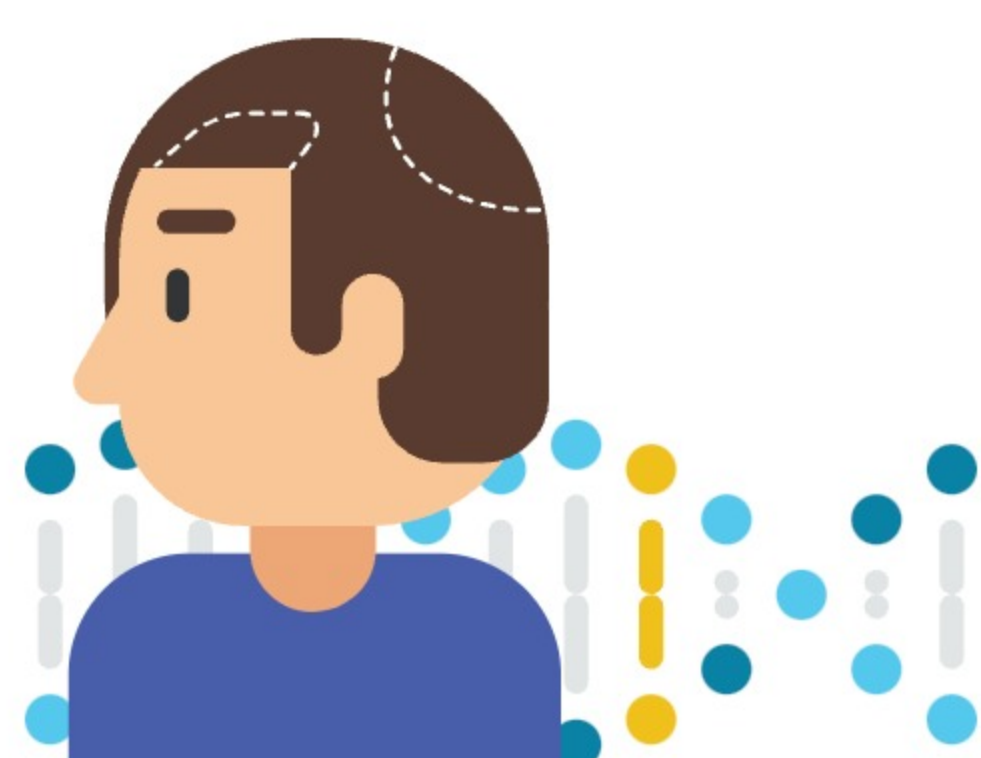


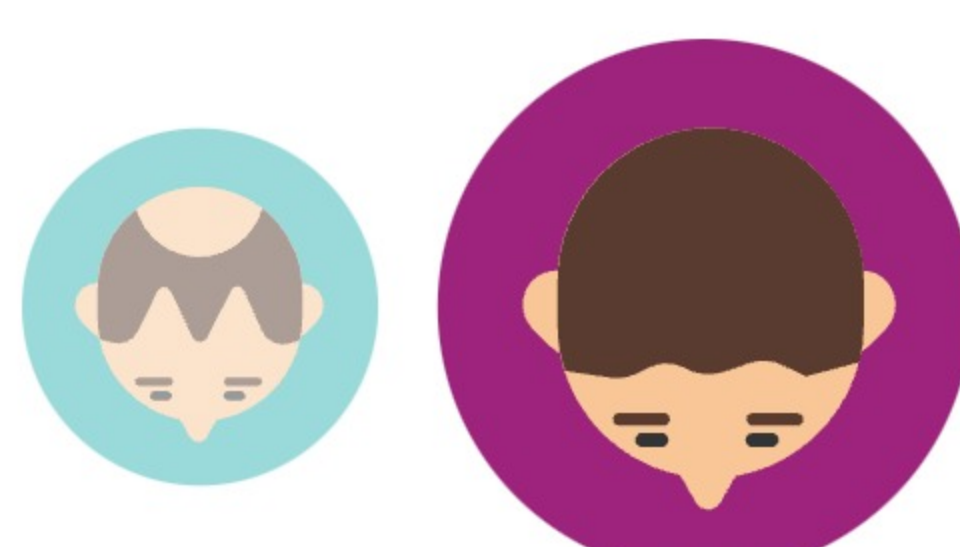
Bald Spot

Overview Scientific Details



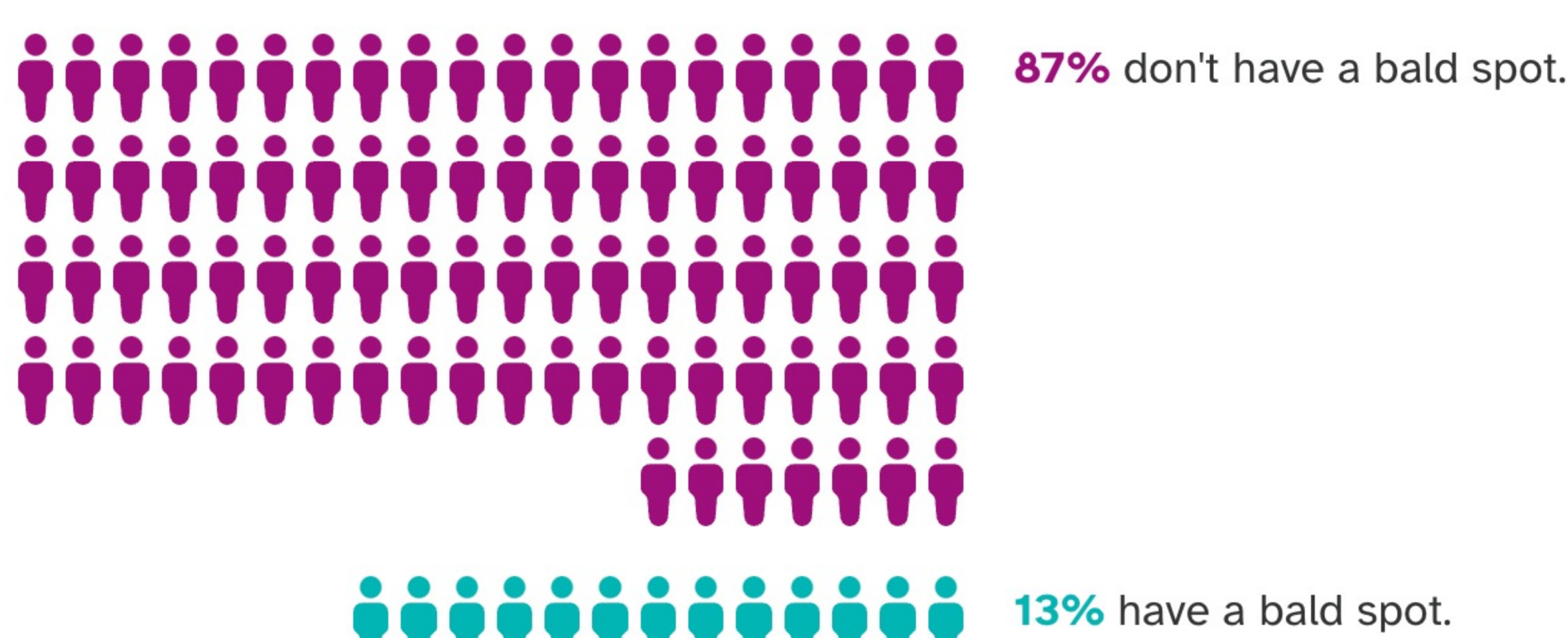
Not all balding is created equal

Ever noticed how some people lose hair at their temples, while others lose at the top of their heads? If you go bald, genetics plays a role in the pattern yours follows.



