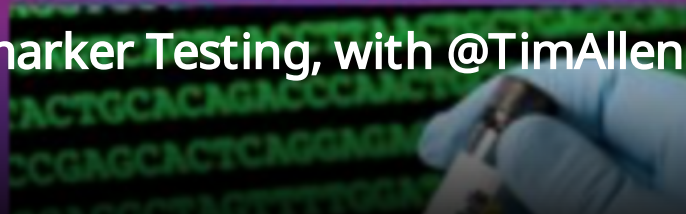


Biomarker Testing"

Basics of Biomarker Testing, with @TimAllenMDJD
#CancerSM

333 Items



#cancersm Chat "Basics of Biomarker Testing"



5 pm Pacific/8 pm Eastern
Thursday July 11, 2019

*This chat is for ALL cancer types
and all # cancer groups*



#LCSM Chat
@lcschat



In lieu of July's #LCSM Chat, the lung cancer community will join w/other cancer communities on Thu 7/11 at 8 pm Eastern for a joint chat on "Basics of Biomarker Testing" moderated by @TimAllenMDJD. Our hashtag will be #CANCERSM. Pls join us! mmsm #ayacsm #gynscsm #mmsm

♡ 6 5:08 PM - Jul 8, 2019

[See #LCSM Chat's other Tweets](#)



Elaine Schattner
@ESchattner



This upcoming pancancer chat--on [#biomarker](#) testing--sounds noteworthy! Thurs July 11, [#cancersm](#) via [@cindy_perettie](#) [twitter.com/JFreemanDaily/...](#)

Janet Freeman-Daily @JFreemanDaily

In lieu of July #LCSM Chat, the lung cancer community will join with other cancer hashtag communities on Thu 7/11 at 8 pm Eastern for a joint chat on "Basics of Biomarker Testing" moderated by @TimAllenMDJD. We'll be using #cancersm. #BCSM #AYASM #BTSM #MMSM #GYNCMS

The graphic has a red-to-purple gradient background. At the top, the text "#cancersm Chat" is in white, with "#cancersm" underlined. Below it, "Basics of Biomarker Testing" is in a larger white font. In the center is an image of a hand in a blue glove holding a test tube with yellow liquid, set against a background of green DNA base pairs. Below the image, the text "5 pm Pacific/8 pm Eastern Thursday July 11, 2019" is in white. At the bottom, the text "This chat is for ALL cancer types and all # cancer groups" is in white, italicized.

♡ 9 2:48 PM - Jul 9, 2019



See Elaine Schattner's other Tweets





#LCSM Chat

@lcsmchat



#CANCERSM Chat topic 11-Jul-2019: Basics of Biomarker Testing lcsmchat.com/2019/07/09/can...

♡ 6 6:56 PM - Jul 9, 2019



#CANCERSM Chat topic 11-Jul-2019: ...

Until just a few years ago, chemotherapy was often the only option for some cancer patients. In just a few short years, lcsmchat.com

 [See #LCSM Chat's other Tweets](#)



Cindy Perettie @cindy_perettie · Jul 9, 2019



Looking forward to this chat! I encourage industry professionals, [#cancer](#) patients and caregivers to join this educational chat on [#biomarker](#) testing.
[twitter.com/JFreemanDaily/...](https://twitter.com/JFreemanDaily/)

Janet Freeman-Daily @JFreemanDaily

In lieu of July [#LCSM](#) Chat, the lung cancer community will join with other cancer hashtag communities on Thu 7/11 at 8 pm Eastern for a joint chat on "Basics of Biomarker Testing" moderated by @TimAllenMDJD. We'll be using [#cancersm](#). [#BCSM](#) [#AYASM](#) [#BTSM](#) [#MMSM](#) [#GYNCSM](#)

#cancersm Chat
"Basics of Biomarker Testing"

5 pm Pacific/8 pm Eastern
Thursday July 11, 2019

*This chat is for ALL cancer types
and all # cancer groups*

Janet Freeman-Daily [@JFreemanDaily](#)

Blog post with topics for the pancancer July 11 8 PM (Eastern time) [#cancersm](#) tweet chat on "Basics of Biomarker Testing" is here:

lcschat.com/2019/07/09/can... [#LCSM](#) [#BCSM](#) [#BTSM](#) [#MMSM](#) [#GYNCSM](#) [#AYASM](#)

♡ 7:11 PM - Jul 9, 2019



#CANCERSM Chat topic 11-Jul-2019: ...

Until just a few years ago, chemotherapy was often the only option for some cancer patients. In just a few short years,
lcschat.com

[See Janet Freeman-Daily's other Tweets](#)





#LCSM Chat

@lcsmchat



Blog post with topics for the pancancer July 11 8 PM (Eastern time) [#cancersm](#) tweet chat on "Basics of Biomarker Testing" is here:

[lcsmchat.com/2019/07/09/can...](#) [#LCSM](#) [#BCSM](#) [#BTSM](#) [#MMSM](#) [#GYNCsm](#) [#AYASM](#)

♡ 3 7:13 PM - Jul 9, 2019



#CANCERSM Chat topic 11-Jul-2019: ...

Until just a few years ago, chemotherapy was often the only option for some cancer patients. In just a few short years, [lcsmchat.com](#)

[See #LCSM Chat's other Tweets](#)



#cancersm Chat
"Basics of Biomarker Testing"

5 pm Pacific/8 pm Eastern
Thursday July 11, 2019

*This chat is for ALL cancer types
and all # cancer groups*



Dee Sparacio

@womenofteal



After [#gynccsm](#) chat on July 10th (9pm) on Maintenance Therapies join us & other cancer Twitter communities for a [#cancersm](#) chat on Basics of Biomarker Testing [@TimAllenMDJD](#) - ?'s include What treatment options can be identified through biomarker testing?

♡ 6 7:13 PM - Jul 9, 2019

[See Dee Sparacio's other Tweets](#)



#cancersm Chat “Basics of Biomarker Testing”



**5 pm Pacific/8 pm Eastern
Thursday July 11, 2019**

*This chat is for ALL cancer types
and all # cancer groups*



Alicia C. Staley
@stales



ATTN: [#BCSM](#) We'll join other cancer hashtag communities ([#LCSM](#), [#BTSM](#), [#MMSM](#) etc) this Thursday 7/11 at 8 PM ET for a joint chat on "Basics of Biomarker Testing" moderated by [@TimAllenMDJD](#). We'll use [#cancersm](#) as our chat hashtag. Please join us.

♡ 38 7:43 PM - Jul 9, 2019

💬 28 people are talking about this



Emily Drake
@EK_Drake



#AYACSM - July's chat will be this twitter community chat happening this Thursday! #CancerSM will be the hashtag twitter.com/stales/status/...

Alicia C. Staley @stales

ATTN: #BCSM We'll join other cancer hashtag communities (#LCSM, #BTSM, #MMSM etc) this Thursday 7/11 at 8 PM ET for a joint chat on "Basics of Biomarker Testing" moderated by @TimAllenMDJD. We'll use #cancersm as our chat hashtag. Please join us.

The graphic has a red background with a purple-to-blue gradient at the bottom. At the top, the text "#cancersm Chat" is in white, with "#cancersm" underlined. Below it, "Basics of Biomarker Testing" is in a larger white font. In the center is a square image showing a hand in a blue glove holding a test tube with yellow liquid, set against a background of green DNA base pairs. Below the image, the text "5 pm Pacific/8 pm Eastern Thursday July 11, 2019" is in white. At the bottom, the text "This chat is for ALL cancer types and all # cancer groups" is in white, italicized.

♡ 8 8:06 PM - Jul 9, 2019



See Emily Drake's other Tweets



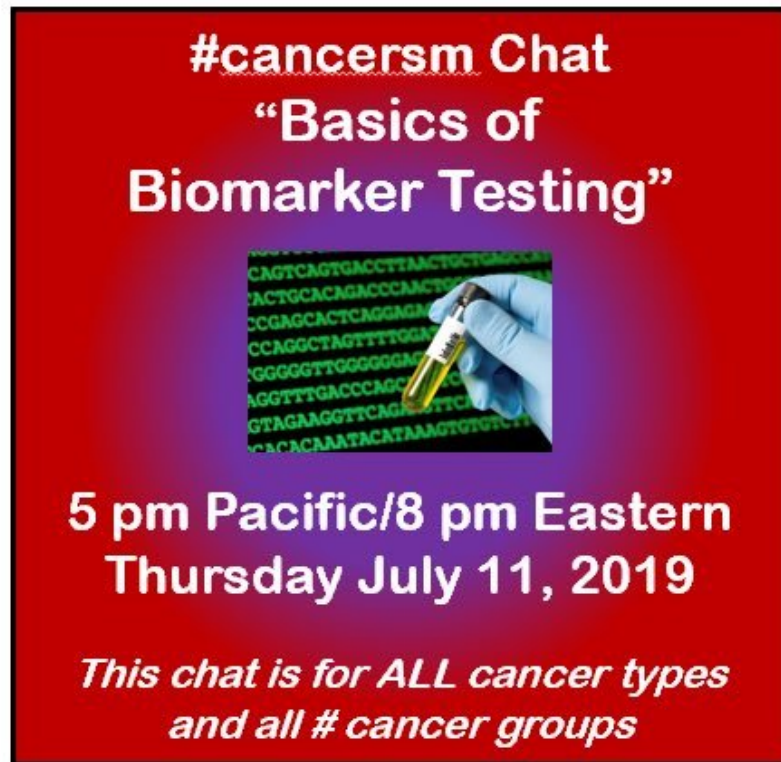
Brave Bosom @BraveBosom · Jul 9, 2019



Very exciting!! I may have to take a vacation from vacation for this 🤔 [#BCSM](#) [#MedX](#) [#BTSM](#) [#LCSM](#) [#GCChat](#) [#BRCA](#) [#HCSM](#) [twitter.com/stales/status/...](#)

Alicia C. Staley @stales

ATTN: [#BCSM](#) We'll join other cancer hashtag communities ([#LCSM](#), [#BTSM](#), [#MMSM](#) etc) this Thursday 7/11 at 8 PM ET for a joint chat on "Basics of Biomarker Testing" moderated by @TimAllenMDJD. We'll use [#cancersm](#) as our chat hashtag. Please join us.



Liz Salmi
@TheLizArmy

So glad I'll be on an [@JetBlue](#) flight at that time! Free Wi-Fi so I can participate in [#CancerSM](#) chat!

♡ 3 1:46 AM - Jul 10, 2019



[See Liz Salmi's other Tweets](#)





Ranger°
@2Echo68Whiskey



Thu July 11th at 8 pm Eastern [#CANCERSM](#) Chat Topic:
"Basics of Biomarker Testing" in:

- All Cancer Types
- All Cancer Groups [#cancersm](#) [#BCSM](#) [#AYASM](#)
[#BTSM](#) [#MMSM](#) [#GYNCMSM](#)

➔ [lcschat.com/2019/07/09/can...](#)
[twitter.com/JFreemanDaily/...](#)



#CANCERSM Chat topic 11-Jul-2019: ...

Until just a few years ago, chemotherapy was often the only option for some cancer patients. In just a few short years, [lcschat.com](#)

Janet Freeman-Daily @JFreemanDaily

In lieu of July [#LCSM Chat](#), the lung cancer community will join with other cancer hashtag communities on Thu 7/11 at 8 pm Eastern for a joint chat on "Basics of Biomarker Testing" moderated by @TimAllenMDJD. We'll be using [#cancersm](#). [#BCSM](#) [#AYASM](#) [#BTSM](#) [#MMSM](#) [#GYNCMSM](#)

#cancersm Chat
"Basics of Biomarker Testing"

5 pm Pacific/8 pm Eastern
Thursday July 11, 2019

*This chat is for ALL cancer types
and all #cancer groups*

♡ 1 8:13 AM - Jul 10, 2019



[See Ranger°'s other Tweets](#)





Jamie Holloway, PhD
@jamienholloway

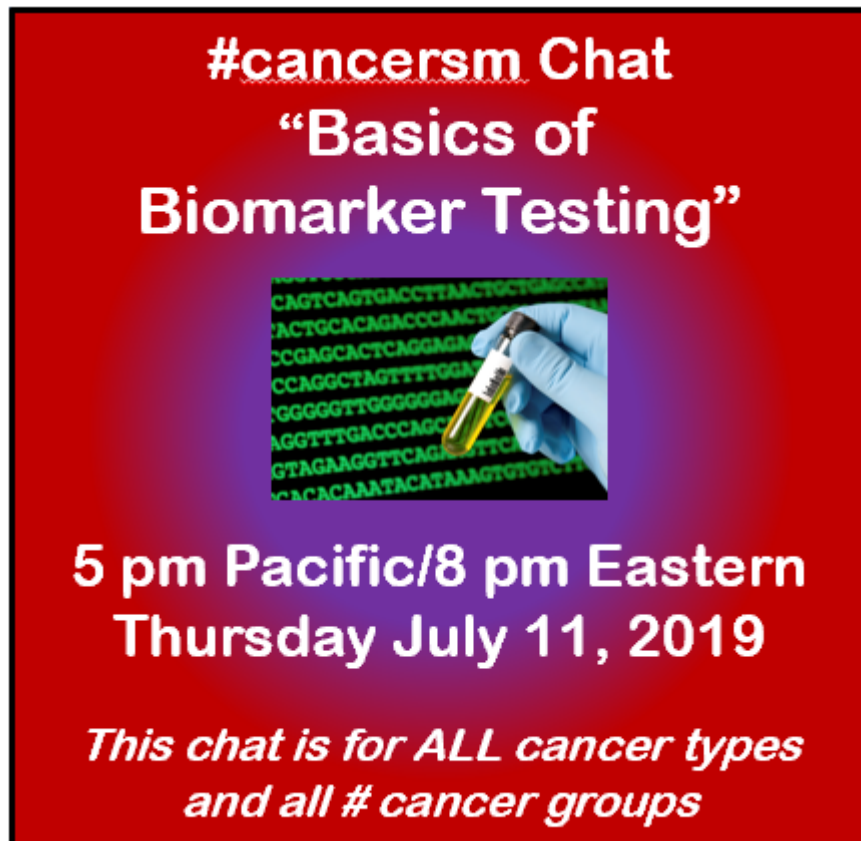


Hey advocate friends-- any of you have experience on pembro or another anti-PDL1 drug? Asking for a friend, might have a project for you... [#bcs](#)[m](#) [#lcs](#)[m](#) [#ams](#)[m](#) [#mms](#)[m](#) [#cr](#)[cs](#)[m](#) [#bt](#)[sm](#) [#gyn](#)[cs](#)[m](#) [#ct](#)[sm](#) [#cancer](#)[sm](#)

♡ 5 3:48 PM - Jul 10, 2019



[See Jamie Holloway, PhD's other Tweets](#)



GYN Cancer | #GYNC[SM](#)
@gyn~~cs~~[m](#)



Please join the all-cancer chat [#CancerSM](#) Thur Jul 11 8pmET on the Basics of Biomarker Testing [lcs](#)[m](#)[chat.com/2019/07/09/can...](#) [#cervical](#)[cancer](#) [#ovarian](#)[cancer](#) [#peritoneal](#)[cancer](#) [#fallopian](#)[cancer](#) [#endometrial](#)[cancer](#) [#uterine](#)[cancer](#) GT [#neoplasm](#) [#vaginal](#)[cancer](#) [#vulvar](#)[cancer](#) gyn [#sarcoma](#)

♡ 4:18 PM - Jul 10, 2019

[See GYN Cancer | #GYNC](#)[SM's other Tweets](#)



#cancersm Chat “Basics of Biomarker Testing”



**5 pm Pacific/8 pm Eastern
Thursday July 11, 2019**

*This chat is for ALL cancer types
and all # cancer groups*



GYN Cancer | #GYNCSM
@gynscsm



Please join the all-cancer chat [#CancerSM](#) Thur Jul 11
8pmET on the Basics of Biomarker Testing
[lscsmchat.com/2019/07/09/can...#BRCA](#) [#HBOC](#)
[#lynchsyndrome](#) [#GenCsm](#) [#Cowdensyndrome](#) [#PTEN](#)
[#DES](#) [#gcchat](#) [#hereditarycancer](#) [#previvor](#) [#bcs](#)
[#btsm](#) [#lscsm](#) [#mmsm](#) [#ayacsm](#) [#PANCChat](#)

♡ 2 4:19 PM - Jul 10, 2019

[See GYN Cancer | #GYNCSM's other Tweets](#)



#cancersm Chat “Basics of Biomarker Testing”



5 pm Pacific/8 pm Eastern
Thursday July 11, 2019

*This chat is for ALL cancer types
and all # cancer groups*



SGO
@SGO_org



A joint cancer Tweet Chat using the hashtag [#cancersm](#) will be held tomorrow, July 11 at 8:00 p.m. ET / 7:00 p.m. CT / 5:00 p.m. PT. The topic will be "Basics of Biomarker Testing" with guest [@TimAllenMDJD](#). This chat is for all cancer types and all # cancer subgroups.

♡ 4 4:41 PM - Jul 10, 2019

[See SGO's other Tweets](#)



GYN Cancer | #GYNCSCM
@gynscsm



Join [#gynscsm](#) for two great chats this week. On Wed July 10th 9pmET [#gynscsm](#) will discuss Maintenance Therapies for Gyn Cancers and on Thur July 11th 8pmET [#cancersm](#) (all cancer tag communities) will discuss Basics of Biomarker Testing w/ [@TimAllenMDJD](#)
buff.ly/2Ijj87n

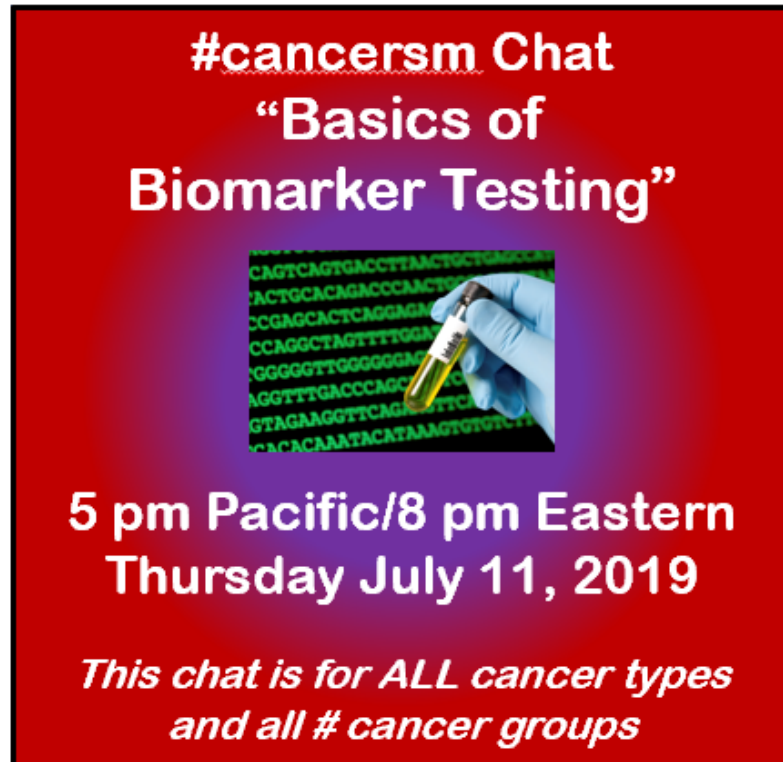
♡ 2 5:45 PM - Jul 10, 2019

[See GYN Cancer | #GYNCSCM's other Tweets](#)



Janet Freeman-Daily @JFreemanDaily · Jun 29, 2019

In lieu of July [#LCSM](#) Chat, the lung cancer community will join with other cancer hashtag communities on Thu 7/11 at 8 pm Eastern for a joint chat on "Basics of Biomarker Testing" moderated by [@TimAllenMDJD](#). We'll be using [#cancersm](#). [#BCSM](#) [#AYASM](#) [#BTSM](#) [#MMSM](#) [#GYNCSM](#)



A.n.n.
@fireflyann

tomorrow...Thu 7/11 at 8 pm Eastern for a joint chat on "Basics of Biomarker Testing" moderated by [@TimAllenMDJD](#).

[#cancersm](#). [#BCSM](#) [#AYASM](#) [#BTSM](#) [#MMSM](#) [#GYNCSM](#)

♡ 1 10:52 PM - Jul 10, 2019



[See A.n.n.'s other Tweets](#)



#cancersm Chat “Basics of Biomarker Testing”



5 pm Pacific/8 pm Eastern
Thursday July 11, 2019

*This chat is for ALL cancer types
and all # cancer groups*



GYN Cancer | #GYNCSM

@gynscsm



Announcement: We hope you will join and spread the word about the all-cancer chat [#CancerSM](#) on Thur Jul 11 at 8pmET on the Basics of Biomarker Testing with [@TimAllenMDJD](#) lcsmchat.com/2019/07/09/can...
[#gynscsm](#)

♡ 3 1:11 AM - Jul 11, 2019

[See GYN Cancer | #GYNCSM's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



Tomorrow [#cancersm](https://twitter.com/gynccsm/status/...) twitter.com/gynccsm/status/...

GYN Cancer | #GYNCCSM @gynccsm

Please join/share the all-cancer chat #CancerSM Thur Jul 11 at 8pmET on the Basics of Biomarker Testing with @TimAllenMDJD lcsmchat.com/2019/07/09/can...#gynccsm

#cancersm Chat
“Basics of Biomarker Testing”

5 pm Pacific/8 pm Eastern
Thursday July 11, 2019

*This chat is for ALL cancer types
and all # cancer groups*

♡ 2 1:59 AM - Jul 11, 2019



[See Timothy Craig Allen's other Tweets](#)



#cancersm Chat “Basics of Biomarker Testing”



5 pm Pacific/8 pm Eastern
Thursday July 11, 2019

*This chat is for ALL cancer types
and all # cancer groups*



#LCSM Chat
@lcschat



TODAY! In lieu of July's #LCSM Chat, we will join other cancer communities on Thu 7/11 at 8 pm ET for a joint chat "Basics of Biomarker Testing" moderated by @TimAllenMDJD. Our hashtag will be #CANCERSM. Read more about it here: lcschat.com/2019/07/09/can...
#ayacsm #mmsm Join us!

♡ 1 1:06 PM - Jul 11, 2019

[See #LCSM Chat's other Tweets](#)



GYN Cancer | #GYNCSM
@gynscsm



#gynscsm Community: Please join us for the collaborative #CANCERSM Chat on "Basics of Biomarker Testing" w/ @TimAllenMDJD today, Thurs July 11th at 8pmET gynscsm.blogspot.com/2019/07/cancer...

♡ 1:58 PM - Jul 11, 2019

[See GYN Cancer | #GYNCSM's other Tweets](#)



#cancersm Chat “Basics of Biomarker Testing”



**5 pm Pacific/8 pm Eastern
Thursday July 11, 2019**

*This chat is for ALL cancer types
and all # cancer groups*



#LCSM Chat
@lcsmchat



TODAY! In lieu of July's #LCSM Chat, we will join other cancer communities on Thu 7/11 at 8 pm ET for a joint chat "Basics of Biomarker Testing" moderated by @TimAllenMDJD. Our hashtag will be #CANCERSM. Read more about it here: lcsmchat.com/2019/07/09/can...
@IanJPereira #hcsm

♡ 8 2:13 PM - Jul 11, 2019

[See #LCSM Chat's other Tweets](#)



#cancersm Chat “Basics of Biomarker Testing”



**5 pm Pacific/8 pm Eastern
Thursday July 11, 2019**

*This chat is for ALL cancer types
and all # cancer groups*



GYN Cancer | #GYNCSM

@gynscsm



The [#CANCERSM](#) tweetchat is tonight, July 11th at 8pmET | 7pmCT | 5pmPT. The topic will be "Basics of Biomarker Testing" with [@TimAllenMDJD](#). Learn more about this collaborative chat and the topic questions here: buff.ly/2JtQXW3

♡ 3 5:03 PM - Jul 11, 2019

[See GYN Cancer | #GYNCSM's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



7PM CT tonight. [#cancersm twitter.com/gynccsm/status/...](https://twitter.com/gynccsm/status/1147888888888888888)

GYN Cancer | #GYNCISM @gynccsm

The #CANCERSM tweetchat is tonight, July 11th at 8pmET | 7pmCT | 5pmPT. The topic will be "Basics of Biomarker Testing" with @TimAllenMDJD. Learn more about this collaborative chat and the topic questions here: buff.ly/2JtQXW3

#cancersm Chat
"Basics of Biomarker Testing"

5 pm Pacific/8 pm Eastern
Thursday July 11, 2019

*This chat is for ALL cancer types
and all # cancer groups*

♡ 1 9:00 PM - Jul 11, 2019



[See Timothy Craig Allen's other Tweets](#)



#cancersm Chat “Basics of Biomarker Testing”



**5 pm Pacific/8 pm Eastern
Thursday July 11, 2019**

*This chat is for ALL cancer types
and all # cancer groups*



Christina Lizaso

@btrfly12



Join/Share: [#CancerSM](#) all-cancer chat on the "Basics of Biomarker Testing" w/ [@TimAllenMDJD](#) today, Thur July 11th 8pmET gynscsm.blogspot.com/2019/07/cancer...

