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scalpcoolingstudies.com

Scalp Cooling Guide:

# Efficacy, Data and Cooling Times

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# Hair Retention Information

The hair retention graphs situated on each drug regimen page indicate the chance of the patient retaining 50% of their hair. 50% or more hair retention would be considered a successful outcome, though this can be subjective and dependent on the individual patient’s view.



**01**

Chance of 50% hair retention

**02**

Regimen dose

**03**

Amount of patients observed on this dosage in the Dutch Registry

**04**

Lowest and highest efficacy results within the drug regimen

## The Dutch Scalp Cooling Registry

The Dutch Registry is a library of data from multiple centres in the Netherlands, all of whom observe and track scalp cooling outcomes. The Registry began in 2006 and has collected over 7000 patients worth of information, which makes it the largest of its kind in the world.

The first paper on the data was published in 2012 assessing the outcomes of 1411 patients, with multiple updates since.

The Registry provides real world data that has allowed reliable and detailed indications of potential hair retention outcomes based on regimen and dosage.

The graphs shown within this document are based on the most recent observations from the Dutch Registry.

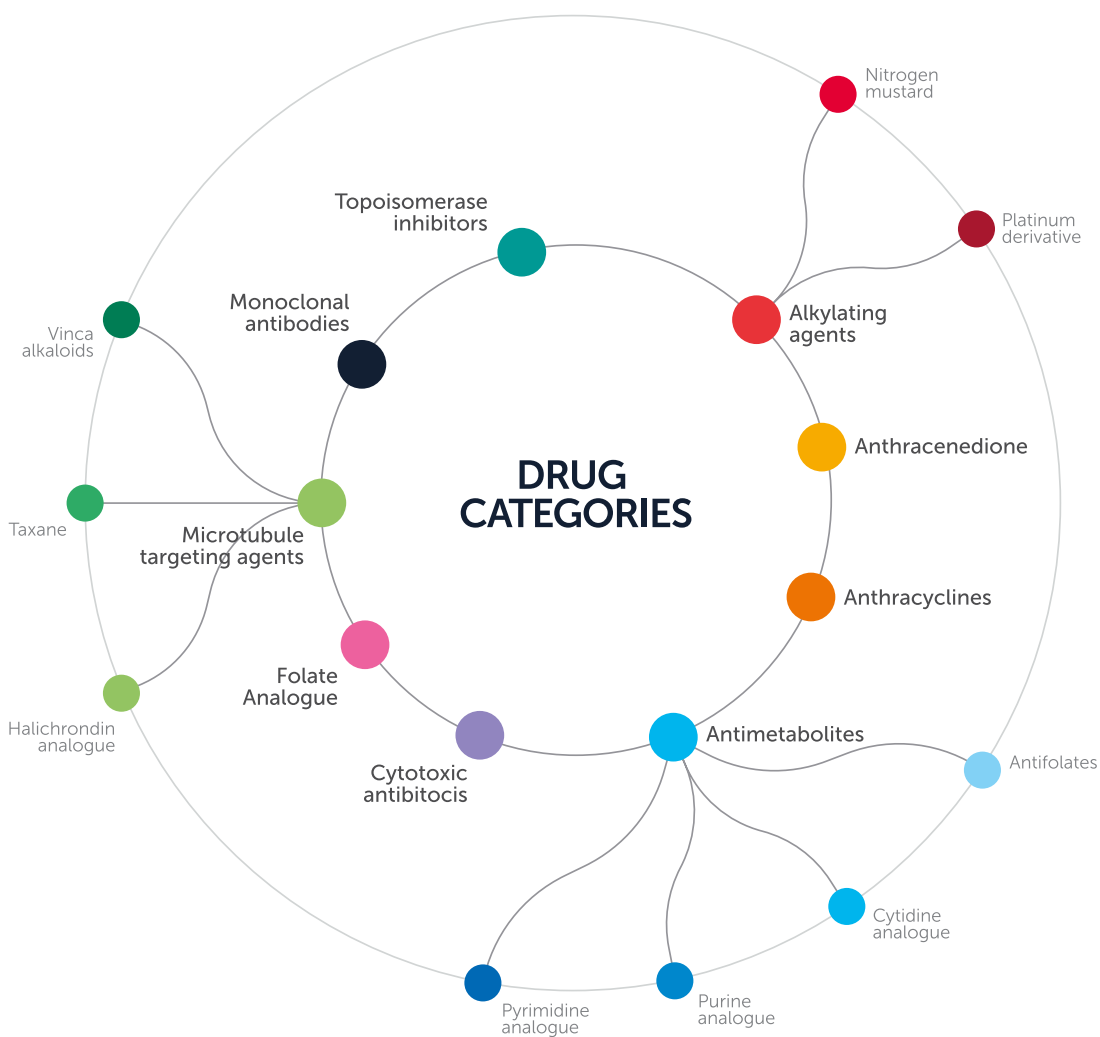
### Key retention indication observations

- Across all drug regimens, there is an average 56% chance of a patient retaining 50% of their hair when scalp cooling.
- Outcomes vary based on drug regimen – the best results are seen with taxane monotherapies, while some other categories of drug, including anthracycline regimens, are generally more challenging.
- The Registry identified dose effect relationship, which is outlined for each regimen through this guide.
- While the Registry represents a large quantity of real-world data, there are no guarantees with scalp cooling. This data should be treated as an indication of outcome, with the possibility that patients could see lower or higher rates of hair retention.

# Chemotherapy Drug Categories

There are many ways of categorising drugs but for the purpose of this guide, drugs have been categorised by mechanism of action. The drugs that are included in this guide fall in to the following categories, all of which are chemotherapy drugs with the exception of monoclonal antibodies, which are included as they are mentioned in some regimens.

The colours in the below graphic are utilised throughout the Guide to visually represent the different categories.