Jamie, the combination of your genetics and other factors makes you **unlikely to have a bald spot.**

Of 23andMe research participants with results like yours:

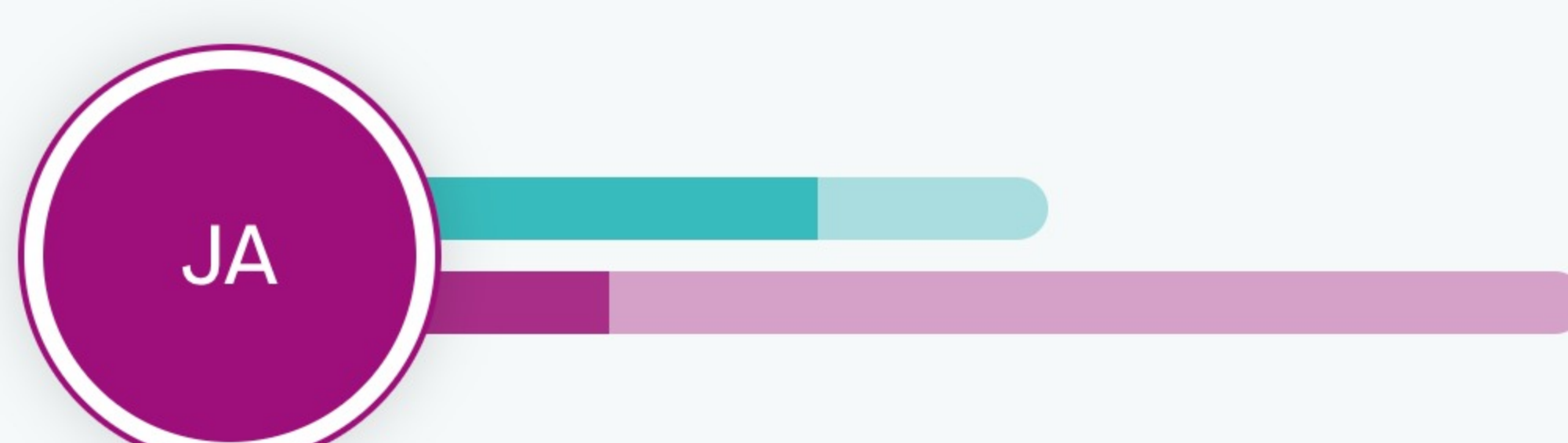


→ Do you have a bald spot?

How did we calculate your result?

We added up the effect of your genetic variants at 9 places in your DNA (genetic markers) plus the effect of other factors, including your age.

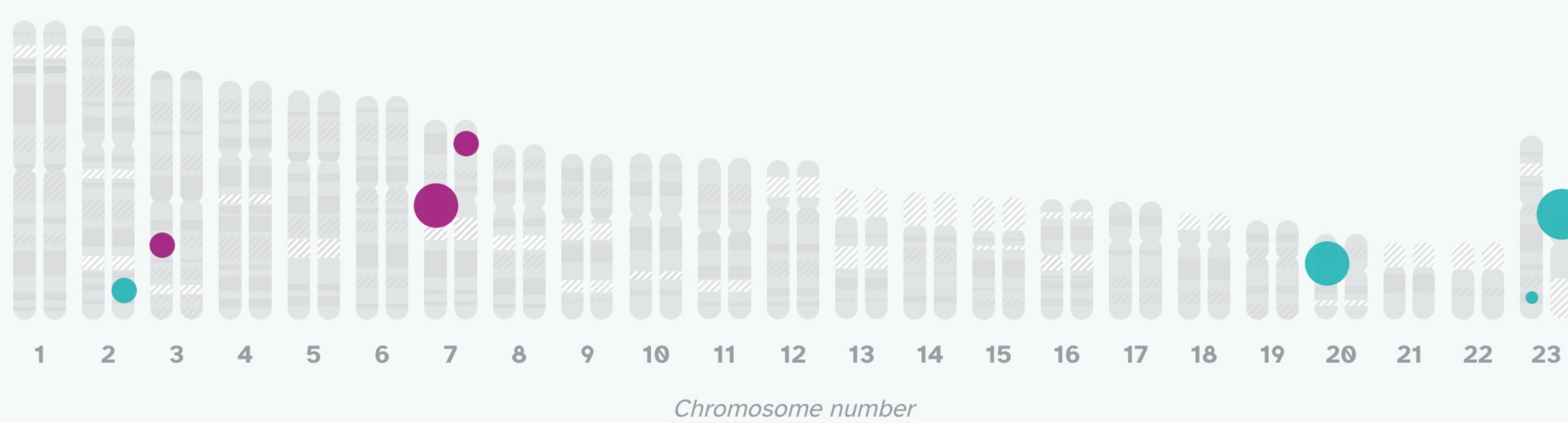
Total effect of your genetics + other factors



