# Supplementary Materials: Hypopigmented Mycosis Fungoides: Loss of Pigmentation Reflects Antitumor Immune Response in Young Patients

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Tables S1 and S2 present case reports and articles that were available through PubMed/Medline and Web of Science searches for “All Fields〡 under the term “hypopigmented mycosis fungoides”. All fields include title, journal, terms, and abstract, among others. The authors of these publications reported cases of hypopigmented lesions diagnosed as hypopigmented mycosis fungoides (HMF), whether they presented solely as hypopigmentation or concomitant with other mycosis fungoides (MF) variants. Up to March 2020, approximately 1075 HMF cases have been published. Publications with cases of HMF have been sorted into studies that report the Fitzpatrick skin phototype (250 patients, Table S1) and those that do not report the Fitzpatrick skin phototype (825 patients, Table S2). Key demographic features relevant to the disease are reported as well. In case both age of onset and diagnosis were published, age of onset was chosen. Country of origin and skin color are reported as initially published.

**Table S1.** Hypopigmented Mycosis Fungoides with Fitzpatrick phototype classification. Cases published up to March 2020.

| **Study** | **Number of Cases** | **Country of Origin/Ethnicity** | **Fitzpatrick Phototype** | **Age of Onset (Years)** |
|---|---|---|---|---|
| Ratnam and Pang, 1994 [1] | 10 | Chinese, Indian and Malayian | Type II: 2<br>Type III: 4<br>Type IV: 4 | 19 (mean) |
| Stone et al, 2001 [2] | 7 | NS | Type IV and V | 35 (mean) |
| Gathers et al, 2002 [3] | 7 | NS | Type I-III: 12<br>Type IV-VI: 12 | 39.5 (mean) |
| Al-Ratrout et al, 2006 [4] | 1 | Saudi Arabian | Type IV | 18 |
| Onsun et al, 2006 [5][a] | 2 | Turkish | Type II: 1<br>Type III: 1 | 5 (mean) |
| Pope et al, 2010 [6][a] | 13 | Canadian, United States/American and Australian | Type I-III: 3<br>Type IV-VI: 10 | 5.8 (mean) |
| Ranawaka et al, 2001 [7] | 5 | NS | Type V: 5 | 22.4 (mean) |
| AlGhamdi et al, 2012 [8] | 18 | Saudi Arabian | Types IV and V | 25 (mean at diagnosis) |
| Kanokrungsee et al, 2012 [9] | 11 | Thailand residents | Type IV: 9<br>Type V: 2 | 37 (mean) |
| Wongpraparut and Setabutra, 2012 [10] | 9 | Thailand residents | Type III: 1<br>Type IV: 6<br>Type V: 2 | 38.2 (mean) |
| Hassab-El-Naby and El-Khalawany, 2013 [11] | 27 | Egyptian | Type II: 1<br>Type III: 9<br>Type IV: 17 | 35.39 (mean) |
| Alhumidi, 2014 [12] | 17 | Saudi Arabian | Type III [b] | 17 (mean) |
| Boulos et al, 2014 [13][a] | 17 | Caucasian, Hispanic, African American and Middle Eastern | Types III or greater: 73%[c] | 8.5 (mean) |
| Gameiro et al, 2014 [a] [14] | 1 | Caucasian | Type III | 5 |
| Hodak et al, 2014 [b] [15] | 29 | Israeli | Type II to III: 43%<br>Type IV to V: 88.9% [c] | 6.2 (mean) |
| Laws et al, 2014 [16][b] | 22 | NS | Type II: 12%<br>Type III: 19%<br>Type IV: 27%<br>Type V: 42% [c] | 11.6 (mean at diagnosis) [c] |
| Mateeva and Kadurina, 2015 [17] | 1 | Caucasian/Bulgarian descent | Type III | 26 |
| Pena-Romero et al, 2016 [18] | 24 | Hispanic | Type III-IV | 24.6 (mean) |
| Tern and Gass, 2018 [19] | 1 | Afro-Caribbean | Type VI | 6 |
| Landgrave-Gomez et al, 2019 [20] | 16 | Hispanic | Type III: 3<br>Type IV: 13 | NS |
| Valencia Ocampo et al, 2019 [21] [a] | 12 | NS | Type II: 3<br>Type III: 4<br>Type IV: 4<br>Type V: 1 | 7.9 (mean) |

NS, Not specified. [a] Publication in which authors make emphasis on pediatric, adolescent and early adulthood presentation. [b] The authors do not report phototype for each patient. However it is mentioned that Saudi Arabia residents are mostly skin phototype III–IV. [c] This data is reported for the whole cohort, without distinction between hypopigmented and other MF variants.