# Increased rate of hair regrowth with scalp cooling

**Scalp cooling has been clinically proven to increase the rate of hair regrowth.**

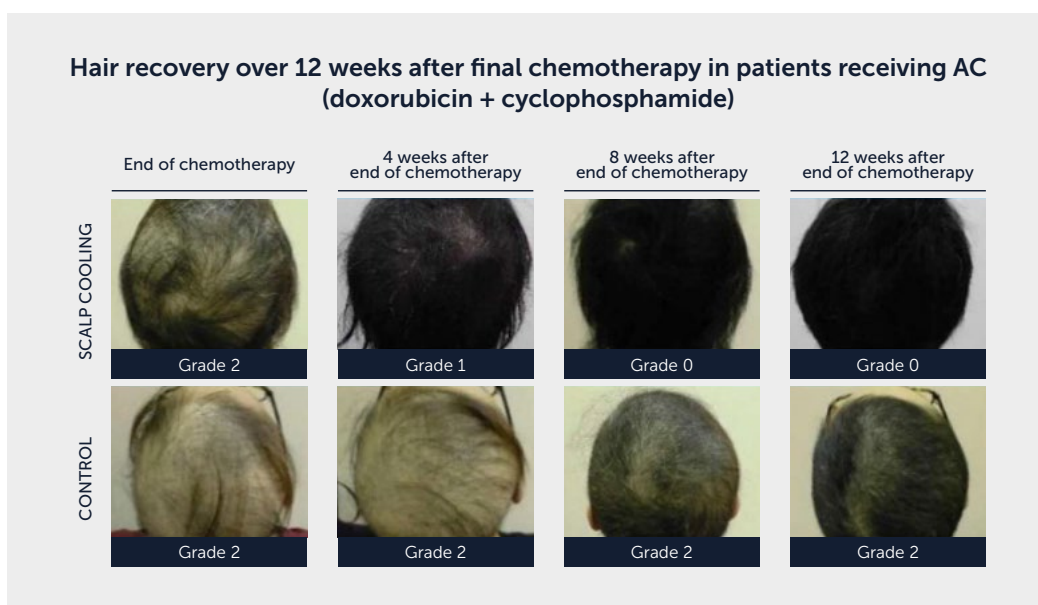
Patients who scalp cool show faster and healthier hair regrowth in comparison to those who don't scalp cool. **Faster regrowth is even seen in patients who sustain significant hair loss.**

Increased rates of regrowth, and the protection to the follicle that scalp cooling provides, are increasingly being cited by patients as motivation to scalp cool, in addition to hair retention.

**Emphasising the long-term benefits of scalp cooling is particularly important for:**

- Patients receiving regimens where retention rates are likely to be lower, for example those including anthracyclines.
- Patients who have sustained significant hair loss and are considering discontinuation of scalp cooling.

Images below illustrate the increased rates of hair regrowth shown in a trial setting, achieving Grade 0 alopecia and full hair density within 12 weeks of the end of chemotherapy treatment, something that occurred despite Grade 2 alopecia at the end of chemotherapy treatment.



Grading score was Grade 0 (no hair loss); Grade 1 (no wig needed, hair loss <50%). Alopecia defined as: Grade 2 (>50% hair loss, wig needed)

**13 patients were treated with AC (doxorubicin/cyclophosphamide). SC group: 8 patients (25%); control group: 5 patients (35.7%)**

## Further information

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### Managing chemotherapy-induced hair loss

Scalp cooling is the only clinically proven way of managing and reducing chemotherapy-induced alopecia (CIA). As demonstrated by the data shared in this Guide, efficacy varies based on drug regimen and dosage, but the majority of patients who choose to scalp cool would recommend the treatment to others, even if they don't achieve the hair retention they may have hoped for.

Managing patient expectation is a core part of successful scalp cooling experiences - the data shared here can help patients to have a realistic understanding of the outcomes they may be able to expect. Even with lower potential efficacy, many patients value scalp cooling as an addition to their treatment as it gives them a sense of control and can provide privacy while under going treatment.

Patients can see the same data that is shared in this Guide through the 'scalp cooling outcomes calculator' which can be found at [coldcap.com](http://coldcap.com)

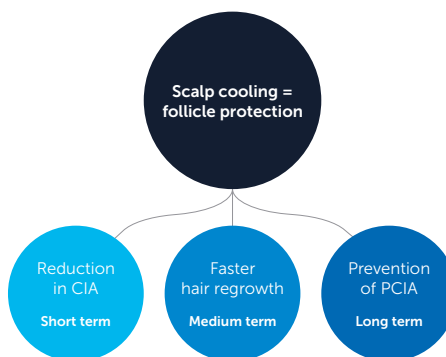
### Persistent Chemotherapy-Induced Alopecia

Persistent chemotherapy-induced alopecia (PCIA) is a long term life-altering side effect of high dose taxane regimens most commonly associated with a cumulative dosage of 400mg/m<sup>2</sup> or more of docetaxel. PCIA is predicted to affect between 10% and 30%\*(Bhoyrul et al) of breast cancer survivors, though it is believed to be underreported, and almost 50% of patients receiving a cumulative dosage of 400mg/m<sup>2</sup> of docetaxel or

more\*(Martin et al) Studies have shown that the protection provided to the hair follicles via scalp cooling is a highly effective way of preventing PCIA, which currently has no known cure.

### Hair Follicle Protection

Scalp cooling protects the hair follicle cells from long-term damage, thereby increasing the rate of hair recovery and preventing persistent alopecia, as well as helping to prevent hair loss caused by chemotherapy treatment



### Further Reading

For more clinical data on scalp cooling please visit [scalpcoolingstudies.com](http://scalpcoolingstudies.com)

For information on utilising the Paxman Scalp Cooling System, please refer to the Paxman Training Manual

For scalp cooling guidance and advice for patients, please visit [coldcap.com](http://coldcap.com)

To order Paxman patient education resources for your cancer centre free of charge, please fill in a form at [paxmanscalpcooling.com/order-forms](http://paxmanscalpcooling.com/order-forms)

