**Table 1: Descriptive statistics of the age, inter-canine arch length, mesio-distal width and mandibular canine index among male and female**

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| **Sex** | **N** | **Mean (mm)** | **Std. Deviation** | **t value** | **P value** |
| **Age** |  |  |  |  |  |
| Male | 100 | 24.78 | 2.706 | 2.432 | 0.016\* |
| Female | 100 | 23.88 | 2.524 |
| **Inter canine distance** | | |  |  |  |
| Males | 100 | 25.779 | 2.0728 | 4.044 | <0.001\*\* |
| Females | 100 | 24.625 | 1.9615 |
| **Mesio-distal width** | | |  |  |  |
| Right side |  |  |  |  |  |
| Male | 100 | 6.599 | 0.4871 | 8.817 | <0.001\*\* |
| Female | 100 | 6.042 | 0.4023 |
| Left side |  |  |  |  |  |
| Male | 100 | 6.659 | 0.4874 | 9.528 | <0.001\*\* |
| Female | 100 | 6.051 | 0.4118 |
| **Mandibular Canine Index** | | |  |  |  |
| Right side |  |  |  |  |  |
| Male | 100 | 0.2526 | 0.02181 | 3.867 | <0.001\*\* |
| Female | 100 | 0.2414 | 0.01918 |
| Left side |  |  |  |  |  |
| Male | 100 | 0.2553 | 0.02224 | 4.631 | <0.001\*\* |
| Female | 100 | 0.2417 | 0.01929 |

**(p< 0.05  - Significant\*, p < 0.001 - Highly significant\*\*)**

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| Table 2(a): Comparison of mandibular canine mesio-distal width, and mandibular canine index in different Indian populations (1989-2011) | | | | | | | | | | | |
| **AUTHORS** | **REGIONS** | **SAMPLE SIZE** | **MALE** | | | | **FEMALE** | | | | |
| **MDW (mm)** | | **MCI (mm)** | | | **MDW (mm)** | | **MCI (mm)** | |
| **RT** | **LT** | **RT** | **LT** | | **RT** | **LT** | **RT** | **LT** |
| **Rao et al, 19898** | Karnataka | 766 (384 M, 82 F) |  |  | 0.296±0.016 |  | |  |  | 0.254 ± 0.014 |  |
| **Yadav et al, 200251** | Davangere, Karnataka | 360 (180 M, 180 F) |  |  | 0.310±0.016 |  | |  |  | 0.288 ± 0.014 |  |
| **Kaushal et al,200325** | Punjab (Patiala) | 60 (30 M,30 F) | 7.229±0.280 | 7.299±0.292 | 0.28 ± 0.01 | 0.282 | | 6.690±0.256 | 6.693±0.323 | 0.26 ± 0.01 | 0.267 |
| **Kaushal et al, 200452** | Punjab (Patiala) | 60 ( 30M& 30 F) | 7.231 ±0.376 | 7.387 ± .322 |  |  | | 6.585±0.300 | 6.6 ± 0.254 |  |  |
| **Reddy et al, 200827** | UP | 200 (100 M,100 F) | 7.017 ± 0.43 | 7.030 ± 0.44 | 0.259±0.003 | 0.261±0.003 | | 6.428 ± 0.35 | 6.446 ± 0.34 | 0.246 ± 0.002 | 0.247 ± 0.002 |
| **Boaz et al,**  **200936** | Karnataka | 100 ( 50 M, 50 F) | 6.9880 | 6.9880 |  |  | | 7.0080 | 7.0520 |  |  |