♡ 8 10:23 PM - Jul 11, 2019

[See Christina Lizaso's other Tweets](#)





Faces of Lung Cancer

@LungCancerFaces



In lieu of July's [#LCSM](#) Chat, the lung cancer community will join w/other cancer communities TONIGHT at 8 pm Eastern for a joint chat on "Basics of Biomarker Testing" moderated by [@TimAllenMDJD](#). Our hashtag will be [#CANCERSM](#). Pls join us! More here:

lcsmchat.com/2019/07/09/can... [#hcsn](#)

♡ 4 10:57 PM - Jul 11, 2019

[See Faces of Lung Cancer's other Tweets](#)





Timothy Craig Allen

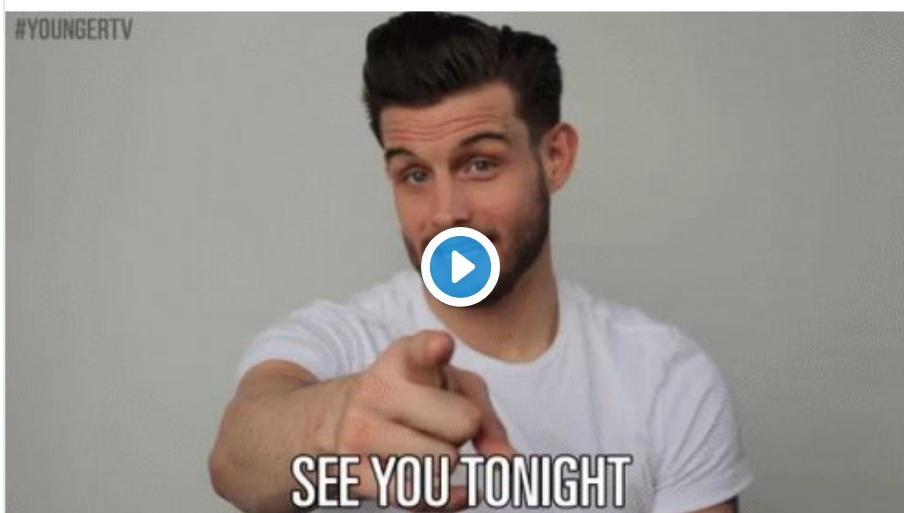
@TimAllenMDJD



Join us in 10 minutes for [#cancersm](#)!
twitter.com/LungCancerFace...

Faces of Lung Cancer @LungCancerFaces

In lieu of July's #LCSM Chat, the lung cancer community will join w/other cancer communities TONIGHT at 8 pm Eastern for a joint chat on "Basics of Biomarker Testing" moderated by @TimAllenMDJD. Our hashtag will be #CANCERSM. Pls join us! More here: lcsmchat.com/2019/07/09/can... #hcsn



♡ 1 11:50 PM - Jul 11, 2019



[See Timothy Craig Allen's other Tweets](#)



Faces of Lung Cancer

@LungCancerFaces



Remember [#LCSM](#) friends, for tonight's chat we will use the [#CANCERSM](#) hashtag!

♡ 8 11:57 PM - Jul 11, 2019

[See Faces of Lung Cancer's other Tweets](#)





Timothy Craig Allen

@TimAllenMDJD



Welcome to [#cancersm](#) Chat! This hour all the cancer hashtag communities come together to visit, learn, & share perspectives from our own cancer communities. Our topic is "Basics of Biomarker Testing"

♡ 19 12:00 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Jamie Holloway, PhD

@jamienholloway



Ready for tonight's chat: Basics of Biomarker Testing!
[#cancersm](#) twitter.com/TimAllenMDJD/s...

Timothy Craig Allen @TimAllenMDJD

Welcome to [#cancersm](#) Chat! This hour all the cancer hashtag communities come together to visit, learn, & share perspectives from our own cancer communities. Our topic is "Basics of Biomarker Testing"

♡ 4 12:01 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



I'm your moderator, Tim Allen ([@timallenmdjd](#))
Pulmonary pathologist. Professor and Chair of the
Department of Pathology at the University of Mississippi
Medical Center [@UMMCnews](#) [@UMMC_Pathology](#) in
Jackson, Mississippi [#cancersm](#)

♡ 7 12:01 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)





@MyelomaTeacher - Cindy Chmielewski
@MyelomaTeacher



#Myeloma peeps join in tonight's #cancersm chat
[#MMSM twitter.com/TimAllenMDJD/s...](https://twitter.com/TimAllenMDJD/s...)

Timothy Craig Allen @TimAllenMDJD

Welcome to #cancersm Chat! This hour all the cancer hashtag communities come together to visit, learn, & share perspectives from our own cancer communities. Our topic is "Basics of Biomarker Testing"

♡ 3 12:02 AM - Jul 12, 2019



[See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#) >



Bob Steele
@steele_bob



Good evening folks. Bob here from Greensboro, NC.
#cancersm

♡ 3 12:02 AM - Jul 12, 2019



[See Bob Steele's other Tweets](#) >



Timothy Craig Allen
@TimAllenMDJD



More info about #cancersm and our topic "Basics of Biomarker Testing" can be found at
lcschat.com/2019/07/09/can...

♡ 2 12:02 AM - Jul 12, 2019



#CANCERSM Chat topic 11-Jul-2019: ...

Until just a few years ago, chemotherapy was often the only option for some cancer patients. In just a few short years,
lcschat.com

[See Timothy Craig Allen's other Tweets](#) >



Timothy Craig Allen

@TimAllenMDJD



Please remember to include [#cancersm](#) in ALL your tweets so the other chat participants can see them. If you are new to Twitter, or need a refresher, please read the [#LCSM](#) primer on participating in a Twitter chat -lcsmchat.com/lcsm-chat/

♡ 12:03 AM - Jul 12, 2019



To Participate in #LCSM Chat

How do I join the #LCSM tweetchat? On Twitter, the hashtag #LCSM stands for Lung Cancer Social Media. People use that lcsmchat.com

[See Timothy Craig Allen's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



We'll get started in a few minutes -- please take a moment to introduce yourselves. [#cancersm](#)

♡ 1 12:03 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Janet Freeman-Daily ✓

@JFreemanDaily



Hi everyone! Welcome to the pancancer [#CANCERSM](#) chat on "Basics of Biomarkers Testing"! Remember to us [#cancersm](#) instead of other cancer hashtags (like [#LCSM](#) [#BCSM](#) [#BTSM](#) [@GYCSM](#) etc.)

♡ 6 12:03 AM - Jul 12, 2019



[See Janet Freeman-Daily's other Tweets](#)



#LCSM Chat

@lcsmchat



Deana Hendrickson [@LungCancerFaces](#) in Los Angeles here. Calling all [#lcsm](#) lung cancer people to tonight's [#CANCERSM](#) Chat on biomarkers.

♡ 7 12:03 AM - Jul 12, 2019



[See #LCSM Chat's other Tweets](#)





Betsy

@wildwestannie



Hello all! Betsy from Gloucester, MA here [#cancersm](#)

♡ 4 12:04 AM - Jul 12, 2019



[See Betsy's other Tweets](#)



Matthew Katz, MD

@subatomicdoc



Good evening, Matt Katz, radiation oncologist joining from Massachusetts. I hope everyone is well, looking forward to [#cancersm](#)

♡ 7 12:04 AM - Jul 12, 2019



[See Matthew Katz, MD's other Tweets](#)



Jamie Holloway, PhD

@jamienholloway



I'm Jamie-- cancer scientist and advocate in the DC area. [#cancersm](#)

♡ 4 12:04 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)



National Cancer Institute ✓

@theNCI



The National Cancer Institute is here. Thanks for hosting this [#cancersm](#) chat on biomarkers! [twitter.com/TimAllenMDJD/s...](https://twitter.com/TimAllenMDJD/status/1150000000000000000)

Timothy Craig Allen @TimAllenMDJD

Welcome to [#cancersm](#) Chat! This hour all the cancer hashtag communities come together to visit, learn, & share perspectives from our own cancer communities. Our topic is "Basics of Biomarker Testing"

♡ 30 12:04 AM - Jul 12, 2019



[See National Cancer Institute's other Tweets](#)





@MyelomaTeacher - Cindy Chmielewski
@MyelomaTeacher



Cindy - from NJ living with multiple myeloma [#cancersm](#)

♡ 12:05 AM - Jul 12, 2019



[See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#) >



Timothy Craig Allen
@TimAllenMDJD



If you prefer just to listen, please tweet "[#cancersm](#)" so we know you're in the audience (but I urge you ahead and join in!

♡ 12:05 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#) >



Timothy Craig Allen
@TimAllenMDJD



Please do not promote products or services on the [#cancersm](#) feed or during the chat. Feel free to share vetted online resources.

♡ 4 12:05 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#) >



Timothy Craig Allen
@TimAllenMDJD



If you change someone's words when you retweet, please label it MT (modified tweet). [#cancersm](#)

♡ 3 12:05 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#) >



Christina Lizaso
@btrfly12



Hi All - I'm passionate about community engagement and cancer. Co-founder w/ [@womenofteal](#) of [#gynccsm](#) for gynecologic cancers. Love it when the cancer communities collaborate. [#cancersm](#)

♡ 10 12:05 AM - Jul 12, 2019



[See Christina Lizaso's other Tweets](#) >



National Cancer Institute  @theNCI · Jul 12, 2019



The National Cancer Institute is here. Thanks for hosting this [#cancersm](#) chat on biomarkers!
twitter.com/TimAllenMDJD/s...

Timothy Craig Allen @TimAllenMDJD

Welcome to #cancersm Chat! This hour all the cancer hashtag communities come together to visit, learn, & share perspectives from our own cancer communities. Our topic is "Basics of Biomarker Testing"



Alicia C. Staley
@stales

Hi there! [#cancersm](#)

♡ 3 12:06 AM - Jul 12, 2019



 [See Alicia C. Staley's other Tweets](#)



Israh (K.) Akhtar
@israhkhan



Learn more about cancer, @ [#CANCERSM](#)

♡ 2 12:06 AM - Jul 12, 2019



 [See Israh \(K.\) Akhtar's other Tweets](#)



Matthew Steliga MD
@SteligaMD



Hello, [#cancersm](#)- following along from Little Rock.

♡ 3 12:06 AM - Jul 12, 2019 · Little Rock, AR



 [See Matthew Steliga MD's other Tweets](#)





BTSM chat | #btsm
@BTSMchat



Hello [#BTSM](#) community:

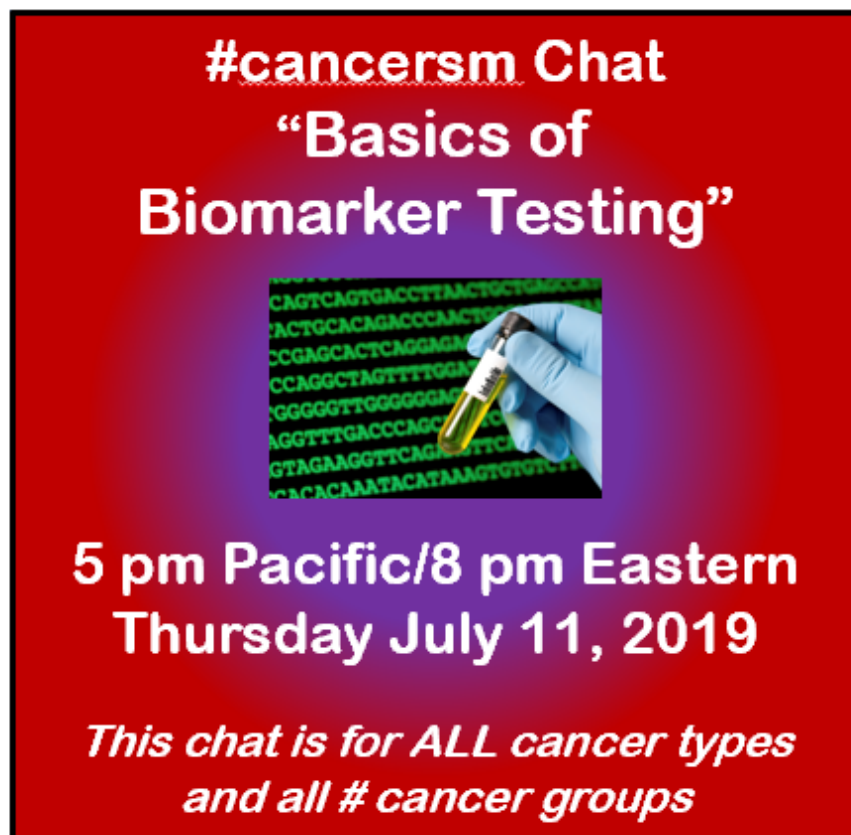
The [#cancersm](#) chat is happening RIGHT NOW. Use [#cancersm](#) in all of your tweets to join the discussion about the basics of biomarker testing!

Do you know YOUR biomarkers?!

[twitter.com/btrfly12/statu...](https://twitter.com/btrfly12/status...)

Christina Lizaso @btrfly12

Join/Share: [#CancerSM](#) all-cancer chat on the "Basics of Biomarker Testing" w/ @TimAllenMDJD today, Thur July 11th 8pmET gyncsm.blogspot.com/2019/07/cancer...



♡ 4 12:06 AM - Jul 12, 2019



[See BTSM chat | #btsm's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



Note: Twitter allows tweets up to 280 characters, but some tweetchat apps (like tchat.io) will not display tweets longer than 140. [#cancersm](#)

♡ 2 12:06 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)





#LCSM Chat @lcschat · Jul 12, 2019



Replying to @jamienholloway
Welcome Jamie.



Jamie Holloway, PhD
@jamienholloway

Thx! Glad to join this pancancer chat! Thx for hosting!
[#cancersm](#)

♡ 6 12:06 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)



P. F. Anderson
@pfanderson



Grateful for the invite to [#CANCERSM](#) (and that I finally got it on my calendar in the right place!) Excited to learn and share about biomarkers.

♡ 5 12:06 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)



Peggy Dennis
@peggyddennis



Hello! Following from Denver [#cancersm](#)

♡ 2 12:06 AM - Jul 12, 2019



[See Peggy Dennis's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



Glad to see [#cancersm](#) Twitter handles participating tonight! [#GoTeam](#)

♡ 1 12:06 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Alicia C. Staley
@stales



Hey [#BCSM](#) crew: The [#cancersm](#) chat is happening now!

♡ 7 12:06 AM - Jul 12, 2019



[See Alicia C. Staley's other Tweets](#)





Janet Freeman-Daily ✓
@JFreemanDaily



Janet Freeman-Daily in Seattle here--writer, science geek, lung cancer patient research advocate (grayconnections.net) #CANCERSM

♡ 9 12:07 AM - Jul 12, 2019



Gray Connections

Perspectives on Lung Cancer, Brain Science, and Other Stuff
grayconnections.net

[See Janet Freeman-Daily's other Tweets](#)



LungCancer.net
@LungCancer_HU



Margot here! #cancersm

♡ 5 12:07 AM - Jul 12, 2019



[See LungCancer.net's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



I will announce FIVE topics (T1 T2 etc). Pls label your answers with T1, T2, etc to make transcript easier to follow. #cancersm

♡ 1 12:07 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Alicia C. Staley
@stales



I'm Alicia - Co-founder of #BCSM. 3x cancer survivor - Thanks for hosting tonight's chat! #cancersm

♡ 14 12:07 AM - Jul 12, 2019



[See Alicia C. Staley's other Tweets](#)





Bob Steele

@steele_bob



Wife & I are both cancer survivors (breast, melanoma) but lung cancer advocates in honor of my dad who passed at young age of 58. [#cancersm](#)

♡ 13 12:07 AM - Jul 12, 2019



[See Bob Steele's other Tweets](#)



#LCSM Chat @lcschat · Jul 12, 2019



Replying to @stales @theNCI
Hi Alicia!



Alicia C. Staley

@stales

Hello, hello! [#CancerSM](#)

♡ 4 12:07 AM - Jul 12, 2019



[See Alicia C. Staley's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



We'll start with Topic T1 in a minute ...[#cancersm](#)

♡ 2 12:08 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Darcy Burbage

@DarcyBurbage



Hi everyone! I'm Darcy oncology nurse from Delaware looking forward to tonight's chat! [#CANCERSM](#)

♡ 5 12:08 AM - Jul 12, 2019



[See Darcy Burbage's other Tweets](#)





Janet Freeman-Daily  @JFreemanDaily · Jul 12, 2019 

Hi everyone! Welcome to the pancancer [#CANCERSM](#) chat on "Basics of Biomarkers Testing"! Remember to us [#cancersm](#) instead of other cancer hashtags (like [#LCSM](#) [#BCSM](#) [#BTSM](#) [@GYCSM](#) etc.)



Amanda Narod
@AmandaBinDC

Awesome! Amanda in DC. Previvor brca2+ patient advocate & cancer communications professional. Lurking and following along. [#cancersm](#).

♡ 2 12:08 AM - Jul 12, 2019 

 [See Amanda Narod's other Tweets](#) 



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019 

We'll get started in a few minutes -- please take a moment to introduce yourselves. [#cancersm](#)



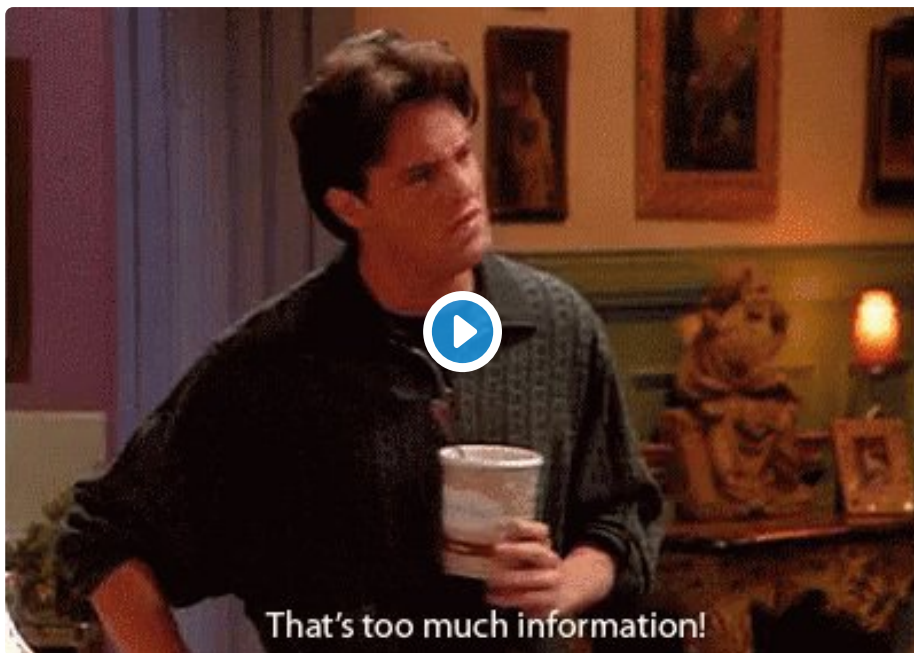
Liz Salmi
@TheLizArmy

Liz here from the [#BTSM](#)/brain tumor social media community!

I'm living with grade II astrocytoma and I have biomarkers! I am IDH-1 positive, ATRX negative.

BOOM! Overshare. [#cancersm](#)

♡ 5 12:09 AM - Jul 12, 2019 



 [See Liz Salmi's other Tweets](#) 



Israh (K.) Akhtar
@israhkhan



Good evening everyone, I am a Pathologist with expertise in cytopathology, breast, & pulmonary pathology [#CANCERSM](#)

♡ 8 12:09 AM - Jul 12, 2019



[See Israh \(K.\) Akhtar's other Tweets](#)



National Cancer Institute  @theNCI · Jul 12, 2019



The National Cancer Institute is here. Thanks for hosting this [#cancersm](#) chat on biomarkers!
twitter.com/TimAllenMDJD/s...

Timothy Craig Allen @TimAllenMDJD

Welcome to [#cancersm](#) Chat! This hour all the cancer hashtag communities come together to visit, learn, & share perspectives from our own cancer communities. Our topic is "Basics of Biomarker Testing"



@MyelomaTeacher - Cindy Chmielewski
@MyelomaTeacher

Glad to see you here! [#MMSM](#) [#cancersm](#)

♡ 3 12:09 AM - Jul 12, 2019



[See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#)



Ashley Love Sumrall, MD, FACP
@AshleySumrallMD



Neuro-onc checking in for [#btism](#) representation for [#cancersm](#) [#biomarkers](#) 🙌🙌
twitter.com/timallenmdjd/s...

Timothy Craig Allen @TimAllenMDJD

Welcome to [#cancersm](#) Chat! This hour all the cancer hashtag communities come together to visit, learn, & share perspectives from our own cancer communities. Our topic is "Basics of Biomarker Testing"

♡ 3 12:09 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)





Timothy Craig Allen

@TimAllenMDJD



T1: What is a biomarker and how is it identified?

[#cancersm](#)

♡ 1 12:10 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Sarika Jain

@drjainsp



I am a molecular pathologist and a hematopathologist

[#cancersm](#)

♡ 3 12:10 AM - Jul 12, 2019



[See Sarika Jain's other Tweets](#)



National Cancer Institute  @theNCI · Jul 12, 2019



The National Cancer Institute is here. Thanks for hosting this [#cancersm](#) chat on biomarkers!
twitter.com/TimAllenMDJD/s...

Timothy Craig Allen @TimAllenMDJD

Welcome to [#cancersm](#) Chat! This hour all the cancer hashtag communities come together to visit, learn, & share perspectives from our own cancer communities. Our topic is "Basics of Biomarker Testing"



Liz Salmi

@TheLizArmy

Nice to see [@theNCI](#) in the house!

Tagging [@NIHBrainTumor](#) because they are the [#BTSM](#) homies. 😊 [#cancersm](#)

♡ 5 12:10 AM - Jul 12, 2019



[See Liz Salmi's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T1: What is a biomarker and how is it identified?

[#cancersm](#)



P. F. Anderson

@pfanderson

Is this a quiz? Or a lecture? [#CancerSM](#)

♡ 5 12:12 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)





Timothy Craig Allen

@TimAllenMDJD

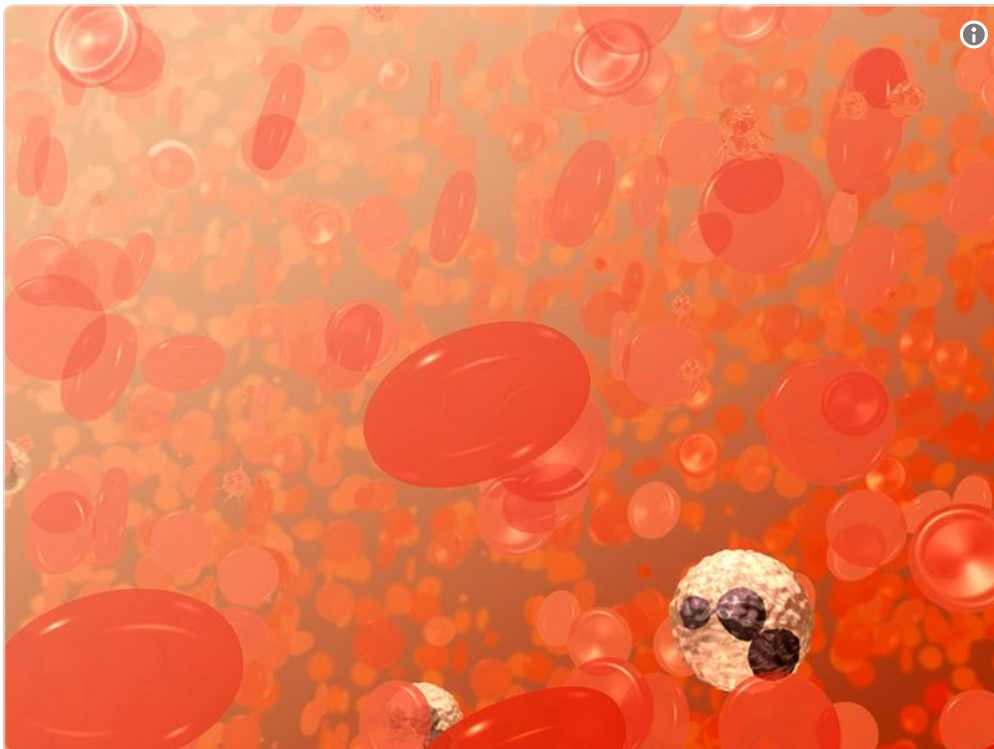


T1: There are lots of “biomarkers” of cancer, e.g., obesity is a prognostic biomarker for certain cancers. This chat focuses specifically on molecular biomarkers of cancer. Molecular biomarkers of cancer are identified by pathologists using laboratory testing. [#cancersm](#)

♡ 4 12:12 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



National Cancer Institute ✓

@theNCI



T1 A biomarker is a biological molecule found in blood, other body fluids, or tissues that is a sign of a normal or abnormal process, or of a condition or disease.

[cancer.gov/publications/d...](#) [#cancersm](#)

♡ 25 12:12 AM - Jul 12, 2019

[21 people are talking about this](#)



Janet Freeman-Daily ✓

@JFreemanDaily



T1: Holding my breath waiting for all the pathologists to answer ...