# Drug Regimens

08	Cabazitaxel
09	Carboplatin + etoposide
10	Cisplatin
11	Cyclophosphamide + mitoxantrone + fluorouracil (5-FU)
12	Docetaxel
13	Docetaxel + doxorubicin + cyclophosphamide
14	Docetaxel + carboplatin
15	Docetaxel + cyclophosphamide
16	Docetaxel + cabazitaxel
17	Docetaxel + pemetrexed
18	Pegylated liposomal doxorubicin
19	Pegylated liposomal doxorubicin + carboplatin
20	Doxorubicin
21	Doxorubicin + bleomycin + vinblastine + dacarbazine
22	Doxorubicin + cyclophosphamide
23	Doxorubicin + cyclophosphamide + docetaxel
24	Doxorubicin + cyclophosphamide + docetaxel + trastuzumab
25	Doxorubicin + cyclophosphamide + paclitaxel
26	Epirubicin
27	Eribulin
28	Fluorouracil (5-FU) + doxorubicin + cyclophosphamide
29	Fluorouracil (5-FU) + doxorubicin + cyclophosphamide + docetaxel
30	Fluorouracil (5-FU) + epirubicin + cyclophosphamide
31	Fluorouracil (5-FU) + epirubicin + cyclophosphamide + docetaxel
32	Fluorouracil (5-FU) + epirubicin + cyclophosphamide + paclitaxel
33	Fluorouracil (5-FU) + folinic acid + irinotecan
34	Gemcitabine
35	Gemcitabine + carboplatin
36	Irinotecan
37	Methotrexate
38	Mitomycin
39	Mitomycin + cyclophosphamide
40	Paclitaxel
42	Paclitaxel + carboplatin
44	Pemetrexed
45	Vinorelbine

Drug Regimen

# Cabazitaxel

Abbreviation J

Trade Name Jevtana

Drug Category **Microtubule Targeting Agents (taxane)**

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*

Post-Cool 90 minutes

## Hair Retention



## Notes

### IMPORTANT TO NOTE: PERSISTENT ALOPECIA

We would recommend providing scalp cooling in conjunction with any chemotherapy regimen that includes Docetaxel/Taxotere to mitigate the risk of persistent alopecia. Continuation is important to maintain follicle protection delivered by cooling, even if patients sustain significant hair loss.

Drug Regimen

# Carboplatin + etoposide

Abbreviation EtoCar

Trade Name Paraplatin + Vepesid

Drug Category Topoisomerase Inhibitor + Alkylating Agent (platinum derivative)

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*

Post-Cool 90 minutes

## Hair Retention

Eto50Car6

57.14%

n=7

## Notes

Drug Regimen

# Cisplatin

Abbreviation

CIS

Trade Name

Platinol

Drug Category

Alykylating Agent (platinum derivative)

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention

Cisplatin 25-75

100%

n=5

## Notes

## Drug Regimen

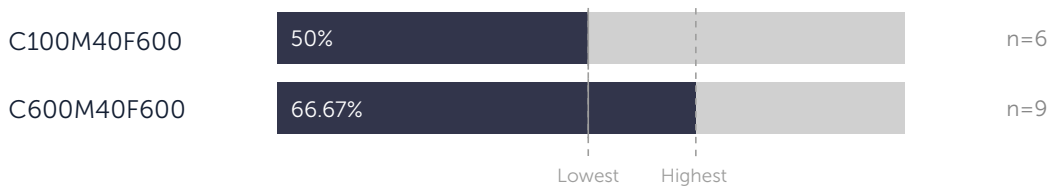
# Cyclophosphamide + mitoxantrone + fluorouracil (5-FU)

Abbreviation	CMF
Trade Name	Cytoxan + Novantrone + Adrucil
Drug Category	Alykylating Agent (platinum derivative) + Anthracenedione + Antimetabolite (pyrimidine analogue)

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention



## Notes

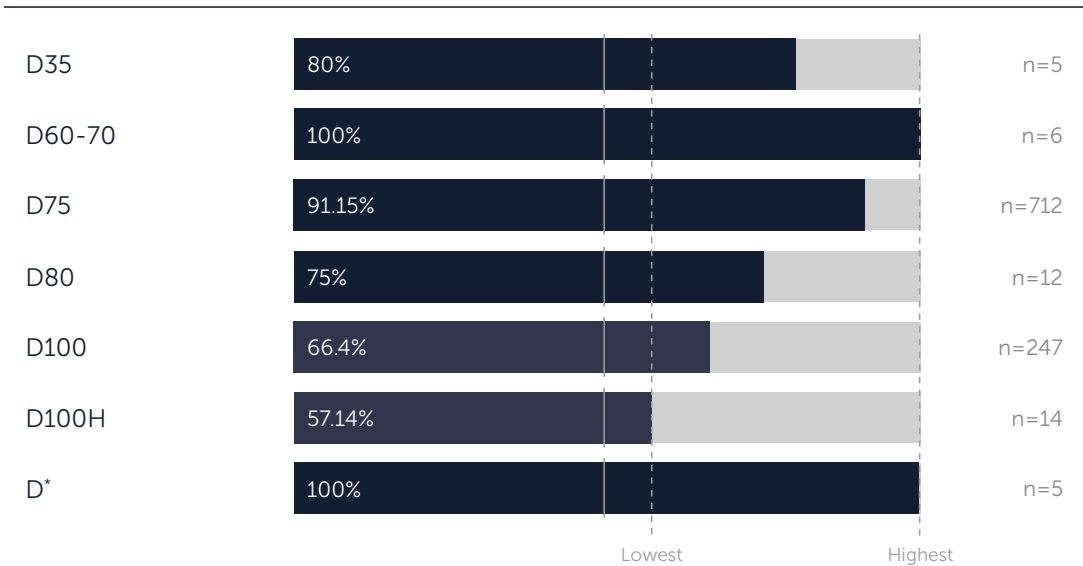
Drug Regimen

# Docetaxel

Abbreviation D  
Trade Name Taxotere  
Drug Category **Microtubule Targeting Agents (taxane)**

Cooling Times	
Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	20 minutes

## Hair Retention



## Notes

### IMPORTANT TO NOTE: PERSISTENT ALOPECIA

We would recommend providing scalp cooling in conjunction with any chemotherapy regimen that includes Docetaxel/Taxotere to mitigate the risk of persistent alopecia. Continuation is important to maintain follicle protection delivered by cooling, even if patients sustain significant hair loss.

