00:20:33.648 And sorry it fertilized and

NOTE Confidence: 0.86628459625

00:20:33.648 --> 00:20:36.440 after fertilization matured.

NOTE Confidence: 0.86628459625

00:20:36.440 --> 00:20:38.075 This process takes essentially the

NOTE Confidence: 0.86628459625

00:20:38.075 --> 00:20:40.200 amount the same amount of time as.

NOTE Confidence: 0.86628459625

00:20:40.200 --> 00:20:42.033 Embryo choir preservation.

NOTE Confidence: 0.86628459625

00:20:42.033 --> 00:20:45.088 There are fewer ethical objection

NOTE Confidence: 0.86628459625

00:20:45.088 --> 00:20:48.915 objections and no partner is required

NOTE Confidence: 0.86628459625

00:20:48.915 --> 00:20:51.487 for oversight chair preservation.

NOTE Confidence: 0.86628459625

00:20:51.490 --> 00:20:55.095 Another proven method includes O for praxy.

NOTE Confidence: 0.86628459625

00:20:55.100 --> 00:20:58.468 This has a success rate between 16 and

NOTE Confidence: 0.86628459625

00:20:58.468 --> 00:21:01.056 90% and involves fixing the ovary to

NOTE Confidence: 0.86628459625

00:21:01.056 --> 00:21:03.659 the pelvic brim with a surgical clip.

NOTE Confidence: 0.86628459625

00:21:03.660 --> 00:21:05.540 This is typically used for

NOTE Confidence: 0.86628459625

00:21:05.540 --> 00:21:07.700 patients who will be exposed to,

NOTE Confidence: 0.86628459625

00:21:07.700 --> 00:21:08.544 for example,

NOTE Confidence: 0.86628459625

00:21:08.544 --> 00:21:11.076 radiation therapy to the pelvis and

NOTE Confidence: 0.86628459625

00:21:11.076 --> 00:21:13.838 what it's essentially doing is moving

NOTE Confidence: 0.86628459625

00:21:13.838 --> 00:21:17.256 the gonads away from that site.

NOTE Confidence: 0.86628459625

00:21:17.256 --> 00:21:20.376 There are no ethical obligations,

NOTE Confidence: 0.86628459625

00:21:20.380 --> 00:21:23.134 I'm sorry there's no ethical objections

NOTE Confidence: 0.86628459625

00:21:23.134 --> 00:21:26.148 to over prexy and enables a patient

NOTE Confidence: 0.86628459625

00:21:26.148 --> 00:21:29.784 to be able to use their own O sites

NOTE Confidence: 0.86628459625

00:21:29.784 --> 00:21:32.319 and there's no stimulation required.

NOTE Confidence: 0.86628459625

00:21:32.320 --> 00:21:36.310 Some of the cons include that.

NOTE Confidence: 0.91342121375

00:21:39.200 --> 00:21:41.100 It really depends on a

NOTE Confidence: 0.91342121375

00:21:41.100 --> 00:21:42.240 patient's vascular system.

NOTE Confidence: 0.91342121375

00:21:42.240 --> 00:21:43.660 It depends on their age.

NOTE Confidence: 0.91342121375

00:21:43.660 --> 00:21:46.576 It depends on the dose of

NOTE Confidence: 0.91342121375

00:21:46.576 --> 00:21:48.520 radiation that they're receiving,

NOTE Confidence: 0.91342121375

00:21:48.520 --> 00:21:52.069 and it can also be affected if

NOTE Confidence: 0.91342121375

00:21:52.069 --> 00:21:55.920 the area is not shielded. The.

NOTE Confidence: 0.759999091666667

00:21:58.900 --> 00:22:01.483 Other methods for.

NOTE Confidence: 0.759999091666667

00:22:01.483 --> 00:22:04.066 For fertility preservation,

NOTE Confidence: 0.759999091666667

00:22:04.070 --> 00:22:07.118 include ovarian tissue cryopreservation.

NOTE Confidence: 0.759999091666667

00:22:07.118 --> 00:22:10.595 This was previously thought to be

NOTE Confidence: 0.759999091666667

00:22:10.595 --> 00:22:13.360 experimental and is now a proven method

NOTE Confidence: 0.759999091666667

00:22:13.439 --> 00:22:16.124 and involves obtaining ovarian cortical

NOTE Confidence: 0.759999091666667

00:22:16.124 --> 00:22:18.809 tissue prior to ovarian failure.

NOTE Confidence: 0.759999091666667

00:22:18.810 --> 00:22:21.635 The tissue is obtained via

NOTE Confidence: 0.759999091666667

00:22:21.635 --> 00:22:23.330 laparoscopy or laparotomy.

NOTE Confidence: 0.759999091666667

00:22:23.330 --> 00:22:25.820 The tissue is dissected into into

NOTE Confidence: 0.759999091666667

00:22:25.820 --> 00:22:27.175 small fragments, cryopreserved,

NOTE Confidence: 0.759999091666667

00:22:27.175 --> 00:22:30.325 and then can later be transplanted.

NOTE Confidence: 0.759999091666667

00:22:30.330 --> 00:22:31.106 Most typically,

NOTE Confidence: 0.759999091666667

00:22:31.106 --> 00:22:33.046 that's done as an orthotopic.

NOTE Confidence: 0.759999091666667

00:22:33.050 --> 00:22:37.346 Transplant and not a heterotopic transplant.

NOTE Confidence: 0.759999091666667

00:22:37.350 --> 00:22:40.176 Live birth rates are between 23

NOTE Confidence: 0.759999091666667

00:22:40.176 --> 00:22:44.065 to 25% and this is particularly

NOTE Confidence: 0.759999091666667

00:22:44.065 --> 00:22:46.797 useful for prepubescent girls,

NOTE Confidence: 0.759999091666667

00:22:46.800 --> 00:22:48.824 and it can also be used as a

NOTE Confidence: 0.759999091666667

00:22:48.824 --> 00:22:50.809 form of endogenous hormones.

