



2022 Award Winner Webinar: Innovative Strategies & Partnerships to Improve Asthma Outcomes Through a Comprehensive Approach





Question & Answer Session on AsthmaCommunityNetwork.org Discussion Forum

Please join us in the [AsthmaCommunityNetwork.org Discussion Forum](https://www.asthmacommunitynetwork.org) for a
live online Q&A Session.

3:00 p.m. – 3:30 p.m. EDT

To post a question in the [Discussion Forum](#), follow these directions:

1. If you are a Network member, log in to your [AsthmaCommunityNetwork.org](https://www.asthmacommunitynetwork.org) account.

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2. Click on the “[Discussion Forum](#)” button on the home page.
3. Click on the “[Live Online Q&A for 5/24/22 Webinar](#)” link.
4. Click on the “[Add new Forum topic](#)” link to post your question.
5. Enter your question and click the “[Save](#)” button at the bottom of the page.

Learning Objectives

Winners will share how they—

- Expanded the reach, effectiveness and sustainability of comprehensive asthma control services in Utah.
- Developed partnerships and a screening protocol to address high-risk clients' social, mental, physical and emotional needs to help control their asthma.
- Established a home-visiting program shown to improve asthma outcomes, including a 75 percent reduction in asthma-related emergency department visits.
- Worked with payers to seek sustainable financing for the Utah Asthma Home Visiting Program, which included conducting a return-on-investment (ROI) analysis that secured additional funding to expand the program to Medicaid members in rural fee-for-service areas.

Featured Speakers



Nichole Shepard,
M.P.H., EP-C, Asthma
& Healthy Aging
Program Manager,
Utah Department of
Health



Brian Roach, Assistant
Director, Division of
Medicaid and Health
Financing, Utah
Department of Health



Andrea M. Jensen,
CHES®, AE-C, Asthma
Program Coordinator, Utah
County Health Department



Tracey Mitchell, RRT,
AE-C, U.S. Environmental
Protection Agency (EPA)



Polling Question 1

What type of organization do you represent?

1. Government agency
2. Health care provider
3. Health plan
4. Community-based program
5. Other



Environment Plays a Critical Role in Asthma Control

- Federal asthma guidelines recognize environmental trigger reduction as a critical component of comprehensive asthma care.*
- The evidence base demonstrates that in-home environmental interventions are effective at improving asthma control in children and adolescents.†

EPA is a federal lead for the integration of environmental risk reduction into standards of care.

EFFECTIVE IN-HOME ENVIRONMENTAL INTERVENTIONS

Home-Based

- Includes at least one home visit by trained personnel to improve the home environment
- Examples: community health workers, clinicians, health care providers

Multi-Component

- Includes at least two components, including at least one environmental component
- Activities may include asthma-related education, self-management training, environmental assessment and remediation, social services, coordinated care

Multi-Trigger

- Targets two or more potential asthma triggers, including mice, cockroaches, dust mites, excess moisture and mold, household pets, tobacco smoke

* NHLBI. *Guidelines for the Diagnosis and Management of Asthma* (EPR-3). 2007. <https://www.nlm.nih.gov/health-topics/guidelines-for-diagnosis-management-of-asthma>