## Drug Regimen

# Docetaxel + doxorubicin + cyclophosphamide

Abbreviation	DAC
Trade Name	Taxotere + Adriamycin + Cytosan
Drug Category	Microtubule Targeting Agents (taxane) + Anthracycline + Alkylating Agent (nitrogen mustard)

### Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

### Hair Retention

D75A50C500

6.83%

n=161

### Notes

#### **IMPORTANT TO NOTE: INCREASED REGROWTH FROM SCALP COOLING**

Scalp cooling has been clinically proven to increase hair regrowth rates. This is particularly important to emphasize for patients who are on regimens that may result in lower levels of hair retention, to encourage continuation.

## Drug Regimen

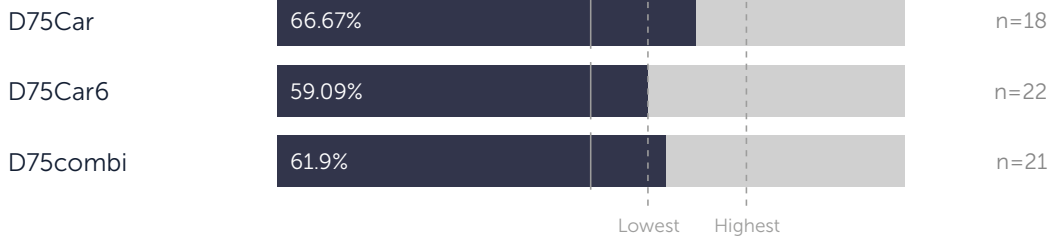
# Docetaxel + carboplatin

Abbreviation	DCar
Trade Name	Taxotere + Paraplatin
Drug Category	Microtubule Targeting Agents (taxane) + Alkylating Agent (platinum derivative)

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention



## Notes

### IMPORTANT TO NOTE: PERSISTENT ALOPECIA

We would recommend providing scalp cooling in conjunction with any chemotherapy regimen that includes Docetaxel/Taxotere to mitigate the risk of persistent alopecia. Continuation is important to maintain follicle protection delivered by cooling, even if patients sustain significant hair loss.

## Drug Regimen

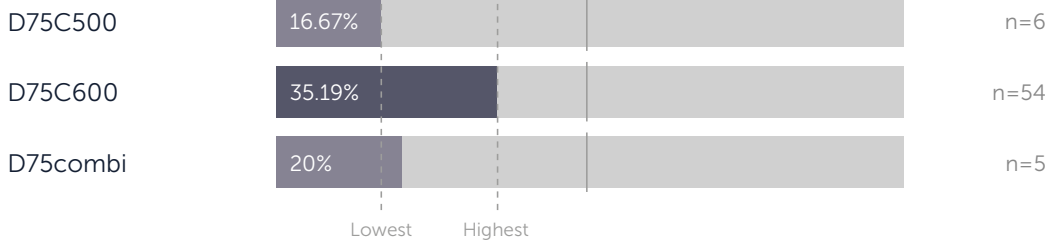
# Docetaxel + cyclophosphamide

Abbreviation	TC
Trade Name	Taxotere + Cytosan
Drug Category	Microtubule Targeting Agents (taxane) + Alkylating Agent (nitrogen mustard)

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention



## Notes

### IMPORTANT TO NOTE: PERSISTENT ALOPECIA

We would recommend providing scalp cooling in conjunction with any chemotherapy regimen that includes Docetaxel/Taxotere to mitigate the risk of persistent alopecia. Continuation is important to maintain follicle protection delivered by cooling, even if patients sustain significant hair loss.

Drug Regimen

# Docetaxel + cabazitaxel

Abbreviation TCbz  
Trade Name Taxotere + Jevtana  
Drug Category Microtubule Targeting Agents (taxane) +  
Microtubule Targeting Agents (taxane)

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention

D75	<div style="width: 100%;"><div style="width: 100%;"></div></div>	n=6
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## Notes

Drug Regimen

# Docetaxel + pemetrexed

Abbreviation DPerH  
Trade Name Taxotere + Alimta  
Drug Category Microtubule Targeting Agents (taxane) + Antimetabolite (antifolate) + Monoclonal Antibody

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*  
Post-Cool 90 minutes

## Hair Retention

D75Per425H

100%

n=7

## Notes

Drug Regimen

# Pegylated liposomal doxorubicin

Abbreviation           Cae  
Trade Name            Doxil/Caelyx  
Drug Category         Anthracycline

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention

Cae30-50	100%	n=20
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## Notes

Drug Regimen

# Pegylated liposomal doxorubicin + carboplatin

Abbreviation            CaeCar  
Trade Name            Doxil/Caelyx + Paraplatin  
Drug Category        Anthracycline + Alkylating Agent (platinum derivative)

Cooling Times	
Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention

Cae30Car5	100%	n=6
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## Notes



Drug Regimen

# Doxorubicin + bleomycin + vinblastine + dacarbazine

Abbreviation ABVDac  
Trade Name Adriamycin + Blenoxane + Velban + DTIC-Dome  
Drug Category Anthracycline + Cytotoxic Antibiotic +  
Microtubule Targeting Agents (vinca alkaloid) +  
Alkylating Agent (platinum derivative)

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*  
Post-Cool 90 minutes

## Hair Retention

A25BVDac

100%

n=5

## Notes

### IMPORTANT TO NOTE: INCREASED REGROWTH FROM SCALP COOLING

Scalp cooling has been clinically proven to increase hair regrowth rates. This is particularly important to emphasize for patients who are on regimens that may result in lower levels of hair retention, to encourage continuation.

Drug Regimen

# Doxorubicin + cyclophosphamide

Abbreviation AC  
Trade Name Adriamycin + Cytosan  
Drug Category Anthracycline + Alkylating Agent (nitrogen mustard)

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*  
Post-Cool 90 minutes

## Hair Retention

A60C600 38.43% n=700



## Notes

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Scalp cooling has been clinically proven to increase hair regrowth rates. This is particularly important to emphasize for patients who are on regimens that may result in lower levels of hair retention, to encourage continuation.