NOTE Confidence: 0.759999091666667

00:22:50.810 --> 00:22:54.700 Once this tissue is retransplantation.

NOTE Confidence: 0.759999091666667

00:22:54.700 --> 00:22:58.210 Some of the cons include.

NOTE Confidence: 0.759999091666667

00:22:58.210 --> 00:23:02.919 That reimplantation of potential

NOTE Confidence: 0.759999091666667

00:23:02.919 --> 00:23:05.988 cancer potential cancer.

NOTE Confidence: 0.759999091666667

00:23:05.990 --> 00:23:08.348 Once the tissue is removed and

NOTE Confidence: 0.759999091666667

00:23:08.348 --> 00:23:09.920 then reimplanted the uncertain

NOTE Confidence: 0.759999091666667

00:23:09.988 --> 00:23:11.598 life span of this tissue.

NOTE Confidence: 0.759999091666667

00:23:11.600 --> 00:23:14.384 The fact that it requires surgery

NOTE Confidence: 0.759999091666667

00:23:14.384 --> 00:23:17.532 and may require IVF down the line

NOTE Confidence: 0.759999091666667

00:23:17.532 --> 00:23:20.211 and the age limit such that patients

NOTE Confidence: 0.759999091666667

00:23:20.211 --> 00:23:22.459 who are typically over the age of 40

NOTE Confidence: 0.759999091666667

00:23:22.459 --> 00:23:24.537 will have less benefit in this case.

NOTE Confidence: 0.918339348

00:23:29.480 --> 00:23:31.643 Next, I'd like to go over just

NOTE Confidence: 0.918339348

00:23:31.643 --> 00:23:33.064 a few experimental methods

NOTE Confidence: 0.918339348

00:23:33.064 --> 00:23:34.780 which include whole ovary,

NOTE Confidence: 0.918339348

00:23:34.780 --> 00:23:36.436 including pedicle cryopreservation.

NOTE Confidence: 0.918339348

00:23:36.436 --> 00:23:40.300 This is typically reserved for very young

NOTE Confidence: 0.918339348

00:23:40.374 --> 00:23:43.098 patients whose ovaries are very small,

NOTE Confidence: 0.918339348

00:23:43.100 --> 00:23:46.150 for which ovarian tissue, cryo.

NOTE Confidence: 0.918339348

00:23:46.150 --> 00:23:48.510 Location would be very difficult.

NOTE Confidence: 0.918339348

00:23:48.510 --> 00:23:50.445 Another experimental method

NOTE Confidence: 0.918339348

00:23:50.445 --> 00:23:53.025 includes GNRH agonist therapies.

NOTE Confidence: 0.918339348

00:23:53.030 --> 00:23:56.278 The thought process with this is that we

NOTE Confidence: 0.918339348

00:23:56.278 --> 00:23:59.698 shut down the ovaries while a patient

NOTE Confidence: 0.918339348

00:23:59.698 --> 00:24:02.218 is receiving their cancer therapy,

NOTE Confidence: 0.918339348

00:24:02.220 --> 00:24:04.212 and the thought is that when

NOTE Confidence: 0.918339348

00:24:04.212 --> 00:24:06.070 these ovaries are less active,

NOTE Confidence: 0.918339348

00:24:06.070 --> 00:24:08.392 they'll be less susceptible to the

NOTE Confidence: 0.918339348

00:24:08.392 --> 00:24:10.690 harmful effects of the therapies.

NOTE Confidence: 0.900283261818182

00:24:13.140 --> 00:24:14.870 Some alternative options for patients

NOTE Confidence: 0.900283261818182

00:24:14.870 --> 00:24:16.940 include the use of donor eggs,

NOTE Confidence: 0.900283261818182

00:24:16.940 --> 00:24:20.036 the use of donor ombria embryos,

NOTE Confidence: 0.900283261818182

00:24:20.040 --> 00:24:22.140 surrogates or adoption.

NOTE Confidence: 0.92028733

00:24:26.710 --> 00:24:28.846 Lastly, to go over what happens

NOTE Confidence: 0.92028733

00:24:28.846 --> 00:24:30.910 post treatment for these patients.

NOTE Confidence: 0.92028733

00:24:30.910 --> 00:24:32.890 So regarding evaluation of

NOTE Confidence: 0.92028733

00:24:32.890 --> 00:24:35.365 their fertility down the line,

NOTE Confidence: 0.92028733

00:24:35.370 --> 00:24:36.819 most reproductive endocrinologists

NOTE Confidence: 0.92028733

00:24:36.819 --> 00:24:39.234 or gynecologists would look for

NOTE Confidence: 0.92028733

00:24:39.234 --> 00:24:41.291 patients to resume their menstrual

NOTE Confidence: 0.92028733

00:24:41.291 --> 00:24:43.678 cycle as well as test their anti

NOTE Confidence: 0.92028733

00:24:43.740 --> 00:24:45.786 mullerian hormone level to get a

NOTE Confidence: 0.92028733

00:24:45.786 --> 00:24:47.740 proxy of their ovarian reserve.

NOTE Confidence: 0.93709371

00:24:50.740 --> 00:24:53.390 Regarding the use of medications

NOTE Confidence: 0.93709371

00:24:53.390 --> 00:24:56.040 and outcomes for these patients,

NOTE Confidence: 0.93709371

00:24:56.040 --> 00:24:58.656 generally we use the same medications.