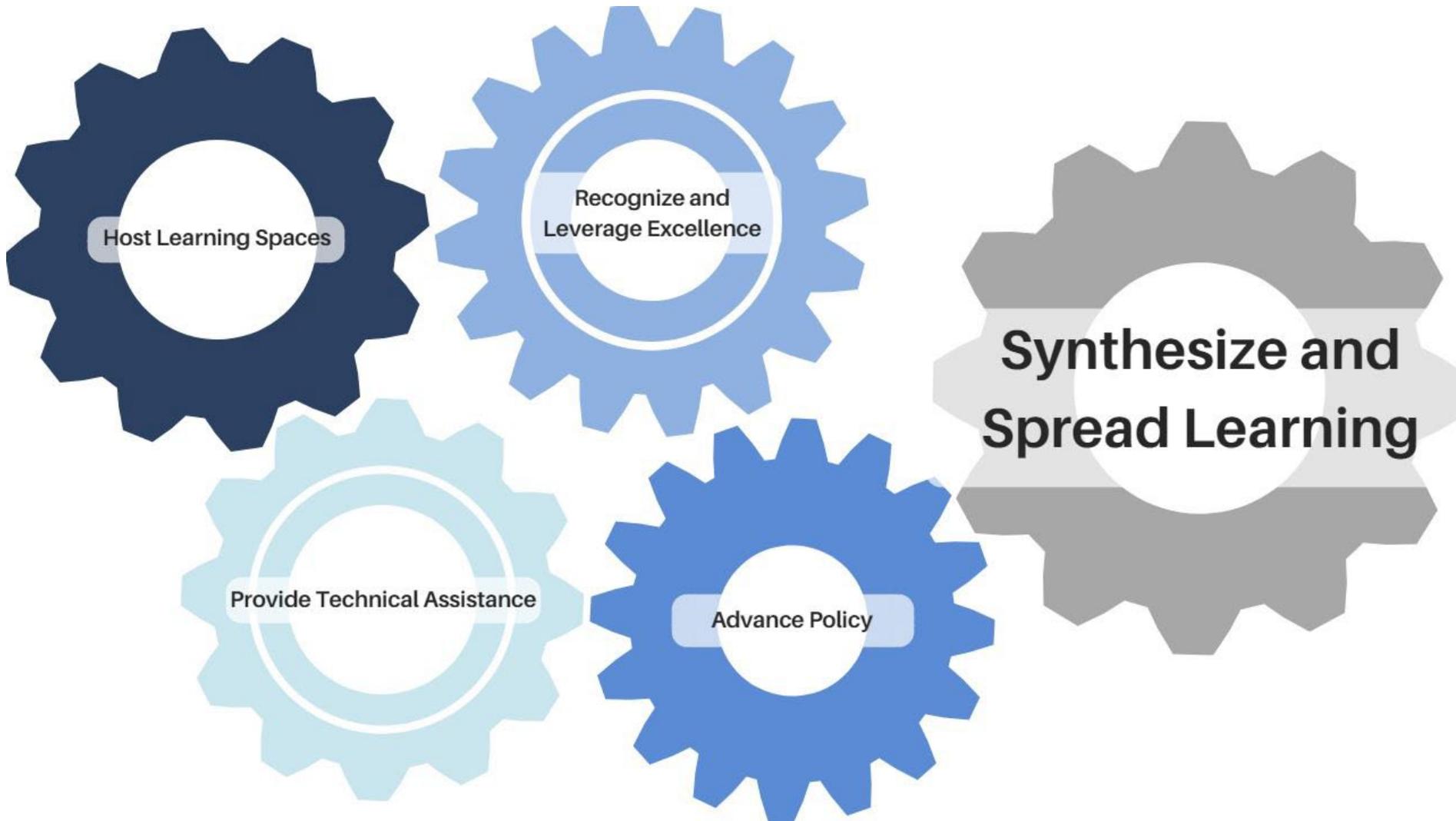
† CDC. *The Guide to Community Preventive Services*. 2005. <https://www.thecommunityguide.org>

From the Asthma Community Network's Financing Microsite





Supporting In-Home Interventions to Bring Asthma Under Control



The System for Delivering High-Quality Asthma Care



About the Award

National Environmental Leadership Award in Asthma Management



Nation's highest honor for exceptional asthma management programs

- **Goal:** The award program showcases and spreads best practices in comprehensive asthma care and management.
- **Eligibility:** Applicants must follow national guidelines (National Institutes of Health) and address published criteria for achieving improved health outcomes and program sustainability, especially for environmental justice communities.
- **Review:** Applications undergo a two-tiered review process, which includes reviewers from other federal agencies and national nongovernmental organizations.

About the Award

National Environmental Leadership Award in Asthma Management

The application focuses on three areas:

1. Comprehensive Asthma Management
 - a. Management and Operations
 - b. Integrated Health Care Services
 - c. **Tailored Environmental Services**

2. Getting Results: Evaluation

3. Sustainability





Award Winners Hall of Fame

www.asthmacommunitynetwork.org/awards/winners



L.A. Cares About Asthma™





In Their Own Words

National Environmental Leadership Award in Asthma Management



“Winning the award has opened doors for us that were previously closed and moved our program much further along in achieving sustainability.”
Kathleen Bowden, Children’s Hospital of Richmond at Virginia Commonwealth University, You Can Control Asthma Now (UCAN) Program, 2017 Award Winner

“Asthma is one of the best opportunities to have a real and true successful outcome in terms of repayment and actual change in policy and impact to communities under the Pay for Success model.”

Ruth Ann Norton, Green & Healthy Homes Initiative, 2015 Award Winner

“Receiving the award reinforces our team’s efforts to improve the lives of Medicaid children with asthma in Georgia.”