[#CANCERSM](#)

♡ 6 12:13 AM - Jul 12, 2019



[See Janet Freeman-Daily's other Tweets](#)





Hillary Stires, PhD

@HillStirSci



I'm Hillary! A frequenter of [#bcsbm](#), past breast cancer research scientist, currently working in health care policy. [#cancersm](#)

♡ 7 12:13 AM - Jul 12, 2019



[See Hillary Stires, PhD's other Tweets](#)



#LCSM Chat

@lcschat



Both? [#cancersm](#) [twitter.com/pfanderson/sta...](#)

P. F. Anderson @pfanderson

Replying to @TimAllenMDJD

Is this a quiz? Or a lecture? #CancerSM

♡ 2 12:13 AM - Jul 12, 2019



[See #LCSM Chat's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



It's a discussion! [#cancersm](#)
[twitter.com/pfanderson/sta...](#)

P. F. Anderson @pfanderson

Replying to @TimAllenMDJD

Is this a quiz? Or a lecture? #CancerSM

♡ 2 12:13 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)





P. F. Anderson

@pfanderson



Kyle Strimbu and Jorge A. Tavel, M.D. What are Biomarkers? (2011) [ncbi.nlm.nih.gov/pmc/articles/P...](https://ncbi.nlm.nih.gov/pmc/articles/PMC3408411/)
#CancerSM

♡ 3 12:13 AM - Jul 12, 2019



What are Biomarkers?

This article provides working definitions and a conceptual framework to understand the roles of biomarkers in clinical
[ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov/pmc/articles/PMC3408411/)

[See P. F. Anderson's other Tweets](#)



@MyelomaTeacher - Cindy Chmielewski

@MyelomaTeacher



T1- Someone tell me what a biomarker is! #MMSM
#cancersm

♡ 2 12:13 AM - Jul 12, 2019



[See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#)



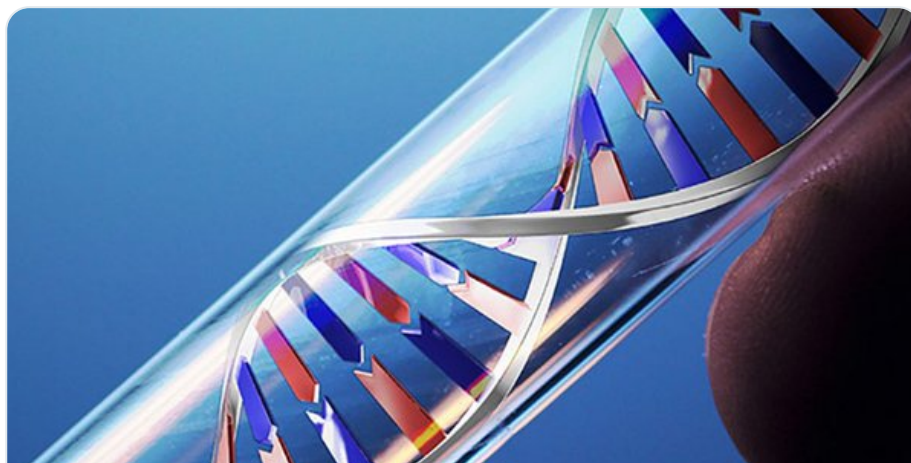
P. F. Anderson

@pfanderson



NIEHS: Biomarkers [niehs.nih.gov/health/topics/...](https://niehs.nih.gov/health/topics/biomarkers/)
#CancerSM

♡ 2 12:13 AM - Jul 12, 2019



Biomarkers

Biomarkers are key molecular or cellular events that link a specific environmental exposure to a health outcome.

[niehs.nih.gov](https://niehs.nih.gov/health/topics/biomarkers/)

[See P. F. Anderson's other Tweets](#)



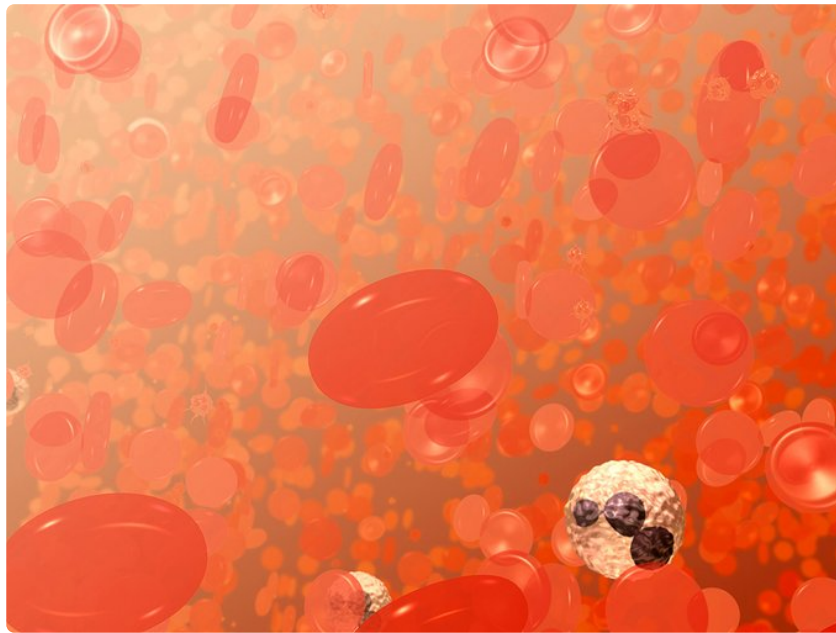


National Cancer Institute  @theNCI · Jul 12, 2019



T1 A biomarker is a biological molecule found in blood, other body fluids, or tissues that is a sign of a normal or abnormal process, or of a condition or disease.

cancer.gov/publications/d... #cancersm



Henning Willers, MD

@HenningWillers

T1 anything can be a biomarker. Does not have to be a molecule. #cancersm

♡ 6 12:13 AM - Jul 12, 2019



 [See Henning Willers, MD's other Tweets](#)



P. F. Anderson

@pfanderson



NCI Dictionary of Cancer Terms - biomarker

cancer.gov/publications/d... "A biological molecule found in blood, other body fluids, or tissues that is a sign of a normal or abnormal process, or of a condition or disease... Also called molecular marker and signature molecule." #CancerSM

♡ 3 12:14 AM - Jul 12, 2019

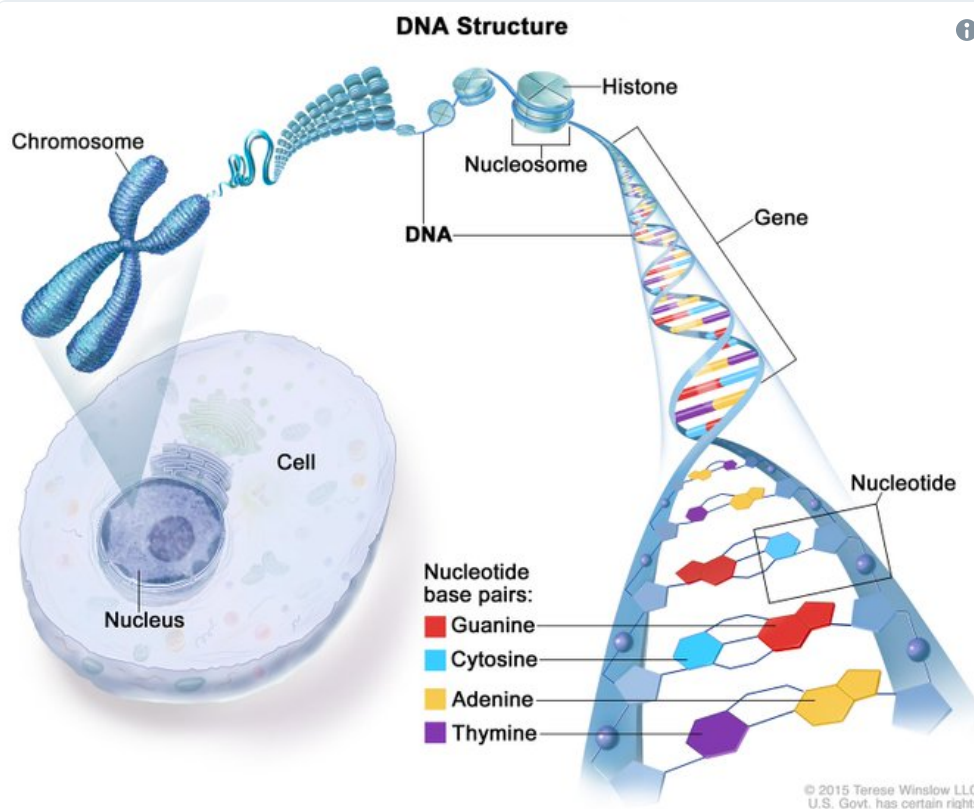


NCI Dictionary of Cancer Terms

A biological molecule found in blood, other body fluids, or tissues that is a sign of a normal or abnormal process, or of a
cancer.gov

 [See P. F. Anderson's other Tweets](#)





National Cancer Institute ✓

@theNCI



T1 A biomarker may be used to see how well the body responds to a treatment for a disease or condition. Also called molecular marker and signature molecule.

[#cancersm](#)

♡ 32 12:14 AM - Jul 12, 2019

💬 23 people are talking about this



P. F. Anderson

@pfanderson



FDA: BIOMARKER TERMINOLOGY: SPEAKING THE SAME LANGUAGE [fda.gov/files/BIOMARKE...](https://www.fda.gov/files/BIOMARKE...) [#CancerSM](#)

♡ 2 12:14 AM - Jul 12, 2019



👤 See P. F. Anderson's other Tweets





National Cancer Institute 
@theNCI



T1 Tumor markers, which are a type of biomarker, have traditionally been proteins or other substances that are made by both normal and cancer cells but at higher amounts by cancer cells. cancer.gov/about-cancer/d...
[#cancersm](#)

♡ 12 12:14 AM - Jul 12, 2019



Tumor Markers

A fact sheet that defines tumor markers and describes how they can be used to aid diagnosis and treatment.

cancer.gov

 [See National Cancer Institute's other Tweets](#)



P. F. Anderson
@pfanderson



FDA: What Are Biomarkers and Why Are They Important? Transcript fda.gov/drugs/cder-bio...
[#CancerSM](#)

♡ 3 12:15 AM - Jul 12, 2019



What Are Biomarkers and Why Are T...

What Are Biomarkers and Why Are They Important? Transcript

fda.gov

 [See P. F. Anderson's other Tweets](#)



@MyelomaTeacher - Cindy Chmielewski
@MyelomaTeacher



T1- Is fever is a biomarker of infection? [#cancersm](#)

♡ 2 12:15 AM - Jul 12, 2019



 [See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#)





National Cancer Institute 
@theNCI



T1 Tumor markers provide information about a cancer, such as how aggressive it is, whether it can be treated with a targeted therapy, or whether it is responding to treatment: cancer.gov/about-cancer/d... #cancersm

♡ 16 12:15 AM - Jul 12, 2019



Tumor Markers

A fact sheet that defines tumor markers and describes how they can be used to aid diagnosis and treatment.

cancer.gov

 [See National Cancer Institute's other Tweets](#)



@MyelomaTeacher - Cindy Chmiele... · Jul 12, 2019 

T1- Someone tell me what a biomarker is! #MMSM
#cancersm



Alicia C. Staley
@stales

I'm learning tonight too! #cancersm

♡ 4 12:16 AM - Jul 12, 2019



 [See Alicia C. Staley's other Tweets](#)



#LCSM Chat @lcschat · Jul 12, 2019



Both? #cancersm twitter.com/pfanderson/sta...

P. F. Anderson @pfanderson

Replying to @TimAllenMDJD

Is this a quiz? Or a lecture? #CancerSM



P. F. Anderson
@pfanderson

LOL! I'm seeing great stuff being shared from a lot of different directions. Going to be a great hour!

#CancerSM

♡ 3 12:16 AM - Jul 12, 2019



 [See P. F. Anderson's other Tweets](#)





Henning Willers, MD

@HenningWillers



T1 A biomarker can be predictive of treatment response or prognostic for disease course independent of treatment (ok that was not really the question)

[#cancersm](#) twitter.com/TimAllenMDJD/s...

Timothy Craig Allen @TimAllenMDJD

It's a discussion! [#cancersm](#) twitter.com/pfanderson/sta...

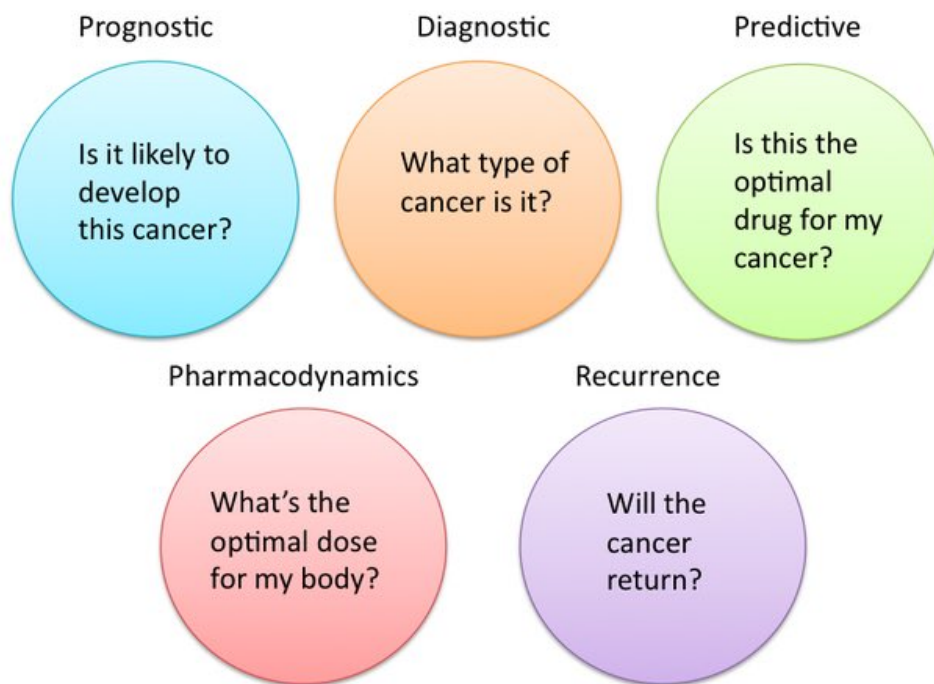
♡ 5 12:16 AM - Jul 12, 2019



[See Henning Willers, MD's other Tweets](#)



Questions that can be answered by cancer biomarkersⁱ



Matthew Steliga MD

@SteligaMD



T1 basic info on

Wikipedia: en.m.wikipedia.org/wiki/Cancer_bi...

[#cancersm](#)

♡ 6 12:16 AM - Jul 12, 2019 · Little Rock, AR

[See Matthew Steliga MD's other Tweets](#)





Sarika Jain

@drjainsp



T1: A Biomarker also tells you if you will respond to a treatment and also treatment response [#cancersm](#)

♡ 5 12:16 AM - Jul 12, 2019



[See Sarika Jain's other Tweets](#)



Liza Bernstein

@itsthebunk



I misread the announcement and am going to have to join the [#cancersm](#) chat late!

♡ 4 12:17 AM - Jul 12, 2019



[See Liza Bernstein's other Tweets](#)



Amanda Narod

@AmandaBinDC



T1 lay friendly overview [cancer.net/navigating-can...](https://cancer.net/navigating-cancer)
[#cancersm](#) @CancerDotNet

♡ 9 12:17 AM - Jul 12, 2019



Tumor Marker Tests

Tumor markers are substances found at higher than normal levels in the blood, urine, or body tissue of some people with cancer.
cancer.net

[See Amanda Narod's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T1: There are lots of “biomarkers” of cancer, e.g., obesity is a prognostic biomarker for certain cancers. This chat focuses specifically on molecular biomarkers of cancer. Molecular biomarkers of cancer are identified by pathologists using laboratory testing.[#cancersm](#)



Liz Salmi

@TheLizArmy

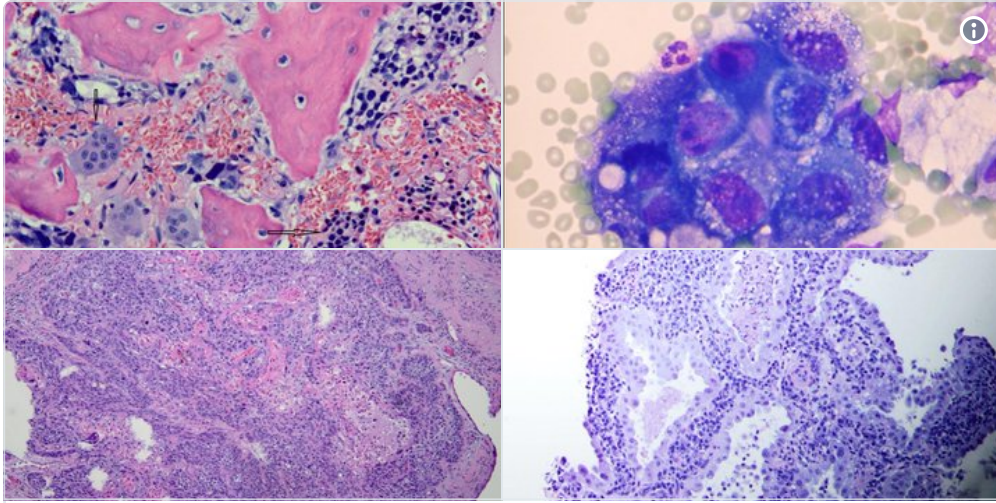
So I am guessing, for us brain tumor people, our biomarkers are found in the TISSUE of the tumor after it is removed or biopsied... ?[#cancersm](#) [#btism](#)

♡ 4 12:17 AM - Jul 12, 2019



[See Liz Salmi's other Tweets](#)





Israh (K.) Akhtar
@israhkhan



[#CANCERSM](#)- These are the various faces of this deadly disease a) breast cancer in bone b) hepatocellular carcinoma in ascitic fluid c) lung carcinoma invading blood vessel and Lung adenocarcinoma. What can we do to prevent it or are there any potential tests which can aid in Rx

♡ 8 12:18 AM - Jul 12, 2019

[See Israh \(K.\) Akhtar's other Tweets](#)



National Cancer Institute
@theNCI



T1 Cancer researchers are working to develop new biomarkers that can be used to identify cancer in its early stages, to predict the effectiveness of treatment, and to predict the chance of cancer recurrence.

[#CancerSM](#)

♡ 23 12:18 AM - Jul 12, 2019



[16 people are talking about this](#)



DIFFERENT CATEGORIES OF BIOMARKERS



@MyelomaTeacher - Cindy Chmielewski

@MyelomaTeacher



#cancersm This is a great slide. #MMSM #Biomarkers

♡ 9 12:18 AM - Jul 12, 2019

[See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#) >



Liza Bernstein @itsthebunk · Jul 12, 2019



I misread the announcement and am going to have to join the #cancersm chat late!



Liza Bernstein

@itsthebunk

About to drive. Will try to join in about 30 mins

#cancersm

♡ 5 12:18 AM - Jul 12, 2019



[See Liza Bernstein's other Tweets](#) >



Timothy Craig Allen

@TimAllenMDJD



T2: What is biomarker testing and what is it used for?

#cancersm

♡ 1 12:18 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#) >



Dee Sparacio
@womenofteal



Hi [#CANCERSM](#) friends, Sorry to be joining late. And trying to catch up.

Dee here [#gynccsm](#) co-founder.

♡ 4 12:18 AM - Jul 12, 2019



[See Dee Sparacio's other Tweets](#)

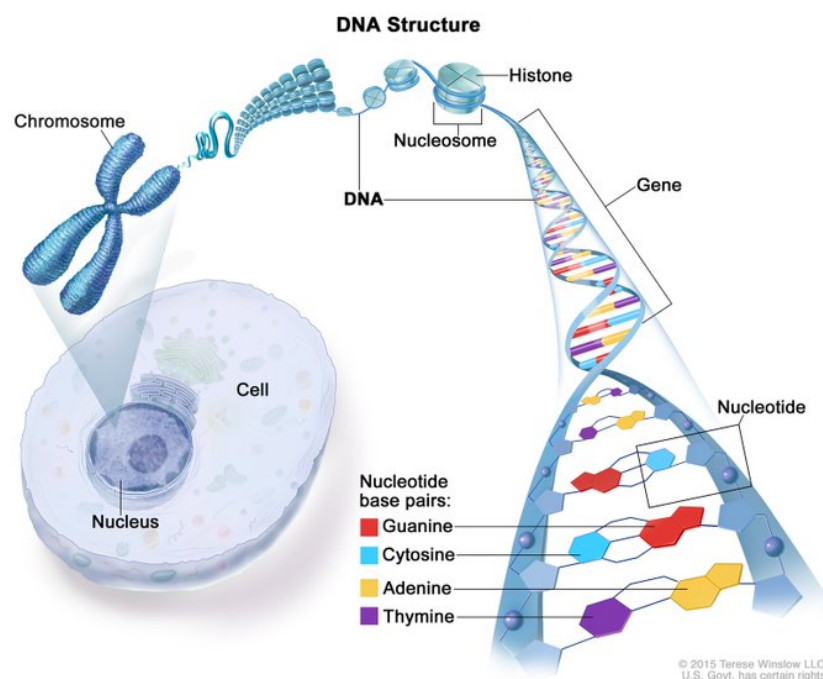


National Cancer Institute @theNCI · Jul 12, 2019



T1 A biomarker may be used to see how well the body responds to a treatment for a disease or condition. Also called molecular marker and signature molecule.

[#cancersm](#)



Liz Salmi
@TheLizArmy

Where's [@xelamb](#) and [@GCAResearch](#) at??? This biomarker stuff has to be your jam. [#btsm](#) [#cancersm](#)

♡ 3 12:18 AM - Jul 12, 2019



[See Liz Salmi's other Tweets](#)





Dee Sparacio @womenofteal · Jul 12, 2019



Hi [#CANCERSM](#) friends, Sorry to be joining late. And trying to catch up.

Dee here [#gynccsm](#) co-founder.



Alicia C. Staley

@stales

hey there! [#cancersm](#)

♡ 2 12:18 AM - Jul 12, 2019



[See Alicia C. Staley's other Tweets](#)



Liz Salmi @TheLizArmy · Jul 12, 2019



Replying to @theNCI

Where's [@xelamb](#) and [@GCAResearch](#) at??? This biomarker stuff has to be your jam. [#btcm](#) [#cancersm](#)



Alicia C. Staley

@stales

hey there [#cancersm](#)

♡ 2 12:19 AM - Jul 12, 2019



[See Alicia C. Staley's other Tweets](#)



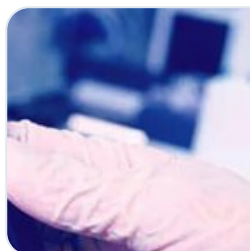
National Cancer Institute ✓



@theNCI

T2 There are two main types of tumor markers that have different uses in cancer care: circulating tumor markers and tumor tissue markers. cancer.gov/about-cancer/d... [#cancersm](#)

♡ 24 12:20 AM - Jul 12, 2019



Tumor Markers

A fact sheet that defines tumor markers and describes how they can be used to aid diagnosis and treatment.

cancer.gov

[See National Cancer Institute's other Tweets](#)





Sarika Jain

@drjainsp



T2 Molecular biomarker tests are generally of three types of biomarkers: diagnostic, therapeutic, prognostic [#cancersm](#)

♡ 6 12:20 AM - Jul 12, 2019



[See Sarika Jain's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



Welcome! [#cancersm](#) [twitter.com/womenofteal/st...](https://twitter.com/womenofteal/status/1150000000000000000)

Dee Sparacio @womenofteal

Hi #CANCERSM friends, Sorry to be joining late. And trying to catch up.

Dee here #gynccsm co-founder.

♡ 2 12:20 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



National Cancer Institute

@theNCI



T2 Circulating tumor markers, which can be found in the blood, urine, stool, or other bodily fluids of some patients with cancer, are used, for example, to estimate prognosis and to assess the response to treatment.

[#CancerSM](#)

♡ 15 12:20 AM - Jul 12, 2019



[See National Cancer Institute's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



T2: Molecular biomarker testing involves laboratory tests that evaluate and identify the presence, on the surface of a cancer cell for e.g. a protein, or the identification of mutations or other changes in the cancer cell genes. [#cancersm](#)

♡ 5 12:21 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)





Henning Willers, MD @HenningWillers · Jul 12, 2019



T1 A biomarker can be predictive of treatment response or prognostic for disease course independent of treatment (ok that was not really the question) [#cancersm](#)
twitter.com/TimAllenMDJD/s...

Timothy Craig Allen @TimAllenMDJD

It's a discussion! [#cancersm](#)
twitter.com/pfanderson/sta...



Liz Salmi
@TheLizArmy

T1: In the brain tumor community, biomarkers are how we patients introduce ourselves to each other.