NOTE Confidence: 0.93709371

00:24:58.660 --> 00:25:00.404 However, as already mentioned,

NOTE Confidence: 0.93709371

00:25:00.404 --> 00:25:02.584 if a patient has an

NOTE Confidence: 0.93709371

00:25:02.584 --> 00:25:04.360 estrogen sensitive cancer,

NOTE Confidence: 0.93709371

00:25:04.360 --> 00:25:07.265 we can consider adding letrozole

NOTE Confidence: 0.93709371

00:25:07.265 --> 00:25:10.170 and aroma taste inhibitor or

NOTE Confidence: 0.93709371

00:25:10.268 --> 00:25:13.173 tamoxifen to reduce the exposure

NOTE Confidence: 0.93709371

00:25:13.173 --> 00:25:16.078 to high levels of estradiol.

NOTE Confidence: 0.898731865

00:25:18.300 --> 00:25:20.868 There are lower pregnancy rates in

NOTE Confidence: 0.898731865

00:25:20.868 --> 00:25:23.561 the first five years with autologous

NOTE Confidence: 0.898731865

00:25:23.561 --> 00:25:26.615 with use of autologous O sites and

NOTE Confidence: 0.898731865

00:25:26.615 --> 00:25:28.864 that lower pregnancy rate is 60%.

NOTE Confidence: 0.898731865

00:25:28.864 --> 00:25:29.712 However, notably,

NOTE Confidence: 0.898731865

00:25:29.712 --> 00:25:33.240 if someone were to use donor O sites,

NOTE Confidence: 0.898731865

00:25:33.240 --> 00:25:36.180 pregnancy rates tend to be fairly comparable.

NOTE Confidence: 0.9074206855

00:25:39.090 --> 00:25:40.890 Regarding pregnancy complications,

NOTE Confidence: 0.9074206855

00:25:40.890 --> 00:25:43.890 pregnancy does not affect recurrence

NOTE Confidence: 0.9074206855

00:25:43.890 --> 00:25:47.169 of any cancer and generally pregnancy

NOTE Confidence: 0.9074206855

00:25:47.169 --> 00:25:50.169 complications tend to be very low.

NOTE Confidence: 0.9074206855

00:25:50.170 --> 00:25:52.970 The one exception to this is that

NOTE Confidence: 0.9074206855

00:25:52.970 --> 00:25:54.926 some patients who receive very high

NOTE Confidence: 0.9074206855

00:25:54.926 --> 00:25:56.929 dose of radiation to the uterus,

NOTE Confidence: 0.9074206855

00:25:56.930 --> 00:25:59.030 especially at a young age,

NOTE Confidence: 0.9074206855

00:25:59.030 --> 00:26:03.846 can potentially have a bit higher risk.

NOTE Confidence: 0.9074206855

00:26:03.850 --> 00:26:05.662 Pregnancy outcomes and

NOTE Confidence: 0.9074206855

00:26:05.662 --> 00:26:06.870 pregnancy complications.

NOTE Confidence: 0.917339296363636

00:26:09.160 --> 00:26:10.676 Regarding risk to offspring,

NOTE Confidence: 0.917339296363636

00:26:10.676 --> 00:26:13.680 there is no increased risk of anomalies.

NOTE Confidence: 0.917339296363636

00:26:13.680 --> 00:26:15.380 However, a provider may consider

NOTE Confidence: 0.917339296363636

00:26:15.380 --> 00:26:17.764 referring a patient to a genetic

NOTE Confidence: 0.917339296363636

00:26:17.764 --> 00:26:20.068 counselor specifically, if there is

NOTE Confidence: 0.917339296363636

00:26:20.068 --> 00:26:21.848 a genetic predisposition to cancer.

NOTE Confidence: 0.918271262307692

00:26:24.690 --> 00:26:27.160 Some other concerns that I'd

NOTE Confidence: 0.918271262307692

00:26:27.160 --> 00:26:29.630 like to briefly discuss include

NOTE Confidence: 0.918271262307692

00:26:29.721 --> 00:26:31.923 some safety concerns so.

NOTE Confidence: 0.918271262307692

00:26:31.923 --> 00:26:34.688 It should be determined by

NOTE Confidence: 0.918271262307692

00:26:34.688 --> 00:26:36.347 a multidisciplinary team,

NOTE Confidence: 0.918271262307692

00:26:36.350 --> 00:26:38.730 including the medical oncologist

NOTE Confidence: 0.918271262307692

00:26:38.730 --> 00:26:40.515 and reproductive endocrinologist.

NOTE Confidence: 0.918271262307692

00:26:40.520 --> 00:26:43.670 As to a discussion of the risks,

NOTE Confidence: 0.918271262307692

00:26:43.670 --> 00:26:45.086 benefits, preferences,

NOTE Confidence: 0.918271262307692

00:26:45.086 --> 00:26:48.626 and prognosis of this patient

NOTE Confidence: 0.918271262307692

00:26:48.630 --> 00:26:50.594 to discuss whether pursuing

NOTE Confidence: 0.918271262307692

00:26:50.594 --> 00:26:52.067 fertility preservation would

NOTE Confidence: 0.918271262307692

00:26:52.067 --> 00:26:54.479 be safe for the patient.

NOTE Confidence: 0.84319548725

00:26:58.450 --> 00:27:01.605 There should also be consideration

NOTE Confidence: 0.84319548725

00:27:01.605 --> 00:27:05.515 paid to trying to prevent any

NOTE Confidence: 0.84319548725

00:27:05.515 --> 00:27:08.755 delays in in oncologic treatment.

