**Supplementary Table S1. Details of reported scabies outbreaks, 1984-2013**

Search terms included: ("scabies"[MeSH Terms] OR "scabies"[All Fields]) AND ("disease outbreaks"[MeSH Terms] OR ("disease"[All Fields] AND "outbreaks"[All Fields]) OR "disease outbreaks"[All Fields] OR "outbreak"[All Fields]).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year range** | **Reference/in text reference** | **Outbreak setting1** | **Number infected** | **Attack rate** | **Duration (months)** | **Estimated cost** | **Treatments utilised** | **Diagnostic method** | **Index case details/ differential diagnosis2** |
| **1984-88** | [1] | AGE | 14 | 50% | 7  |  | 0.5% DDT, 2% disulfriam, 22.5% benzyl benzoate **Treatment failure** | Clinical, Skin scrapings  | CS, 62yo male misdiagnosed as psoriasis, treated with corticosteroids.  |
|  | [2] | HOS | 37 | Staff 44% | 2 |  | 1% lindane | Clinical | CS, 81yo female misdiagnosed as psoriasis, treated with methotrexate, corticosteroids |
|  | [3] | HOS | 16 | NR3 | NR |  | 1% lindane | Clinical, Surveys | CS, misdiagnosed as uremic pruitis |
|  | [4]/[9]  | HOS, AGE | 107 | 65% | 2 | $25,000 | 1% lindane | Skin scrapings | CS, 89yo female misdiagnosed as dermatitis. |
|  | [5] | HOS | 8 | NR | 3 |  | 1% lindane | Skin scrapings | CS, immunosuppressed patient  |
|  | [6]/[52] | AGE | 7 | NR | 3  |  | 1% lindane  | Clinical  | CS |
|  | [7] | AGE | 41 | Staff 36%Residents 31% | 10 |  | 1% lindane10% crotamiton | Skin scrapings | NR |
|  | [8] | AGE | 32 | NR | NR |  | 1% lindane | Clinical | 29/32 misdiagnosed, treated with corticosteroids |
|  | [9] | AGE | 96 | NR | 8 |  | 1% lindane | Clinical | NR |
|  | [10](3 outbreaks) | AGE | A- 11B-NRC-10 | A-34%B-NR C-NR | A-11B-NRC-NR |  | A-NRB-NRC-NR | Clinical,Skin scrapings,  | A-NRB-90 yo with CSC-Alzheimer’s with CS, misdiagnosed as ‘rash’ |
| **1989-93** | [11]/[34] | HOS | 21 | NR | NR |  | 10% crotamiton, 1% lindane | Clinical | CS, 5mo female with HIV, misdiagnosed as ‘non specific dermatitis’, treated with corticosteroids |
|  | [12] | HOS | 15 | NR | NR |  | 10% crotamiton,1% lindane | Skin scrapings | CS, 28yo HIV, misdiagnosed as seborrheic dermatitis, treated with corticosteroids |
|  | [13]/[25](3 outbreaks) | AGE  | A- 65B- 80C- 57 | A- 45.8%B- 33.6% C- 24.7%  | A- 36B- 3 C- 5  |  | A- 1% lindane, 50% BB, 10% crotamiton.B- 1% lindane C- 1% lindane **Treatment failure** All- 5% permethrin | Skin scrapings | A-64% of residents CSB-20 % of residents CSC-NR |
|  | [14] | HOS | 37 | NR | 3 |  | 1% lindane  | NR | CS, 2 males, HIV |
|  | [15]/[30] | AGE | 4 | NR | NR |  | 0.5% malathion | Skin scrapings | 2/4 patients misdiagnosed as senile pruritus, treated with corticosteroids |
|  | [16] | AGE | 20 | Residents 52%, Staff 33% | 2 |  | 1% lindane  | Clinical | CS, 81yo female, misdiagnosed as eczema |
|  | [17] | HOS | 13 | NR | 3 |  | 1% lindane**Treatment failure**5% permethrin | Clinical, Skin scrapings | CS, 76yo female |
|  | [18] | INS (jail) | 65 | 96% | 2  |  | 1% lindane10 % sulfur | Clinical, Skin scrapings  | CS, female, misdiagnosed as psoriasis |
|  | [19](2 outbreaks)  | A- AGEB- HOS | A-34B-19 | A- Residents 15% Staff, relatives 47%. B- 58% | A- 3B- 6 |  | 1% lindane, 10% sulfur | Clinical | A- CS patient B- 3 CS patients |
|  | [20]/[31] | HOS | 77 | Staff 9% Residents 14%Overall 11% | 4 | ~$100,000 | 1% lindane,5% permethrin | Clinical, Skin scrapings | CS, misdiagnosed, as rash, leukoplastic vasculitis treated with corticosteroids |
