

**Supplementary Table 1.** Summary of the studies included

Study (year) Country	Study design	n	AIM subsets	Age	Female n (%)	Disease duration (yrs)	Disease activity	Treatment	Pain measure (range)	Pain severity
Alexanderson et al. <sup>1</sup> (1999) Sweden	Open label	10	DM, PM	Median (range) 53 (27-60)	8 (80)	Median (range) 4 (2-10)	Inactive disease on stable treatment	Baseline: GC 60%, AZA 50%, MTX 10%	SF-36 BP (0-100), VAS (0-100)	Baseline: SF-36 BP; median (range) 88 (25-100) VAS; median (range) 13 (0-75)
Alexanderson et al. (2000) <sup>2</sup> Sweden	Open label	11	DM, PM, OM	Median (range) 47 (23-80)	8 (73)	Median (range) 0.2 (0.1-0.2)	Early AIM with less than 3 months of immunosuppression	Baseline: GC 100%, MTX 10% Oral steroids mg/day median (range): 40 (2.5-60)	SF-36 BP (0-100)	Baseline Median (range) 41 (0-84) <b>12 weeks</b> Median (range) 72 (22-100)
Van der Meulen et al. <sup>3</sup> (2000) Netherlands	Cohort	8	DM, PM, NS	Mean $\pm$ SD 49 $\pm$ 16	7 (88)	<6 months	Newly diagnosed patients requiring treatment	Dexa 10 mg die for 4 days monthly for 3 months	VAS (0-10)	Mean $\pm$ SD Baseline: 4.5 $\pm$ 1.7 3 months: 2.5 $\pm$ 2
Chung et al. <sup>4</sup> (2001) UK	Cross-sectional	113	DM, PM	Mean (range) DM: 50 (25-75) PM: 54 (22-76)	113 (100)	Mean (range) DM: 7 (1-26) PM: 7 (1-25)	Acute cases excluded	N/A	NHP (0-100)	Mean $\pm$ SD All: 30 $\pm$ 32 DM: 30 $\pm$ 31 PM: 31 $\pm$ 33
Heikkilä et al. <sup>5</sup> (2001) Finland	Open label	22	DM, PM, IBM	Mean $\pm$ SD 55 $\pm$ 14	11 (50)	Mean $\pm$ SD 6.4 $\pm$ 6.1	68% stable medication for $\geq$ 3 months, 27% immunosuppression reduction in prior month	GC 91%, AZA 32%, MTX 14%, CYC 5%	VAS (0-100)	Mean $\pm$ SD 26 $\pm$ 27
Sultan et al. <sup>6</sup> (2002) UK	Cohort	34	DM, PM, OM, JDM	Mean 52	N/A	N/A	Active disease 21%	N/A	SF-36 BP (0-100)	Mean DM/PM: 55
Varjù et al. <sup>7</sup> (2003) Hungary	Cohort	21	DM, PM	Mean $\pm$ SD <b>Early recovery:</b> 51 $\pm$ 14 <b>Chronic stage:</b> 44 $\pm$ 15	16 (76)	Mean $\pm$ SD 3.8 $\pm$ 3.8	<b>Early recovery:</b> flare 2-3 weeks before study <b>Chronic stage:</b> stable for 3 months	AZA 24%, MTX 19%, CYC 24%	VAS (0-10)	Mean $\pm$ SD Baseline <b>Early recovery:</b> 34 $\pm$ 27 <b>Chronic stage:</b> 29 $\pm$ 24
Ponyi et al. <sup>8</sup> (2005) Hungary	Cross-sectional	87	DM, PM, OM	Mean $\pm$ SD 51 $\pm$ 11	67 (77)	Median (range) 8.9 (3-22.8)	Active disease 13%	GC alone (70%) On DMARD (30%)	SF-36 BP (0-100)	Mean $\pm$ SD DM: 54 $\pm$ 18 PM: 58 $\pm$ 20 OM: 66 $\pm$ 18