No longer do we talk about the types or grades (i.e. stage) of our tumors, we talk about our biomarkers. For reals. 🤓 [#BTSM](#) [#cancersm](#)

♡ 19 12:21 AM - Jul 12, 2019



[See Liz Salmi's other Tweets](#)



National Cancer Institute ✓
@theNCI



T2 Tumor tissue markers, which are found in actual tumors, are used to diagnose, stage, and/or classify cancer, to estimate prognosis, and to select an appropriate treatment (e.g., treatment with a targeted therapy). [#cancersm](#)

♡ 14 12:21 AM - Jul 12, 2019



[See National Cancer Institute's other Tweets](#)



Jamie Holloway, PhD
@jamienholloway



T2: In cancer, biomarker testing is analysis of DNA, RNA, or proteins that provide info about the diagnosis, prognosis, or are predictive for response to treatment [#CANCERSM](#)

♡ 16 12:21 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)





Liz Salmi @TheLizArmy · Jul 12, 2019



Replying to @HenningWillers

T1: In the brain tumor community, biomarkers are how we patients introduce ourselves to each other.

No longer do we talk about the types or grades (i.e. stage) of our tumors, we talk about our biomarkers. For reals. 🤓

#BTSM #cancersm



Jamie Holloway, PhD

@jamienholloway

We do that in the breast cancer world, too! #cancersm

♡ 6 12:22 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



This #cancersm [twitter.com/TheLizArmy/sta...](https://twitter.com/TheLizArmy/status/1149888888888888888)

Liz Salmi @TheLizArmy
Replying to @HenningWillers

T1: In the brain tumor community, biomarkers are how we patients introduce ourselves to each other.

No longer do we talk about the types or grades (i.e. stage) of our tumors, we talk about our biomarkers. For reals. 🤓

#BTSM #cancersm

♡ 2 12:22 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



National Cancer Institute ✓

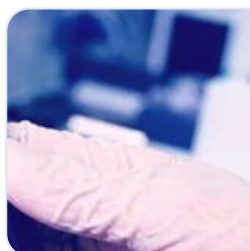
@theNCI



T2 If you are interested in learning more about tumor markers, please see our expert-reviewed fact sheet on these biomarkers: cancer.gov/about-cancer/d...

#cancersm

♡ 31 12:22 AM - Jul 12, 2019



Tumor Markers

A fact sheet that defines tumor markers and describes how they can be used to aid diagnosis and treatment.

cancer.gov

💬 17 people are talking about this





Alicia C. Staley @stales · Jul 12, 2019



Replying to @drjainsp

RT @drjainsp: T2 Molecular biomarker tests are generally of three types of biomarkers: diagnostic, therapeutic, prognostic #cancersm



Henning Willers, MD
@HenningWillers

T2 there can also be normal tissue biomarkers (eg for toxicity predictions) #cancersm

♡ 11 12:22 AM - Jul 12, 2019



See Henning Willers, MD's other Tweets



Sarika Jain
@drjainsp



T2 An example of a diagnostic biomarker is prostate-specific antigen (PSA) used for screening of prostate cancer. An example of a therapeutic biomarker is EGFR gene testing in patients with lung cancer. #cancersm

♡ 6 12:23 AM - Jul 12, 2019



See Sarika Jain's other Tweets



National Cancer Institute @theNCI · Jul 12, 2019



T1 Cancer researchers are working to develop new biomarkers that can be used to identify cancer in its early stages, to predict the effectiveness of treatment, and to predict the chance of cancer recurrence. #CancerSM



P. F. Anderson
@pfanderson

It has been an amazing ride the past couple decades, watching noninvasive biomarker testing emerge & become refined. First predicted in the early 1900s, and they made fun of the guy then. Now we have salivary & urinary & breath analysis #CancerSM

♡ 12:23 AM - Jul 12, 2019



See P. F. Anderson's other Tweets





Liz Salmi @TheLizArmy · Jul 12, 2019



Replying to @HenningWillers

T1: In the brain tumor community, biomarkers are how we patients introduce ourselves to each other.

No longer do we talk about the types or grades (i.e. stage) of our tumors, we talk about our biomarkers. For reals. 🤓

#BTSM #cancersm



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD

T1: And it changed in 2016 as the WHO reclassified gliomas #btsm #cancersm braintumor.org/wp-content/ass...

♡ 6 12:23 AM - Jul 12, 2019 · Charlotte, NC



[👤 See Ashley Love Sumrall, MD, FACP's other Tweets](#)



Uppity Cancer Pt

@UppityCancerP



Hey, all. Meet @stales. She is the health social media goddess from #bcsn and will keep all of us on track. You may borrow her for now. 😊 #cancersm twitter.com/stales/status/...

Alicia C. Staley @stales

Replying to @drjainsp

RT @drjainsp: T2 Molecular biomarker tests are generally of three types of biomarkers: diagnostic, therapeutic, prognostic #cancersm

♡ 15 12:23 AM - Jul 12, 2019



[👤 See Uppity Cancer Pt's other Tweets](#)





Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T2: What is biomarker testing and what is it used for?
[#cancersm](#)



Liz Salmi
@TheLizArmy

T2: For the brain community, our tumors are tested for biomarkers as a way of determining whether our tumor is more or less aggressive and likely to respond more favorably to various treatments.

Treatment decisions are based on biomarkers. [#btsm](#)
[#cancersm](#)

♡ 15 12:23 AM - Jul 12, 2019



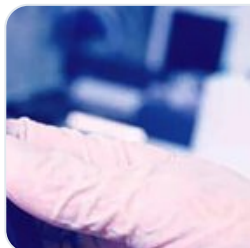
[See Liz Salmi's other Tweets](#)



National Cancer Institute @theNCI · Jul 12, 2019



T2 There are two main types of tumor markers that have different uses in cancer care: circulating tumor markers and tumor tissue markers. cancer.gov/about-cancer/d...
[#cancersm](#)



Tumor Markers

A fact sheet that defines tumor markers and describes how they can be used to aid diagnosis and
cancer.gov



Janet Freeman-Daily
@JFreemanDaily

There are also tumor markers in certain bodily fluids other than blood -- for [#lungcancer](#) patients, pleural fluid often also contains tumor cells that can undergo biomarker testing. [#LCSM](#) [#cancersm](#)

♡ 17 12:24 AM - Jul 12, 2019



[See Janet Freeman-Daily's other Tweets](#)





National Cancer Institute  @theNCI · Jul 12, 2019



T2 If you are interested in learning more about tumor markers, please see our expert-reviewed fact sheet on these biomarkers: cancer.gov/about-cancer/d...
#cancersm



Tumor Markers

A fact sheet that defines tumor markers and describes how they can be used to aid diagnosis and
cancer.gov



@MyelomaTeacher - Cindy Chmielewski

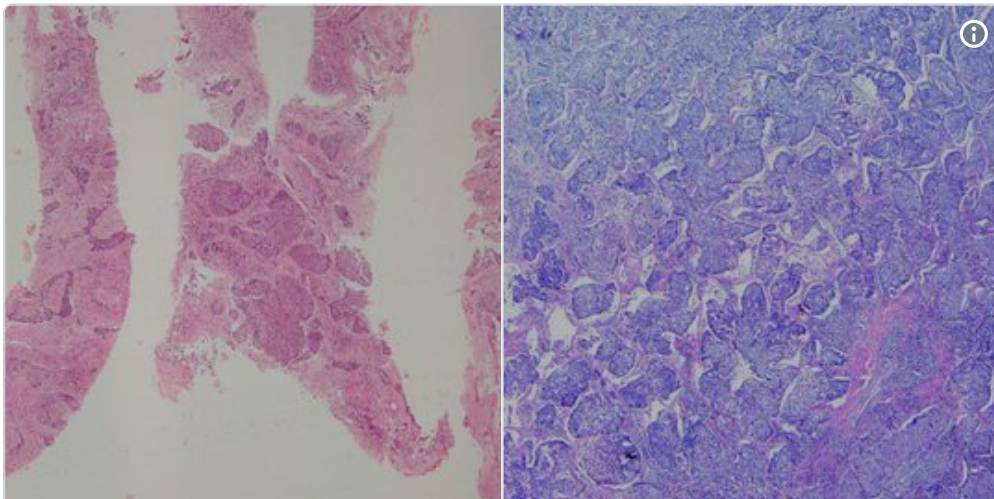
@MyelomaTeacher

Would the measurement of my m-protein in my blood be considered a biomarker for myeloma ? #MMSM
#CancerSM

♡ 4 12:24 AM - Jul 12, 2019



 [See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#) >



Israh (K.) Akhtar

@israhkhan



#CANCERSM While the traditional breast carcinoma prognostic markers ER, PR, Her 2 neu predicts whether a patient will need hormonal therapy or chemotherapy or Herceptin, more recently in April 2019, immunotherapy has been approved by FDA in triple negative breast ca patients

♡ 6 12:24 AM - Jul 12, 2019

 [See Israh \(K.\) Akhtar's other Tweets](#)





Sarika Jain @drjainsp · Jul 12, 2019



T2 An example of a diagnostic biomarker is prostate-specific antigen (PSA) used for screening of prostate cancer. An example of a therapeutic biomarker is EGFR gene testing in patients with lung cancer. #cancersm



Henning Willers, MD
@HenningWillers

T2 interestingly PSA can also be predictive of treatment outcome and also prognostic #cancersm

♡ 6 12:24 AM - Jul 12, 2019



[See Henning Willers, MD's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



Already needs to be updated. Our understanding of cancer biomarkers is evolving fast! #cancersm
twitter.com/AshleySumrallMD

Ashley Love Sumrall, MD, FACP @AshleySumrallMD
Replying to @TheLizArmy @HenningWillers

T1: And it changed in 2016 as the WHO reclassified gliomas
#btsm #cancersm braintumor.org/wp-content/ass...

♡ 4 12:25 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



P. F. Anderson
@pfanderson



Salivary Biomarkers: Toward Future Clinical and Diagnostic Utilities ncbi.nlm.nih.gov/pmc/articles/P...
Salivary biomarkers and proteomics: future diagnostic and clinical utilities ncbi.nlm.nih.gov/pmc/articles/P...
#CancerSM

♡ 6 12:25 AM - Jul 12, 2019



Salivary biomarkers and proteomics:...

Saliva testing is a non-invasive and inexpensive test that can serve as a source of information useful for diagnosis of
ncbi.nlm.nih.gov

[See P. F. Anderson's other Tweets](#)





Janet Freeman-Daily 
@JFreemanDaily



Many non-small cell [#lungcancer](#) people also identify with biomarkers--EGFR, ALK, ROS1, BRAF, NTRK, KRAS, RET [#LCSM](#) [#cancersm](#) [twitter.com/TheLizArmy/sta...](https://twitter.com/TheLizArmy/status/1150000000000000000)

Liz Salmi @TheLizArmy
Replying to @HenningWillers

T1: In the brain tumor community, biomarkers are how we patients introduce ourselves to each other.

No longer do we talk about the types or grades (i.e. stage) of our tumors, we talk about our biomarkers. For reals. 
[#BTSM](#) [#cancersm](#)

♡ 30 12:26 AM - Jul 12, 2019



 [See Janet Freeman-Daily's other Tweets](#)



Liz Salmi @TheLizArmy · Jul 12, 2019



Replying to @TimAllenMDJD

T2: For the brain community, our tumors are tested for biomarkers as a way of determining whether our tumor is more or less aggressive and likely to respond more favorably to various treatments.

Treatment decisions are based on biomarkers. [#btsm](#)
[#cancersm](#)



Liz Salmi
@TheLizArmy

In 2016 [@WHO](#) released a NEW classification of CNS tumors (central nervous system) related to "new" knowledge about biomarkers.

This new classification system kind of rocked the brain tumor world and it was really exciting for the [#neuropath](#) community. [#btsm](#) [#cancersm](#)

♡ 6 12:26 AM - Jul 12, 2019



 [See Liz Salmi's other Tweets](#)



Deb Smith     
@debsmithbeach



Deb from NH here, sorry to be late. [#cancersm](#)

♡ 3 12:26 AM - Jul 12, 2019



 [See Deb Smith !\[\]\(30d9d61c1df1cf34313b15b205eae48b_img.jpg\) !\[\]\(c5f6193ca63ae85ca375596ca7ba8ead_img.jpg\) !\[\]\(a377fa1e58536d76a73de58bbf063194_img.jpg\) !\[\]\(5549cdc4244d268004c3ddc3167c9164_img.jpg\) !\[\]\(c498af94f70481cdbdd6fadaff87948d_img.jpg\)](#)'s other Tweets





Liz Salmi @TheLizArmy · Jul 12, 2019



Replying to @TimAllenMDJD

T2: For the brain community, our tumors are tested for biomarkers as a way of determining whether our tumor is more or less aggressive and likely to respond more favorably to various treatments.

Treatment decisions are based on biomarkers. [#btsm](#)
[#cancersm](#)



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD

Except there are places that STILL don't routinely check [#MGMT](#) & [#IDH](#) in glioma [#btsm](#) [#cancersm](#)

♡ 6 12:27 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)



Sarika Jain @drjainsp · Jul 12, 2019



T2 An example of a diagnostic biomarker is prostate-specific antigen (PSA) used for screening of prostate cancer. An example of a therapeutic biomarker is EGFR gene testing in patients with lung cancer. [#cancersm](#)



Dee Sparacio

@womenofteal

And CA-125 is used as a biomarker to measure response to treatment for many women with [#ovca](#) [#gynccsm](#)
[#CANCERSM](#)

♡ 7 12:27 AM - Jul 12, 2019



[See Dee Sparacio's other Tweets](#)





Janet Freeman-Daily  @JFreemanDaily · Jul 12, 2019



Replying to @theNCI

There are also tumor markers in certain bodily fluids other than blood -- for [#lungcancer](#) patients, pleural fluid often also contains tumor cells that can undergo biomarker testing. [#LCSM](#) [#cancersm](#)



P. F. Anderson

@pfanderson

Even breath! >> VOC breath biomarkers in lung cancer (2016) [sciencedirect.com/science/articl...](https://www.sciencedirect.com/science/article/pii/S1546509616300011) Blinded Validation of Breath Biomarkers of Lung Cancer, a Potential Ancillary to Chest CT Screening (2015) [ncbi.nlm.nih.gov/pmc/articles/P...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4611111/) [#CancerSM](#)

♡ 5 12:27 AM - Jul 12, 2019



Blinded Validation of Breath Biomar...

Breath volatile organic compounds (VOCs) have been reported as biomarkers of lung cancer, but it is not known if biomarkers [ncbi.nlm.nih.gov](https://www.ncbi.nlm.nih.gov)

 [See P. F. Anderson's other Tweets](#)



Ashley Love Sumrall, MD, FACP @Ashl... · Jul 12, 2019 

Replying to @TheLizArmy @HenningWillers

T1: And it changed in 2016 as the WHO reclassified gliomas [#btsm](#) [#cancersm](#) [braintumor.org/wp-content/ass...](https://www.braintumor.org/wp-content/ass...)



Liz Salmi

@TheLizArmy

Yes! I just tweeted that! LOL

Use [#cancersm](#) for tonight's chat. ;)

♡ 4 12:27 AM - Jul 12, 2019



 [See Liz Salmi's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



Welcome! [#cancersm](#) [twitter.com/debsmithbeach/...](https://twitter.com/debsmithbeach/)

Deb Smith      @debsmithbeach

Deb from NH here, sorry to be late. [#cancersm](#)

♡ 1 12:27 AM - Jul 12, 2019



 [See Timothy Craig Allen's other Tweets](#)





Timothy Craig Allen

@TimAllenMDJD



T2: Diagnostic biomarkers help in the diagnosis of the cancer itself; therapeutic biomarkers help in determining whether or not a patient might respond to a molecular therapy; and prognostic biomarkers help determine the patient's chances for long-term survival. [#cancersm](#)

♡ 19 12:28 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Christina Lizaso

@btrfly12

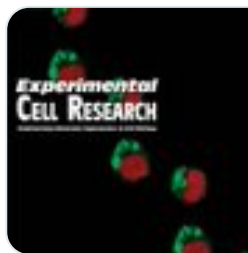


T2: Here's an overview of what is being studied for [#ovariancancer](#)

Diagnostic and Prognostic Biomarkers in ovarian cancer and the potential roles of cancer stem cells – An updated review [sciencedirect.com/science/articl...](https://www.sciencedirect.com/science/article/pii/S0959268819300000)

[#cancersm](#)

♡ 6 12:28 AM - Jul 12, 2019



Diagnostic and Prognostic Biomarkers...

Ovarian carcinomas relate to highest death rate in gynecologic malignancies as absence of symptoms shield the disease in [sciencedirect.com](https://www.sciencedirect.com/science/article/pii/S0959268819300000)

[See Christina Lizaso's other Tweets](#)



Liz Salmi @TheLizArmy · Jul 12, 2019



Replying to @HenningWillers

T1: In the brain tumor community, biomarkers are how we patients introduce ourselves to each other.

No longer do we talk about the types or grades (i.e. stage) of our tumors, we talk about our biomarkers. For reals. 🤓

[#BTSM](#) [#cancersm](#)



P. F. Anderson

@pfanderson

That's amazing. Many folk I know with childhood trauma introduce themselves with their ACE score, but psych professionals I know have trouble believing this happens. I bet the docs are surprised. [#CancerSM](#)

♡ 5 12:28 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)





Timothy Craig Allen

@TimAllenMDJD



T3: What treatment options can be identified through biomarker testing? [#cancersm](#)

♡ 6 12:29 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Liz Salmi

@TheLizArmy



Great point!

People facing a brain tumor--if diagnosed at a community hospital--might not be told about biomarker testing... which is absolutely CRUCIAL to our treatment. [#BTSM](#) [#cancersm](#) [twitter.com/AshleySumrallM...](#)

Ashley Love Sumrall, MD, FACP @AshleySumrallMD

Replying to @TheLizArmy @TimAllenMDJD

Except there are places that STILL don't routinely check [#MGMT](#) & [#IDH](#) in glioma [#btsm](#) [#cancersm](#)

♡ 8 12:29 AM - Jul 12, 2019



[See Liz Salmi's other Tweets](#)



National Cancer Institute

@theNCI



T3 A number of tumor markers are currently being used for a wide range of cancer types. Here's a list of tumor markers in common use: [cancer.gov/about-cancer/d...](#) [#cancersm](#)

♡ 24 12:29 AM - Jul 12, 2019



Tumor Markers in Common Use

A list of tumor markers that are in common use, mainly to direct treatment or for testing in blood to help make a diagnosis of [cancer.gov](#)

15 people are talking about this





Brave Bosom

@BraveBosom



Hi! Taking a break from vacation to say hello TY for organizing this combined chat. I am here from [#BRCA](#) community 🙌 [#cancersm](#).

♡ 9 12:30 AM - Jul 12, 2019



[See Brave Bosom's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T3: What treatment options can be identified through biomarker testing? [#cancersm](#)



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD

T3 In [#glioma](#), we use biomarkers as part of trial eligibility. For ex: [#MGMT](#) status (although it is controversial) [#btsm](#) [#cancersm](#)

♡ 9 12:30 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)



National Cancer Institute ✓

@theNCI



T3 In breast cancer, testing tumors for estrogen and progesterone receptors and the HER2 protein can help doctors help determine whether treatment with hormone therapy or some targeted therapies is appropriate. [#CancerSM](#)

♡ 18 12:30 AM - Jul 12, 2019



[See National Cancer Institute's other Tweets](#)



National Cancer Institute ✓

@theNCI



T3 In non-small cell lung cancer, an analysis of mutations in the EGFR gene can help doctors determine a patient's treatment and estimate prognosis. [#cancersm](#) [#lscsm](#)

♡ 8 12:31 AM - Jul 12, 2019



[See National Cancer Institute's other Tweets](#)





Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T3: What treatment options can be identified through biomarker testing?#cancersm



P. F. Anderson

@pfanderson

I'm curious about the balance between biomarkers and genome for informing treatment decisions and planning #CancerSM

♡ 7 12:31 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T2: Diagnostic biomarkers help in the diagnosis of the cancer itself; therapeutic biomarkers help in determining whether or not a patient might respond to a molecular therapy; and prognostic biomarkers help determine the patient's chances for long-term survival.#cancersm



@MyelomaTeacher - Cindy Chmielewski

@MyelomaTeacher

Can prognostic biomarkers be a group of biomarkers that stratify for risk instead of just 1 biomarker? #MMSM #CancerSM

♡ 2 12:31 AM - Jul 12, 2019



[See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T3: What treatment options can be identified through biomarker testing?#cancersm



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD

T3: identifying #NTRK fusion in #glioma (est 1% of gliomas) opens up avenues for 2 therapies #btsm #cancersm

♡ 5 12:32 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)





Bob Steele

@steele_bob



Glad to report Wife has final infusion sched 7/22. But dx'd Mon with new side effect: cornea thinning. Hadn't heard of that one. [#cancersm](#)

♡ 5 12:32 AM - Jul 12, 2019



[See Bob Steele's other Tweets](#)



Henning Willers, MD

@HenningWillers



T3 in lung cancer oncogenic alterations in EGFR ALK ROS1 RET et cetera determine treatment choicces [#lcs](#) [#cancersm](#)

♡ 5 12:32 AM - Jul 12, 2019



[See Henning Willers, MD's other Tweets](#)



P. F. Anderson @pfanderson · Jul 12, 2019



Replying to @TimAllenMDJD

I'm curious about the balance between biomarkers and genome for informing treatment decisions and planning [#CancerSM](#)



Dee Sparacio

@womenofteal

great question. [#cancersm](#)

♡ 3 12:32 AM - Jul 12, 2019



[See Dee Sparacio's other Tweets](#)



c0nc0rdance
@c0nc0rdance

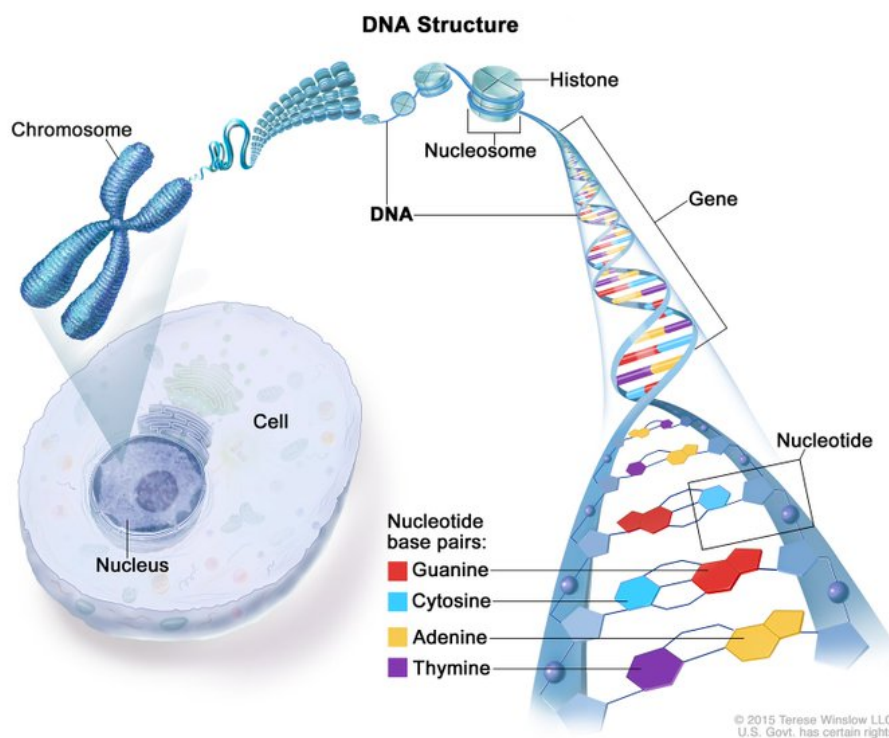


#CancerSM is a Twitter chat discussing the basics of biomarker testing for cancer. If it's a topic you're interested in, the participants are doing a great job of making cancer diagnostics accessible to anyone.

Love that scientists/clinicians do this kind of outreach.
twitter.com/theNCI/status/...