NOTE Confidence: 0.84319548725

00:27:08.760 --> 00:27:10.888 Regarding the legal implications,

NOTE Confidence: 0.84319548725

00:27:10.888 --> 00:27:13.548 we should acknowledge the legal

NOTE Confidence: 0.84319548725

00:27:13.548 --> 00:27:15.459 implications of not following the

NOTE Confidence: 0.84319548725

00:27:15.459 --> 00:27:18.530 standard of care as well as the medical

NOTE Confidence: 0.84319548725

00:27:18.530 --> 00:27:21.120 liability and potential malpractice with

NOTE Confidence: 0.84319548725

00:27:21.120 --> 00:27:23.274 omission of information specifically

NOTE Confidence: 0.84319548725

00:27:23.274 --> 00:27:26.838 regarding the the risks of cancer

NOTE Confidence: 0.84319548725

00:27:26.838 --> 00:27:29.450 therapies on reproductive capacity.

NOTE Confidence: 0.920636635862069

00:27:32.170 --> 00:27:34.114 Additionally, the ethical considerations

NOTE Confidence: 0.920636635862069

00:27:34.114 --> 00:27:37.539 to consider that every patient has the

NOTE Confidence: 0.920636635862069

00:27:37.539 --> 00:27:40.185 right to know their options concerning

NOTE Confidence: 0.920636635862069

00:27:40.185 --> 00:27:42.632 fertility preservation as well as the

NOTE Confidence: 0.920636635862069

00:27:42.632 --> 00:27:44.750 risks and costs associated with that.

NOTE Confidence: 0.920636635862069

00:27:44.750 --> 00:27:46.250 Post humus utilization.

NOTE Confidence: 0.920636635862069

00:27:46.250 --> 00:27:48.750 This typically will depend on

NOTE Confidence: 0.920636635862069

00:27:48.750 --> 00:27:52.508 a patient's advance directive.

NOTE Confidence: 0.920636635862069

00:27:52.510 --> 00:27:54.675 Minors who are diagnosed with

NOTE Confidence: 0.920636635862069

00:27:54.675 --> 00:27:56.407 cancer will typically require

NOTE Confidence: 0.920636635862069

00:27:56.407 --> 00:27:58.690 a surrogate decision maker.

NOTE Confidence: 0.920636635862069

00:27:58.690 --> 00:28:00.094 And of course,

NOTE Confidence: 0.920636635862069

00:28:00.094 --> 00:28:02.434 the cost of these therapies.

NOTE Confidence: 0.92401088

00:28:04.560 --> 00:28:08.880 Just to briefly discuss the cost.

NOTE Confidence: 0.92401088

00:28:08.880 --> 00:28:11.192 There is legislation regarding

NOTE Confidence: 0.92401088

00:28:11.192 --> 00:28:13.504 costs specifically in Connecticut.

NOTE Confidence: 0.92401088

00:28:13.510 --> 00:28:15.378 In general, in 1942,

NOTE Confidence: 0.92401088

00:28:15.378 --> 00:28:18.180 the US Supreme Court acknowledged that

NOTE Confidence: 0.92401088

00:28:18.259 --> 00:28:20.947 procreation is a basic civil right

NOTE Confidence: 0.92401088

00:28:20.950 --> 00:28:22.990 and then specifically in Connecticut.

NOTE Confidence: 0.92401088

00:28:22.990 --> 00:28:26.504 We do have the fertility preservation bill.

NOTE Confidence: 0.92401088

00:28:26.510 --> 00:28:28.578 This was an acted,

NOTE Confidence: 0.92401088

00:28:28.578 --> 00:28:31.680 and basically it ensures that patients

NOTE Confidence: 0.92401088

00:28:31.778 --> 00:28:35.318 are covered for fertility preservation.

NOTE Confidence: 0.92401088

00:28:35.320 --> 00:28:39.936 If they have a medical necessity and having

NOTE Confidence: 0.92401088

00:28:39.936 --> 00:28:43.668 prior cancer treatment is considered,

NOTE Confidence: 0.92401088

00:28:43.670 --> 00:28:45.554 makes fertility preservation

NOTE Confidence: 0.92401088

00:28:45.554 --> 00:28:47.438 a medical necessity,

NOTE Confidence: 0.92401088

00:28:47.440 --> 00:28:52.627 and so patients who have private insurance.

NOTE Confidence: 0.92401088

00:28:52.630 --> 00:28:58.118 Have have this cost covered under this bill.

NOTE Confidence: 0.92401088

00:28:58.120 --> 00:28:58.459 Unfortunately,

NOTE Confidence: 0.92401088

00:28:58.459 --> 00:29:00.832 that bill does not cover the cost

NOTE Confidence: 0.92401088

00:29:00.832 --> 00:29:02.329 for people without insurance

NOTE Confidence: 0.92401088

00:29:02.329 --> 00:29:04.219 or for people with Medicaid,

NOTE Confidence: 0.92401088

00:29:04.220 --> 00:29:07.028 and so there are other means to try to

NOTE Confidence: 0.92401088

00:29:07.028 --> 00:29:09.419 reduce that cost for those patients,

NOTE Confidence: 0.92401088

00:29:09.420 --> 00:29:11.860 and they are listed below.

NOTE Confidence: 0.92401088

00:29:11.860 --> 00:29:13.189 So for example,

NOTE Confidence: 0.92401088

00:29:13.189 --> 00:29:14.518 with repro tech,

NOTE Confidence: 0.92401088

00:29:14.520 --> 00:29:16.404 they provide discounted long

NOTE Confidence: 0.92401088

00:29:16.404 --> 00:29:18.708 term storage of ovarian tissue

NOTE Confidence: 0.92401088

00:29:18.708 --> 00:29:21.816 as well as O sites and embryos,

NOTE Confidence: 0.92401088

00:29:21.820 --> 00:29:23.945 specifically regarding the cost of

NOTE Confidence: 0.92401088

00:29:23.945 --> 00:29:25.645 ovarian tissue prior preservation

NOTE Confidence: 0.92401088

00:29:25.645 --> 00:29:27.818 that one tends to be a bit costly.