| **Duraiswamy et al. 200943** | Udaipur, Rajasthan | 145 school children | 7.05± 0.27 | 7.25 ± 0.38 | 20.46 ± 1.86 | 21.07± 2.19 | | 6.22 ± 0.28 | 6.44 ± 0.36 | 18.46 ± 0.80 | 19.14 ± 1.11 |
| **Srivastava et al, 201053** | Bareilly,UP | 400 (200 M,200 F) | 6.60 ± 0.51 | 6.60 ± 0.52 | 0.256±0.019 | 0.257±0.019 | | 6.42 ± 0.46 | 6.45 ± 0.50 | 0.255 ± 0.021 | 0.256 ± 0.022 |
| **Parekh et al, 201154** | Bhavnagar, Gujarat | 368 (216 M,152 F) | 6.66±0.59 | 6.92±0.61 | 0.213±0.024 | 0.219±0.023 | | 5.65±0.53 | 5.77±0.52 | 0.199±0.0239 | 0.203±0.0227 |
| **Shaliputra et al, 201155** | Indore, MP | 350 (175 M, 175 F) | 6.76 ± 0.41 | 6.79±0.38 | 0.258±0.018 | 0.259±0.017 | | 6.56± 0.35 | 6.58± 0.36 | 0.250 ± 0.015 | 0.254± 0.015 |
| **Vishwakarma et al, 201156** | Gwalior, MP | 180 (90 M, 90 F) | 7.4± 0.4246 | 7.4 ± 0.4418 | 2.864±0.289 | 2.888±0.284 | | 6.5± 0.4913 | 6.7 ± 0.5265 | 2.569± 0.271 | 2.645 ± 0.27 |
| **Khandelwa et al, 201157** | Jaipur, Rajasthan | 40 (20 M, 20 F) | 6.52±.34 | 6.49±.37 |  |  | | 6.33±.34 | 6.33±.29 |  |  |
| **MDW: mesio-distal width; ICD: inter-canine distance; MCI: mandibular canine index; RT: right; LT: left; M: male; F: female** | | | | | | | | | | | |

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| Table 2(b): Comparison of mandibular canine mesio-distal width, and mandibular canine index in different Indian populations (2012-2015) | | | | | | | | | | | |
| AUTHORS | **REGIONS** | **SAMPLE SIZE** | **MALE** | | | | **FEMALE** | | | | |
| **MDW (mm)** | | **MCI (mm)** | | | **MDW (mm)** | | **MCI (mm)** | |
| **RT** | **LT** | **RT** | **LT** | | **RT** | **LT** | **RT** | **LT** |
| Yuwanati et al, 201258 | Nagpur, Maharashtra | 100 (50 M, 50 F) | 8.01±0.512 | 7.76± 0.516 |  |  | | 7.74± 0.480 | 7.4± 0.523 |  |  |
| Kende et al. 201259 | Mumbai | 50 casts | 6.97±.64 |  | .  27±.03 |  | | 6.1±.6 |  | 24±.03 |  |
| Grover et al, 201360 | Mysore, Karnataka | 80 (40 M, 40 F) | |  | | --- | | 7.18±.35 | | 7.02±0.337 | 0.25 ± 0.025 | 0.23 ± 0.021 | | 6.52±0.538 | 6.72±0.502 | 0.22 ± 0.031 | 0.21 ± 0.028 |
| Rayamane et al, 201461 | Mysore, Karnataka | 200 students | 7.4 ±0.42 | 7.4 ±0.44 | 2.864 ±0.29 | 2.888± 0.28 | | 6.5 ±0.49 | 6.7± 0.53 | 2.569 ±0.27 | 2.645 ±0.27 |
| Sai Kiran et al, 201423 | Andhra Pradesh | 60 (30 M, 30 F) | 7.19±0.46 | 7.23 ±0.44 |  |  | | 6.73±0.31 | 6.81± 0.27 |  |  |
| Pramod R C et al, 201462 | Karnataka | 200 (100M, 100 F) |  |  | 6.72±0.578 | 6.855±0.461 | |  |  | 6.299±0.497 | 6.103±  0.432 |