Drug Regimen

# Doxorubicin + cyclophosphamide + docetaxel

Abbreviation AC-T  
Trade Name Adriamycin + Cytoxan + Taxotere  
Drug Category Anthracycline + Alkylating Agent (nitrogen mustard) + Microtubule Targeting Agents (taxane)

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*  
Post-Cool 90 minutes

## Hair Retention

A60C600D100

32.32%

n=99

## Notes

## Drug Regimen

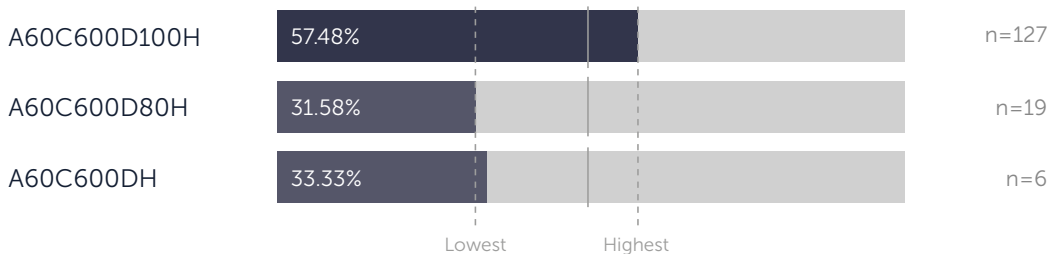
# Doxorubicin + cyclophosphamide + docetaxel + trastuzumab

Abbreviation	ACTH
Trade Name	Adriamycin + Cytoxan + Taxotere + Herceptin
Drug Category	Anthracycline + Alkylating Agent (nitrogen mustard) + Microtubule Targeting Agents (taxane) + Monoclonal Antibody

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention



## Notes

### IMPORTANT TO NOTE: INCREASED REGROWTH FROM SCALP COOLING

Scalp cooling has been clinically proven to increase hair regrowth rates. This is particularly important to emphasize for patients who are on regimens that may result in lower levels of hair retention, to encourage continuation.

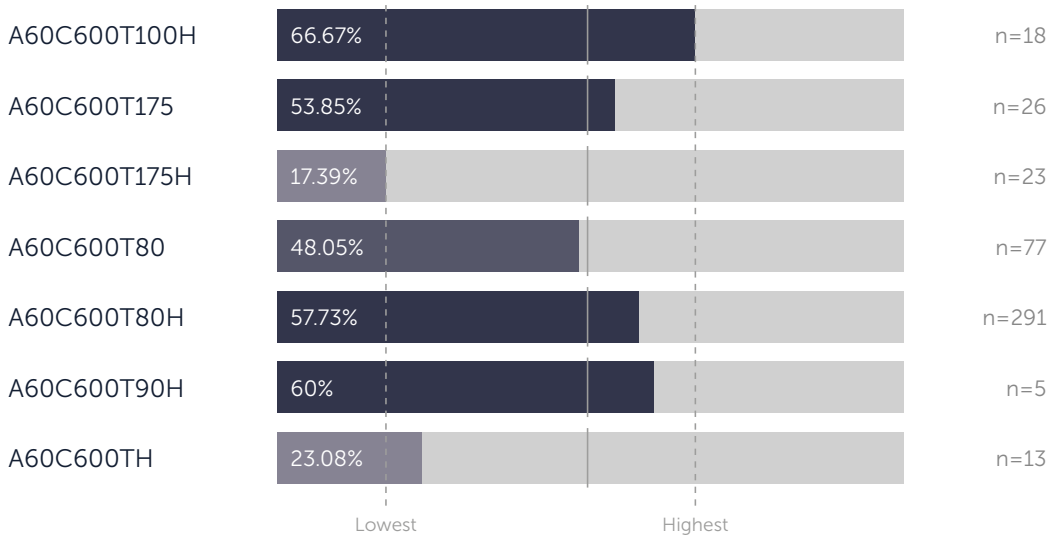
Drug Regimen

# Doxorubicin + cyclophosphamide + paclitaxel

Abbreviation ACT-T  
 Trade Name Adriamycin + Cytosan + Taxol  
 Drug Category Anthracycline + Alkylating Agent (nitrogen mustard) + Microtubule Targeting Agents (taxane)

Cooling Times	
Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention



## Notes

### IMPORTANT TO NOTE: INCREASED REGROWTH FROM SCALP COOLING

Scalp cooling has been clinically proven to increase hair regrowth rates. This is particularly important to emphasize for patients who are on regimens that may result in lower levels of hair retention, to encourage continuation.

Drug Regimen

# Epirubicin

Abbreviation E  
Trade Name Ellence  
Drug Category Anthracycline

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*  
Post-Cool 90 minutes

## Hair Retention



## Notes

### IMPORTANT TO NOTE: INCREASED REGROWTH FROM SCALP COOLING

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Drug Regimen

# Eribulin

Abbreviation

Eri

Trade Name

Halaven

Drug Category

Microtubule Targeting Agents (halichondrin analogue)

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*

Post-Cool 90 minutes

## Hair Retention



## Notes

Drug Regimen

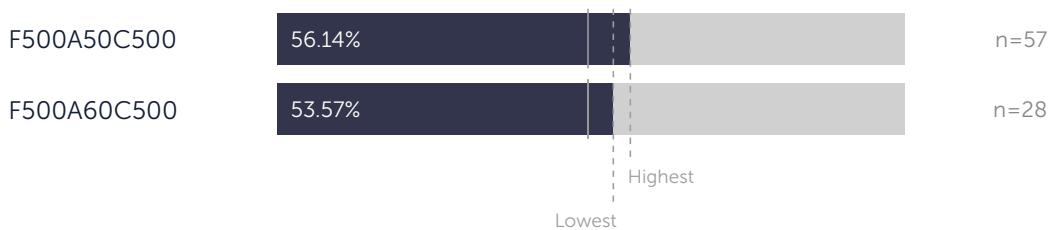
# Fluorouracil (5-FU) + doxorubicin + cyclophosphamide

Abbreviation FAC  
Trade Name Adrucil + Adriamycin + Cytosan  
Drug Category Antimetabolite (pyrimidine analogue) + Anthracycline + Alkylating Agent (nitrogen mustard)

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*  
Post-Cool 90 minutes

## Hair Retention



## Notes

### IMPORTANT TO NOTE: INCREASED REGROWTH FROM SCALP COOLING

Scalp cooling has been clinically proven to increase hair regrowth rates. This is particularly important to emphasize for patients who are on regimens that may result in lower levels of hair retention, to encourage continuation.