NOTE Confidence: 0.92401088

00:29:27.820 --> 00:29:30.088 And can be between 12 to 24,000.

NOTE Confidence: 0.92401088

00:29:30.088 --> 00:29:30.406 However,

NOTE Confidence: 0.92401088

00:29:30.406 --> 00:29:32.314 this can also vary based off

NOTE Confidence: 0.92401088

00:29:32.314 --> 00:29:34.060 of the patient's income.

NOTE Confidence: 0.853602744

00:29:36.470 --> 00:29:38.330 And so lastly, to summarize,

NOTE Confidence: 0.853602744

00:29:38.330 --> 00:29:40.650 some of the things that we discussed today.

NOTE Confidence: 0.853602744

00:29:40.650 --> 00:29:42.048 Certain cancer treatments

NOTE Confidence: 0.853602744

00:29:42.048 --> 00:29:43.446 such as chemotherapy,

NOTE Confidence: 0.853602744

00:29:43.450 --> 00:29:46.288 radiation and surgery can lead to

NOTE Confidence: 0.853602744

00:29:46.288 --> 00:29:48.598 sterility and subfertility all patients

NOTE Confidence: 0.853602744

00:29:48.598 --> 00:29:51.262 of reproductive age who will undergo

NOTE Confidence: 0.853602744

00:29:51.262 --> 00:29:52.823 potentially genotoxic therapies

NOTE Confidence: 0.853602744

00:29:52.823 --> 00:29:55.227 should receive appropriate counseling.

NOTE Confidence: 0.853602744

00:29:55.230 --> 00:29:57.694 Some of the methods to try to optimize

NOTE Confidence: 0.853602744

00:29:57.694 --> 00:29:59.573 access to fertility preservation

NOTE Confidence: 0.853602744

00:29:59.573 --> 00:30:01.969 and include increasing awareness,

NOTE Confidence: 0.853602744

00:30:01.970 --> 00:30:04.662 promoting education and counseling,

NOTE Confidence: 0.853602744

00:30:04.662 --> 00:30:06.798 and collaboration, and methods.

NOTE Confidence: 0.853602744

00:30:06.798 --> 00:30:07.980 To preserve fertility,

NOTE Confidence: 0.853602744

00:30:07.980 --> 00:30:12.000 include embryo 4 O site cryopreservation,

NOTE Confidence: 0.853602744

00:30:12.000 --> 00:30:15.096 O for paxi, ovarian tissue cryopreservation,

NOTE Confidence: 0.853602744

00:30:15.100 --> 00:30:18.259 or experimental methods.

NOTE Confidence: 0.853602744

00:30:18.260 --> 00:30:20.654 Thank you so much for your attention.

NOTE Confidence: 0.853602744

00:30:20.660 --> 00:30:22.487 Here are some of our references and

NOTE Confidence: 0.853602744

00:30:22.487 --> 00:30:24.428 we're happy to answer any questions.

NOTE Confidence: 0.5388139

00:30:26.480 --> 00:30:26.750 There's.

NOTE Confidence: 0.927788757142857

00:30:33.520 --> 00:30:36.550 OK, so we have a question

NOTE Confidence: 0.927788757142857

00:30:36.550 --> 00:30:38.808 here regarding oh for proxy.

NOTE Confidence: 0.927788757142857

00:30:38.808 --> 00:30:41.430 The range of success rates listed

NOTE Confidence: 0.927788757142857

00:30:41.509 --> 00:30:44.132 are quite wide, from 10 to 90%.

NOTE Confidence: 0.927788757142857

00:30:44.132 --> 00:30:46.728 I had heard roughly a 50% chance

NOTE Confidence: 0.927788757142857

00:30:46.728 --> 00:30:48.668 of damaging the ovary directly

NOTE Confidence: 0.927788757142857

00:30:48.668 --> 00:30:50.220 from the procedure itself,

NOTE Confidence: 0.927788757142857

00:30:50.220 --> 00:30:53.428 which seems a high risk since since the

NOTE Confidence: 0.927788757142857

00:30:53.428 --> 00:30:56.086 risk from radiation is also probabilistic.

NOTE Confidence: 0.927788757142857

00:30:56.086 --> 00:30:59.016 Does Yale offer this option?

NOTE Confidence: 0.927788757142857

00:30:59.020 --> 00:31:01.526 What do the success rates look like

NOTE Confidence: 0.927788757142857

00:31:01.526 --> 00:31:03.868 in modern practice and what patients?

NOTE Confidence: 0.927788757142857

00:31:03.870 --> 00:31:06.537 Do well versus poorly with this approach.

NOTE Confidence: 0.92303708

00:31:15.430 --> 00:31:17.978 I actually have not seen any

NOTE Confidence: 0.92303708

00:31:17.978 --> 00:31:19.488 perplexity done here at Yale,

NOTE Confidence: 0.86569425

00:31:19.490 --> 00:31:21.205 but it is actually a simple procedure.

NOTE Confidence: 0.86569425

00:31:21.210 --> 00:31:22.110 It's the same thing.

NOTE Confidence: 0.86569425

00:31:22.110 --> 00:31:23.890 If we had some with ovarian torsion,

NOTE Confidence: 0.86569425

00:31:23.890 --> 00:31:26.130 it's actually the same procedure to be done,

NOTE Confidence: 0.86569425

00:31:26.130 --> 00:31:28.210 so it's something that we can actually do.