| MJ Baheti et al, 201463 | Loni, Maharashtra | 70 (35 M, 35 F) |  |  |  |  | |  |  |  |  |
| Bakkannavar et al, 201564 | Karnataka | 500 ( 250 M, 250 F) | 7.20±0.44 | 7.26±0.44 | 0.285± 0.01 | 0.287±0.016 | | 6.89±0.41 | 6.94±0.41 | 0.2784±0.015 | 0.2784 ± 0.0150 |
| Patil et al, 201565 | Nagpur, Maharashtra | 200 patients | 7.465±0.6165 |  | 0.344 |  | | 6.960±0.539 |  | 0.319 |  |
| Sreedhar et al, 201524 | Moradabad Uttar Pradesh | 60 (30 M, 30 F | 7.06 ± 0.26 | 7.45 ± 0.26 | 0.25 ± 0.01 | 0.27 ± 0.001 | | 6.28 ± 0.28 | 6.54 ± 0.29 | 0.27 ± 0.01 | 0.28 ± 0.001 |
| Agrawal et al, 201566 | Gujarat | 100 (50 M, 50 F) | 6.79 | 6.67 |  |  | | 6.12 | 5.92 |  |  |
| Singh S. et al, 201567 | Udaipur, Rajasthan | 100 (45 M, 55 F) | 7.19±2.23 | 7.32±2.46 | 0.26±1.88 | 0.26±2.13 | | 6.30±0.35 | 6.35±0.35 | 0.25±0.35 | 0.25±0.35 |
| Grover et al, 201568 | Gandhinagar Gujarat. | 80 (40 M, 40 F) | 6.8245± .291 | 6.81±0.277 | 0.1935 | 0.2110 | | 6.427±0.402 | 6.4492±0.499 | 0.212336 | 0.213048 |
| Girish Hc et al,  201569 | Bangalore | 1000 (500 M, 500F) | 6.74 ± 0.54 | 6.73± 0.59 |  |  | | 6.34 ± 0.52 | 6.39 ± 0.55 |  |  |
| MDW: mesio-distal width; ICD: inter-canine distance; MCI: mandibular canine index; RT: right; LT: left; M: male; F: female | | | | | | | | | | | |

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| Table 2(c): Comparison of mandibular canine mesio-distal width, and mandibular canine index in different Indian populations (2016-2019) | | | | | | | | | | | |
| AUTHORS | **REGIONS** | **SAMPLE SIZE** | **MALE** | | | | **FEMALE** | | | | |
| **MDW (mm)** | | **MCI (mm)** | | | **MDW (mm)** | | **MCI (mm)** | |
| **RT** | **LT** | **RT** | **LT** | | **RT** | **LT** | **RT** | **LT** |
| Gupta et al, 201670 | Puducherry | 160 (53 M, 53 F) | 6.99±0.53 | 7.02±0.60 | 6.99±0.53 | 7.02±0.60 | | 6.41±0.41 | 6.46±0.40 | 6.41±0.41 | 6.46±0.40 |
| Latif et al,  201671 | Ambala, Haryana | 150 75 M, 75 F) | 7.059 ±0.428 | 7.064± .424 | 0.269±0.019 |  | | 6.470±0.444 | 6.476 ± 0.446 | 0.253±0.011 |  |
| Rajarathnam et al, 201672 | Karnataka | 200 100 M, 100 F) | 6.81± 0.41 | 6.91± 0.40 | 0.26± 0.0 | 0.26 ±0.02 | | 6.37± 0.41 | 6.46± 0.39 | 0.25± 0.02 | 0.25± 0.01 |
| Nazeer et al, 201773 | Patna, Bihar | 100 (50 M, 50 F) | 7.017 ± 0.43 | 7.030 ± 0.44 |  |  | | 6.428 ± 0.35 | 6.446 ± 0.34 |  |  |