**Table S2.** Hypopigmented Mycosis Fungoides without Fitzpatrick phototype classification. Cases published up to March 2020.

| Study | Number of Cases | Country of Origin/Ethnicity | Age of Onset (Years) |
|---|---|---|---|
| Ryan et al, 1973 [22] | 1 | NS | NS |
| Smith and Samman, 1978 [23] | 1 | West Indian | 4 |
| Breathnach et al, 1982 [24] | 4 [c] | Mauritian, dark skinned Asian and Jamaican | 4.7 (mean at diagnosis) |
| Zackheim et al, 1982 [25] | 3 | Black and Latin American | 38 (mean) |
| Rustin et al, 1986 [26] | 2 | Venezuelian and Indian | 5.5 (mean) |
| Goldberg et al, 1986 [27] | 1 | Puerto Rico/medium-brown | 22 |
| Misch et al, 1987 [28] | 1 | West Indian | 12 |
| Sigal et al, 1987 [29] | 1 | Caucasian | 64 (at diagnosis) |
| Handfield-Jones et al, 1992 [30] | 1 | Jamaican | 11 |
| Volkenandt et al, 1993 [31] | 1 | Brown skin[a] | 32 |
| Whitmore et al, 1994 [32] | 3 | African-American | 15.3 (mean at diagnosis) |
| el-Hoshy and Hashimoto, 1995 [33][b] | 1 | Black skin | 15 |
| Lambroza et al, 1995 [34] | 7 | Jamaican-American, Trinidadian, Liberian, Puerto Rican and African-American | 28.7 (mean) |
| Amichai et al, 1996 [35] | 1 | Caucasian | 27 |
| Di Landro et al, 1997 [36] [b] | 1 | Caucasian | 7 |
| Zakcheim et al, 1997 [37] [b] | 4 [c] | Black, East Indian and Filipino with dark-brown skin and medium-complected white | 9.6 (mean) |
| Moulonguet et al, 1998 [38] | 1 | Caucasian/Light-skin | 31 |
| Grunwald and Amichai, 1999 [39][b] | 1 | Caucasian | 12 (at diagnosis) |
| Quaglino et al, 1999 [40][b] | 1 | White | 16 |
| Zucker-Franklin at el, 1999 [41] [b] | 1 | Grenada/Black skin | 4 |
| Akaraphanth et al, 2000 [42] | 9 | African-American and Thai | 25.2 (mean) |
| Choe et al, 2000 [43] | 1 | NS | 19 |
| Hodak et al, 2000 [44] | 1 | Caucasian | 7 |
| Neuhaus et al, 2000 [45] [b] | 1 | Black skin | 10 (mean) |

**Table S2.** *Cont.*

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| Qari et al, 2000 [46] | 5 | Hispanic/dark, Portuguese/black and African-American | 27.2 (mean) |
| Tan et al, 2000 [47] [b] | 8 | Chinese, Indian and Malay | 9.12 (mean) |
| Whittam et al, 2000 [48] [b] | 1 | Black skin | 18 |
| El-Shabrawi-Caelen et al, 2002 [49] | 15 | Asian, East Indian, African-American, White, Hispanic, Native-American Indian and Ethiopian | 20.6 (mean) |
| Ardigo et al, 2003 [50] | 6 [c] | Caucasian | 30.16 (mean) |
| Ben-Amitai et al, 2003 [51] [b] | 7 | Pigmented and Light skin | 5.6 (mean) |
| Capizzi et al, 2003 [52] [b] | 1 | Italy/Caucasian dark skin | 11 |
| Wain et al, 2003 [53] [b] | 8 | Caucasian, Asian, African-Caribbean | 8.25 (mean) |
| Das and Gangopadhyay, 2004 [54] | 1 | Indian | 16 |
| Fink-Puches et al, 2004 [55] [b] | 2 | NS | NS |
| Gulekon et al, 2005 [56][b] | 1 | Turkish | 3 |
| Hodak et al, 2005 [57] | 2 | NS | 1 (mean) |
| Roupe, 2005 [58] [b] | 1 | Sweden/White skin | 5 |
| Wain et al, 2005 [59] | 2 | Asian and Somalian | 21.5 (mean) |
| Hodak et al, 2006 [60] | 5 | NS | 17.8 (mean at diagnosis) |
| Hsiao et al, 2006 [61] | 1 | NS | 12 |
| Manzur and Zaidi, 2006 [62] [b] | 1 | Pakistanian | 10 |
| Tan et al, 2006 [63] | 47 | Chinese, Malay, Indian | 21.6 (mean) |
| Rodriguez et al, 2007 [64] [b] | 1 | Colombian | 11 |
| Chuang et al, 2008 [65] | 1 | African-American | 41 |
| Ozcan et al, 2008 [66] | 1 | Turkish | 30 |
| Kim et al, 2009 [67] [b] | 5 | NS | 12.2 (mean at diagnosis) |
| Ngo et al, 2009 [68] [b] | 1 | Hispanic | 6 months |
| Alsaleh et al, 2010 [69] [d] | 77 | Kuwaiti, Bedouin, Iraqi, Lebanese, Saudi and Egyptian | 27.6 (mean at diagnosis) |
| Cho-Vega et al, 2010 [70] | 2 | African-American | 13.5 (mean) |
| Costa and Queiroz Zancanaro, 2010 [71] | 1 | Caucasian | 55 |
| Lawrence et al, 2010 [72] [b] | 1 | African-American | 14 |