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Alexandersson et al. <sup>9</sup> (2007) Sweden	Open label	9	DM, PM	Median (range) 53 (44-61)	5 (56)	Median (range) 4.5 (2.7-29)	VAS 0-10; mean $\pm$ SD <b>Baseline:</b> PhGA: 0.8 $\pm$ 1 PtGA: 2.8 $\pm$ 1.7 <b>Post-training:</b> PhGA: 0.8 $\pm$ 0.9 PtGA: 2.9 $\pm$ 1.5	Prednisolone mg/day median (range): 2.5 (0-7.5) AZA 67%, CsA 11%, MTX 11%	Borg scale (0-10)	Median (range) Baseline: 1.3 (0-3) Post-training: 1.3 (0-3)
Chung et al. <sup>10</sup> (2007) UK, Sweden	RCT	37	DM, PM	Mean Creatine: 59 Placebo: 50	31 (84)	Median [IQR] Creatine: 9.2 [1-52] Placebo: 8.6 [1-23]	Stable patients with low disease activity per inclusion criteria	Mean GC dose (mg/day): creatine 10.5 / placebo 7.5 AZA 22%, MTX 50%	NHP (0-100) SF-MPQ (0-78)	Mean $\pm$ SD NHP Creatine: 38 $\pm$ 33 Placebo: 30 $\pm$ 29 SF-MPQ Creatine: 36 $\pm$ 27 Placebo: 25 $\pm$ 24
Sadjadi et al. <sup>11</sup> (2010) UK	RCT	60	IBM	Mean $\pm$ SD 65 $\pm$ 9	22 (37)	Mean $\pm$ SD 4.4 $\pm$ 3	N/A	N/A	SF-36 BP (0-100)	Mean $\pm$ SD IBM: 69 $\pm$ 27
van de Vlekkert et al. <sup>12</sup> (2010) Netherlands	RCT	62	DM, OM, NS, NAM	Mean $\pm$ SD Pred: 48 $\pm$ 13 Dexa: 49 $\pm$ 15	39 (63)	Median [IQR] Pred: 3.5 [1-11] Dexa: 4.5 [1-11]	Early AIM with active disease	Randomized to high dose prednisone vs dexamethasone in monotherapy	SF-36 BP (0-100) VAS SF-36, median [IQR] Pred: 6 [3-10] Dexa: 6.5 [2-9]	<b>Baseline</b> VAS, median [IQR] Pred: 32 [0-100] Dexa: 32 [0-100] <b>18 months</b> VAS, median [IQR] Pred: 4 [1-10] Dexa: 5.5 [3-8] SF-36, median [IQR] Pred: 72 [12-100] Dexa: 72 [0-100]
Goreski et al. <sup>13</sup> (2011) USA	Cross- sectional	110	DM	N/A	N/A	N/A	CDASI (0-100): 19.5 $\pm$ 10.5	N/A	SF-36 BP norm-based VAS (0-100)	SF-36 BP, mean DM: 50 VAS, median 0.7