| Kumawat et al, 201774 | Nashik, Maharashtra | 300 (150 M, 150F) | 6.66±0.40 | 6.72±0.40 | 0.25±0.002 | 0.25±0.001 | | 6.37±0.34 | 6.44±0.33 | 0.24±0.011 | 0.24±0.01 |
| Gandhi et al, 201775 | India | 62 (31 M, 31 F) | 6.952±0.5598 | 6.960±0.557 | 0.248±0.022 |  | | 6.506±0.488 | 6.467±0.4834 | 0.250±0.0170 |  |
| Patel et al, 201776 | Gujarat | 400 (200 M, 200 F) | 6.89±0.24 | 6.89±0.24 | 0.26 ± 0.024 |  | | 6.36±0.34 | 6.36±0.34 | 0.249 ± 0.20 |  |
| Thabitha Rani et al, 201777 | Nalgonda, Telangana | 180 (90 F, 90 M) | 6.7 ± 0.9 |  | 25.8 ± 1.9 | 25.8 ± 2.2 | | 6.4 ± 0.9 |  | 25.0 ± 2.2 | 25.1 ± 2.2 |
| Naikoo FA et al, 201778 | Kashmir | 125 (64 M, 61 F) | 7.53± 0.435 | 7.49± 0.544 |  |  | | 6.01± 0.318 | 5.97 ±0.407 |  |  |
| Bhagyashree B et al, 201810 | Parbhani, Maharashtra | 100 (50 M, 50 F) | 6.99±0.26 | 6.97±0.23 | 0.27±0.01 | 0.27±0.01 | | 6.50±0.47 | 6.45±0.44 | 0.26±0.01 | 0.26±0.01 |
| Jacob et al, 201879 | Pune, Maharashtra | 1000 (500M, 500 F) |  |  | 0.284 |  | |  |  | 0.27 |  |
| Sonia Bai et al, 201980 | Andhra Pradesh | 300 (150 M, 150 F) | 7.01 ± 0.49 | 6.94± 0.47 | 0.26± 0.02 | 0.26±0.02 | | 6.40± 0.41 | 6.38± 0.40 | 0.25± 0.02 | 0.25± 0.02 |
| Vinay J et al, 201981 | Bengaluru, Karnataka | 60 (35 M, 25 F) | 7.65±0.50 | 7.66±0.49 | 0.288±0.018 | 0.288±0.018 | | 6.96±0.36 | 6.97±0.37 | 0.2823±0.019 | 0.2827±0.0198 |
| MDW: mesio-distal width; ICD: inter-canine distance; MCI: mandibular canine index; RT: right; LT: left; M: male; F: female | | | | | | | | | | | |

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| Table 3(a): Comparison of mandibular canine mesio-distal width, and mandibular canine index in different International populations (1967-2012) | | | | | | | | | | | | | | | | |
| AUTHORS | **REGION** | **SAMPLE SIZE** | **MALE** | | | | | | **FEMALE** | | | | | | | |
| **MDW(mm)** | | | **MCI(mm)** | | | **MDW(mm)** | | | **MCI(mm)** | | | |
| **RT** | | **LT** | **RT** | | **LT** | **RT** | | **LT** | **RT** | | **LT** | |
| Garn et al.,19675 | South-western Ohio. | 243 subjects | 6.98± 0.40 | |  |  | |  | 6.56± 0.41 | |  |  | |  | |
| Anderson et al, 197311 | Canada | 171 (83 M, 88 F) | 7.12±0.42 | |  |  | |  | 6.69±0.34 | |  |  | |  | |
| Yuen K. et al , 199782 | Hong Kong, China | 112 (61 M, 51 F) | 7.287± .366 | |  |  | |  | 6.922±0.427 | |  |  | |  | |
| Al-Rifaiy et al, 199735 | Saudi Arabia | 503(251 M, 252F) | 6.93 ± 0.661 | | 6.912 ± 0.650 |  | |  | 6.801±0.92 | | 6.831±0.93 |  | |  | |