National Cancer Institute  @theNCI

T1 A biomarker may be used to see how well the body responds to a treatment for a disease or condition. Also called molecular marker and signature molecule.
#cancersm



♡ 10 12:32 AM - Jul 12, 2019



 [See c0nc0rdance's other Tweets](#)



Dennis Keim
@denniskeim



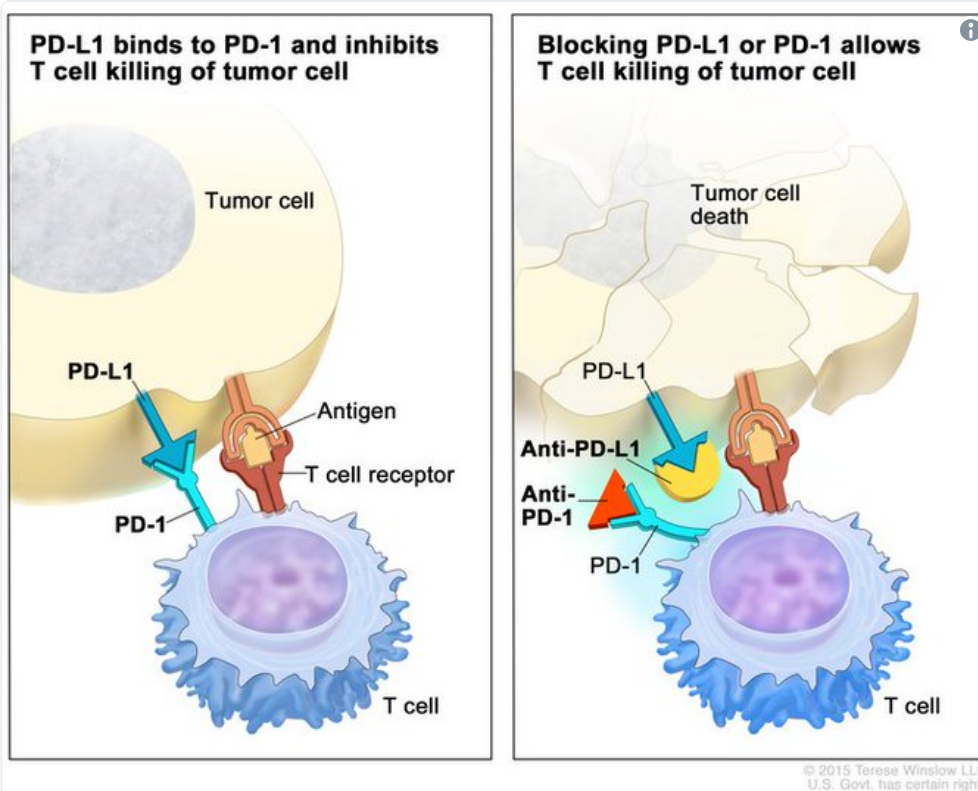
Greetings. Checking in bit late too but catching up.
Another #bcsn peep. Interesting chat tonight.
#cancersm

♡ 5 12:32 AM - Jul 12, 2019



 [See Dennis Keim's other Tweets](#)





National Cancer Institute ✓

@theNCI



T3 In many types of cancer, seeing whether the tumor makes the PD-L1 protein can determine whether treatment with a type of [#immunotherapy](#) drug called an immune checkpoint inhibitor is appropriate.

[#cancersm](#)

♡ 56 12:32 AM - Jul 12, 2019

💬 73 people are talking about this





Laronica Conway
@louisianagirl91



Great collaboration!!! 👍 #LCSM #CANCERSM
twitter.com/lungcancerface...

Faces of Lung Cancer @LungCancerFaces

Remember #LCSM friends, for tonight's chat we will use the
#CANCERSM hashtag!



♡ 10 12:32 AM - Jul 12, 2019



[See Laronica Conway's other Tweets](#)



Israh (K.) Akhtar
@israhkhan



#cancersm Other well known diagnostic biomarkers are
AFP for hepatocellular carcinoma, CA19-9 for pancreatic
Ca, CEA for colo-rectal Ca, HCG for choriocarcinoma

♡ 6 12:33 AM - Jul 12, 2019



[See Israh \(K.\) Akhtar's other Tweets](#)



Henning Willers, MD
@HenningWillers



T3 often overlooked, in #radonc tumor size/volume
determines radiation dose and whether chemotherapy
should be added #cancersm

♡ 5 12:33 AM - Jul 12, 2019



[See Henning Willers, MD's other Tweets](#)





Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T3: What treatment options can be identified through biomarker testing?#cancersm



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD

T3: and... finding #H3K27m mutations opens the door to try drugs like #ONC201 (as seen at #ASCO19) #cancersm

♡ 2 12:33 AM - Jul 12, 2019 · Charlotte, NC



 See Ashley Love Sumrall, MD, FACP's other Tweets



spartychemist @spartychemist · Jul 12, 2019



Biomarkers are indicators that are used to predict or diagnose condition.. in blood cancer patients .presence of certain dna or rna in blood twitter.com/myelomateacher...

@MyelomaTeacher - Cindy Chmielewski @Myelom...

T1- Someone tell me what a biomarker is! #MMSM #cancersm



@MyelomaTeacher - Cindy Chmielewski

@MyelomaTeacher

Thanks. So my m-spike is a biomarker of my cancer. #MMSM #cancerSM

♡ 4 12:33 AM - Jul 12, 2019



 See @MyelomaTeacher - Cindy Chmielewski's other Tweets >



Ashley Love Sumrall, MD, FACP @Ashl... · Jul 12, 2019 

Replying to @TimAllenMDJD

T3 In [#glioma](#), we use biomarkers as part of trial eligibility. For ex: [#MGMT](#) status (although it is controversial) [#btsm](#) [#cancersm](#)



Liz Salmi
@TheLizArmy

I was diagnosed with a brain tumor in 2008 when checking for biomarkers was not part of standard of care.

In 2016, I asked my neuro-onc to run my tissue for the biomarkers panel. He asked, "Why would you want to know what your biomarkers are?" [#btsm](#) [#cancersm](#)

♡ 8 12:33 AM - Jul 12, 2019



 [See Liz Salmi's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



My best to your wife. [#cancersm](#)
[twitter.com/steele_bob/sta...](https://twitter.com/steele_bob/status/1150000000000000000)

Bob Steele @steele_bob

Glad to report Wife has final infusion sched 7/22. But dx'd Mon with new side effect: cornea thinning. Hadn't heard of that one. [#cancersm](#)

♡ 3 12:33 AM - Jul 12, 2019



 [See Timothy Craig Allen's other Tweets](#)





Jamie Holloway, PhD
@jamienholloway



T3: SO MANY OPTIONS can be identified through biomarkers. Hormone therapy, immunotherapy, targeted kinase inhibitors, antibodies like herceptin... They can also point to clinical trials [#cancersm](#)

♡ 8 12:33 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)



Dee Sparacio @womenofteal · Jul 12, 2019



Replying to @pfanderson @TimAllenMDJD
great question. [#cancersm](#)



P. F. Anderson
@pfanderson

We hear a lot these days about analyzing tumor genomes for resistant cases, and we hear about the rare miracles, but ... there are a lot of non-miracles, and it's still really new. [#CancerSM](#)

♡ 6 12:33 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)



National Cancer Institute @theNCI · Jul 12, 2019



T3 In non-small cell lung cancer, an analysis of mutations in the EGFR gene can help doctors determine a patient's treatment and estimate prognosis. [#cancersm](#) [#lscsm](#)



Janet Freeman-Daily
@JFreemanDaily

Analysis of mutations in EGFR+ NSCLC (and other oncogene-driven cancers) can also help determine how to treat resistance to targeted therapies. [#LCSM](#)
[#cancersm](#)

♡ 16 12:33 AM - Jul 12, 2019



[See Janet Freeman-Daily's other Tweets](#)





Dee Sparacio @womenofteal · Jul 12, 2019



Replying to @drjainsp

And CA-125 is used as a biomarker to measure response to treatment for many women with [#ovca](#) [#gynccsm](#) [#CANCERSM](#)



Brave Bosom

@BraveBosom

CA125 has a ton of false positives/ can be inaccurate. I have had quite a few scares. Hope for better biomarkers in the future for [#brca](#). [#cancersm](#)

♡ 6 12:33 AM - Jul 12, 2019



[See Brave Bosom's other Tweets](#)



Laronica Conway

@louisianagirl91



Hey Dr. Tim! Late and lurking! 🙄🙄🙄 [#cancersm](#)
twitter.com/timallenmdjd/s...

Timothy Craig Allen @TimAllenMDJD

Welcome to [#cancersm](#) Chat! This hour all the cancer hashtag communities come together to visit, learn, & share perspectives from our own cancer communities. Our topic is "Basics of Biomarker Testing"

♡ 3 12:33 AM - Jul 12, 2019



[See Laronica Conway's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



T3: Therapeutic molecular biomarker tests identify a therapeutic target for which there is a currently available drug. [#cancersm](#)

♡ 6 12:34 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)





Bob Steele @steele_bob · Jul 12, 2019



Glad to report Wife has final infusion sched 7/22. But dx'd Mon with new side effect: cornea thinning. Hadn't heard of that one. [#cancersm](#)



Christina Lizaso

@btrfly12

We were just hearing about eye-related side effects on last night's [#gynscm](#) chat about maintenance therapies. [#cancersm](#)

♡ 6 12:34 AM - Jul 12, 2019



[See Christina Lizaso's other Tweets](#)



Israh (K.) Akhtar

@israhkhan



[#CANCERSM](#) advanced lung cancer patients may be responsive to immunotherapy (keytruda) if the tumor cells are PDL1 positive

♡ 4 12:35 AM - Jul 12, 2019



[See Israh \(K.\) Akhtar's other Tweets](#)

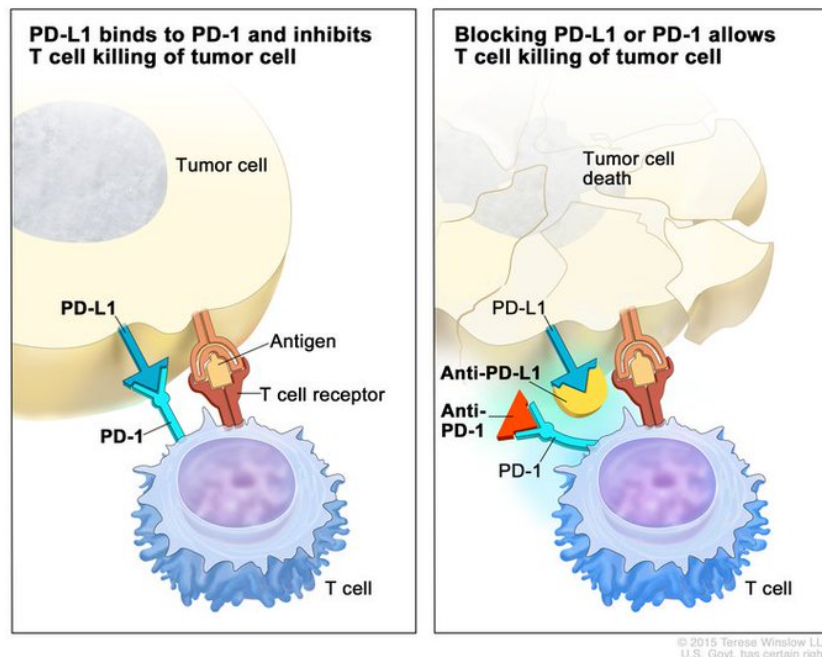




National Cancer Institute @theNCI · Jul 12, 2019



T3 In many types of cancer, seeing whether the tumor makes the PD-L1 protein can determine whether treatment with a type of [#immunotherapy](#) drug called an immune checkpoint inhibitor is appropriate. [#cancersm](#)



@MyelomaTeacher - Cindy Chmielewski

@MyelomaTeacher

In myeloma the expression of BCMA is used as a biomarker for CAR-T cell therapy [#MMSM](#) [#cancerSM](#)

♡ 2 12:35 AM - Jul 12, 2019



[See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#) >



Timothy Craig Allen

@TimAllenMDJD



Howdy, [@louisianagirl91](#)!
Glad you're here at [#cancersm](#)
twitter.com/louisianagirl91...

Laronica Conway @louisianagirl91

👋👋 Hey Dr. Tim! Late and lurking! 🙈🙊 [#cancersm](#)
twitter.com/timallenmdjd/s...

♡ 1 12:35 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#) >



Henning Willers, MD

@HenningWillers



T3 are there any biomarkers that determine choice of surgery, for or against ? [#cancersm](#)

♡ 3 12:36 AM - Jul 12, 2019



[See Henning Willers, MD's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T3: What treatment options can be identified through biomarker testing? [#cancersm](#)



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD

T3: I love this paper outlining tumor types affected by [#NTRK](#) fusion. I think we will see even more as we keep testing & building data. [#btsm](#) [#hnscsm](#) [#thyrcsm](#) [#cancersm](#) [carislife.com/wp-content/upl...](https://carislife.com/wp-content/uploads/2019/07/CarisLife-Science-News-07-12-2019.pdf)

♡ 2 12:36 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T3: What treatment options can be identified through biomarker testing? [#cancersm](#)



Liz Salmi

@TheLizArmy

Would it be fair to say "biomarkers are the new pathology?"

Or is it a teamwork between the two? [#btsm](#) [#cancersm](#)

♡ 5 12:36 AM - Jul 12, 2019



[See Liz Salmi's other Tweets](#)





Brave Bosom @BraveBosom · Jul 12, 2019



Replying to @womenofteal @drjainsp

CA125 has a ton of false positives/ can be inaccurate. I have had quite a few scares. Hope for better biomarkers in the future for [#brca](#). [#cancersm](#)



P. F. Anderson

@pfanderson

Agree! That's one of the messy ones (CA125), and that it is so inconsistent directly connects with lack of testing and unwillingness to pursue costly invasive explorations for [#OvCa](#) and some other [#GynCSM](#) [#CancerSM](#)

♡ 3 12:36 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)



Brave Bosom @BraveBosom · Jul 12, 2019



Replying to @womenofteal @drjainsp

CA125 has a ton of false positives/ can be inaccurate. I have had quite a few scares. Hope for better biomarkers in the future for [#brca](#). [#cancersm](#)



Dee Sparacio

@womenofteal

Yes we need a better biomarker or set of biomarkers to screen for OC. It is not a good marker for me either . [#gynscsm](#) [#cancersm](#)

♡ 4 12:36 AM - Jul 12, 2019



[See Dee Sparacio's other Tweets](#)



Christina Lizaso @btrfly12 · Jul 12, 2019



Replying to @steele_bob

We were just hearing about eye-related side effects on last night's [#gynscsm](#) chat about maintenance therapies. [#cancersm](#)



Liz Salmi

@TheLizArmy

EYE-RELATED SIDE EFFECTS? Wow. [#cancersm](#)

♡ 4 12:36 AM - Jul 12, 2019



[See Liz Salmi's other Tweets](#)





Janet Freeman-Daily ✓
@JFreemanDaily



Though biomarker testing is in @NCCN guidelines for NSCLC, recent estimates say at most 60% of eligible patients are tested for EGFR (despite having FDA-approved treatments). % for other NSCLC genomic drivers is even less. Frustrating! #LCSM #cancersm [twitter.com/AshleySumrallMD...](https://twitter.com/AshleySumrallMD)

Ashley Love Sumrall, MD, FACP @AshleySumrallMD

Replying to @TheLizArmy @TimAllenMDJD

Except there are places that STILL don't routinely check #MGMT & #IDH in glioma #btsm #cancersm

♡ 11 12:36 AM - Jul 12, 2019



[See Janet Freeman-Daily's other Tweets](#)



Uppity Cancer Pt
@UppityCancerP



Molecular testing needs to be standard of care. New oncologist just suggested this. When diagnosed in 2012, not an option #cancersm

♡ 10 12:36 AM - Jul 12, 2019



[See Uppity Cancer Pt's other Tweets](#)



Sabin Motwani
@sabinbmotwanimd



Also important not only to find therapeutic biomarkers but also markers of resistance #cancersm

♡ 15 12:37 AM - Jul 12, 2019



[See Sabin Motwani's other Tweets](#)





Timothy Craig Allen
@TimAllenMDJD



Fair enough! [#cancersm](#) [twitter.com/TheLizArmy/sta...](#)

Liz Salmi @TheLizArmy

Replying to @TimAllenMDJD

Would it be fair to say "biomarkers are the new pathology?"

Or is it a teamwork between the two? [#btsm](#) [#cancersm](#)

♡ 2 12:37 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Henning Willers, MD @HenningWillers · Jul 12, 2019



T3 are there any biomarkers that determine choice of surgery, for or against ? [#cancersm](#)



Matthew Katz, MD
@subatomicdoc

Do chromogranin/synaptophysin count to help in lung cancer? [#cancersm](#)

♡ 5 12:37 AM - Jul 12, 2019



[See Matthew Katz, MD's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



T3: If the molecular biomarker testing shows that the patient's cancer contains the therapeutic target, then that patient might benefit from treatment with the corresponding drug. This is personalized medicine! [#cancersm](#)

♡ 10 12:38 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)





Jamie Holloway, PhD
@jamienholloway



Excellent point! It's just as important to know what drugs
won't work! [#cancersm](#)
twitter.com/sabinbmotwanim...

Sabin Motwani @sabinbmotwanimd

Also important not only to find therapeutic biomarkers but
also markers of resistance [#cancersm](#)

♡ 16 12:38 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)



Sarika Jain
@drjainsp



T3: On the other hand, if a patient's biomarker testing
does not show that that patient's cancer contains that
therapeutic target on the cancer cell, then treating that
patient with the corresponding, often expensive drug
would provide no therapeutic benefit. [#cancersm](#)

♡ 8 12:39 AM - Jul 12, 2019



[See Sarika Jain's other Tweets](#)



Janet Freeman-Daily @JFreemanDaily · Jul 12, 2019



Though biomarker testing is in [@NCCN](#) guidelines for
NSCLC, recent estimates say at most 60% of eligible
patients are tested for EGFR (despite having FDA-approved
treatments). % for other NSCLC genomic drivers is even
less. Frustrating! [#LCSM](#) [#cancersm](#)
twitter.com/AshleySumrallM...

Ashley Love Sumrall, MD, FACP @AshleySumrallMD

Replying to @TheLizArmy @TimAllenMDJD

Except there are places that STILL don't routinely check
[#MGMT](#) & [#IDH](#) in glioma [#btsm](#) [#cancersm](#)



Henning Willers, MD
@HenningWillers

T3 moreover [#lungcancer](#) patients with non-metastatic
disease are even less often tested for these mutations
[#cancersm](#) [#lcsm](#)

♡ 5 12:39 AM - Jul 12, 2019



[See Henning Willers, MD's other Tweets](#)





Timothy Craig Allen

@TimAllenMDJD



T4: What biomarker tests should be run for which types of cancers? What is a liquid biopsy and when is useful? [#cancersm](#)

♡ 5 12:39 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Sarika Jain

@drjainsp



T3 These drugs, like all drugs, have side effects, so beyond the needless cost, it is important to not treat patients with these molecular therapies if the biomarker testing shows that the drug would not benefit the patient. [#cancersm](#)

♡ 13 12:39 AM - Jul 12, 2019



[See Sarika Jain's other Tweets](#)



Henning Willers, MD @HenningWillers · Jul 12, 2019



T3 are there any biomarkers that determine choice of surgery, for or against ? [#cancersm](#)



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD

In the future, I hope we have this to help w managing various [#brainmets](#) [#btsm](#) [#cancersm](#) (current ex: melanoma)

♡ 5 12:39 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)



Said Bahwal

@saidbahwal



[#cancersm](#) new hashtag chat to discuss about tumor biomarkers.

♡ 6 12:39 AM - Jul 12, 2019



[See Said Bahwal's other Tweets](#)





Jamie Holloway, PhD
@jamienholloway



I wouldn't go quite that far, but there are increasingly more treatment options that are more dependent on biomarker expression than tumor histology. [#cancersm](#) [twitter.com/TheLizArmy/sta...](#)

Liz Salmi @TheLizArmy

Replying to @TimAllenMDJD

Would it be fair to say "biomarkers are the new pathology?"

Or is it a teamwork between the two?#btsm #cancersm

♡ 4 12:40 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)



Matthew Katz, MD @subatomicdoc · Jul 12, 2019



Replying to @HenningWillers

Do chromogranin/synaptophysin count to help in lung cancer? [#cancersm](#)



Henning Willers, MD
@HenningWillers

T3 good one, small cell cancer by IHC stains would make choice against surgery [#lcs](#) [#cancersm](#)

♡ 4 12:40 AM - Jul 12, 2019



[See Henning Willers, MD's other Tweets](#)



Amanda Haddock 
@AmandaHaddock



Checking in late but trying to catch up. Coming in from [#btsm](#) community.[#CancerSM](#)

♡ 8 12:40 AM - Jul 12, 2019



[See Amanda Haddock !\[\]\(de78621635bd07211ef562c46bc1a27b_img.jpg\)'s other Tweets](#)





Liz Salmi @TheLizArmy · Jul 12, 2019



Replying to @btrfly12 @steele_bob

EYE-RELATED SIDE EFFECTS? Wow. [#cancersm](#)



P. F. Anderson

@pfanderson

I wonder sometimes about general role of inflammation, which targets just about anything in the body. Sometimes treatments exacerbate underlying problems. They've known about eyes a long time > Ocular toxicity of antineoplastic agents.

(1983)ncbi.nlm.nih.gov/pubmed/6828303 [#CancerSM](#)

♡ 2 12:41 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)



Sarika Jain

@drjainsp



T4 There are guidelines for what biomarker testing must be performed on different cancer types.asco.org/practice-guide... [#cancersm](#)

♡ 11 12:41 AM - Jul 12, 2019



 American Society of Clinical Oncology world of difference in care	Assays and Predictive Markers Assays and Predictive Markers asco.org
---	--

[See Sarika Jain's other Tweets](#)



Liz Salmi @TheLizArmy · Jul 12, 2019



Replying to @TimAllenMDJD

Would it be fair to say "biomarkers are the new pathology?"

Or is it a teamwork between the two? [#btsm](#) [#cancersm](#)



Janet Freeman-Daily ✓

@JFreemanDaily

Pathology in [#lungcancer](#) still requires immunohistochemistry to determine type of lung cancer. Biomarkers are not yet useful in small cell lung cancer, except for clinical trial enrollment. [#LCSM](#) [#cancersm](#)

♡ 6 12:41 AM - Jul 12, 2019



[See Janet Freeman-Daily's other Tweets](#)





Israh (K.) Akhtar
@israhkhan



#CANCERSM more recently Fibroblast growth factor receptor 3 (FGFR3) mutations have been seen to occur in low grade bladder carcinoma and like EGFR is a tyrosine kinase receptor gene

♡ 3 12:41 AM - Jul 12, 2019



[See Israh \(K.\) Akhtar's other Tweets](#)



Henning Willers, MD @HenningWillers · Jul 12, 2019



T3 are there any biomarkers that determine choice of surgery, for or against ? #cancersm



Janet Freeman-Daily ✓
@JFreemanDaily

Technically speaking, CT and PET scans are biomarkers. They would help determine whether surgery is possible.
#LCSM #cancersm

♡ 8 12:42 AM - Jul 12, 2019



[See Janet Freeman-Daily's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T3: If the molecular biomarker testing shows that the patient's cancer contains the therapeutic target, then that patient might benefit from treatment with the corresponding drug. This is personalized medicine! #cancersm



P. F. Anderson
@pfanderson

Well said! We need a nice little cartoon or comic to illustrate this concept. A good visual #CancerSM

♡ 3 12:42 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



T4: "Liquid biopsy" refers to molecular biomarker testing performed not on a patient's cancer tissue, but on cancer cells or cancer cell DNA or RNA that is floating in the blood stream. #cancersm

♡ 9 12:42 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)





Sarika Jain
@drjainsp

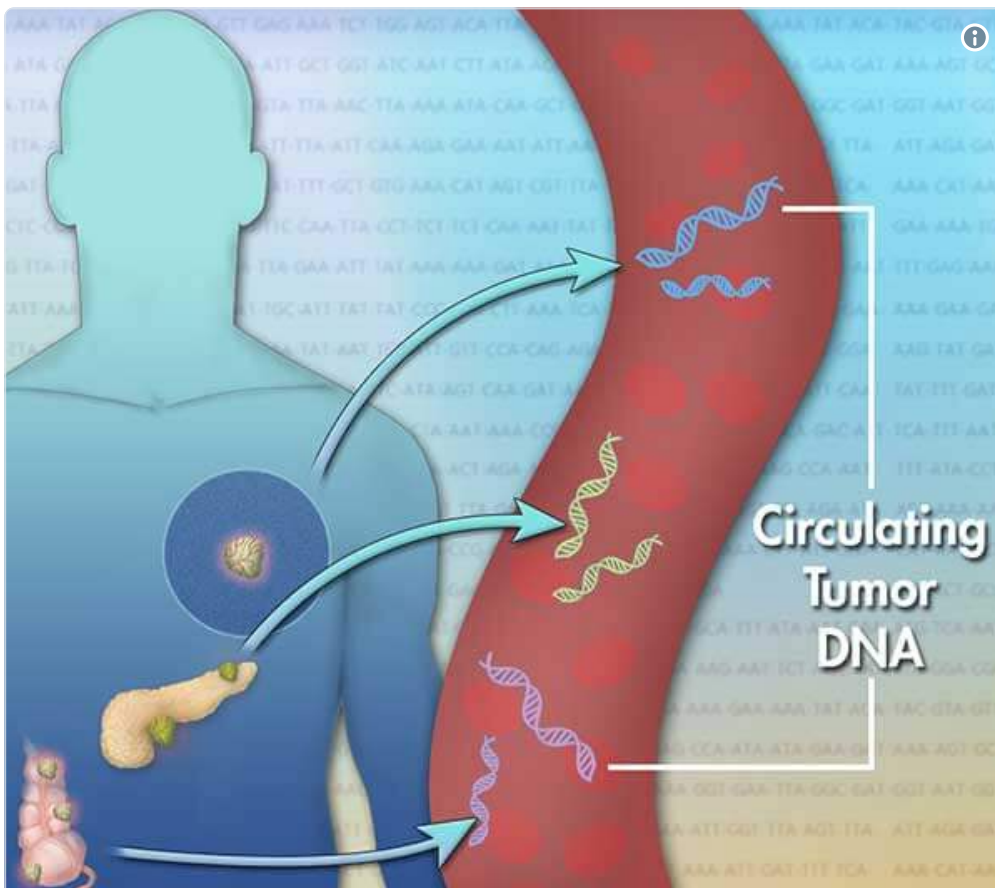


T4 For lung cancers, the minimum testing that must be performed is to look at the EGFR gene for mutations and ALK1 and ROS genes for rearrangements. Many pathologists examine other more recently recognized mutations. [#cancersm](#)

♡ 21 12:42 AM - Jul 12, 2019



[See Sarika Jain's other Tweets](#)



National Cancer Institute ✓
@theNCI



T4 A [#liquidbiopsy](#) is a test done on a sample of blood to look for cancer cells from a tumor that are circulating in the blood or for pieces of DNA from tumor cells that are in the blood. [#cancersm](#)

♡ 48 12:42 AM - Jul 12, 2019

[22 people are talking about this](#)





Jamie Holloway, PhD @jamienholloway · Jul 12, 2019



I wouldn't go quite that far, but there are increasingly more treatment options that are more dependent on biomarker expression than tumor histology. [#cancersm](#)
[twitter.com/TheLizArmy/sta...](https://twitter.com/TheLizArmy/status/1149888888888888888)

Liz Salmi @TheLizArmy

Replying to @TimAllenMDJD

Would it be fair to say "biomarkers are the new pathology?"