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Mahler et al. <sup>14</sup> <b>Netherlands</b>	Cohort	13	DM, PM	N/A	7 (54)	Median [IQR] 4 [2.5–6.5]	VAS 0–100; mean $\pm$ SD <b>Baseline:</b> PhGA: 55 $\pm$ 8 PtGA: 49 $\pm$ 21	RTX 100% Median [IQR] GC dose (mg/day): 15 [11–20] Additional DMARDs N/A	VAS (0–100)	Mean $\pm$ SD Baseline: 21 $\pm$ 21 At 12 months: N/A
Regardt et al. <sup>15</sup> <b>Sweden</b>	Cross- sectional	31	DM, PM	Mean $\pm$ SD 56 $\pm$ 11	18 (58)	Mean $\pm$ SD 6.8 $\pm$ 5.5	N/A	GC 80%, Prednisolone mg/day; mean $\pm$ SD: 6 $\pm$ 5 % on DMARD N/A	SF-36 BP (0–100)	Mean All: 58 DM: 55 PM: 58
Rose et al. <sup>16</sup> <b>USA</b>	Cross- sectional	43	DM, PM, IBM	Mean $\pm$ SD DM/PM: 56 $\pm$ 11 IBM: 63 $\pm$ 12	DM/PM: 13 (68) IBM: 6 (25)	N/A	N/A	N/A	INQOL	Mean $\pm$ SD PM/DM: 70 $\pm$ 19 IBM: 46 $\pm$ 29
Alexanderson et al. <sup>17</sup> (2014) <b>Sweden</b>	RCT	19	DM, PM	Median [IQR] 60 [52–67]	14 (74)	Median [range] 0.3 (0.2–0.3)	Early AIM (<3 months duration) improving on immunosuppression	Prednisolone mg/day median (range): 40 (30–60) AZA 68%, MTX 16%, CYC 11%	NHP (0–100)	Median [IQR] 9 [0–20]
Mattar et al. <sup>18</sup> <b>Brazil</b>	Open label	13	DM, PM	Mean $\pm$ SD 46 $\pm$ 9	9 (69)	Mean $\pm$ SD 5 $\pm$ 3	VAS 0–10; mean $\pm$ SD <b>Baseline:</b> PhGA: 2.6 $\pm$ 1.2 PtGA: 3.4 $\pm$ 1.4 <b>12 weeks:</b> PhGA: 1.2 $\pm$ 0.6 PtGA: 1.6 $\pm$ 1.2	GC 8%, AZA 54%, MTX 31%, MMF 8%	SF-36 BP (0–100)	Mean $\pm$ SD Baseline: 59 $\pm$ 11 <b>12 weeks:</b> 87 $\pm$ 15
van de Vlekkert et al. <sup>19</sup> (2014) <b>Netherlands</b>	Cohort	45	DM, OM, NS, NAM	Mean $\pm$ SD 49 $\pm$ 14	39 (63)	Median <sup>§</sup> Baseline: 0.3	<b>At inclusion:</b> early AIM with active disease <b>At 18 months:</b> in remission 33%, polyphasic 33% and chronic course 33%.	<b>Baseline:</b> See van de Vlekkert (2010). <b>At 18 months:</b> maintenance treatment in 68% (AZA, MTX, IVIg, MMF)	SF-36 BP (0–100)	Mean Baseline: 42 18 months: 70 Last follow-up*: 65
Cleary et al. <sup>20</sup> <b>USA</b>	Cross- sectional	17	DM, PM, OM, IBM	Mean $\pm$ SD 56 $\pm$ 17	11 (65)	Median [IQR] 4 [2–13]	VAS 0–10; median [IQR] PhGA: 0.8 [0.7–4.5]	GC 59%, MTX 41%, HCQ 18%, AZA 12%, MMF 12%, RTX 12% Mean $\pm$ SD prednisone dose mg/day: 2.8 $\pm$ 1.3	SF-36 BP (0–100)	Median [IQR] 78 [45–95]