## Drug Regimen

# Fluorouracil (5-FU) + doxorubicin + cyclophosphamide + docetaxel

Abbreviation	--
Trade Name	Adrucil + Adriamycin + Cytoxan + Taxotere
Drug Category	Antimetabolite (pyrimidine analogue) + Anthracycline + Alkylating Agent (nitrogen mustard) + Microtubule Targeting Agents (taxane)

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention

F500-600A50- 60C500-600D100		n=8
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## Notes

### IMPORTANT TO NOTE: INCREASED REGROWTH FROM SCALP COOLING

Scalp cooling has been clinically proven to increase hair regrowth rates. This is particularly important to emphasize for patients who are on regimens that may result in lower levels of hair retention, to encourage continuation.

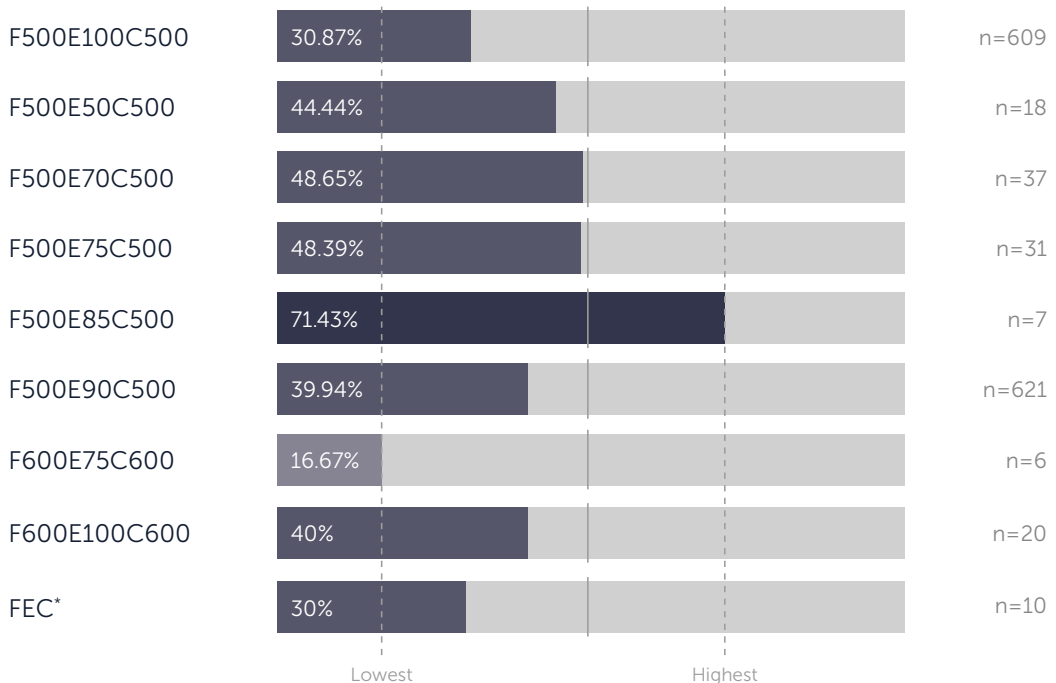
Drug Regimen

# Fluorouracil (5-FU) + epirubicin + cyclophosphamide

Abbreviation                   FEC  
Trade Name                    Adrucil + Ellence + Cytosan  
Drug Category                Antimetabolite (pyrimidine analogue) + Anthracycline + Alkylating Agent (nitrogen mustard)

Cooling Times	
Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention



## Notes

## Drug Regimen

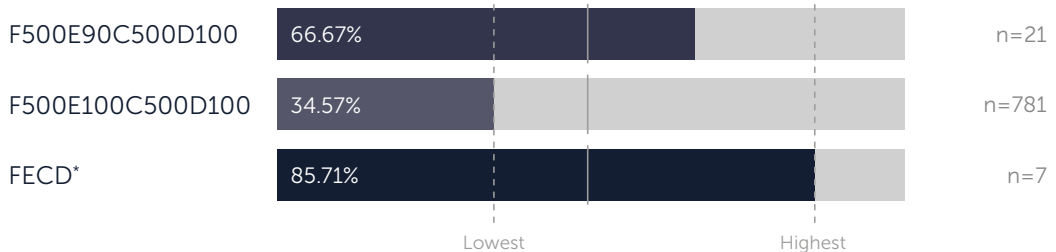
# Fluorouracil (5-FU) + epirubicin + cyclophosphamide + docetaxel

Abbreviation           FEC-D  
Trade Name            Adrucil + Ellence + Cytoxan + Taxotere  
Drug Category        Antimetabolite (pyrimidine analogue) +  
                          Anthracycline + Alkylating Agent (nitrogen mustard) +  
                          Microtubule Targeting Agents (taxane)

## Cooling Times

Pre-Cool               30 minutes *(For thicker hair, pre-cool for 45 minutes)*  
Post-Cool              90 minutes