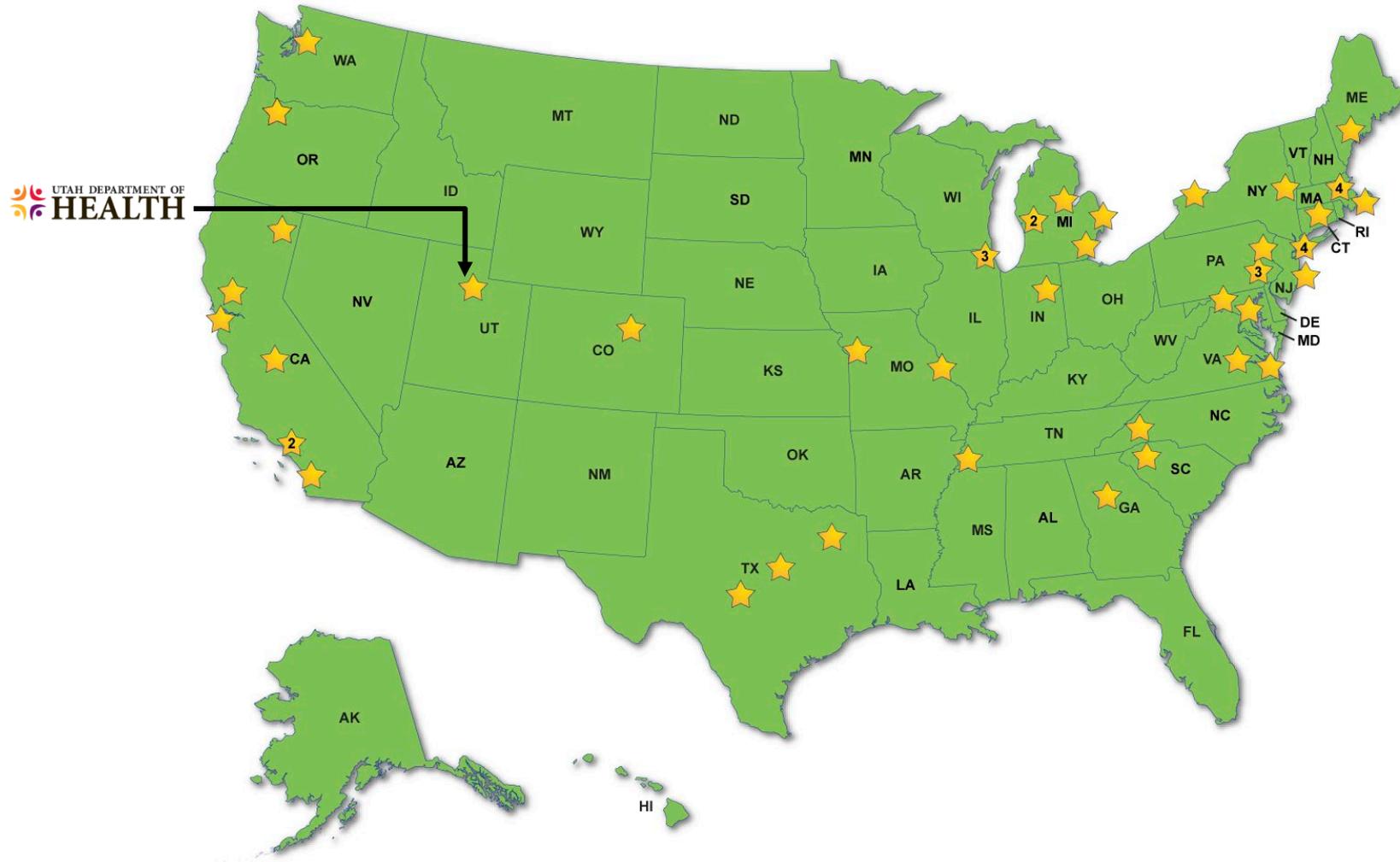
Dean Greeson, Peach State Health Plan, 2014 Award Winner





Awards Hall of Fame

Since 2005, 51 asthma programs been inducted into the Awards Hall of Fame.



Utah Asthma Program (UAP)

Formed in 2001 with funding from the Centers for Disease Control and Prevention (CDC) National Asthma Control Program.

Mission—Make sustainable connections to improve the lives of those with asthma based on the following:

- Enhance & develop partnerships
- Conduct surveillance & evaluation
- Promote the use of best practices
- Share resources & facilitate open communication

Overview

- Utah Asthma Home Visiting Program
- Partnerships
- Sustainable financing



**Utah Asthma Home
Visiting Program
(UAHVP)**

Program History



2015

2016

2019

2021



Regional Approach
One contract serving
3 local health districts

Visit Format



Visit 1 - Asthma Education

↓ 2-3 weeks



Visit 2 - Environmental Assessment

↓ 4-6 weeks



Visit 3 - Discuss Progress & Goals

↓ 6 months



6-Month Follow-Up Call

↓ 6 months



12-Month Follow-Up Call

Target Population

All Ages

Persistent,
Uncontrolled
Asthma

Emergency
Department (ED) Visit
or Hospitalization



Course of Oral
Steroids



Asthma Control Test
Score of 19 or Less

1 of 3 questions Responded: 0/10 **Adult ACE** Participant ID: 1234567890
12 questions 11 answered Age: 12+ 100%

Asthma Control Test™

PATIENTS: Responded and completed will verify the correct number to be able to see updated your questions.