Or is it a teamwork between the two?#btsm #cancersm



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD

Depends on tumor type. Look at how "breast ca" is a multitude of diseases defined by ER, PR, H2N, and now PIK3CA. [#bcs](#) [#cancersm](#)

♡ 4 12:43 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)



National Cancer Institute

@theNCI



T4 A [#liquidbiopsy](#) may be used to help find cancer at an early stage. [#cancersm](#)

♡ 23 12:43 AM - Jul 12, 2019



[See National Cancer Institute's other Tweets](#)





National Cancer Institute  @theNCI · Jul 12, 2019



T3 A number of tumor markers are currently being used for a wide range of cancer types. Here's a list of tumor markers in common use: cancer.gov/about-cancer/d... [#cancersm](#)



Tumor Markers in Common Use

A list of tumor markers that are in common use, mainly to direct treatment or for testing in blood to cancer.gov



Amanda Haddock 
@AmandaHaddock

Thanks for this!! Was just wondering if something like this existed! [#cancersm](#)

♡ 4 12:43 AM - Jul 12, 2019



 [See Amanda Haddock !\[\]\(e72cd2cc010bf6864a2c3a3e77f2f517_img.jpg\)'s other Tweets](#)



Sarika Jain
@drjainsp



T4 For colon cancers, RAS gene testing to guide anti-EGFR therapy. BRAF mutational testing should also be performed for prognostic information. [#cancersm](#)

♡ 3 12:43 AM - Jul 12, 2019



 [See Sarika Jain's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T4: What biomarker tests should be run for which types of cancers? What is a liquid biopsy and when is useful? [#cancersm](#)



@MyelomaTeacher - Cindy Chmielewski
@MyelomaTeacher

In myeloma it would be great to have a liquid biopsy available instead of the painful bone marrow biopsy especially for repeat MRD testing. [#CancerSM](#) [#MMSM](#)

♡ 6 12:43 AM - Jul 12, 2019



 [See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#) >



Ashley Love Sumrall, MD, FACP @Ashl... · Jul 12, 2019 

Replying to @TheLizArmy @TimAllenMDJD

Oh [@TheLizArmy](#) 😞



Liz Salmi
@TheLizArmy

We could do a whole session on this at [@NeuroOnc](#). 😞
[#SNO2019#cancersm #btsm](#)

♡ 6 12:44 AM - Jul 12, 2019



 [See Liz Salmi's other Tweets](#)



Sarika Jain
@drjainsp



T4 For Breast cancers, the pathologist performs testing for estrogen receptor, progesterone receptor, and HER2 by immunohistochemistry. [#cancersm](#)

♡ 15 12:44 AM - Jul 12, 2019



 [See Sarika Jain's other Tweets](#)



Henning Willers, MD @HenningWillers · Jul 12, 2019 

Replying to @subatomicdoc

T3 good one, small cell cancer by IHC stains would make choice against surgery [#lscsm](#) [#cancersm](#)



Janet Freeman-Daily 
@JFreemanDaily

Not necessarily--surgery is still an option for some SCLC patients per NCCN guidelines. [#LCSM](#) [#cancersm](#)

♡ 4 12:44 AM - Jul 12, 2019



 [See Janet Freeman-Daily's other Tweets](#)





National Cancer Institute ✓

@theNCI



T4 A liquid biopsy may also be used to help plan treatment or to find out how well treatment is working or if cancer has come back. Taking multiple samples of blood over time may also reveal the molecular changes taking place in a tumor. [#cancersm](#) [#liquidbiopsy](#)

♡ 23 12:44 AM - Jul 12, 2019

[🔗 See National Cancer Institute's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T4: "Liquid biopsy" refers to molecular biomarker testing performed not on a patient's cancer tissue, but on cancer cells or cancer cell DNA or RNA that is floating in the blood stream. [#cancersm](#)



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD

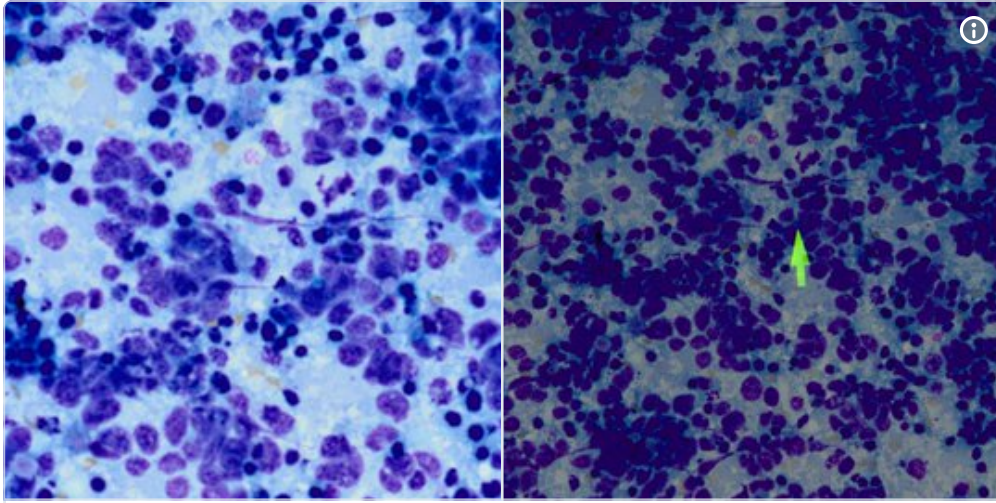
Or CSF! T4 [#btsm](#) [#cancersm](#)
futuremedicine.com/doi/full/10.22...

♡ 3 12:44 AM - Jul 12, 2019 · Charlotte, NC



[🔗 See Ashley Love Sumrall, MD, FACP's other Tweets](#)





Israh (K.) Akhtar

@israhkhan



#CANCERSM sadly not much is known about the genetics, biomarkers or prognostic indicators of this deadly cancer of the lung (small cell carcinoma)

♡ 4 12:44 AM - Jul 12, 2019

[See Israh \(K.\) Akhtar's other Tweets](#)



Eden Lake

@EdenLake



Late (damn work) but here! #cancersm #lcsm

♡ 4 12:45 AM - Jul 12, 2019

[See Eden Lake's other Tweets](#)



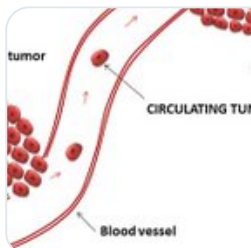
National Cancer Institute ✓

@theNCI



T4 From NCI's Cancer Currents blog last year: Liquid biopsy may predict the risk of breast cancer returning years later: [cancer.gov/news-events/ca...](https://cancer.gov/news-events/cancer-currents-blog/2018/liquid-biopsy-breast-cancer) #liquidbiopsy #cancersm

♡ 24 12:45 AM - Jul 12, 2019



Liquid Biopsy May Help Predict Brea...

The presence of circulating tumor cells found with a liquid biopsy may identify women treated for breast cancer who may

cancer.gov

[See National Cancer Institute's other Tweets](#)





Peggy Dennis
@peggyddennis



T4 Why stop on a just a few or only those actionable?
Check all possible so as treatments become available
new biopsy is not need. [#cancersm](#)

♡ 5 12:45 AM - Jul 12, 2019



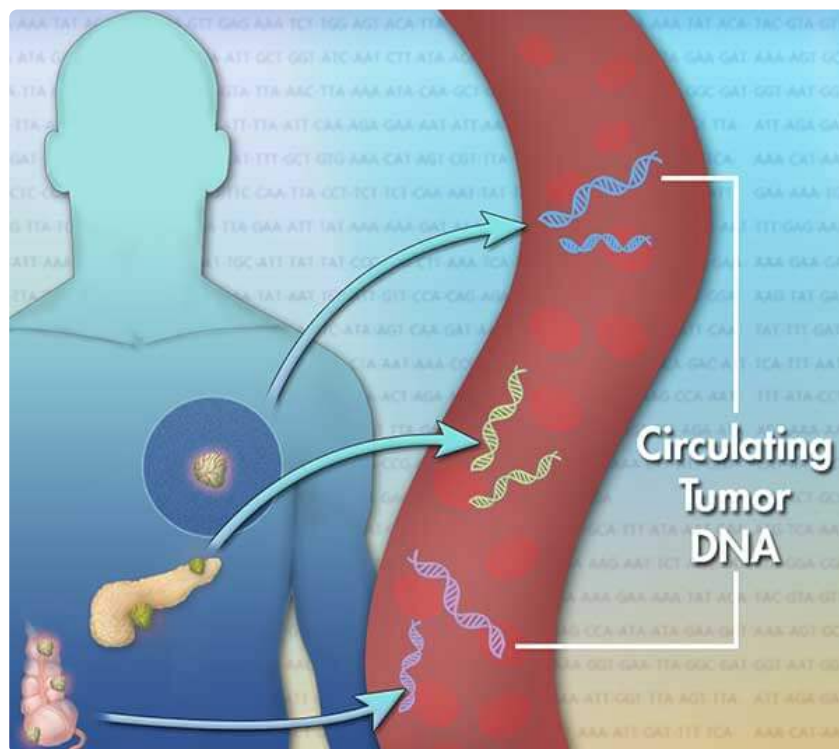
[See Peggy Dennis's other Tweets](#)



National Cancer Institute  @theNCI · Jul 12, 2019



T4 A [#liquidbiopsy](#) is a test done on a sample of blood to look for cancer cells from a tumor that are circulating in the blood or for pieces of DNA from tumor cells that are in the blood. [#cancersm](#)



P. F. Anderson
@pfanderson

It's pretty amazing these days what can be done with
"it's just a blood test" [#CancerSM](#)

♡ 5 12:45 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)





Timothy Craig Allen

@TimAllenMDJD



T4: Liquid biopsy is used in cases where a biopsy of a patient's cancer cannot be performed because the patient is too ill to tolerate the diagnostic procedure, or where the cancer site is difficult to access with a biopsy e.g., a lesion deep inside the body. [#cancersm](#)

♡ 23 12:45 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Janet Freeman-Daily  @JFreemanDaily · Jul 12, 2019



Replying to @HenningWillers @subatomicdoc

Not necessarily--surgery is still an option for some SCLC patients per NCCN guidelines. [#LCSM](#) [#cancersm](#)



Matthew Katz, MD

@subatomicdoc

True, but it still may play a role in opting for surgery. Also plays a role in the conversation about prophylactic cranial irradiation [#cancersm](#) [#lcsms](#)

♡ 3 12:45 AM - Jul 12, 2019



[See Matthew Katz, MD's other Tweets](#)



National Cancer Institute 

@theNCI



T4 And here's an overview from 2017 of the evolving science around liquid biopsies and the important research questions: [cancer.gov/news-events/ca...](https://cancer.gov/news-events/cancer-currents-blog/2017-07-liquid-biopsy) [#liquidbiopsy](#) [#cancersm](#)

♡ 23 12:46 AM - Jul 12, 2019



Liquid Biopsy: Using Tumor DNA in B...

Learn how tests that analyze circulating tumor DNA in blood, called liquid biopsies, have the potential to track cancer as it cancer.gov

[See National Cancer Institute's other Tweets](#)





Janet Freeman-Daily  @JFreemanDaily · Jul 12, 2019



Replying to @HenningWillers @subatomicdoc

Not necessarily--surgery is still an option for some SCLC patients per NCCN guidelines. [#LCSM](#) [#cancersm](#)



Henning Willers, MD

@HenningWillers

T3 correct, for the rare stage I SCLC finding this at the time of needle biopsy or wedge resection this is still a good option! (stage II more controversial) [#cancersm](#) [#lcs](#)

♡ 3 12:46 AM - Jul 12, 2019



 [See Henning Willers, MD's other Tweets](#)



Jamie Holloway, PhD

@jamienholloway



T4: I love the quote about liquid biopsies-- It's like looking for a needle in a haystack. If you find a needle, it's a needle. But if you don't find the needle, it doesn't mean one's not there. A negative result always needs to be followed up by testing tissue. [#cancersm](#)

♡ 22 12:46 AM - Jul 12, 2019



 [See Jamie Holloway, PhD's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



Glad you are here, [@EdenLake!](#)[#cancersm](#)
[twitter.com/EdenLake/statu...](https://twitter.com/EdenLake/status/1150000000000000000)

Eden Lake @EdenLake

Late (damn work) but here! [#cancersm](#) [#lcs](#)

♡ 1 12:46 AM - Jul 12, 2019



 [See Timothy Craig Allen's other Tweets](#)





Bob Steele @steele_bob · Jul 12, 2019



Glad to report Wife has final infusion sched 7/22. But dx'd Mon with new side effect: cornea thinning. Hadn't heard of that one. [#cancersm](#)



Eden Lake

@EdenLake

(Hugs) to you & wife. Keeping her in my thoughts Bob.

[#cancersm](#)

♡ 3 12:46 AM - Jul 12, 2019



[See Eden Lake's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T4: What biomarker tests should be run for which types of cancers? What is a liquid biopsy and when is useful?

[#cancersm](#)

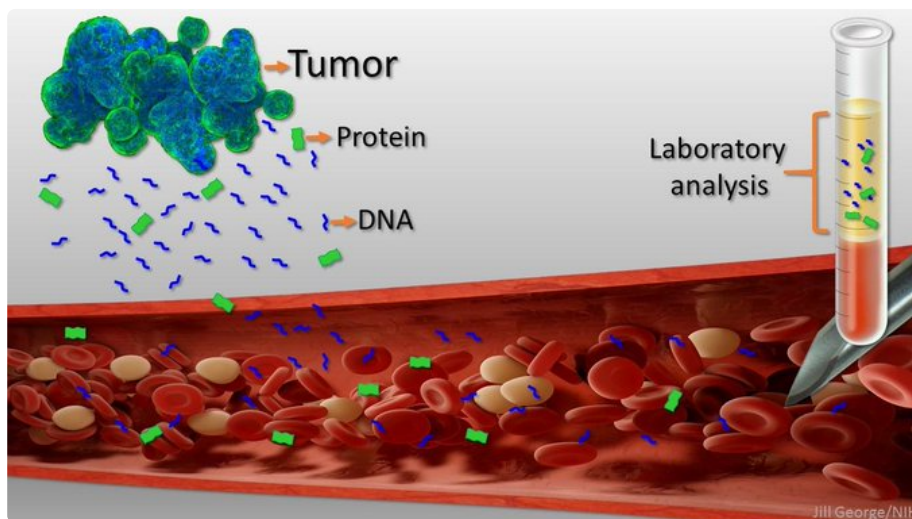


c0nc0rdance

@c0nc0rdance

T4: A liquid biopsy is testing done in a biofluid like blood plasma, where DNA or protein from the tumor can be found. It avoids the cost and risk of surgical biopsy, and can better represent the DNA or protein makeup of diverse tumors. [#CancerSM](#)

♡ 4 12:46 AM - Jul 12, 2019



[See c0nc0rdance's other Tweets](#)





Sabin Motwani
@sabinbmotwanimd



T4 interpretation of biomarker test must be easy to interpret by pathology. Not as simple as positive or negative or methylated vs unmethylated. Eg MGMT
[#cancersm](#)

♡ 3 12:47 AM - Jul 12, 2019



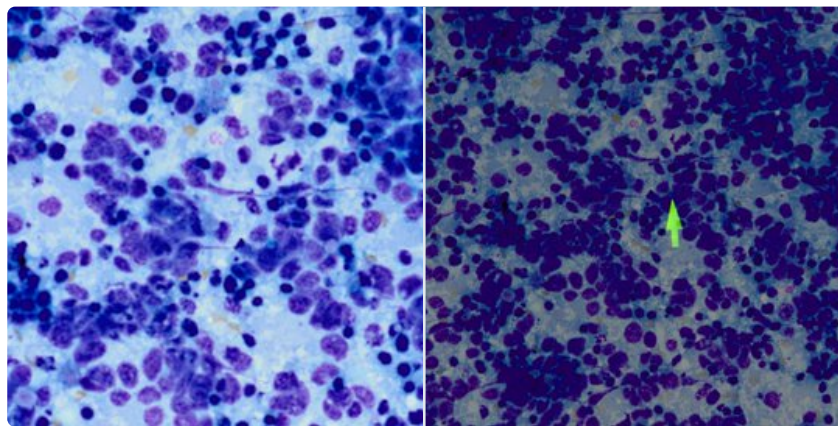
[See Sabin Motwani's other Tweets](#)



Israh (K.) Akhtar @israhkhan · Jul 12, 2019



[#CANCERSM](#) sadly not much is known about the genetics, biomarkers or prognostic indicators of this deadly cancer of the lung (small cell carcinoma)



Janet Freeman-Daily ✓
@JFreemanDaily

We have lots of data about mutations in SCLC. Unfortunately, we haven't identified one or two predominant mutations to target. SCLC is really heterogeneous. [#LCSM](#) [#cancersm](#)

♡ 7 12:47 AM - Jul 12, 2019



[See Janet Freeman-Daily's other Tweets](#)



@MyelomaTeacher - Cindy Chmielewski
@MyelomaTeacher



IM still trying to understand the complexity of biomarker testing. Would FISH testing on BMB aspirate to determine risk stratification in myeloma be considered prognostic biomarker testing? [#cancersm](#) [#MMSM](#)

♡ 2 12:47 AM - Jul 12, 2019



[See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#) >



P. F. Anderson
@pfanderson



MIT Tech Review: Liquid Biopsy
Fast DNA-sequencing machines are leading to simple blood tests for cancer. (2015)

technologyreview.com/s/534991/liqui... #CancerSM

♡ 3 12:47 AM - Jul 12, 2019



Blood Test for Early Cancer Detection

Fast DNA-sequencing machines are leading to simple blood tests for cancer.

technologyreview.com

[See P. F. Anderson's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



T4: Liquid biopsy is relatively new, and so not all laboratories perform it. This is a rapidly growing area but at this time molecular testing performed of the cancer tissue itself is better than liquid biopsy at the time of primary diagnosis. #cancersm

♡ 5 12:47 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Peggy Dennis @peggyddennis · Jul 12, 2019



T4 Why stop on a just a few or only those actionable? Check all possible so as treatments become available new biopsy is not need. #cancersm



Uppity Cancer Pt
@UppityCancerP

With breast cancer, tumor profile can change over time so running new profile makes sense there #cancersm

♡ 6 12:47 AM - Jul 12, 2019



[See Uppity Cancer Pt's other Tweets](#)





Liza Bernstein

@itsthebunk



Sorry to all on [#cancersm](#) — timing just didn't work out for me to join you today. I will have to check the transcript (and read the announcement more carefully next time!)

♡ 6 12:47 AM - Jul 12, 2019



[See Liza Bernstein's other Tweets](#)



Ashley Love Sumrall, MD, FACP @Ashl... · Jul 12, 2019

Replying to @TheLizArmy and 2 others

And we should.



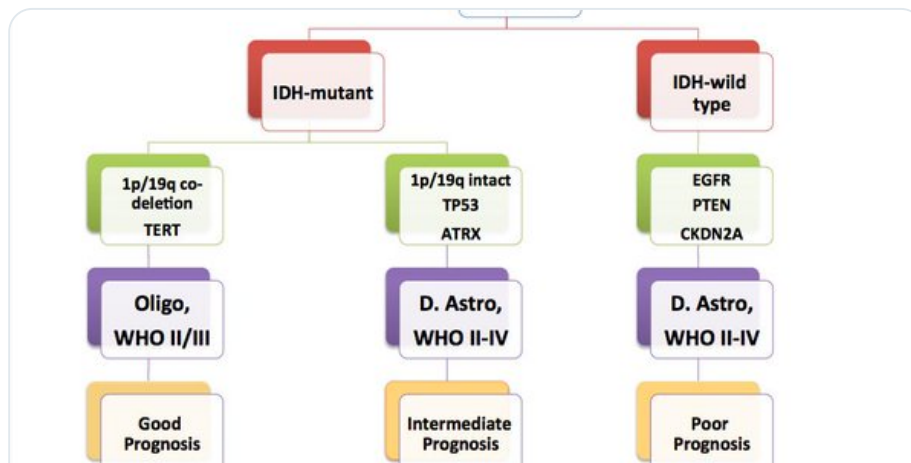
Liz Salmi

@TheLizArmy

Before [@WHO](#) came out with the 2016 CNS reclassification, I stalked a [#neuropath](#) conference on Twitter to learn all about it... then I blogged about it.

Ladies & gentle-persons: This is [@TheLizArmy](#) circa 2015. thelizarmy.com/2016/03/dear-e... [#cancersm](#) [#btsm](#) [#memories](#)

♡ 14 12:47 AM - Jul 12, 2019



Dear everyone with an oligoastrocytoma: Your diag...

In May of 2015 I was hanging out in a bar with David Arons, the now CEO of the National Brain Tumor Society. We were thelizarmy.com

[See Liz Salmi's other Tweets](#)





@MyelomaTeacher - Cindy Chmiele... · Jul 12, 2019 

IM still trying to understand the complexity of biomarker testing. Would FISH testing on BMB aspirate to determine risk stratification in myeloma be considered prognostic biomarker testing? [#cancersm](#) [#MMSM](#)



Jamie Holloway, PhD
[@jamienholloway](#)

You've got it, Cindy! [#CANCERSM](#)

♡ 3 12:47 AM - Jul 12, 2019 

 [See Jamie Holloway, PhD's other Tweets](#) 



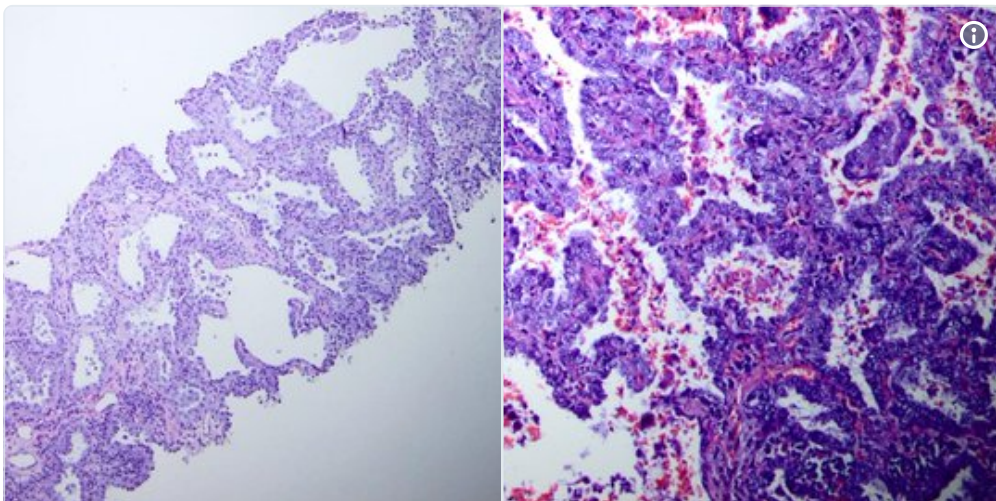
Matthew Katz, MD
[@subatomicdoc](#)



What about the role of WHERE we sample? Do biomarker findings have different implications if biopsy taken from the primary tumor or a site of disease spread? [#cancersm](#)

♡ 28 12:48 AM - Jul 12, 2019 

 [18 people are talking about this](#) 



Israh (K.)Akhtar
[@israhkhan](#)



[#CANCERSM](#) : Adenocarcinoma of lung with lepidic pattern is a good prognosis carcinoma. Similarly Alk positive adenocarcinoma is known to occur in Asian females who are non-smokers

♡ 6 12:48 AM - Jul 12, 2019

 [See Israh \(K.\)Akhtar's other Tweets](#) 



Peggy Dennis @peggyddennis · Jul 12, 2019



T4 Why stop on a just a few or only those actionable? Check all possible so as treatments become available new biopsy is not need. [#cancersm](#)



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD

The issue is that tumors evolve. Multiple pubs show that biomarkers change. Look at [#BATTLE](#) in [#lcsm](#) [#cancersm](#)

♡ 9 12:48 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)



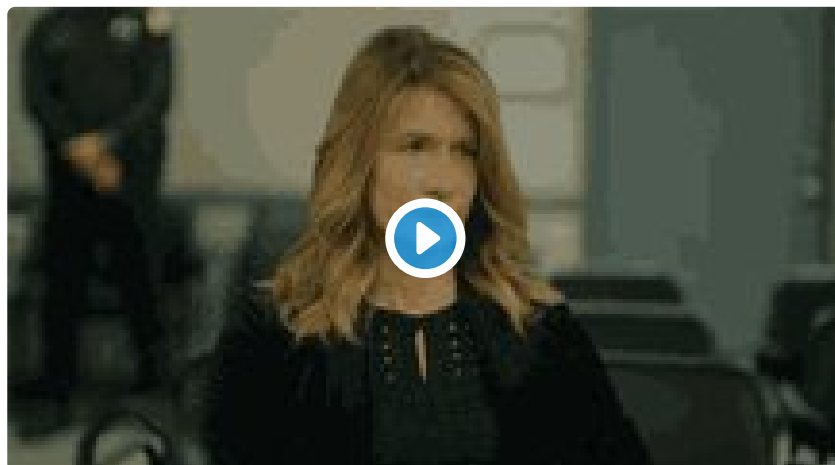
Liz Salmi @TheLizArmy · Jul 12, 2019



Replying to @AshleySumrallMD @TimAllenMDJD

I was diagnosed with a brain tumor in 2008 when checking for biomarkers was not part of standard of care.