NOTE Confidence: 0.86569425

00:31:28.210 --> 00:31:30.260 I haven't seen a whole lot of public

NOTE Confidence: 0.86569425

00:31:30.260 --> 00:31:31.750 radiation patients come through. I

NOTE Confidence: 0.90801173

00:31:31.760 --> 00:31:33.160 couldn't give you the exact

NOTE Confidence: 0.90801173

00:31:33.160 --> 00:31:36.450 statistics, mainly because

NOTE Confidence: 0.758609855111111

00:31:36.450 --> 00:31:40.653 the problem is is like it varies on dose.

NOTE Confidence: 0.758609855111111

00:31:40.660 --> 00:31:41.659 Where it's located?

NOTE Confidence: 0.758609855111111

00:31:41.659 --> 00:31:43.324 Are they shielding or not?

NOTE Confidence: 0.758609855111111

00:31:43.330 --> 00:31:45.900 And so that's why you see that wide range.

NOTE Confidence: 0.758609855111111

00:31:45.900 --> 00:31:46.820 So even with Uber,

NOTE Confidence: 0.758609855111111

00:31:46.820 --> 00:31:48.460 Paxi would probably still

NOTE Confidence: 0.758609855111111

00:31:48.460 --> 00:31:51.660 recommend doing an additional.

NOTE Confidence: 0.758609855111111

00:31:51.660 --> 00:31:54.564 Fertility preservation procedure like

NOTE Confidence: 0.758609855111111

00:31:54.564 --> 00:31:57.468 tissue or embryo cryopreservation.

NOTE Confidence: 0.758609855111111

00:31:57.470 --> 00:31:59.038 Just to make sure that if there

NOTE Confidence: 0.758609855111111

00:31:59.038 --> 00:32:00.621 is any scatter from the radiation

NOTE Confidence: 0.758609855111111

00:32:00.621 --> 00:32:01.769 that we're still protecting

NOTE Confidence: 0.758609855111111

00:32:01.769 --> 00:32:03.320 them as much as possible.

NOTE Confidence: 0.91166512

00:32:05.840 --> 00:32:07.852 So I have a question for you, so, UM,

NOTE Confidence: 0.91166512

00:32:07.852 --> 00:32:10.228 you know. Obviously these issues come

NOTE Confidence: 0.91166512

00:32:10.228 --> 00:32:13.120 up with a fair amount of frequency,

NOTE Confidence: 0.91166512

00:32:13.120 --> 00:32:17.692 and I'm struck that you gave a great talk,

NOTE Confidence: 0.91166512

00:32:17.700 --> 00:32:21.030 but one of you is going off to take

NOTE Confidence: 0.91166512

00:32:21.030 --> 00:32:24.596 a job in Texas and and Gabriella,

NOTE Confidence: 0.91166512

00:32:24.600 --> 00:32:26.628 you're going off to do a

NOTE Confidence: 0.91166512

00:32:26.628 --> 00:32:27.980 fellowship in another year.

NOTE Confidence: 0.91166512

00:32:27.980 --> 00:32:31.500 So who on the in in the REI?

NOTE Confidence: 0.91166512

00:32:31.500 --> 00:32:34.188 Faculty is interested in these issues,

NOTE Confidence: 0.91166512

00:32:34.190 --> 00:32:35.438 who we should approach?

NOTE Confidence: 0.669570777333333

00:32:36.810 --> 00:32:38.975 Well, Gavin, be here for

NOTE Confidence: 0.669570777333333

00:32:38.975 --> 00:32:41.620 another year and so I

NOTE Confidence: 0.701417034

00:32:41.660 --> 00:32:43.510 understand that. But you know,

NOTE Confidence: 0.701417034

00:32:43.510 --> 00:32:46.358 again. So in training

NOTE Confidence: 0.809797005454545

00:32:46.710 --> 00:32:48.670 no, absolutely. And so we're

NOTE Confidence: 0.809797005454545

00:32:48.670 --> 00:32:51.040 working with Doctor Callan as well,

NOTE Confidence: 0.809797005454545

00:32:51.040 --> 00:32:53.343 and she does mainly the probably the

NOTE Confidence: 0.809797005454545

00:32:53.343 --> 00:32:55.980 most of the fertility preservation.

NOTE Confidence: 0.809797005454545

00:32:55.980 --> 00:32:58.997 But the fellows all work together too,

NOTE Confidence: 0.809797005454545

00:32:59.000 --> 00:33:00.132 so it's everything's just

NOTE Confidence: 0.809797005454545

00:33:00.132 --> 00:33:01.547 kind of passed down for.

NOTE Confidence: 0.809797005454545

00:33:01.550 --> 00:33:02.910 So my second year fellow,

NOTE Confidence: 0.809797005454545

00:33:02.910 --> 00:33:05.606 who's a rising third year now Eric Kahn,

NOTE Confidence: 0.809797005454545

00:33:05.610 --> 00:33:07.580 would be another good point.

NOTE Confidence: 0.809797005454545

00:33:07.580 --> 00:33:09.228 Of reference as well.

NOTE Confidence: 0.633314596666667

00:33:14.060 --> 00:33:19.180 There's another chat. The questions.

NOTE Confidence: 0.633314596666667

00:33:19.180 --> 00:33:20.951 Can you talk a little bit more

NOTE Confidence: 0.633314596666667

00:33:20.951 --> 00:33:22.200 about your outpatient services?

NOTE Confidence: 0.633314596666667

00:33:22.200 --> 00:33:24.076 How quickly can these patients be seen,

NOTE Confidence: 0.633314596666667

00:33:24.080 --> 00:33:26.186 particularly those who need to start

NOTE Confidence: 0.633314596666667

00:33:26.186 --> 00:33:27.590 anti cancer treatment quickly?