| Olav et al, 199883 | Norway | 144 (64 F, 80 M) | 19.06 ± 0.14 | |  |  | |  | 18.24 ± 0.18 | |  |  | |  | |
| Vodanovic et al, 200784 | Osijek, Croatia |  | 6.70 ±0.62 | |  |  | |  | 6.64 ±- 0.32 | |  |  | |  | |
| Ren et al, 201085 | Malaysian Indian community. | 216 (76M, 140 F) | 7.07±0.25 | |  | 0.260±0.019 | |  | 6.31±0.37 | |  | 0.236±0.012 | |  | |
| Ibeachu et al, 201286 | Nigeria | 300 (150 M, 150 F) | 7.790 ± 0.50 | | 7.88 ± 0.050 | 0.228±0.12 | | 0.230±0.20 | 6.760±0.05 | | 6.75±0.050 | 0.208±0.14 | | 0.207±0.14 | |
| Mirza et al, 201287 | Pakistan | 77 (39 M, 38 F) | 7.192 ± 0.62 | |  | 2.95 ± 0.209 | |  | 6.329 ± 0.618 | |  | 2.208 ± 0.38 | |  | |
| MDW: mesio-distal width; ICD: inter-canine distance; MCI: mandibular canine index; RT: right; LT: left; M: male; F: female | | | | | | | | | | | | | | | |
| Table 3(b): Comparison of mandibular canine mesio-distal width, and mandibular canine index in different International populations (2013-2018) | | | | | | | | | | | | | | | | |
| AUTHORS | **REGION** | **SAMPLE SIZE** | **MALE** | | | | | | | **FEMALE** | | | | | | |
| **MDW(mm)** | | | | **MCI(mm)** | | | **MDW(mm)** | | | **MCI(mm)** | | |
| **RT** | **LT** | | | **RT** | **LT** | | **RT** | **LT** | | **RT** | | **LT** |
| Muhamedagiæ et al, 201388 | Bosnia and Herzegovina | 180 (90 M, 90 F ) | 7.41± 0.40 | 7.14± 0.38 | | | 0.259 ± 0.015 | 0.250 ± 0.014 | | 6.87± 0.32 | 6.62± 0.31 | | 0.247 ± 0.01 | | 0.238± 0.01 |
| Ayoub F et al, 201445 | Lebanon | 133(54 M, 69 F, 10 undetermined) | 7.188 ±0.31 | 7.187±0.350 | | |  |  | | 6.549 ±0.332 | 6.541 ±0.343 | |  | |  |
| Andrea et al, 201589 | Sicily | 187 (74 M, 96 F, 17 undetermined) | 6.85 ±0 .73 |  | | |  |  | | 6.71 ± .27 |  | |  | |  |
| Silva et al, 201546 | Portugal | 120 (70 F, 50 M) | 8.64± 0.59 | 8.64± 0.56 | | | 0.31± 0.02 |  | | 7.63 ±0.49 | 7.70± 0.48 | | 0.30± 0.02 | |  |
| Raza Iqbal et al, 201590 | China | 216 (117 M, 119 F) | 6.907 ± 0.42 | 6.865 ± .4739 | | | 0.257 ± 0.021 |  | | 6.1787 ± 0.44 | 6.2619 ± 0.528 | | 0.236±0.021 | |  |
| R.J. Taduran et al, 201591 | Philippine | 200 (100M, 100F) | 7.279 ± 0.42 |  | | |  |  | | 6.900 ± 0.441 |  | |  | |  |
| Bajracharya M et al, 201892 | Nepal | 300 (150 M, 150 F) | 7.166±0.285 | 7.38 ± 0.3550 | | |  |  | | 6.377±0.378 | 6.2847±0.4111 | |  | |  |
| MDW: mesio-distal width; ICD: inter-canine distance; MCI: mandibular canine index; RT: right; LT: left; M: male; F: female | | | | | | | | | | | | | | | |