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Poulsen et al. <sup>21</sup> (2017) Denmark	Case-control	75	DM, PM	Mean $\pm$ SD 60 $\pm$ 11	48 (64)	Median [IQR] 6.7 [4.1-13]	VAS 0-10; Median [IQR] PhGA 4.4 [2.2-6.7]	GC 21%, DMARD 20%, GC + DMARD 35%	SF-36 BP (0-100) VAS (0-10)	SF-36; mean $\pm$ SD 60 $\pm$ 26 VAS; median [IQR] 2.5 [0.7-4.8]
Feldon et al. <sup>22</sup> (2017) USA	Cross-sectional	1806	DM, PM, IBM, adult JDM <sup>‡</sup>	N/A	1262 (70)	Median [IQR] 9.2 [5-14]	N/A	N/A	SF-12 Norm-based	Mean $\pm$ SE 43 $\pm$ 0.28
Tiffreau et al. <sup>23</sup> (2017) France	RCT	21	PM	Mean $\pm$ SD Program: 52 $\pm$ 10 Control: 58 $\pm$ 16	14 (67)	Mean $\pm$ SD Program: 3.8 $\pm$ 3.4 Control: 5.0 $\pm$ 6.4	Ongoing relapse Inclusion criteria included 20% decrease in muscle strength and myalgias	GC 100% Program: AZA 1% Control: MTX 27%	SF-36 BP (0-100), VAS (0-100)	SF-36, mean $\pm$ SD Program: 50 $\pm$ 25 Control: 48 $\pm$ 21 VAS, mean $\pm$ SD Program: 36 $\pm$ 37 Control: 29 $\pm$ 25
Alexandersson et al. <sup>24</sup> (2018) Sweden	Cohort	49	DM, PM	Mean $\pm$ SD 56 $\pm$ 14	31 (63)	Fixed visit 1 year after diagnosis	VAS 0-100; median [IQR] PhGA: 10 [4-24] PtGA: 27 [7-49]	Prednisolone mg/day [IQR]: 7.5 [5-12.5] On DMARD 94%	SF-36 BP (0-100)	Median [IQR] 74 [51-74]
Baschung-Pfister et al. <sup>25</sup> (2019) Germany	Cross-sectional	48	DM, PM, NS	Median [IQR] 60 [51-66]	36 (75)	Median [IQR] 1.5 [0.3-4.5]	Acute 19%, subacute 15%, chronic 67%	N/A	VAS (0-100)	Median [IQR] 14 [0-31]
Opinc et al. <sup>26</sup> (2019) Poland	Cross-sectional	377	DM, PM, OM, IBM <sup>‡</sup>	N/A	256 (68)	<1 yr: 13% 1-5 yrs: 40% >5 yrs: 47%	N/A	N/A	VAS (0-100)	Mean $\pm$ SD DM: 37 $\pm$ 28 PM: 39 $\pm$ 29 OM: 38 $\pm$ 33 IBM: 22 $\pm$ 27
Wallace et al. <sup>27</sup> (2019) UK	Randomized single-blinded	17	IBM	Median (range) 62 (56-67)	4 (24)	N/A	6MWD (m); mean $\pm$ SD Group A: 327 $\pm$ 92 Group B: 270 $\pm$ 78	N/A	VAS (0-10)	Mean $\pm$ SD A-Baseline: 1 $\pm$ 2 B-Baseline: 1 $\pm$ 3
Albrecht et al. <sup>28</sup> (2020) Germany	Prospective	1999: 170 2017: 72	DM, PM, OM	Mean $\pm$ SD 59 $\pm$ 14 <sup>†</sup>	113 (61) <sup>†</sup>	For 1997: <2 yrs: 30% 2-5 yrs: 29% >2 yrs: 41% For 2017: <2 yrs: 9% 2-5 yrs: 17% >5 yrs: 74%	For 1997: PhGA (0-3): 59% PhGA (4-6): 33% PhGA (7-10): 8% For 2017: PhGA (0-3): 94% PhGA (4-6): 6%	For 1997: GC 84%, AZA 39%, MTX 20%, CYC 7%, CsA 3% For 2017: GC 58%, AZA 26%, MTX 32%, CsA 7%, CYC 3%, MMF 8%, RTX 13%	NRS (0-10)	For 1999: Score 0-3: 47% Score 4-6: 34% Score 7-10: 19% For 2017: Score 0-3: 75% Score 4-6: 17% Score 7-10: 8%