NOTE Confidence: 0.77724546125

00:33:27.840 --> 00:33:30.160 Absolutely. So usually the third

NOTE Confidence: 0.77724546125

00:33:30.160 --> 00:33:32.911 year fellow actually does all of

NOTE Confidence: 0.77724546125

00:33:32.911 --> 00:33:35.043 the at least the Medicaid referrals

NOTE Confidence: 0.77724546125

00:33:35.043 --> 00:33:36.958 and other referrals as well.

NOTE Confidence: 0.77724546125

00:33:36.960 --> 00:33:38.016 If you just mark them urgent,

NOTE Confidence: 0.77724546125

00:33:38.020 --> 00:33:39.628 we usually can see them within

NOTE Confidence: 0.77724546125

00:33:39.628 --> 00:33:41.800 a week if not faster inpatient.

NOTE Confidence: 0.77724546125

00:33:41.800 --> 00:33:44.194 Of course we see within 24 hours a lot

NOTE Confidence: 0.77724546125

00:33:44.194 --> 00:33:46.388 of times it's just be like video chat

NOTE Confidence: 0.77724546125

00:33:46.388 --> 00:33:48.380 so we can just talk about the options.

NOTE Confidence: 0.77724546125

00:33:48.380 --> 00:33:50.702 And start getting things set up on our end,

NOTE Confidence: 0.77724546125

00:33:50.710 --> 00:33:52.786 but usually we see people very

NOTE Confidence: 0.77724546125

00:33:52.786 --> 00:33:55.339 quickly and you know we manage to

NOTE Confidence: 0.77724546125

00:33:55.339 --> 00:33:57.169 squeeze them in somewhere because

NOTE Confidence: 0.77724546125

00:33:57.169 --> 00:33:59.740 we know how important this is and.

NOTE Confidence: 0.77724546125

00:33:59.740 --> 00:34:03.116 You know the hard part is when patients

NOTE Confidence: 0.77724546125

00:34:03.120 --> 00:34:04.626 you know are not stable enough,

NOTE Confidence: 0.77724546125

00:34:04.630 --> 00:34:06.114 and those are probably the hardest patients,

NOTE Confidence: 0.77724546125

00:34:06.120 --> 00:34:08.815 and so usually if they have to

NOTE Confidence: 0.77724546125

00:34:08.815 --> 00:34:10.880 undergo cancer treatment immediately,

NOTE Confidence: 0.77724546125

00:34:10.880 --> 00:34:12.392 we want to make sure that they know how

NOTE Confidence: 0.77724546125

00:34:12.392 --> 00:34:14.155 to find us afterwards so we can start

NOTE Confidence: 0.77724546125

00:34:14.155 --> 00:34:17.370 planning after their treatment as well.

NOTE Confidence: 0.77724546125

00:34:17.370 --> 00:34:18.100 Ohh Kurt,

NOTE Confidence: 0.77724546125

00:34:18.100 --> 00:34:20.655 is there any movement to extend reproductive

NOTE Confidence: 0.77724546125

00:34:20.655 --> 00:34:22.590 coverage to patients with Medicaid?

NOTE Confidence: 0.77724546125

00:34:22.590 --> 00:34:25.814 I wish I've not seen any movement from.

NOTE Confidence: 0.77724546125

00:34:25.820 --> 00:34:27.041 Fortunately for that,

NOTE Confidence: 0.77724546125

00:34:27.041 --> 00:34:29.890 I think there's this an ongoing struggle.

NOTE Confidence: 0.77724546125

00:34:29.890 --> 00:34:31.410 The hard part too is.

NOTE Confidence: 0.77724546125

00:34:31.410 --> 00:34:33.210 I'm not originally from East Coast,

NOTE Confidence: 0.77724546125

00:34:33.210 --> 00:34:34.810 but since all the states are so small

NOTE Confidence: 0.77724546125

00:34:34.810 --> 00:34:36.526 each time you move states we see a

NOTE Confidence: 0.77724546125

00:34:36.526 --> 00:34:38.470 lot of patients from Rhode Island and

NOTE Confidence: 0.77724546125

00:34:38.470 --> 00:34:40.290 Massachusetts and New York and all of

NOTE Confidence: 0.77724546125

00:34:40.290 --> 00:34:41.772 those states have different policies

NOTE Confidence: 0.77724546125

00:34:41.772 --> 00:34:43.944 when it comes to fertility preservation,

NOTE Confidence: 0.77724546125

00:34:43.950 --> 00:34:45.959 and so it makes it very difficult

NOTE Confidence: 0.797136306

00:34:46.000 --> 00:34:47.770 to keep up with. I think,

NOTE Confidence: 0.903187732

00:34:48.220 --> 00:34:49.690 but I have not seen any

NOTE Confidence: 0.903187732

00:34:49.690 --> 00:34:50.670 improvement in that area.

NOTE Confidence: 0.898499862

00:34:54.640 --> 00:34:56.452 Can you clarify if the quality

NOTE Confidence: 0.898499862

00:34:56.452 --> 00:34:58.142 of life statistic is independent

NOTE Confidence: 0.898499862

00:34:58.142 --> 00:35:00.662 of whether or not the patient

NOTE Confidence: 0.898499862

00:35:00.662 --> 00:35:01.922 used preservation strategies?

NOTE Confidence: 0.898499862

00:35:01.930 --> 00:35:03.388 I think the stress is the

NOTE Confidence: 0.898499862

00:35:03.388 --> 00:35:04.117 importance of referral,

NOTE Confidence: 0.898499862

00:35:04.120 --> 00:35:05.288 regardless of whether or

NOTE Confidence: 0.898499862

00:35:05.288 --> 00:35:07.550 not you have time. Yes,

NOTE Confidence: 0.81202409

00:35:07.560 --> 00:35:10.692 it does. Patients, even if they

NOTE Confidence: 0.81202409

00:35:10.692 --> 00:35:12.153 cannot pursue the treatment.