YOUR GENETICS		OTHER FACTORS	
●	more likely	●	
●	less likely	●	

Breakdown of your genetics

The bigger the circle, the stronger the effect your variants have on your overall chances.



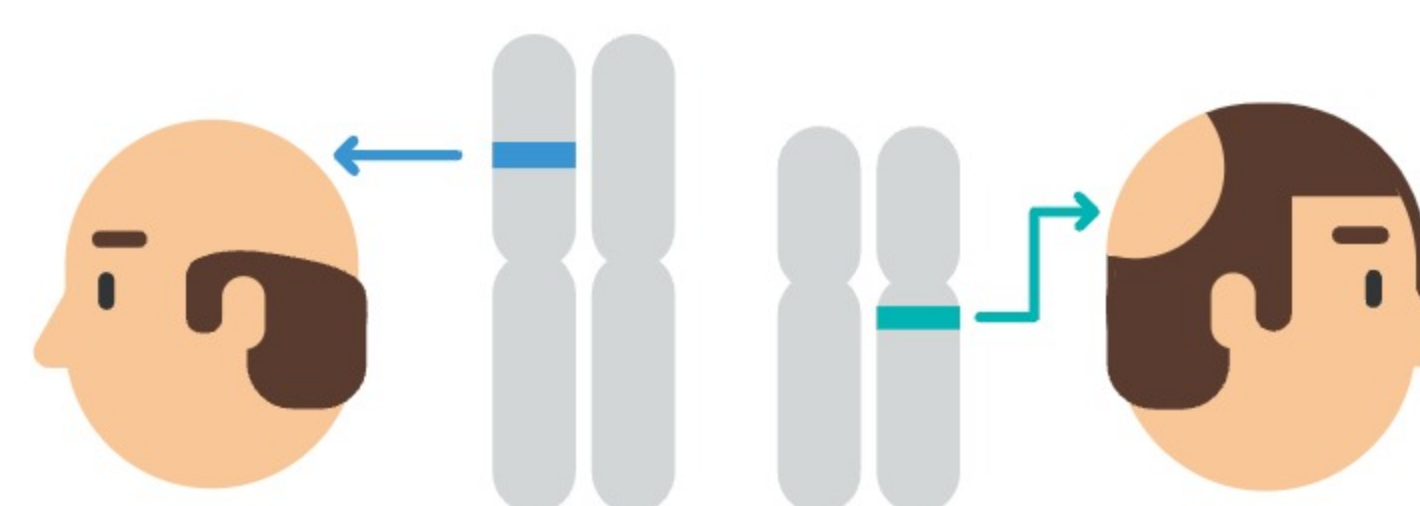
At 3 of the genetic markers we looked at you have variants that make you less likely to have a bald spot, and at 4 you have variants that make you more likely. At 2 of the markers that we looked at, you have variants with no effect either way (not shown).

See Scientific Details

More about balding patterns

Genetics of hair loss patterns

Research shows that the timing, severity, and patterns of hair loss that males experience is controlled by distinct genetic factors. Research at 23andMe found that the presence of any hair loss and the appearance of the bald spot pattern it takes are generally linked to different genes and genetic variants. Check out your Early Hair Loss report to learn more.