## Hair Retention



## Notes

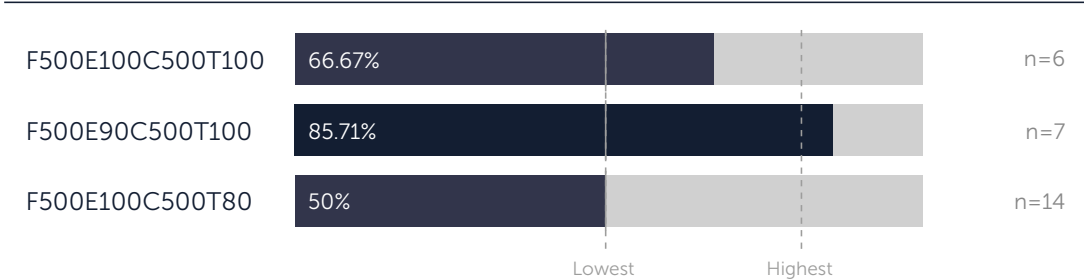
Drug Regimen

# Fluorouracil (5-FU) + epirubicin + cyclophosphamide + paclitaxel

Abbreviation           FEC-T  
Trade Name            Adrucil + Ellence + Cytoxan + Taxol  
Drug Category        Antimetabolite (pyrimidine analogue) +  
                          Anthracycline + Alkylating Agent (nitrogen mustard) +  
                          Microtubule Targeting Agents (taxane)

Cooling Times	
Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention



## Notes

Drug Regimen

# Fluorouracil (5-FU) + folinic acid + irinotecan

Abbreviation	FOLFIRI
Trade Name	Adrucil + Leucovorin + Campto
Drug Category	Antimetabolite (pyrimidine analogue) + Folate analogue + Topoisomerase inhibitor

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention

F400Irino180Fol400	 66.67%	n=6
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## Notes

Drug Regimen

# Gemcitabine

Abbreviation	Gem
Trade Name	Gemzar
Drug Category	Antimetabolite (cytidine analogue)

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention

Gem1000		n=14
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## Notes

Drug Regimen

# Gemcitabine + carboplatin

Abbreviation	GemCar
Trade Name	Gemzar + Paraplatin
Drug Category	Antimetabolite (cytidine analogue) + Alkylating Agent (platinum derivative)

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention



## Notes

Drug Regimen

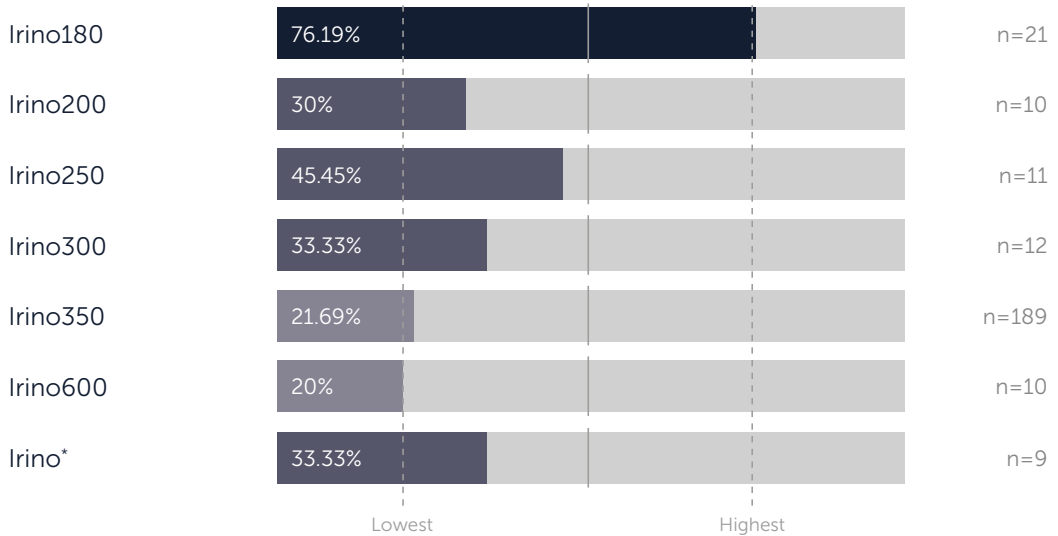
# Irinotecan

Abbreviation I  
Trade Name Campto  
Drug Category **Topoisomerase inhibitor**

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*  
Post-Cool 90 minutes

## Hair Retention



## Notes

Drug Regimen

# Methotrexate

Abbreviation	Mtx
Trade Name	Trexall
Drug Category	Antifolate

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention

Mtx10-30	100%	n=10
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## Notes

Drug Regimen

# Mitomycin c

Abbreviation	Myo
Trade Name	Mitosol
Drug Category	Cytotoxic Antibiotic

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention



## Notes

Drug Regimen

# Mitomycin c + cyclophosphamide

Abbreviation MC  
Trade Name Mitosol + Cytosan  
Drug Category Cytotoxic Antibiotic + Alkylating Agent (nitrogen mustard)

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*  
Post-Cool 90 minutes

## Hair Retention

Myo60C600  n=6

Regimen	Retention (%)	n
Myo60C600	33.33%	6

## Notes

Drug Regimen

# Paclitaxel

Abbreviation T

Trade Name Taxol

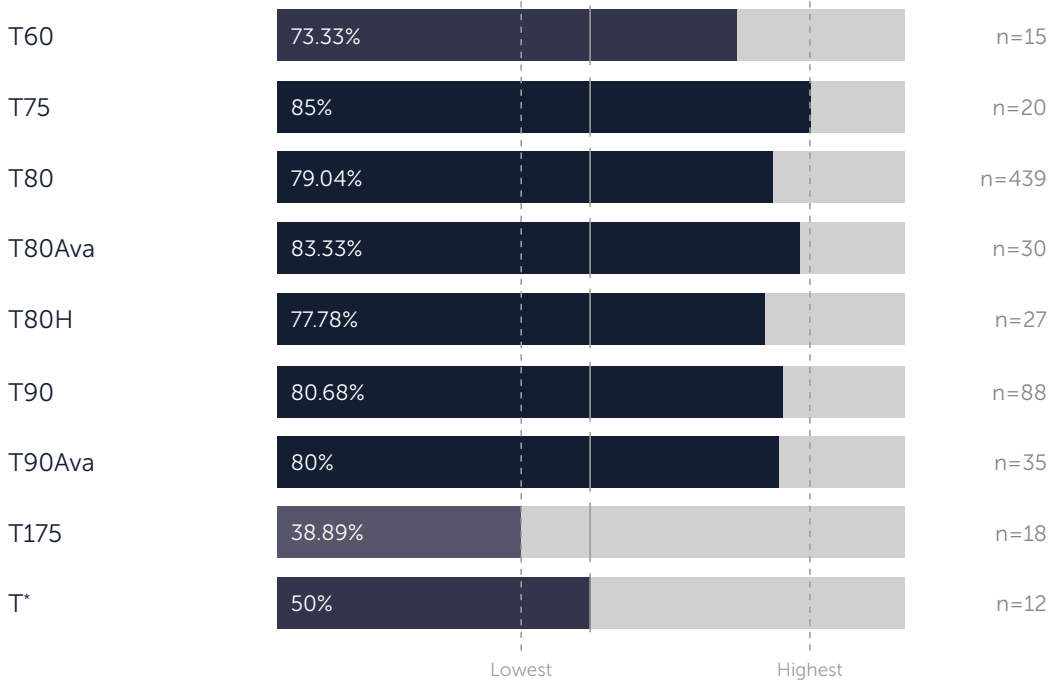
Drug Category **Microtubule Targeting Agents (taxane)**