**Table S2.** *Cont.*

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| Nanda et al, 2010 [73] [b, d] | 24 | Kuwaiti, Bedouin, Iraqi, Lebanese, Saudi and Egyptian | 8.6 (mean at diagnosis) |
| Grover et al, 2010 [74] | 1 | Indian | 2 |
| Khopkar et al, 2011 [75] | 15 | Asian with dark skin type | 32.2 (mean at diagnosis) |
| Yazganoglu et al, 2013 [76] [b] | 9 | NS | 6.2 (mean) |
| Rueda et al, 2011 [77] | 13 | NS | NS |
| Koorse et al, 2012 [78] | 15 | Indian | NS |
| Rizzo et al, 2012 [79] [b] | 5 | Brown, white and black | 10.6 (mean at diagnosis) |
| Uhlenhake and Mehregan, 2012 [80] | 1 | African-American | 49 |
| Castano et al, 2013 [81] [b] | 50 | African-American, Hispanic, Caucasian and Asian | NS |
| Juhas and English, 2013 [82] | 1 | NS | 54 |
| Seif El Nasr et al, 2013 [83] | 14 | NS | 21.3 (mean at time of study) |
| Zhang and Yu, 2013 [84] | 1 | Chinese | 20 |
| Furlan et al, 2014 [85] [d] | 18 | Mixed race, Caucasian, Asian and Black | 29.5 (mean) |
| Furlan et al, 2014 [86] [d] | 34 | Mixed race, Caucasian, Black and Asian/Brasilian | 27 (mean) |
| Heng et al, 2014 [87] [b] | 42 | Chinese, Malay, Indian and others | NS |
| Jimenez Gallo et al, 2014 [88] | 1 | NS | 35 (at diagnosis) |
| Fatemi et al, 2015 [89] | 5 | Iranian | 25.6 (mean at diagnosis) |
| Abdel-Halim et al, 2015 [90] | 16 | Egyptian | 21.31 (mean at diagnosis) |
| Naeini et al, 2015 [91] | 1 | Iranian | 26 |
| Amin et al, 2016 [92] | 1 | African-American | 31 |
| Ichimura et al, 2016 [93] | 2 | Japanese | 17 (mean) |
| Khader et al, 2016 [94] | 2 | Indian | 14.5 (mean at diagnosis) |
| Nasu-Tababuchi et al, 2016 [95] | 1 | Japanese | 11 |
| Paton et al, 2016 [96] | 1 | NS | 16 |
| Patraquim et al, 2016 [97] [b] | 1 | Caucasian | 4 |
| Rowe et al, 2016 [98] | 1 | Dark skin [a] | 71 |
| Bisherwal et al, 2017 [99] | 1 | Indian | 25 |
| Cervini et al, 2017 [100] [b] | 14 | Argentinian | 11.23 (mean at diagnosis) |
| Pradhan et al, 2017 [101] [b] | 1 | Iranian | 2 |
| Rodney et al, 2017 [102] | 20 | African-American, African, Hispanic and Afro-Caribbean | 32.2 (mean) |
| Virmani et al, 2017 [103][b] | 27 | African-American, Asian, Hispanic and Caucasian | NS |
| Binamer 2017 [104] | 19 | Saudi Arabian | NS |
| Martinez-Escala et al, 2017 [105] | 13 | African-American | NS |

**Table S2.** *Cont.*

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| Abdolkarimi et al, 2018 [106][b] | 1 | NS | 10 (at diagnosis) |
| Amorim et al 2018 [107] | 20 | White, Mixed and Black | 43.85 (mean at diagnosis) |
| Ferreira et al, 2019 [108] | 1 | White | 12 |
| Stierman and Bedford-Lyon, 2018 [109] | 1 | NS | 39 |
| Joseph et al, 2018 [110] | 1 | NS | 43 |
| Vilas Boas et al, 2018 [111][b] | 1 | Hispanic | 5 |
| Yang et al, 2018 [112] | 1 | Korean | 10 (at diagnosis) |
| Youssef et al, 2018 [113] | 9 | NS | 17.78 (mean at diagnosis) |
| Park et al, 2018 [114] | 1 | Korean | 21 |
| Ito et al, 2019 [115] | 1 | NS | 55 |
| Jaque et al, 2019 [116] | 10 | NS | NS |
| Lim et al, 2019 [117] | 78 | Chinese, Indian, Malay and Caucasian | 36.4 (mean at diagnosis) |
| Chen et al, 2019 [118] | 1 | Chinese | 2 |
| Geller et al, 2019 [119] | 71 | African-American, Black and Hispanics | NS |
| Kalay Yildizhan et al, 2020 [120] | 5 | Turkish | 28 (mean at diagnosis) |

NS, not specified, [a] Skin color of patient not reported. However, pictures in the figures show the color of the skin. [b] Publication in which authors make emphasis on childhood, pediatric, adolescent and early adulthood presentations of MF. [c] Data on one patient was published before. [d] These case reports are from the same Health Centre of patients seen and treated in the same time period. However, it is not clear whether the publications have overlap of patients.

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