Ancient treatments for balding

People have been burdened with baldness for thousands of years. Ancient Egyptian medical texts, like the Ebers Papyrus, describe treatments for baldness that seem outrageous by today's medical standards. One remedy included an ointment made by mixing together the fats of a lion, a hippopotamus, a crocodile, a cat, a serpent, and an Egyptian goat. For best results, this ointment was applied directly to the balding head.



Keep exploring your Traits results.

Contribute

Join the research effort and contribute to new discoveries.

Compare

Compare your results to your family and friends.

Discuss

Join the discussion with other 23andMe customers interested in Traits.

Did you find this interesting?



Give the gift of DNA discovery.

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Refer friends, earn rewards.

Get reward

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- Your Connections
- GrandTree
- Advanced DNA Comparison

Bald Spot

Overview **Scientific Details**

We use one of two different methods to calculate your trait results.

Statistical Model

Most traits are influenced by many different factors, including genetics, lifestyle, and environment. Usually, a statistical model using many factors provides better predictions than looking at single factors by themselves. To develop our models, we first identify genetic markers associated with a trait using data from tens of thousands of 23andMe customers who have consented to research. Then, we use statistical methods to generate a "score" for that trait using your genotype at the relevant genetic markers as well as your age and sex. We predict your likelihood of having different versions of the trait based on the survey responses of 23andMe customers with similar scores. These predictions apply best to customers who are of the same ethnicity as the people whose data contributed to the model. The accuracy of these predictions varies from trait to trait.

[Read more about our statistical methodology](#)

Curated Model

For some traits, just a few genetic markers can strongly predict whether a person will have a particular version of the trait. For curated models, we first evaluate published scientific studies to identify genetic markers with well-established associations with the trait. Then, we look at genetic and survey data from tens of thousands of 23andMe customers who have consented to research. We estimate your likelihood of having different versions of the trait based on survey responses from customers who are genetically similar to you at those markers. These results apply best to customers who are of the same ethnicity as the people whose data contributed to the predictions.

About your Bald Spot result

Your result for this trait was calculated using a **statistical model**.

About the Bald Spot model

Created based on customers of ethnicity: **European**

Number of customers used to create: **20,000**

Number of markers: **9**

Area Under Curve (AUC): **0.673**

Non-genetic factors: **Age**

Bin #	No bald spot	Bald spot
1	47.77%	52.23%
2	50.24%	49.76%
3	49.48%	50.52%
4	54.99%	45.01%
5	57.74%	42.26%
6	59.26%	40.74%
7	60.78%	39.22%
8	60.97%	39.03%
9	61.16%	38.84%
10	65.81%	34.19%
11	67.43%	32.57%
12	67.90%	32.10%
13	70.56%	29.44%
14	71.77%	28.23%
15	77.19%	22.81%
16	77.57%	22.43%
17	81.65%	18.35%
18	84.03%	15.97%
JA 19	86.69%	13.31%
20	92.02%	7.98%
Overall European	67.24%	32.76%

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- Hagenaars SP et al. (2017). "Genetic prediction of male pattern baldness." PLoS Genet. 13(2):e1006594. ^
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- Heilmann-Heimbach S et al. (2016). "Hunting the genes in male-pattern alopecia: how important are they, how close are we and what will they tell us?" Exp Dermatol. 25(4):251-7. ^
- Heilmann-Heimbach SC et al. (2017). "Meta-Analysis Identifies Novel Risk Loci and Yields Systematic Insights into the Biology of Male-Pattern Baldness." Nat Commun 8(March):14694. ^
- Nyholt DR et al. (2003). "Genetic basis of male pattern baldness." J Invest Dermatol. 121(6):1561-4. ^

Change Log

Your report may occasionally be updated based on new information. This Change Log describes updates and revisions to this report.

Date	Change
Dec. 15, 2017	Bald Spot report updated with revised content and design. Additionally, as part of regular report review and improvements in data analysis, some male customers may see an updated result.
June 22, 2017	Bald Spot report separated from the Hair report.
Oct. 21, 2015	Hair report created.



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