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*

Post-Cool Weekly - 60 Minutes / 3 Weekly - 90 minutes

## Hair Retention



Drug Regimen

# Paclitaxel

Notes



**IMPORTANT TO NOTE: PERSISTENT ALOPECIA**

We would recommend providing scalp cooling in conjunction with any chemotherapy regimen that includes Docetaxel/Taxotere to mitigate the risk of persistent alopecia. Continuation is important to maintain follicle protection delivered by cooling, even if patients sustain significant hair loss.

Drug Regimen

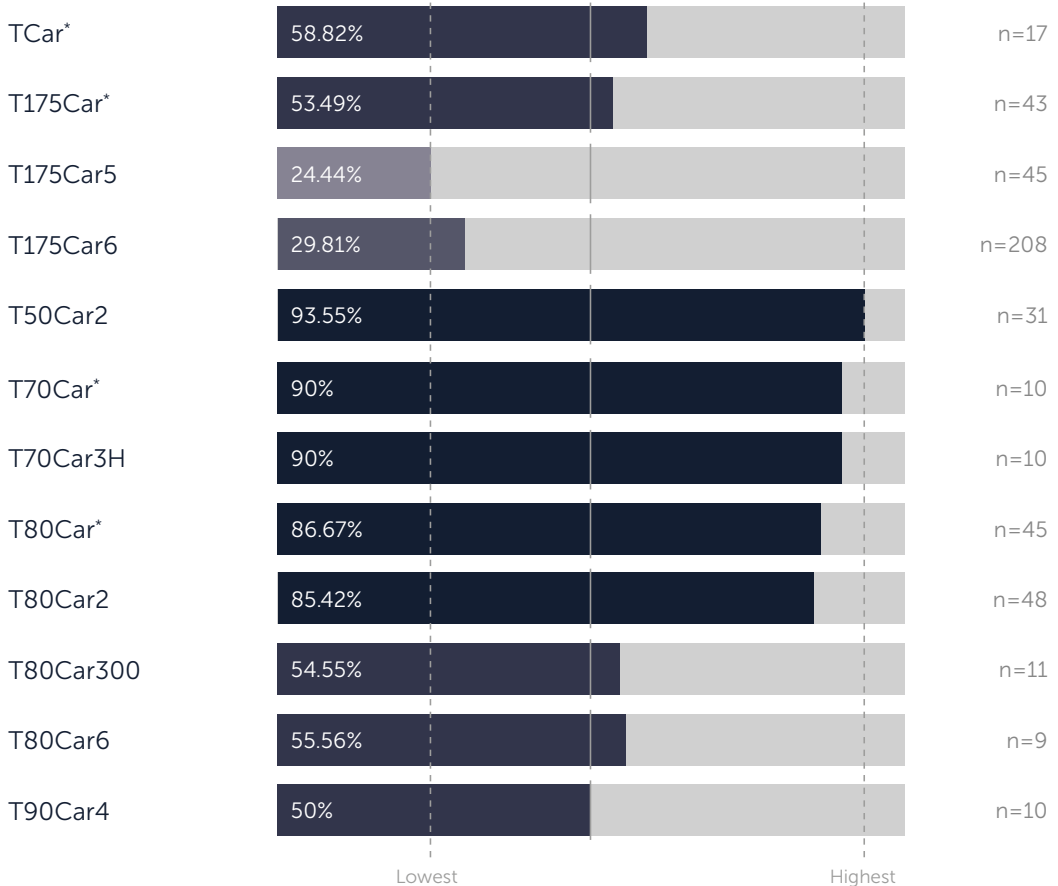
# Paclitaxel + carboplatin

Abbreviation	TCar
Trade Name	Taxol + Paraplatin
Drug Category	Microtubule Targeting Agents (taxane) + Alkylating Agent (platinum derivative)

## Cooling Times

Pre-Cool	30 minutes <i>(For thicker hair, pre-cool for 45 minutes)</i>
Post-Cool	90 minutes

## Hair Retention



Drug Regimen

# Paclitaxel + carboplatin

Notes

**IMPORTANT TO NOTE: PERSISTENT ALOPECIA**

We would recommend providing scalp cooling in conjunction with any chemotherapy regimen that includes Docetaxel/Taxotere to mitigate the risk of persistent alopecia. Continuation is important to maintain follicle protection delivered by cooling, even if patients sustain significant hair loss.

Drug Regimen

# Pemetrexed

Abbreviation PemC

Trade Name Alimta

Drug Category Antifolate

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*

Post-Cool 90 minutes

## Hair Retention

Pem500Car350

100%

n=5

## Notes

Drug Regimen

# Vinorelbine

Abbreviation Vino

Trade Name Navelbine

Drug Category **Microtubule Targeting Agents (vinca alkaloid)**

## Cooling Times

Pre-Cool 30 minutes *(For thicker hair, pre-cool for 45 minutes)*

Post-Cool 90 minutes

## Hair Retention



## Notes