|  | [21] | HOS | 42 | NR | 2  |  | 10% sulfur  | NR | CS, HIV patient misdiagnosed as seborrheic dermatitis  |
|  | [22]/[29] | HOS | 68 | NR | 2 |  | 1% lindane,5% permethrin | NR | CS, immunosuppressed |
|  | [23] | HOS | 28 | NR | 1 month | $20,000 | 1% lindane | Clinical, Skin scrapings | NR |
| **1994-98** | [24]/[32] | HOS | 278 | Staff 22.5%  | 1 | $50,000 | 10% sulfur | Clinical | CS, 82yo male |
|  | [25]/[14] | INS (day care) | 600 | 75%  | 4 | >$16,000 | 1% lindane, 10% crotamiton | Clinical | CS, misdiagnosed as atopic dermatitis  |
|  | [26]/[45] | AGE | 53 | NR | NR |  | ivermectin | Clinical,Skin scrapings,  | CS in two residents |
|  | [27]/[23] | AGE | 112 | Residents 78%Staff 49%Overall 64% | 12  |  | 1% lindane10% crotamiton, | Clinical,Skin scrapings, | 1. CS, 76yo male on chemotherapy, misdiagnosed as psoriasis2. CS, 80yo male with Alzheimer’s, misdiagnosed as drug reaction.3. Nodular scabies, 72yo male with steroid dependent chronic obstructive pulmonary disorder |
|  | [28] | HOS | 14 | 28.6% | NR |  | NR | NR | CS, 84yo on corticosteroid therapy, misdiagnosed by dermatologist |
|  | [29] | HOS | 32 | 88% | 1 |  | chlorohexane gel,1% lindane | NR | CS, misdiagnosed, treated with corticosteroids |
|  | [30]/[36] | INS (School) | 68 | 13% | 2 |  | 5 % permethrin | Clinical | CS, child with Down syndrome |
|  | [31] | HOS | 21 | Staff 86% | 3 |  | 1% lindane | Clinical, Skin scrapings | CS, misdiagnosed as drug reaction |
|  | [32]/[20] | HOS | 14 | 88%  | 2 |  | malathion, ivermectin | Clinical, Skin scrapings | CS, 45yo HIV patient with history of eczema. |
|  | [33]/[19] | AGE | 34 | 97% | >36 |  | ivermectin,5% permethrin  | Skin scrapings | CS in 3 patients  |
|  | [34]/[46] | AGE | 47 | NR | 5  |  | 1% lindane, 10% crotamiton, ivermectin | NR | NR |
|  | [35]/[27] | HOS | 17 | NR | 8 | $20,000 | 1% lindane**Treatment failure**5% permethrin | Clinical,Surveys | CS, HIV patient misdiagnosed as psoriasis  |
|  | [36]/[37] | HOS | 20 | NR | NR |  | 5% permethrin,ivermectin | NR | CS, 42yo male, HIV |
| **1999-03** | [37] | AGE | 45 | 33% | 1 |  | ivermectin, 1% lindane | Clinical | CS, Down syndrome patient  |
|  | [38]/[28](2 outbreaks) | AGE | A-38B-19 | A- residents 60%, staff 36%48% overallB- residents 93%, staff 83%88% overall | A- 4B- 3 | A-$5505 B- $2700  | 5% permethrin | Skin scrapings | NR |
|  | [39]/[15](3 outbreaks) | AGE | A-19B-3C-3 | NR | A-3 B-3 C-1  |  | 5% permethrin**Treatment failure**25% benzyl benzoate | Skin scrapings  | A- CS, 85yo, misdiagnosed as eczema. B- CS, 89yo man, misdiagnosed as eczema, treated with corticosteroids |
|  | [40] | AGE | 9 | NR | 3  |  | 25% benzyl benzoate 10% crotamiton | NR | CS, 66yo, misdiagnosed as eczema, treated with corticosteroids |
|  | [41]/[40](3 outbreaks) | AGE | A-7B-33C-52 | A- residents 91%, staff 54% Overall 73%B- residents 79% staff 33%Overall 56% C-residents 15% staff 17%Overall 16% | 13 |  | 5% permethrin allethrinivermectin | Clinical, Dermoscopy,Skin scrapings | CS in all three outbreaks |
|  | [42] | INS (handicapped workshop) | 19 | NR | 11 |  | 1% lindane,25% benzyl benzoate allethrinivermectin | NR | CS |
|  | [43] | HOS | 34 | 17% | NR |  | 5% permethrin | NR | CS, 90yo woman from nursing home |
|  | [44]/[10] | INS (prison) | 883 | 70% | 7 |  | 1% lindane,ivermectin | Clinical | CS in 16 patients |
|  | [45]/[24] | HOS | 195 | Staff 15%Patients 40%Overall 28% | 7 | >$54,000 | 5% permethrin  | Clinical  | CS, HIV patient, undiagnosed for 4 months |
|  | [46] | AGE | 15 | NR | 5 |  | 5% permethrinivermectin | Clinical,Skin scrapings  | CS,delayed diagnosis, 10 patients treated with corticosteroids |
