

Cheryl Haynes - Early menarche

From: Lisa Kilburn
To: Alvin Nguyen; Arielle Villanueva; Benison Mangel; Carl McDonald; Che...
Date: 12/8/2020 5:12 PM
Subject: Early menarche

Dear All,

At didactics on Friday the question was raised "Why are African American girls undergoing menarche at an earlier age, particularly in comparison to girls from other races?" Many factors have been investigated. The correlation between higher childhood BMI and earlier menarche seems pretty consistent across studies. The correlation between socioeconomic status and age at menarche is much less consistent across studies.

This figure, https://www.mdpi.com/ijerph/ijerph-17-01703/article_deploy/html/images/ijerph-17-01703-g003.png, is the best summary I have found of all the factors that have been correlated with earlier versus later menarche. The figure is from citation #2 listed below.

Listed below are the articles Chelsea and I found on the topic. Please let me know if you would like to read any of the articles full-text.

Best wishes,
Lisa

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PubMed Results

Items 1-23 of 23 ([Display the 23 citations in PubMed](#))

1. [Nutrient Intake through Childhood and Early Menarche Onset in Girls: Systematic Review and Meta-Analysis.](#)

Nguyen NTK, Fan HY, Tsai MC, Tung TH, Huynh QTV, Huang SY, Chen YC.

Nutrients. 2020 Aug 22;12(9):2544. doi: 10.3390/nu12092544.

PMID: 32842616 **Free PMC article.**

2. [A Systematic Literature Review of Factors Affecting the Timing of Menarche: The Potential for Climate Change to Impact Women's Health.](#)

Canelón SP, Boland MR.

Int J Environ Res Public Health. 2020 Mar 5;17(5):1703. doi: 10.3390/ijerph17051703.

PMID: 32150950 **Free PMC article.**

3. [Adverse Childhood Experiences and Early Pubertal Timing Among Girls: A Meta-Analysis.](#)

Zhang L, Zhang D, Sun Y.

Int J Environ Res Public Health. 2019 Aug 13;16(16):2887. doi: 10.3390/ijerph16162887.

PMID: 31412531 **Free PMC article.**

4. [The genetic underpinnings of variation in ages at menarche and natural menopause among women from the multi-ethnic Population Architecture using Genomics and Epidemiology \(PAGE\) Study: A trans-ethnic meta-analysis.](#)

Fernández-Rhodes L, Malinowski JR, Wang Y, Tao R, Pankratz N, Jeff JM, Yoneyama S, Carty CL, Setiawan VW, Le Marchand L, Haiman C, Corbett S, Demerath E, Heiss G, Gross M, Buzkova P, Crawford DC, Hunt SC, Rao DC, Schwander K, Chakravarti A, Gottesman O, Abul-Husn NS, Bottinger EP, Loos RJF, Raffel LJ, Yao J, Guo X, Bielinski SJ, Rotter JI, Vaidya D, Chen YI, Castañeda SF, Daviglus M, Kaplan R, Talavera GA, Ryckman KK, Peters U, Ambite JL, Buyske S, Hindorff L, Kooperberg C, Matisse T, Franceschini N, North KE.

PLoS One. 2018 Jul 25;13(7):e0200486. doi:

10.1371/journal.pone.0200486. eCollection 2018.

PMID: 30044860 **Free PMC article.**

5. [Hair product use, age at menarche and mammographic breast density in multiethnic urban women.](#)

McDonald JA, Tehranifar P, Flom JD, Terry MB, James-Todd T.

- Environ Health. 2018 Jan 4;17(1):1. doi: 10.1186/s12940-017-0345-y.
PMID: 29301538 **Free PMC article.**
6. [Early puberty in 11-year-old girls: Millennium Cohort Study findings.](#)
Kelly Y, Zilanawala A, Sacker A, Hiatt R, Viner R.
Arch Dis Child. 2017 Mar;102(3):232-237. doi: 10.1136/archdischild-2016-310475. Epub 2016 Sep 26.
PMID: 27672135 **Free PMC article.**
 7. [Consumption of caffeinated and artificially sweetened soft drinks is associated with risk of early menarche.](#)
Mueller NT, Jacobs DR Jr, MacLehose RF, Demerath EW, Kelly SP, Dreyfus JG, Pereira MA.
Am J Clin Nutr. 2015 Sep;102(3):648-54. doi: 10.3945/ajcn.114.100958. Epub 2015 Jul 15.
PMID: 26178725 **Free PMC article.**
 8. [Age at menarche: 50-year socioeconomic trends among US-born black and white women.](#)
Krieger N, Kiang MV, Kosheleva A, Waterman PD, Chen JT, Beckfield J.
Am J Public Health. 2015 Feb;105(2):388-97. doi: 10.2105/AJPH.2014.301936.
PMID: 25033121 **Free PMC article.**
 9. [Socioeconomic status and age at menarche: an examination of multiple indicators in an ethnically diverse cohort.](#)
Deardorff J, Abrams B, Ekwaru JP, Rehkopf DH.
Ann Epidemiol. 2014 Oct;24(10):727-33. doi: 10.1016/j.annepidem.2014.07.002. Epub 2014 Jul 11.
PMID: 25108688 **Free PMC article.**
 10. [Early menarche and childhood adversities in a nationally representative sample.](#)
Henrichs KL, McCauley HL, Miller E, Styne DM, Saito N, Breslau J.
Int J Pediatr Endocrinol. 2014;2014(1):14. doi: 10.1186/1687-9856-2014-14. Epub 2014 Jul 15.
PMID: 25089128 **Free PMC article.**