In 2016, I asked my neuro-onc to run my tissue for the biomarkers panel. He asked, "Why would you want to know what your biomarkers are?" [#btsm](#) [#cancersm](#)



Dennis Keim

@denniskeim

Seems like that new and relevant tests should be standard operating procedure for checkups. I had what I presume was standard breast cancer pathology for 2013 and BRCA and Oncotype DX done but I imagine there are some new things that might be worthwhile knowing.

[#bcsn](#) [#cancersm](#)

♡ 5 12:49 AM - Jul 12, 2019



[See Dennis Keim's other Tweets](#)





Amanda Haddock  @AmandaHaddock · Jul 12, 2019



Replying to @TheLizArmy and 2 others

It's still far from common at a lot of hospitals. Out here in the middle, brain tumor patients don't always get it offered to them, especially if they don't have good insurance.



Liz Salmi
@TheLizArmy

Remember the hashtag, Amanda! [#cancersm](#) [#btsm](#)

♡ 2 12:49 AM - Jul 12, 2019



 [See Liz Salmi's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



T5: Can and should patients pursue biomarker testing for treatment options if their doctor does not offer it?

[#cancersm](#)

♡ 9 12:49 AM - Jul 12, 2019



 [See Timothy Craig Allen's other Tweets](#)



Liza Bernstein @itsthebunk · Jul 12, 2019



Sorry to all on [#cancersm](#) — timing just didn't work out for me to join you today. I will have to check the transcript (and read the announcement more carefully next time!)



Christina Lizaso
@btrfly12

Waving hello Liza and thanks for all your do for patients!
:) [#cancersm](#)

♡ 5 12:49 AM - Jul 12, 2019



 [See Christina Lizaso's other Tweets](#)



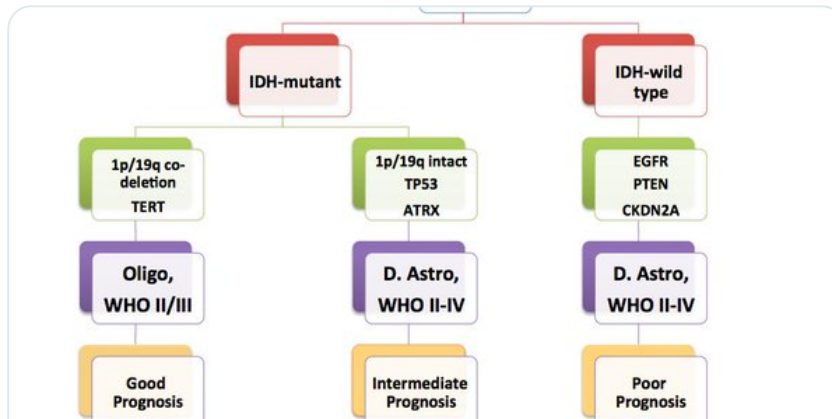
Liz Salmi @TheLizArmy · Jul 12, 2019



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Ladies & gentle-persons: This is @TheLizArmy circa 2015. thelizarmy.com/2016/03/dear-e... #cancersm #btsm #memories



Dear everyone with an oligoastrocytoma: Your...

In May of 2015 I was hanging out in a bar with David Arons, the now CEO of the National Brain Tumor thelizarmy.com

Uppity Cancer Pt

@UppityCancerP

Is the word really stalk? I'd say listened in to save your life myself #cancersm

♡ 6 12:49 AM - Jul 12, 2019



See Uppity Cancer Pt's other Tweets



Peggy Dennis @peggyddennis · Jul 12, 2019



T4 Why stop on a just a few or only those actionable? Check all possible so as treatments become available new biopsy is not need. #cancersm

Janet Freeman-Daily ✓

@JFreemanDaily

There are tens of thousands of possible mutations in human DNA. It's not possible to catch them all in one test. Best to design the test to look for those mutations that have best chance of helping to guide treatment. #LCSM #cancersm

♡ 7 12:49 AM - Jul 12, 2019



See Janet Freeman-Daily's other Tweets





Matthew Katz, MD @subatomicdoc · Jul 12, 2019



What about the role of WHERE we sample? Do biomarker findings have different implications if biopsy taken from the primary tumor or a site of disease spread? [#cancersm](#)



P. F. Anderson

@pfanderson

Excellent question! So much we still need to learn!

[#CancerSM](#)

♡ 4 12:50 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)



Ashley Love Sumrall, MD, FACP @Ashl... · Jul 12, 2019



Replying to @subatomicdoc @TimAllenMDJD

Exactly! With brain mets, we are learning that they may be different than orig site [#btsm](#)



Matthew Katz, MD

@subatomicdoc

There is some discordance in ER/PR/Her2 in breast cancer. Here is an example between the primary tumor and nodal metastases:

ncbi.nlm.nih.gov/pubmed/24274821

What other diseases does it differ? [#cancersm](#) [#bcsn](#)

♡ 12 12:51 AM - Jul 12, 2019



[See Matthew Katz, MD's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T5: Can and should patients pursue biomarker testing for treatment options if their doctor does not offer it?

[#cancersm](#)



Uppity Cancer Pt

@UppityCancerP

Yes! Push for best care possible. It's my oncologist's job but it's my life [#cancersm](#)

♡ 7 12:51 AM - Jul 12, 2019



[See Uppity Cancer Pt's other Tweets](#)





Jamie Holloway, PhD
@jamienholloway



T5: Easiest tweetchat answer ever. [#cancersm](#)
twitter.com/TimAllenMDJD/s...



Timothy Craig Allen @TimAllenMDJD

T5: Can and should patients pursue biomarker testing for treatment options if their doctor does not offer it?#cancersm

♡ 11 12:51 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)



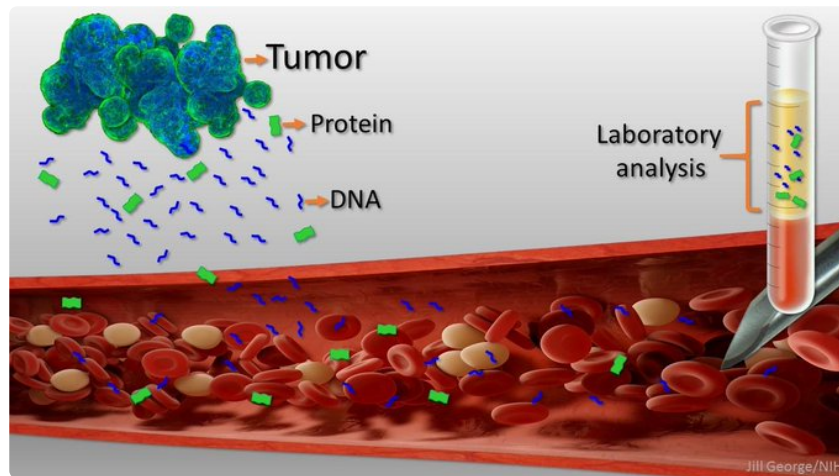


c0nc0rdance @c0nc0rdance · Jul 12, 2019



Replying to @TimAllenMDJD

T4: A liquid biopsy is testing done in a biofluid like blood plasma, where DNA or protein from the tumor can be found. It avoids the cost and risk of surgical biopsy, and can better represent the DNA or protein makeup of diverse tumors. #CancerSM



c0nc0rdance

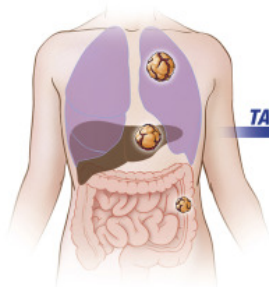
@c0nc0rdance

T4: Since we can do blood draws for liquid biopsy easily, it can improve the frequency with which an oncologists checks on the status of cancer treatments to detect as early as possible the emergence of resistance or recurrence #CancerSM

♥ 8 12:51 AM - Jul 12, 2019

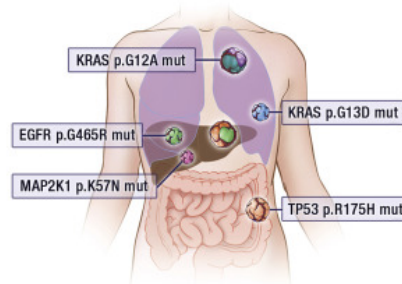


A Before Targeted Therapy

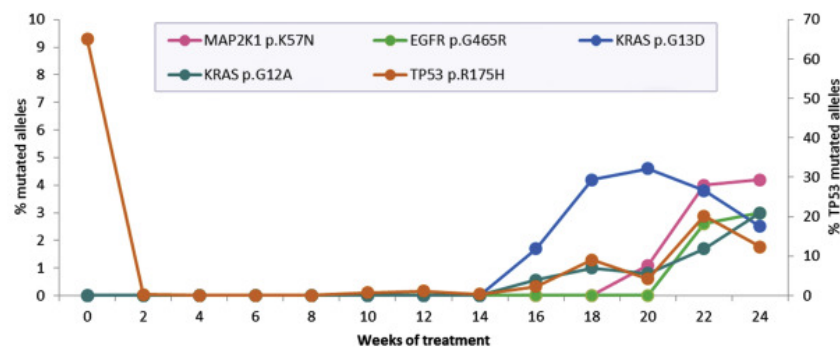


TARGETED THERAPY

B After Targeted Therapy



C Percentage of Mutant Alleles in ctDNA During Treatment



[See c0nc0rdance's other Tweets](#)





National Cancer Institute ✓
@theNCI



T5 NCI does not have guidelines for the use of tumor markers. However, some national and international organizations have guidelines for the use of tumor markers for some types of cancer: cancer.gov/about-cancer/d... #cancersm

♡ 23 12:52 AM - Jul 12, 2019



Tumor Markers

A fact sheet that defines tumor markers and describes how they can be used to aid diagnosis and treatment.

cancer.gov

💬 15 people are talking about this



Timothy Craig Allen
@TimAllenMDJD



T5: Molecular testing and molecular therapy has become the standard of care for many cancers. Most doctors are performing the recommended molecular testing on particular types of cancer. #cancersm

♡ 6 12:52 AM - Jul 12, 2019



👤 See Timothy Craig Allen's other Tweets



Janet Freeman-Daily ✓ @JFreemanDaily · Jul 12, 2019



Replying to @peggyddennis

There are tens of thousands of possible mutations in human DNA. It's not possible to catch them all in one test. Best to design the test to look for those mutations that have best chance of helping to guide treatment. #LCSM #cancersm



P. F. Anderson
@pfanderson

I use the analogies of cherry picking (looking at just the most likely & essential ones to save time/cost) and apple harvesting (shaking the tree until everything falls off) #CancerSM

♡ 4 12:52 AM - Jul 12, 2019



👤 See P. F. Anderson's other Tweets





Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T5: Can and should patients pursue biomarker testing for treatment options if their doctor does not offer it?

[#cancersm](#)



Henning Willers, MD

@HenningWillers

T5 absolutely! doctor should always point out all possible options even if not available at his/her own institution

[#cancersm](#)

♡ 10 12:52 AM - Jul 12, 2019



[👤 See Henning Willers, MD's other Tweets](#)



Ashley Love Sumrall, MD, FACP @Ashl... · Jul 12, 2019



Replying to @peggyddennis @TimAllenMDJD

The issue is that tumors evolve. Multiple pubs show that biomarkers change. Look at [#BATTLE](#) in [#lscsm](#)

[#cancersm](#)



Janet Freeman-Daily ✓

@JFreemanDaily

And cancer evolves to develop resistance to targeted therapies. That's why rebiopsy is now more common after cancer progression in NSCLC. [#lscsm](#) [#cancersm](#)

♡ 15 12:53 AM - Jul 12, 2019



[👤 See Janet Freeman-Daily's other Tweets](#)



Christina Lizaso

@btrfly12



T5: As [@JFreemanDaily](#) bought up, the NCCN guidelines are a great resource and an excellent place for patients to find out what the current recommendations are and ask questions of their doc's if there is a variance

[nccn.org/professionals/...](#) [#cancersm](#)

♡ 8 12:53 AM - Jul 12, 2019



[👤 See Christina Lizaso's other Tweets](#)





Jamie Holloway, PhD @jamienholloway · Jul 12, 2019



T5: Easiest tweetchat answer ever. #cancersm
twitter.com/TimAllenMDJD/s...



Timothy Craig Allen @TimAllenMDJD

T5: Can and should patients pursue biomarker testing for treatment options if their doctor does not offer it? #cancersm



Darcy Burbage

@DarcyBurbage

Agreed! #cancersm

♡ 2 12:54 AM - Jul 12, 2019



[See Darcy Burbage's other Tweets](#)



Sarika Jain

@drjainsp



T5 The basic question to ask your doctor is "Given my diagnosis, is molecular biomarker testing is right for me?" You can read about guidelines which are specifically designed for patients
atnccn.org/patients/guide... #cancersm

♡ 10 12:54 AM - Jul 12, 2019



[See Sarika Jain's other Tweets](#)





Christina Lizaso @btrfly12 · Jul 12, 2019



T5: As @JFreemanDaily bought up, the NCCN guidelines are a great resource and an excellent place for patients to find out what the current recommendations are and ask questions of their doc's if there is a variance
nccn.org/professionals/... #cancersm



P. F. Anderson
@pfanderson

We used to have Guidelines.gov for parts of this. Such a loss #CancerSM

♡ 4 12:54 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)



Matthew Katz, MD @subatomicdoc · Jul 12, 2019



Replying to @AshleySumrallMD @TimAllenMDJD

There is some discordance in ER/PR/Her2 in breast cancer. Here is an example between the primary tumor and nodal metastases: ncbi.nlm.nih.gov/pubmed/24274821

What other diseases does it differ? #cancersm #bcsm



Ashley Love Sumrall, MD, FACP
@AshleySumrallMD

Colon. meetinglibrary.asco.org/record/175001/...
#cancersm

♡ 5 12:55 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)



Israh (K.) Akhtar
@israhkhan



#CANCERSM Personalized oncology is based on biomarkers (driver mutations), stage & histology. In lung Ca major biomarkers are : EGFR (10-15% NSCLCs), ALK (2-7%), ROS-1 (1-2%), K-ras (15-30%) are generally mutually exclusive. Cytology material are good substrates for this testing

♡ 3 12:55 AM - Jul 12, 2019



[See Israh \(K.\) Akhtar's other Tweets](#)





Christina Lizaso

@btrfly12



T5: Second opinions are almost always a good idea - especially in cancer. Seek doc's with high case volume of your specific type of cancer. You are you own best advocate and the science is changing fast. [#cancersm](#)

♡ 18 12:55 AM - Jul 12, 2019



[See Christina Lizaso's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



T5: It's always a good idea to ask your doctor about molecular testing; but given the confusion in this rapidly changing area, it may be difficult to know what to ask your doctor. Feel free to call your pathologist and discuss! [#cancersm](#)

♡ 9 12:55 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Sandra Spivey

@SpiveySandra



Coming late to the conversation. Any discussion about cost to patient for these tests? I was surprised to find I had a \$3,000 copay *after* my cfDNA test was performed. [#cancersm](#)

♡ 10 12:55 AM - Jul 12, 2019



[See Sandra Spivey's other Tweets](#)

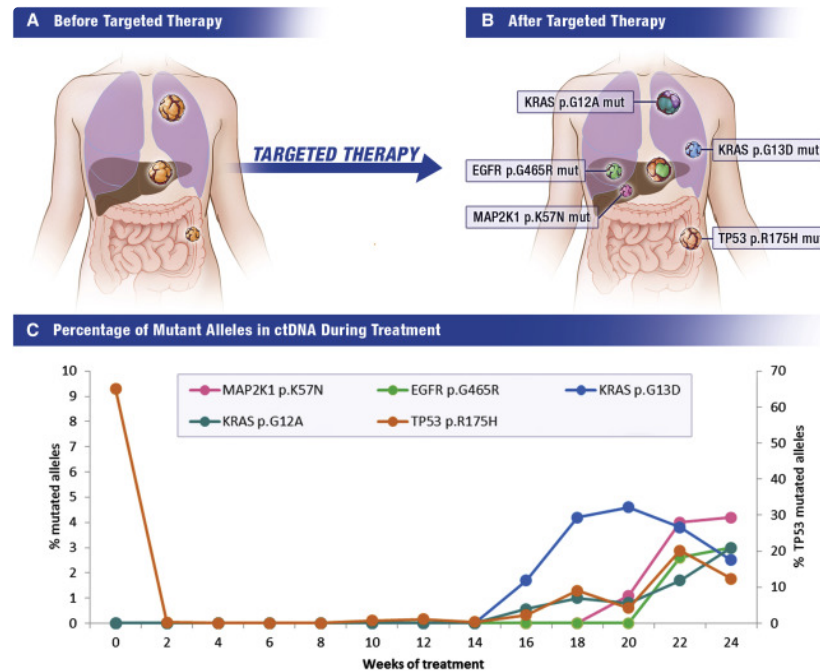


c0nc0rdance @c0nc0rdance · Jul 12, 2019



Replying to @c0nc0rdance @TimAllenMDJD

T4: Since we can do blood draws for liquid biopsy easily, it can improve the frequency with which an oncologists checks on the status of cancer treatments to detect as early as possible the emergence of resistance or recurrence [#CancerSM](#)



Amanda Haddock
 @AmandaHaddock

T4: Are there solid mass tumors that are using liquid biopsy for diagnosis/progression information? As I understand it, it isn't an approved clinical tool for brain tumors yet. [#cancersm](#)

♡ 4 12:55 AM - Jul 12, 2019



[See Amanda Haddock's other Tweets](#)



Matthew Katz, MD @subatomicdoc · Jul 12, 2019



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There is some discordance in ER/PR/Her2 in breast cancer. Here is an example between the primary tumor and nodal metastases: ncbi.nlm.nih.gov/pubmed/24274821

What other diseases does it differ? [#cancersm](#) [#bcsm](#)

Ashley Love Sumrall, MD, FACP
 @AshleySumrallMD

Gl. [@LevineCancer](#)

meetinglibrary.asco.org/record/173210/... [#cancersm](#)

♡ 3 12:56 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)





Janet Freeman-Daily 
@JFreemanDaily



#lungcancer treatments are evolving so fast that even LC specialists have trouble keeping up--dozens of new tx approvals in just past 5 years. If your doctor does not mention biomarker testing for you NSCLC, ASK! It's stand of care! #lcsn #cancersm

♡ 27 12:56 AM - Jul 12, 2019



 21 people are talking about this



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T5: It's always a good idea to ask your doctor about molecular testing; but given the confusion in this rapidly changing area, it may be difficult to know what to ask your doctor. Feel free to call your pathologist and discuss! #cancersm



Henning Willers, MD
@HenningWillers

T5 how do you call your pathologist? #cancersm

♡ 4 12:56 AM - Jul 12, 2019



 See Henning Willers, MD's other Tweets



Sarika Jain @drjainsp · Jul 12, 2019



T5 The basic question to ask your doctor is "Given my diagnosis, is molecular biomarker testing is right for me?" You can read about guidelines which are specifically designed for patients at nccn.org/patients/guide... #cancersm



P. F. Anderson
@pfanderson

When someone asks me about a new diagnosis, one of the first things I like to do is search for "questions to ask your doctor" "new diagnosis" [X = topic/diagnosis/disease/procedure/surgery] So often I find very helpful tips! #CancerSM #Medlibs

♡ 4 12:56 AM - Jul 12, 2019



 See P. F. Anderson's other Tweets





Matthew Katz, MD @subatomicdoc · Jul 12, 2019



Replying to @AshleySumrallMD @TimAllenMDJD

There is some discordance in ER/PR/Her2 in breast cancer. Here is an example between the primary tumor and nodal metastases: ncbi.nlm.nih.gov/pubmed/24274821

What other diseases does it differ? #cancersm #bcsbm



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD

And #melanoma.

meetinglibrary.asco.org/record/174859/... #cancersm

♡ 3 12:56 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)



Ashley Love Sumrall, MD, FACP @Ashl... · Jul 12, 2019



Replying to @subatomicdoc @TimAllenMDJD

Colon. meetinglibrary.asco.org/record/175001/... #cancersm



Matthew Katz, MD

@subatomicdoc

Cool thanks Ashley! #cancersm

♡ 3 12:57 AM - Jul 12, 2019



[See Matthew Katz, MD's other Tweets](#)



Matthew Katz, MD @subatomicdoc · Jul 12, 2019



What about the role of WHERE we sample? Do biomarker findings have different implications if biopsy taken from the primary tumor or a site of disease spread? #cancersm



Alicia C. Staley

@stales

great question that I've always wondered about.

#CancerSm

♡ 5 12:57 AM - Jul 12, 2019



[See Alicia C. Staley's other Tweets](#)





@MyelomaTeacher - Cindy Chmielewski
@MyelomaTeacher



I don't think myeloma has any established therapeutic biomarkers. [@theMMRF](#) MyDrug trial is trying to match certain mutations to type of therapy [#MMSM](#)
themmrf.org/mydrug/ [#cancerSM](#)

♡ 1 12:57 AM - Jul 12, 2019



MyDRUG - Multiple Myeloma Research Foundation

The MyDRUG clinical trial turns learning into action, this groundbreaking cancer research study will test drugs
themmrf.org

[🔗 See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#) >



Christina Lizaso @btrfly12 · Jul 12, 2019



T5: Second opinions are almost always a good idea - especially in cancer. Seek doc's with high case volume of your specific type of cancer. You are you own best advocate and the science is changing fast. [#cancersm](#)



Liz Salmi
@TheLizArmy

Can someone who is really great at Storify just Storify this tweet chat so I can share that Storify with everyone diagnosed with a malignancy yesterday, today and tomorrow??!!!

Paging [@BraveBosom](#). [#cancersm](#) [#btsm](#)

♡ 7 12:57 AM - Jul 12, 2019



[🔗 See Liz Salmi's other Tweets](#)





Henning Willers, MD @HenningWillers · Jul 12, 2019



Replying to @TimAllenMDJD

T5 how do you call your pathologist? #cancersm



P. F. Anderson

@pfanderson

Exactly! Are pathologists accessible to the public? How do you find out who is "your" pathologist? #CancerSM

♡ 7 12:57 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)



Amanda Haddock  @AmandaHaddock · Jul 12, 2019



Replying to @c0nc0rdance @TimAllenMDJD

T4: Are there solid mass tumors that are using liquid biopsy for diagnosis/progression information? As I understand it, it isn't an approved clinical tool for brain tumors yet. #cancersm



Janet Freeman-Daily 

@JFreemanDaily

We have one liquid biopsy that is FDA approved for detecting a specific mutation in EGFR+ #lungcancer. #LCSM #cancersm

♡ 7 12:57 AM - Jul 12, 2019



[See Janet Freeman-Daily's other Tweets](#)



Amanda Haddock  @AmandaHaddock · Jul 12, 2019



Replying to @c0nc0rdance @TimAllenMDJD

T4: Are there solid mass tumors that are using liquid biopsy for diagnosis/progression information? As I understand it, it isn't an approved clinical tool for brain tumors yet. #cancersm



Jamie Holloway, PhD

@jamienholloway

There is an FDA-approved companion diagnostic in lung cancer. But still, a negative liquid biopsy needs to reflex to tumor tissue analysis because not all tumors shed enough DNA. #cancersm

♡ 4 12:57 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)





Janet Freeman-Daily  @JFreemanDaily · Jul 12, 2019 

[#lungcancer](#) treatments are evolving so fast that even LC specialists have trouble keeping up--dozens of new tx approvals in just past 5 years. If your doctor does not mention biomarker testing for you NSCLC, ASK! It's stand of care! [#lcs](#) [#cancers](#)



Henning Willers, MD
@HenningWillers

i have definitely trouble keeping up!! [#lcs](#) [#cancers](#)

♡ 2 12:58 AM - Jul 12, 2019 

 [See Henning Willers, MD's other Tweets](#) 



Timothy Craig Allen
@TimAllenMDJD 

Get your pathology report and usually there's a phone number. If not, your hospital or clinic should be able to provide it. [#cancers](#) twitter.com/HenningWillers...