NOTE Confidence: 0.81202409

00:35:12.153 --> 00:35:14.019 Especially they can't pursue it immediately.

NOTE Confidence: 0.81202409

00:35:14.020 --> 00:35:16.525 Still appreciate the counseling that

NOTE Confidence: 0.81202409

00:35:16.525 --> 00:35:19.908 they receive so that they're aware of it.

NOTE Confidence: 0.81202409

00:35:19.908 --> 00:35:21.990 It's not 10 years down the road that they're.

NOTE Confidence: 0.927933735

00:35:22.070 --> 00:35:23.410 Surprised by this outcome.

NOTE Confidence: 0.60009754

00:35:28.950 --> 00:35:30.274 Something as well as that

NOTE Confidence: 0.60009754

00:35:30.274 --> 00:35:31.510 we're doing a lot more ovarian

NOTE Confidence: 0.828731549230769

00:35:31.562 --> 00:35:32.729 tissue crime preservation.

NOTE Confidence: 0.828731549230769

00:35:32.730 --> 00:35:36.104 I'm doctor ate. Who's a Yale physician,

NOTE Confidence: 0.828731549230769

00:35:36.110 --> 00:35:39.026 but recently has been working

NOTE Confidence: 0.828731549230769

00:35:39.026 --> 00:35:41.090 a little bit more with us.

NOTE Confidence: 0.828731549230769

00:35:41.090 --> 00:35:42.650 He does the ovarian tissue crime

NOTE Confidence: 0.828731549230769

00:35:42.650 --> 00:35:44.158 preservation, he kind of based out of

NOTE Confidence: 0.828731549230769

00:35:44.158 --> 00:35:46.459 New York when he comes down and does

NOTE Confidence: 0.828731549230769

00:35:46.459 --> 00:35:47.867 ovarian just require preservation,

NOTE Confidence: 0.828731549230769

00:35:47.870 --> 00:35:50.350 and does a lot of research on fertility,

NOTE Confidence: 0.828731549230769

00:35:50.350 --> 00:35:52.156 preservation, and so we're lucky to have

NOTE Confidence: 0.828731549230769

00:35:52.156 --> 00:35:54.146 him and that we can kind of continue.

NOTE Confidence: 0.828731549230769

00:35:54.150 --> 00:35:56.370 Still other areas that we're

NOTE Confidence: 0.828731549230769

00:35:56.370 --> 00:35:59.632 trying to improve on is, you know,

NOTE Confidence: 0.828731549230769

00:35:59.632 --> 00:36:01.608 testicular tissue prior preservation.

NOTE Confidence: 0.828731549230769

00:36:01.610 --> 00:36:03.090 Hopefully we will get more.

NOTE Confidence: 0.828731549230769

00:36:03.090 --> 00:36:04.720 There's only like 1 area,

NOTE Confidence: 0.828731549230769

00:36:04.720 --> 00:36:06.535 I think in Philadelphia or

NOTE Confidence: 0.828731549230769

00:36:06.535 --> 00:36:07.624 Pittsburgh around here.

NOTE Confidence: 0.828731549230769

00:36:07.630 --> 00:36:10.126 That does that for prepubescent boys,

NOTE Confidence: 0.828731549230769

00:36:10.130 --> 00:36:12.098 that is still experimental,

NOTE Confidence: 0.828731549230769

00:36:12.098 --> 00:36:14.235 but there's a lot of different

NOTE Confidence: 0.828731549230769

00:36:14.235 --> 00:36:15.880 things that we're just trying

NOTE Confidence: 0.828731549230769

00:36:15.945 --> 00:36:17.969 to bring more to Yale so that we

NOTE Confidence: 0.828731549230769

00:36:17.969 --> 00:36:20.431 can ensure that we kind of cover

NOTE Confidence: 0.828731549230769

00:36:20.431 --> 00:36:21.947 everyone for fertility preservation.

NOTE Confidence: 0.828731549230769

00:36:21.950 --> 00:36:24.540 When it comes to male fertility preservation.

NOTE Confidence: 0.828731549230769

00:36:24.540 --> 00:36:27.000 It's usually if they're postural,

NOTE Confidence: 0.828731549230769

00:36:27.000 --> 00:36:27.834 very straightforward.

NOTE Confidence: 0.828731549230769

00:36:27.834 --> 00:36:30.336 If there's any problem with **********

NOTE Confidence: 0.828731549230769

00:36:30.340 --> 00:36:31.876 or the patients are unable to do so,

NOTE Confidence: 0.828731549230769

00:36:31.880 --> 00:36:34.456 we just have our colleague from Urology, Dr.

NOTE Confidence: 0.828731549230769

00:36:34.456 --> 00:36:36.536 Honig, help us with that,

NOTE Confidence: 0.828731549230769

00:36:36.540 --> 00:36:38.742 but we have our own andrology

NOTE Confidence: 0.828731549230769

00:36:38.742 --> 00:36:40.660 lab and store sperm here.

NOTE Confidence: 0.911451026666667

00:36:46.120 --> 00:36:47.539 Any other questions?

NOTE Confidence: 0.888016965714286

00:36:51.450 --> 00:36:52.650 Well, thank you both.

NOTE Confidence: 0.888016965714286

00:36:52.650 --> 00:36:55.276 It was really great and we

NOTE Confidence: 0.888016965714286

00:36:55.276 --> 00:36:56.848 look forward to interacting

NOTE Confidence: 0.888016965714286

00:36:56.848 --> 00:36:59.117 with your colleagues in the in

NOTE Confidence: 0.888016965714286

00:36:59.117 --> 00:37:00.995 the years ahead and good luck.