11. [Genome-wide association study of age at menarche in African-American women.](#)
Demerath EW, Liu CT, Franceschini N, Chen G, Palmer JR, Smith EN, Chen CT, Ambrosone CB, Arnold AM, Bandera EV, Berenson GS, Bernstein L, Britton A, Cappola AR, Carlson CS, Chanock SJ, Chen W, Chen Z, Deming SL, Elks CE, Evans MK, Gajdos Z, Henderson BE, Hu JJ, Ingles S, John EM, Kerr KF, Kolonel LN, Le Marchand L, Lu X, Millikan RC, Musani SK, Nock NL, North K, Nyante S, Press MF, Rodriguez-Gil JL, Ruiz-Narvaez EA, Schork NJ, Srinivasan SR, Woods NF, Zheng W, Ziegler RG, Zonderman A, Heiss G, Gwen Windham B, Wellons M, Murray SS, Nalls M, Pastinen T, Rajkovic A, Hirschhorn J, Adrienne Cupples L, Kooperberg C, Murabito JM, Haiman CA.
Hum Mol Genet. 2013 Aug 15;22(16):3329-46. doi: 10.1093/hmg/ddt181. Epub 2013 Apr 17.
PMID: 23599027 [Free PMC article.](#)
12. [Replication of genetic loci for ages at menarche and menopause in the multi-ethnic Population Architecture using Genomics and Epidemiology \(PAGE\) study.](#)
Carty CL, Spencer KL, Setiawan VW, Fernandez-Rhodes L, Malinowski J, Buyske S, Young A, Jorgensen NW, Cheng I, Carlson CS, Brown-Gentry K, Goodloe R, Park A, Parikh NI, Henderson B, Le Marchand L, Wactawski-Wende J, Fornage M, Matisse TC, Hindorff LA, Arnold AM, Haiman CA, Franceschini N, Peters U, Crawford DC.
Hum Reprod. 2013 Jun;28(6):1695-706. doi: 10.1093/humrep/det071. Epub 2013 Mar 18.
PMID: 23508249 [Free PMC article.](#)
13. [Prenatal and infant exposures and age at menarche.](#)
D'Aloisio AA, DeRoo LA, Baird DD, Weinberg CR, Sandler DP.
Epidemiology. 2013 Mar;24(2):277-84. doi: 10.1097/EDE.0b013e31828062b7.
PMID: 23348069 [Free PMC article.](#)
14. [African-American/white differences in the age of menarche: accounting for the difference.](#)
Reagan PB, Salsberry PJ, Fang MZ, Gardner WP, Pajer K.

Soc Sci Med. 2012 Oct;75(7):1263-70. doi:
10.1016/j.socscimed.2012.05.018. Epub 2012 Jun 8.
PMID: 22726619 **Free PMC article.**

15. [Childhood hair product use and earlier age at menarche in a racially diverse study population: a pilot study.](#)
James-Todd T, Terry MB, Rich-Edwards J, Deierlein A, Senie R.
Ann Epidemiol. 2011 Jun;21(6):461-5. doi:
10.1016/j.annepidem.2011.01.009. Epub 2011 Mar 21.
PMID: 21421329 **Free PMC article.**
16. [The impact of socioeconomic status across early life on age at menarche among a racially diverse population of girls.](#)
James-Todd T, Tehranifar P, Rich-Edwards J, Titievsky L, Terry MB.
Ann Epidemiol. 2010 Nov;20(11):836-42. doi:
10.1016/j.annepidem.2010.08.006.
PMID: 20933190 **Free PMC article.**
17. [Growth differences by age of menarche in African American and White girls.](#)
Salsberry PJ, Reagan PB, Pajer K.
Nurs Res. 2009 Nov-Dec;58(6):382-90. doi:
10.1097/NNR.0b013e3181b4b921.
PMID: 19680162 **Free PMC article.**
18. [Childhood abuse and early menarche: findings from the black women's health study.](#)
Wise LA, Palmer JR, Rothman EF, Rosenberg L.
Am J Public Health. 2009 Oct;99 Suppl 2(Suppl 2):S460-6. doi:
10.2105/AJPH.2008.149005. Epub 2009 May 14.
PMID: 19443822 **Free PMC article.**
19. [Birth weight, postnatal growth, and age at menarche.](#)
Terry MB, Ferris JS, Tehranifar P, Wei Y, Flom JD.
Am J Epidemiol. 2009 Jul 1;170(1):72-9. doi: 10.1093/aje/kwp095. Epub
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PMID: 19439580 **Free PMC article.**

20. [Socioeconomic status in relation to early menarche among black and white girls.](#)
Braithwaite D, Moore DH, Lustig RH, Epel ES, Ong KK, Rehkopf DH, Wang MC, Miller SM, Hiatt RA.
Cancer Causes Control. 2009 Jul;20(5):713-20. doi: 10.1007/s10552-008-9284-9. Epub 2008 Dec 25.
PMID: 19107561
21. [Associations among insulin, estrogen, and fat mass gain over the pubertal transition in African-American and European-American girls.](#)
Casazza K, Goran MI, Gower BA.
J Clin Endocrinol Metab. 2008 Jul;93(7):2610-5. doi: 10.1210/jc.2007-2776. Epub 2008 Mar 18.
PMID: 18349063 **Free PMC article.**
22. [The pubertal timing controversy in the USA, and a review of possible causative factors for the advance in timing of onset of puberty.](#)
Slyper AH.
Clin Endocrinol (Oxf). 2006 Jul;65(1):1-8. doi: 10.1111/j.1365-2265.2006.02539.x.
PMID: 16817811
23. [Secular trend of earlier onset of menarche with increasing obesity in black and white girls: the Bogalusa Heart Study.](#)
Wattigney WA, Srinivasan SR, Chen W, Greenlund KJ, Berenson GS.
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PMID: 10421080

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