Henning Willers, MD @HenningWillers
Replying to @TimAllenMDJD
T5 how do you call your pathologist? [#cancers](#)

♡ 8 12:58 AM - Jul 12, 2019 

 [See Timothy Craig Allen's other Tweets](#) 



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019 

T5: It's always a good idea to ask your doctor about molecular testing; but given the confusion in this rapidly changing area, it may be difficult to know what to ask your doctor. Feel free to call your pathologist and discuss! [#cancers](#)



Darcy Burbage
@DarcyBurbage

[#cancers](#) Excellent suggestion!

♡ 2 12:58 AM - Jul 12, 2019 

 [See Darcy Burbage's other Tweets](#) 



Timothy Craig Allen

@TimAllenMDJD



Closing thoughts as we complete our [#cancersm](#) twitterchat this evening?

♡ 1 12:58 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Sandra Spivey @SpiveySandra · Jul 12, 2019



Coming late to the conversation. Any discussion about cost to patient for these tests? I was surprised to find I had a \$3,000 copay *after* my cfDNA test was performed.

[#cancersm](#)



Janet Freeman-Daily ✓

@JFreemanDaily

Most liquid biopsy tests are not yet covered by insurance. However, most test manufacturers can provide some financial assistance. [#cancersm](#)

♡ 7 12:59 AM - Jul 12, 2019



[See Janet Freeman-Daily's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



T5: It's always a good idea to ask your doctor about molecular testing; but given the confusion in this rapidly changing area, it may be difficult to know what to ask your doctor. Feel free to call your pathologist and discuss! [#cancersm](#)



Uppity Cancer Pt

@UppityCancerP

The pathologist name is listed on report. Start at last report? My liver biopsy, 2 lovely lady pathologists handled samples right in OR. Should have asked them questions then and there. [#cancersm](#)

♡ 5 12:59 AM - Jul 12, 2019



[See Uppity Cancer Pt's other Tweets](#)





Liz Salmi
@TheLizArmy



Anyone with cancer ever get to talk to their pathologist... ever?

How did you find them? [#btsm](#) [#cancersm](#)
twitter.com/HenningWillers...



Henning Willers, MD @HenningWillers
Replying to @TimAllenMDJD
T5 how do you call your pathologist? [#cancersm](#)

♡ 15 12:59 AM - Jul 12, 2019



💬 16 people are talking about this



Dee Sparacio
@womenofteal



Got to run ...[#cancersm](#) . Thanks [@JFreemanDaily](#) for bringing us all together and [@TimAllenMDJD](#) for moderating and everyone who posted. Great Chat!
[#gynccsm](#)

♡ 5 1:00 AM - Jul 12, 2019



👤 [See Dee Sparacio's other Tweets](#)





Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



Get your pathology report and usually there's a phone number. If not, your hospital or clinic should be able to provide it. [#cancersm](#) [twitter.com/HenningWillers...](https://twitter.com/HenningWillers)

Henning Willers, MD @HenningWillers

Replying to @TimAllenMDJD

T5 how do you call your pathologist? [#cancersm](#)



Henning Willers, MD

@HenningWillers

i am gonna have my next [#lungcancer](#) patient try that out 😊 [#cancersm](#)

♡ 6 1:00 AM - Jul 12, 2019



[👤 See Henning Willers, MD's other Tweets](#)



Liz Salmi @TheLizArmy · Jul 12, 2019



Replying to @btrfly12

Can someone who is really great at Storify just Storify this tweet chat so I can share that Storify with everyone diagnosed with a malignancy yesterday, today and tomorrow??!!!

Paging [@BraveBosom](#). [#cancersm](#) [#btsm](#)



@MyelomaTeacher - Cindy Chmielewski

@MyelomaTeacher

I don't Storify =, but I can get [@syimplur](#) transcript [#Cancersm](#)

♡ 3 1:00 AM - Jul 12, 2019



[👤 See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#) >



Timothy Craig Allen

@TimAllenMDJD



This, [#Pathologists!#cancersm](#)
[twitter.com/TheLizArmy/sta...](#)

Liz Salmi @TheLizArmy

Anyone with cancer ever get to talk to their pathologist...
ever?

How did you find them?#btsm #cancersm
[twitter.com/HenningWillers...](#)



♡ 11 1:00 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



Ashley Love Sumrall, MD, FACP

@AshleySumrallMD



Hey [@TimAllenMDJD](#), while we mention biomarkers, I
have to mention [@ASCO](#) [#TAPUR](#) as an awesome
example of a clin trial based on biomarkers. Also a great
example of multiple clinicians working together.
[#cancersm](#) [tapur.org](#)

♡ 23 1:00 AM - Jul 12, 2019 · Charlotte, NC



[See Ashley Love Sumrall, MD, FACP's other Tweets](#)





National Cancer Institute ✓
@theNCI



Thank you, everyone, for a fascinating and informative chat! If you have questions about cancer or biomarkers, please reach out to our Cancer Information Service: cancer.gov/contact If you asked a question tonight, we will try to get you an answer! [#cancersm](#)

♡ 23 1:00 AM - Jul 12, 2019



Contact Us for Help

Cancer information specialists can answer your questions about cancer and help you with quitting smoking. They also respond to cancer.gov

[See National Cancer Institute's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019
Closing thoughts as we complete our [#cancersm](#) twitterchat this evening?



Henning Willers, MD
@HenningWillers

learned a lot, fantastic chat [#cancersm](#)

♡ 6 1:00 AM - Jul 12, 2019



[See Henning Willers, MD's other Tweets](#)



Janet Freeman-Daily ✓
@JFreemanDaily



Thanks to [@TimAllenMDJD](#) for the blog and great job a moderator. And thanks for so much great info from [@NCI](#) and so many others! Terrific chat. We'll summarize it on Wakelet in the next several days. [#cancersm](#)

♡ 18 1:01 AM - Jul 12, 2019



[See Janet Freeman-Daily's other Tweets](#)





Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



Get your pathology report and usually there's a phone number. If not, your hospital or clinic should be able to provide it. [#cancersm](#) [twitter.com/HenningWillers...](https://twitter.com/HenningWillers)



Darcy Burbage

@DarcyBurbage

[#cancersm](#) your oncology nurse can help pts access their pathologist

♡ 6 1:01 AM - Jul 12, 2019



[See Darcy Burbage's other Tweets](#)



Henning Willers, MD @HenningWillers · Jul 12, 2019



Replying to @TimAllenMDJD

T5 how do you call your pathologist? [#cancersm](#)



Dennis Keim

@denniskeim

Exactly. I never thought to contact my pathologist. I presumed my onc and GP were adequate and interpretive points of contact there. [#cancersm](#)

♡ 5 1:01 AM - Jul 12, 2019



[See Dennis Keim's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



It has been my great privilege to participate and my great honor to host tonight's [#cancersm](#) twitterchat. My very best to y'all.

♡ 21 1:01 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)





Christina Lizaso

@btrfly12



There's been a lot of discussion from radiologists lately about directly talking to patients. Now the pathologists are in on it too. Love it. [#cancersm](#)
[twitter.com/TheLizArmy/sta...](https://twitter.com/TheLizArmy/status/1151111111)

Liz Salmi @TheLizArmy

Anyone with cancer ever get to talk to their pathologist... ever?

How did you find them?#btsm #cancersm
[twitter.com/HenningWillers...](https://twitter.com/HenningWillers/status/1151111111)



♡ 4 1:02 AM - Jul 12, 2019



[See Christina Lizaso's other Tweets](#)



@MyelomaTeacher - Cindy Chmielewski

@MyelomaTeacher



I love learning from other cancer communities. Together we are stronger. Thanks for organizing this chat
[@JFreemanDaily](#) [#cancersm](#) [#MMSM](#)

♡ 12 1:02 AM - Jul 12, 2019



[See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#)





Sherry Reynolds 🌟
@Cascadia



What % of public or private health insurance covers biomarkers - how can people find a list? [@TimAllenMDJD](#)
[@NCI](#) [#CANCERSM](#)

♡ 3 1:02 AM - Jul 12, 2019



[See Sherry Reynolds 🌟's other Tweets](#)



Sarika Jain
@drjainsp



Excellent discussion, very informative. thank you
[@TimAllenMDJD](#) [#cancersm](#)

♡ 2 1:02 AM - Jul 12, 2019



[See Sarika Jain's other Tweets](#)



Jamie Holloway, PhD
@jamienholloway



Can't let a biomarker discussion go by without mentioning the importance of evidence. It's important that any time a drug is suggested based on a biomarker there is data backing that up. [#showmethedata](#)
[#cancersm](#)

♡ 17 1:02 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)



Christina Lizaso
@btrfly12



Fantastic job! Thanks for all you do and thanks [#lcsn](#) for rallying us all together. [#cancersm](#)
[twitter.com/TimAllenMDJD/s...](#)

Timothy Craig Allen [@TimAllenMDJD](#)

It has been my great privilege to participate and my great honor to host tonight's [#cancersm](#) twitterchat. My very best to y'all.

♡ 4 1:02 AM - Jul 12, 2019



[See Christina Lizaso's other Tweets](#)

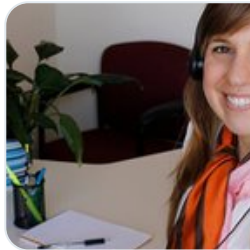




National Cancer Institute  @theNCI · Jul 12, 2019



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Contact Us for Help

Cancer information specialists can answer your questions about cancer and help you with quitting smoking. cancer.gov



Matthew Katz, MD

@subatomicdoc

Thank you for joining! Thank you [@TimAllenMDJD](#) for moderating and to everyone from the wonderful Twittersphere for contributing! [#cancersm](#)

♡ 4 1:02 AM - Jul 12, 2019



 [See Matthew Katz, MD's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



It has been my great privilege to participate and my great honor to host tonight's [#cancersm](#) twitterchat. My very best to y'all.



Uppity Cancer Pt

@UppityCancerP

Best Twitter chat ever. So helpful. Thank you [#cancersm](#)

♡ 4 1:02 AM - Jul 12, 2019



 [See Uppity Cancer Pt's other Tweets](#)





Uppity Cancer Pt @UppityCancerP · Jul 12, 2019



Replying to @TimAllenMDJD

The pathologist name is listed on report. Start at last report? My liver biopsy, 2 lovely lady pathologists handled samples right in OR. Should have asked them questions then and there. [#cancersm](#)



Liz Salmi
@TheLizArmy

In this age of "meaningful use," where we've had access to:

- lab results for a decade
- radiology reports for 5 years
- clinical notes now for about 12% of the US

patients will have easier access to pathology reports into the future.

Are pathologists ready to chat? [#cancersm](#)

♡ 4 1:03 AM - Jul 12, 2019



[See Liz Salmi's other Tweets](#)



@MyelomaTeacher - Cindy Chmiele... · Jul 12, 2019

Replying to @TheLizArmy and 2 others

I don't Storify =, but I can get [@sympalur](#) transcript
[#Cancersm](#)



P. F. Anderson
@pfanderson

I will make a Wakelet and tweet it out later tonight.
[#CancerSM](#)

♡ 6 1:03 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)



Janet Freeman-Daily @JFreemanDaily · Jul 12, 2019

Replying to @SpiveySandra

Most liquid biopsy tests are not yet covered by insurance. However, most test manufacturers can provide some financial assistance. [#cancersm](#)



Sandra Spivey
@SpiveySandra

Yes \$ assistance from test mfgs. For certain income levels and below. If you've saved too much for retirement, you're out of luck.

[#cancersm](#)

♡ 3 1:03 AM - Jul 12, 2019



[See Sandra Spivey's other Tweets](#)





Timothy Craig Allen

@TimAllenMDJD



@JFreemanDaily #LikeABoss #cancersm
twitter.com/MyelomaTeacher...

@MyelomaTeacher - Cindy Chmielewski @MyelomaTea...

I love learning from other cancer communities. Together we are stronger. Thanks for organizing this chat @JFreemanDaily #cancersm #MMSM

♡ 4 1:03 AM - Jul 12, 2019



 [See Timothy Craig Allen's other Tweets](#)



Darcy Burbage

@DarcyBurbage



Thanks .@TimAllenMDJD #CANCERSM & all who participated! Very informative!

♡ 3 1:03 AM - Jul 12, 2019



 [See Darcy Burbage's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



Absolutely!#cancersm twitter.com/TheLizArmy/sta...

Liz Salmi @TheLizArmy

Replying to @UppityCancerP @TimAllenMDJD

In this age of "meaningful use," where we've had access to:

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-radiology reports for 5 years

-clinical notes now for about 12% of the US

patients will have easier access to pathology reports into the future.

Are pathologists ready to chat? #cancersm

♡ 3 1:04 AM - Jul 12, 2019



 [See Timothy Craig Allen's other Tweets](#)



Janet Freeman-Daily
@JFreemanDaily



Thanks for sharing the link to @NCCN guidelines,
@btrfly12! #cancersm #lscsm #btsm #bcsbm #mmsm
#ayacsm #gyncsm twitter.com/btrfly12/statu...

Christina Lizaso @btrfly12

T5: As @JFreemanDaily bought up, the NCCN guidelines are a great resource and an excellent place for patients to find out what the current recommendations are and ask questions of their doc's if there is a variance nccn.org/professionals/...
#cancersm

♡ 7 1:04 AM - Jul 12, 2019



See Janet Freeman-Daily's other Tweets



Henning Willers, MD @HenningWillers · Jul 12, 2019



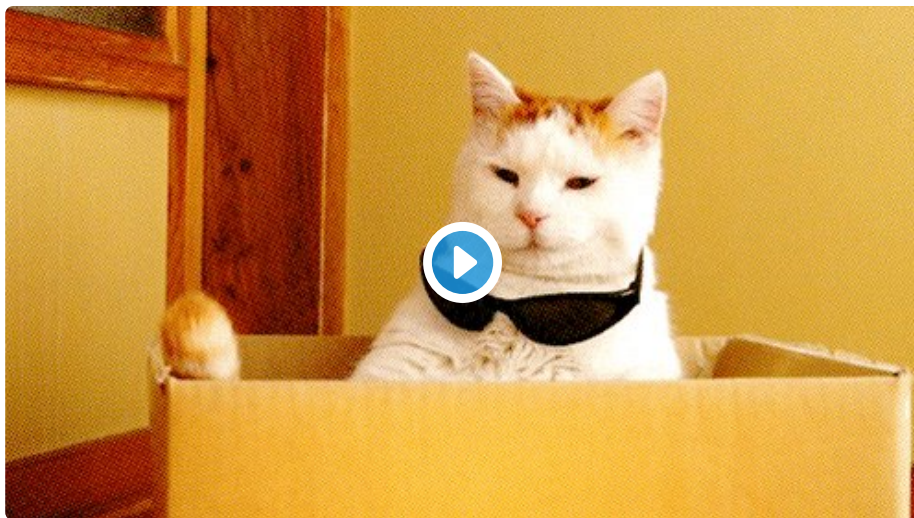
Replying to @TimAllenMDJD

i am gonna have my next #lungcancer patient try that out
 #cancersm

Liz Salmi
@TheLizArmy

I just met you Dr. Willers, but I like your style. #cancersm

♡ 3 1:04 AM - Jul 12, 2019



See Liz Salmi's other Tweets



Israh (K.) Akhtar
@israhkhan



@TimAllenMDJD #CANCERSM that was a great discussion, !!!

♡ 1 1:04 AM - Jul 12, 2019



See Israh (K.) Akhtar's other Tweets





Timothy Craig Allen

@TimAllenMDJD



Thank - you - for your great perspective! [#cancersm](#)
[twitter.com/UppityCancerP/...](https://twitter.com/UppityCancerP/)

Uppity Cancer Pt @UppityCancerP

Replying to @TimAllenMDJD

Best Twitter chat ever. So helpful. Thank you [#cancersm](#)

♡ 2 1:04 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



P. F. Anderson @pfanderson · Jul 12, 2019



Replying to @MyelomaTeacher and 4 others

I will make a Wakelet and tweet it out later tonight.

[#CancerSM](#)



@MyelomaTeacher - Cindy Chmielewski

@MyelomaTeacher

Wakelet?! That's new to me.. :) [#Cancersm](#)

♡ 2 1:05 AM - Jul 12, 2019



[See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#)



Matthew Katz, MD

@subatomicdoc



Good to see everyone - have a great night! [#cancersm](#)

♡ 4 1:05 AM - Jul 12, 2019



[See Matthew Katz, MD's other Tweets](#)

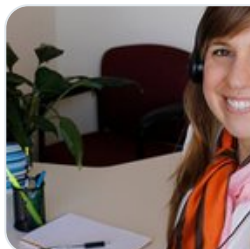




National Cancer Institute  @theNCI · Jul 12, 2019



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Cancer information specialists can answer your questions about cancer and help you with quitting smoking. cancer.gov



Sandra Spivey

@SpiveySandra

Will the chat be summarized and posted? [#cancersm](#)

♥ 1 1:06 AM - Jul 12, 2019



 [See Sandra Spivey's other Tweets](#)



Bob Steele

@steele_bob



Most excellent Cancer Social Media Twitter chat session tonight. Recognition of expanded commonality of causes bodes well for all. [#cancersm](#)

♥ 5 1:06 AM - Jul 12, 2019



 [See Bob Steele's other Tweets](#)



Timothy Craig Allen @TimAllenMDJD · Jul 12, 2019



It has been my great privilege to participate and my great honor to host tonight's [#cancersm](#) twitterchat. My very best to y'all.



Liz Salmi

@TheLizArmy

Thank you, Dr. Allen, for moderating this really great chat!

Thanks to [@lcsmchat](#) for bringing the whole community together.

On behalf of [@BTSMchat](#) and [#BTSM](#), thank you for including your cousins in the brain tumor community.

 [#cancersm](#)

♥ 8 1:06 AM - Jul 12, 2019



 [See Liz Salmi's other Tweets](#)





Jamie Holloway, PhD
@jamienholloway



Awesome biomarker chat tonight at [#cancersm](#)! Thanks for hosting [@TimAllenMDJD](#) and [@lcschat](#)!

♡ 8 1:06 AM - Jul 12, 2019



[See Jamie Holloway, PhD's other Tweets](#)



Timothy Craig Allen
@TimAllenMDJD



2d that [@jamienholloway](#) [#cancersm](#)
[twitter.com/jamienholloway...](#)

Jamie Holloway, PhD @jamienholloway

Can't let a biomarker discussion go by without mentioning the importance of evidence. It's important that any time a drug is suggested based on a biomarker there is data backing that up. [#showmethedata](#) [#cancersm](#)

♡ 3 1:06 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)



@MyelomaTeacher - Cindy Chmiele... · Jul 12, 2019

Replying to [@pfanderson](#) and 4 others

Wakelet?! That's new to me.. :) [#Cancersm](#)



Christina Lizaso
@btrfly12

I think Storify went away and now is Wakelet. Let's you pull the tweets together and arrange, weed out RTs etc. = Fancy, editable transcript. I did register [#cancersm](#) with [@healthhashtags](#) so should be available soon.

♡ 3 1:08 AM - Jul 12, 2019



[See Christina Lizaso's other Tweets](#)





Sandra Spivey @SpiveySandra · Jul 12, 2019



Replying to @theNCI

Will the chat be summarized and posted? [#cancersm](#)



National Cancer Institute

@theNCI

Retweeting @JFreemanDaily:

Thanks to @TimAllenMDJD for the blog and great job a moderator. And thanks for so much great info from @NCI and so many others! Terrific chat. We'll summarize it on Wakelet in the next several days. [#cancersm](#)

♡ 6 1:08 AM - Jul 12, 2019



[See National Cancer Institute's other Tweets](#)



Christina Lizaso @btrfly12 · Jul 12, 2019



Replying to @MyelomaTeacher and 4 others

I think Storify went away and now is Wakelet. Let's you pull the tweets together and arrange, weed out RTs etc. = Fancy, editable transcript. I did register [#cancersm](#) with [@healthhashtags](#) so should be available soon.



P. F. Anderson

@pfanderson

Storify died after it was bought. Wakelet was a competing product that really beefed up their game, and has been enormously responsive to co-development with users. In many ways, superior to Storify [#CancerSM](#)

♡ 3 1:10 AM - Jul 12, 2019



[See P. F. Anderson's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



Thank you, @theNCI, for your valuable contributions to tonight's [#cancersm](#) twitterchat!
twitter.com/theNCI/status/...

National Cancer Institute @theNCI

Replying to @SpiveySandra

Retweeting @JFreemanDaily:

Thanks to @TimAllenMDJD for the blog and great job a moderator. And thanks for so much great info from @NCI and so many others! Terrific chat. We'll summarize it on Wakelet in the next several days. [#cancersm](#)

♡ 5 1:10 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)





Uppity Cancer Pt @UppityCancerP · Jul 12, 2019



Replying to @SpiveySandra @JFreemanDaily

Retirement. What's that? Scans tomorrow. Praying I get decent news and someday actually retire with an umbrella drink in my hand. Sigh [#scanxiety](#)



Sandra Spivey

@SpiveySandra

Retired early because I didn't have the energy to work like I did my first 10 years after dx'd with [#metastaticbc](#) When I was dx'd with MBC in 1998, I thought about how my husband would spend all of our hard-earned savings after I die and then cry. Good luck w/scans [#cancersm](#)

♡ 1 1:11 AM - Jul 12, 2019



[See Sandra Spivey's other Tweets](#)



Janet Freeman-Daily ✓

@JFreemanDaily



Transcript for 11-Jul-2019 pancancer chat on "Basics of Biomarker Testing" is here: symplur.com/healthcare-has... [#cancersm](#) [#lcsm](#) [#bcsm](#) [#btsm](#) [#gynscsm](#) [#mmsm](#)

♡ 22 1:12 AM - Jul 12, 2019



#cancersm Healthcare Social Media ...

Transcript of the #cancersm healthcare social media hashtag.

symplur.com

[See Janet Freeman-Daily's other Tweets](#)



Timothy Craig Allen

@TimAllenMDJD



[#cancersm](#) FTW twitter.com/theNCI/status/...

National Cancer Institute ✓ @theNCI

Replying to @subatomicdoc @TimAllenMDJD

Good to be with y'all and with so many others. We are all learning together!

♡ 4 1:12 AM - Jul 12, 2019



[See Timothy Craig Allen's other Tweets](#)





Christina Lizaso @btrfly12 · Jul 12, 2019



Replying to @MyelomaTeacher and 4 others

I think Storify went away and now is Wakelet. Let's you pull the tweets together and arrange, weed out RTs etc. = Fancy, editable transcript. I did register [#cancersm](#) with [@healthhashtags](#) so should be available soon.



@MyelomaTeacher - Cindy Chmielewski

@MyelomaTeacher

Thanks I just signed on to [@sympur](#) and [#cancersm](#) wasn't available yet , I hope I remember to check back. Damn chemo-brain if I don't do things right away I forget to do them.

♡ 1 1:13 AM - Jul 12, 2019



[See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#) >



Christina Lizaso @btrfly12 · Jul 12, 2019



Replying to @MyelomaTeacher and 4 others

I think Storify went away and now is Wakelet. Let's you pull the tweets together and arrange, weed out RTs etc. = Fancy, editable transcript. I did register [#cancersm](#) with [@healthhashtags](#) so should be available soon.



Janet Freeman-Daily ✓

@JFreemanDaily

Thanks for registering the hashtag! Transcript for tonight's [#cancersm](#) chat is here:

sympur.com/healthcare-has...

♡ 5 1:13 AM - Jul 12, 2019



#cancersm Healthcare Social Media ...

Transcript of the [#cancersm](#) healthcare social media hashtag.

sympur.com

[See Janet Freeman-Daily's other Tweets](#) >



Timothy Craig Allen

@TimAllenMDJD



Let's do it again sometime! [#cancersm](#)
twitter.com/theNCI/status/...

National Cancer Institute  @theNCI

Replying to @SpiveySandra

Retweeting @JFreemanDaily:

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♡ 6 1:14 AM - Jul 12, 2019



 [See Timothy Craig Allen's other Tweets](#)



@MyelomaTeacher - Cindy Chmielewski

@MyelomaTeacher



[#cancersm](#) Healthcare Social Media Transcript July 11th 2019 [#MMSM](#) symplur.com/healthcare-has... via [@symplur](#)

♡ 2 1:15 AM - Jul 12, 2019



[#cancersm](#) Healthcare Social Media ...

Transcript of the [#cancersm](#) healthcare social media hashtag.

symplur.com

 [See @MyelomaTeacher - Cindy Chmielewski's other Tweets](#)



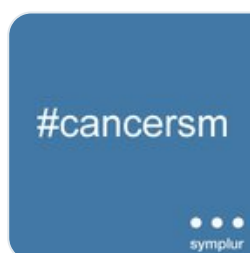
Christina Lizaso

@btrfly12



The numbers: 1,215 Tweets. 125 Participants. 12,183,129 Impressions. July 11th 2019. More [#cancersm](#)  here symplur.com/healthcare-has... via [@symplur](#) [#hcsn](#)

♡ 1 1:19 AM - Jul 12, 2019



[#cancersm](#) Healthcare Social Media ...

Top Influencers of the [#cancersm](#) healthcare social media hashtag.

symplur.com

 [See Christina Lizaso's other Tweets](#)