|  | [47] | HOS | 16 | 10% | 10  |  | 20% benzyl benzoate | Clinical | CS, misdiagnosed as uremic pruritus |
|  | [48] | HOS | 8 | NR | 2  | $2000 | 5% permethrin | Clinical | CS, HIV patient |
|  | [49] | AGE | 11 | NR | 4  |  | 5% permethrin,ivermectin | NR | NR |
|  | [50] | INS (orphanage) | 131 | 87%  | 2  |  | 10% sulfur | Clinical  | NR |
|  | [51]/[53] | HOS | 18  | Staff 27% | 3  |  | 5% permethrin | Clinical | CS, 92yo |
| **2004-8** | [52] | AGE | 19 | 17%  | 2 |  | NR | NR | NR |
|  | [53] | HOS | 49 | NR | 2  |  | 25% benzyl benzoate | Clinical | CS, HIV patient |
|  | [54] | INS (orphanage) | 14 | 58% | 3  |  | NR | Clinical | CS, all HIV patients, misdiagnosed |
|  | [55] | HOS | 26 | 38% | 4 |  | 1% lindane**Treatment failure**ivermectin | Clinical | CS, long term corticosteroid use |
|  | [56]/[21] | INS (prison) | 96 | 78% | 1 |  | ivermectin | Clinical | NR |
|  | [57]/[18] | AGE | 20 | 31% | 10 |  | 10% crotamiton, 1% lindane | Clinical, Skin scrapings | 85 yo female, senile dementia, treated with corticosteroids |
|  | [58]/[26] | AGE | 23 | NR | 14 | $200,000 | 5% permethrin,10% sulphur ivermectin1% lindane  | Clinical | 1. 83yo female, treated with corticosteroids2. CS, 59 yo female nursing staff  |
|  | [59]/[41] | AGE | 31 | NR | 1  |  | 0.2% lindane | Adhesive tape, Skin scrapings  | NR |
|  | [60]/[49] | AGE | 51 | NR | 7  |  | ivermectin | NR | CS, 78yo female |
|  | [61]/[12] | INS (school) | 4 | 3% | 2 |  | 0.5% malathion,5% permethrin | Clinical  | NR |
|  | [62] | HOS | 26 | 64%  | 1 |  | ivermectin | Clinical,Skin scrapings  | 42yo male, CS diagnosed as ordinary scabies |
|  | [63]/[8] | HOS | 24 | NR | 9  |  | 0.3% lindane,ivermectin | Clinical  | CS, 44yo male, misdiagnosed as eczema, treated with corticosteroids |
|  | [64] | HOS | 10 |  4% | 1 |  | 5% permethrin | clinical | CS, 25yo male with Down syndrome, misdiagnosed as psoriasis.  |
|  | [65]/[38] | AGE | 20 | 13%  | 7  |  | 1% lindane,ivermectin**Treatment failure**5% permethrin | Clinical | CS, female |
| **2009-13** | [66]/[44] | HOS | 19 | 32% | 7  | $47,280  | 1% lindane**Treatment failure**5% permethrinivermectin | Clinical, Skin scrapings  | CS, HIV patient, misdiagnosed as drug reaction |
|  | [67] | AGE | 58 | NR | 4 |  | 25% benzyl benzoate | NR | CS, 85yo, treated with corticosteroids |
|  | [68]/[16](multiple outbreaks over 5 years) | AGE | 148 | NR  | >42  |  | lindane: 80%,ivermectin 18.4%crotamiton 21.4%sulfur 21.4% | Clinical  | NR |
|  | [69]/[22] | INS (nursery) | 13  | NR | 7 |  | 5% permethrin | Clinical, Skin scrapings | CS in staff member |
|  | [70] | HOS | 15 | Staff 38% | 1 |  | ivermectin,5% permethrin | Clinical | CS, burns patient with chronic obstructive pulmonary disease, misdiagnosed as drug reaction |
|  | [71]/[35] | HOS | 22 | 22% | 3 | $20,000 | 5% permethrin | Clinical | CS, renal patient on corticosteroids, misdiagnosed as ‘rash’  |
|  | [72] | AGE | 26  | 62%  | 3 |  | ivermectin,5% permethrin  | NR | CS, mentally disabled, hospitalised for renal complaint.  |
|  | [73]/[11] | INS (workshop) | 30 | 7% | 5  | $50,000 | 5% permethrin,ivermectin | Clinical | CS in 5 patients |
|  | [74]/[13] | INS (kindergarten) | 59 | 42% | 1 |  | 5% permethrin,25% benzyl benzoate  | NR | Teacher with scabies not diagnosed for 2 months.  |

1AGE= Aged care facility, HOS= Hospital, INS= Other Institution; 2CS= Crusted scabies; 3NR= Details not reported

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