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Christopher-Stine et al. <sup>29</sup> <b>(2020)</b> USA	Cross-sectional	524	DM, PM‡	Mean $\pm$ SD 55 $\pm$ 13	409 (78)	Mean $\pm$ SD 8 $\pm$ 7	In year prior: no flare 22%, 1-3 flares 47%, >4 flares 26%	GC only 7%, DMARD only 37%, GC + DMARD 43%	HAQ-pain (0-3)	Mean $\pm$ SD 1.04 (0.87)
Landon-Cardinal et al. <sup>30</sup> (2020) France	Cohort	55	DM, IMNM, OM	Mean $\pm$ SD DM: 48 $\pm$ 17 IMNM: 54 $\pm$ 15 OM: 49 $\pm$ 15	DM: 10 (83) IMNM: 17 (63) OM: 14 (88)	Mean $\pm$ SD DM: 3 $\pm$ 2 IMNM: 9 $\pm$ 8 OM: 3 $\pm$ 4	VAS 0–10; mean $\pm$ SD DM PhGA: 3 $\pm$ 2 PtGA: 5 $\pm$ 2 IMNM PhGA: 2 $\pm$ 2 PtGA: 4 $\pm$ 3 OM PhGA: 3 $\pm$ 3 PtGA: 5 $\pm$ 12	GC 74%, MTX 26%, AZA 9%, MMF 15%, RTX 13%, IVIG 50%	SF-36 BP (0-100)	Mean $\pm$ SD All: 65 $\pm$ 26 DM: 55 $\pm$ 24 IMNM: 71 $\pm$ 24 OM: 63 $\pm$ 28 All (V2): 76 $\pm$ 21 All (V3): 73 $\pm$ 23
Rockette-Wagner et al. <sup>31</sup> (2021) USA	Cohort	50	DM, PM, IMNM, OM	Mean $\pm$ SD 52 $\pm$ 15	30 (60)	Mean $\pm$ SD 3.1 $\pm$ 4.3	VAS 0–10; Mean $\pm$ SD 3.1 $\pm$ 2.3	N/A	VAS (0-10)	Mean $\pm$ SD 2.7 $\pm$ 2.6
Saygin et al. <sup>32</sup> <b>(2021)</b> USA	Cohort	50	DM, PM, IMNM, OM	Mean $\pm$ SD 52 $\pm$ 15	30 (60)	Mean $\pm$ SD 3 $\pm$ 4.2	VAS (0–10) Mean $\pm$ SD 3.1 $\pm$ 2.3	N/A	VAS (0-10)	Mean $\pm$ SD 2.7 $\pm$ 2.6
Xu et al. (2021) <sup>33</sup> Australia	Cross-sectional	50	DM, PM, IBM, IMNM, NS	Mean $\pm$ SD 62 $\pm$ 13	29 (58)	Median [IQR] 5 [2.5–7.4]	VAS 0–100; median [IQR] PhGA: 17 [5–31] PtGA: 29 [11–49]	N/A	SF-36 BP (0-100)	Mean $\pm$ SD All: 63 $\pm$ 26 Gen pop: 77 $\pm$ 25

Legend: DM, dermatomyositis; PM, polymyositis; OM, overlap myositis; JDM, juvenile dermatomyositis; IBM, inclusion body myositis; NS, non-specific; NAM, necrotizing autoimmune myopathy; IMNM, immune-mediated necrotizing myopathy; PhGA, physician global assessment; PtGA, patient global assessment; CDASI, Cutaneous Dermatomyositis Disease Area and Severity Index; 6MWD, 6-minute walk distance; GC, glucocorticoid; AZA, azathioprine; CYC, cyclophosphamide; CsA, cyclosporin A; DMARD, disease-modifying antirheumatic drugs; MTX, methotrexate; MMF, mycophenolate mofetil; IVIG, intravenous immunoglobulins; RTX, rituximab; HCQ, hydroxychloroquine; Pred, prednisone; Dexa, dexamethasone; SF-36 BP, Short Form-36 Bodily Pain; VAS, visual analog scale; NHP, Nottingham Health Profile; INQOL, Individualized Neuromuscular Quality of Life Questionnaire; SF-12 Short Form-12; NRS, numerical rating scale; HAQ, Health Assessment Questionnaire; N/A, not available.

†On a subsample of 187 AIM patients assessed in 2015. ‡Self-reported.

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