1. In the past 4 weeks, how often do you have asthma symptoms that prevent you from doing your usual activities?
None 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178



Visit 1

Learn about asthma symptoms, triggers, medications, and inhaler technique.



Visit 2

Walk through your home to identify asthma triggers, then set goals to reduce these triggers.



Visit 3

Discuss progress on controlling your asthma and reducing triggers.



Make Connections

No doctor?



No insurance?



Social Determinants of Health Screening



Food



Transportation



**Medication
Cost Assistance**



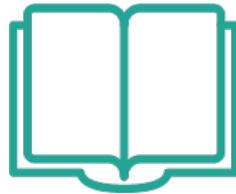
**Work
Resources**



**Mental Health
Services**



**Substance Abuse
Services**



**Education
Resources**



Utilities



Housing



**Domestic Violence
Support**

Referral to Community Resources

[way to quit !\[\]\(f152152632903f782d05f2953c43b347_img.jpg\) .org](http://waytoquit.org)



UTAH
FOOD
BANK



Utah Domestic Violence Coalition

Advocate • Collaborate • Educate



Environmental Services

- Asthma trigger education & in-home assessment
- Referral to home remediation services as needed



Community-Based Organizations



Local Housing Authorities

Current Status



- 535 enrolled
- 456 have completed the program
- 290 have completed 12-month follow-up

Program Outcomes

↓ **Reduces Unwanted and Costly Events***
12 Months After Completing the Program



80% decline in average missed work days.



51% decline in average missed school days.



41% reduction in average unplanned doctor visits.



51% reduction in episodes requiring an oral systemic corticosteroid.



75% reduction in asthma-related ED visits.



87% reduction in asthma-related hospitalizations.

*Self-report data collected at visit 1 and 12 months after visit 3

Partnerships

Asthma Task Force

Mission—Utah communities working together to improve the quality of life for people with asthma.



**Healthcare
Systems**



**Housing
Organizations**



**Government
Organizations**



**Community-
Based
Organizations**

Local Health Departments (LHDs)



Words used by clients to
describe home visitors:

Helpful

Kind

Knowledgeable

Genuine

Caring

**100% of
clients
agreed or
strongly
agreed:**

- The home-visiting program exceeded my expectations.
- I have a good relationship with the home visitor.
- The program will improve my quality of life.
- I learned a lot from the home visitor.



- Refers high-risk patients to asthma home-visiting services.
 - 350+ referrals received.
- Conducted analyses to compare healthcare utilization among referrals who declined vs. completed the UAHVP.
 - 67% decrease in the mean number of ED visits among those who completed the program.
 - Data administrators shared findings with colleagues at SelectHealth, which led to conversations on reimbursement.

Primary Children's Hospital

Identify

Hospital data administration set up a data query to identify patients who qualify for referral to the UAHVP.

Consent

Referral list sent to case management department to call and get consent to release information to LHDs.

Services

LHDs call referrals and provide home-visiting services.

Feedback

LHDs fill out a spreadsheet on patient status at the end of each month and email it to hospital staff.



Green & Healthy Homes Initiative™ | Salt Lake

Brings together partners, resources, and funding to implement housing strategies to create healthy, safe, and energy-efficient homes.

Visit 1

- Health educator screens for Green & Healthy Homes eligibility criteria.

Visit 2

- Green & Healthy Homes staff complete an environmental home assessment.
- Clients receive a mattress and pillow cover, air filtration unit, cleaning supplies, and HEPA vacuum.
- Assistance is provided to apply for remediation services.



Utah Pediatric Partnership to
Improve Healthcare Quality

- Promote guidelines-based asthma care.
- Annual quality improvement learning collaboratives for primary care and pediatric clinics.
- All Payer Claims Database is used to identify geographic areas with high asthma burden and emergency department rates.
 - Build referral channels and target quality improvement efforts with clinics in those areas.

Sustainable Financing

Sustainable Financing

Goal: Support the long-term sustainability of asthma home-visiting services in Utah.

Sustainable Financing Strategies

- Technical Assistance
 - CDC 6|18 Initiative
 - CDC Economic Evaluation Training
 - National Centers for Healthy Housing
 - Data Stewards

The Economic Case: Cost Savings and Return on Investment, 2019

Cost Components	Yearly funding provided to Local Health Departments to administer the program
Cost	\$120,000
% Decrease in Total ED Visits	70%
% Decrease in Total Hospitalizations	82%
Cost Savings	\$442,353.33
ROI	\$2.69 saved

Medicaid—Utah's Process

- Presented to Medicaid Medical Care Advisory Committee
 - 2017 (ranked 18) & 2018 (ranked 9)
- Included the UAHVP in a State Block Grant funding request (not approved)
- Requested funding through Medicaid administrative funds

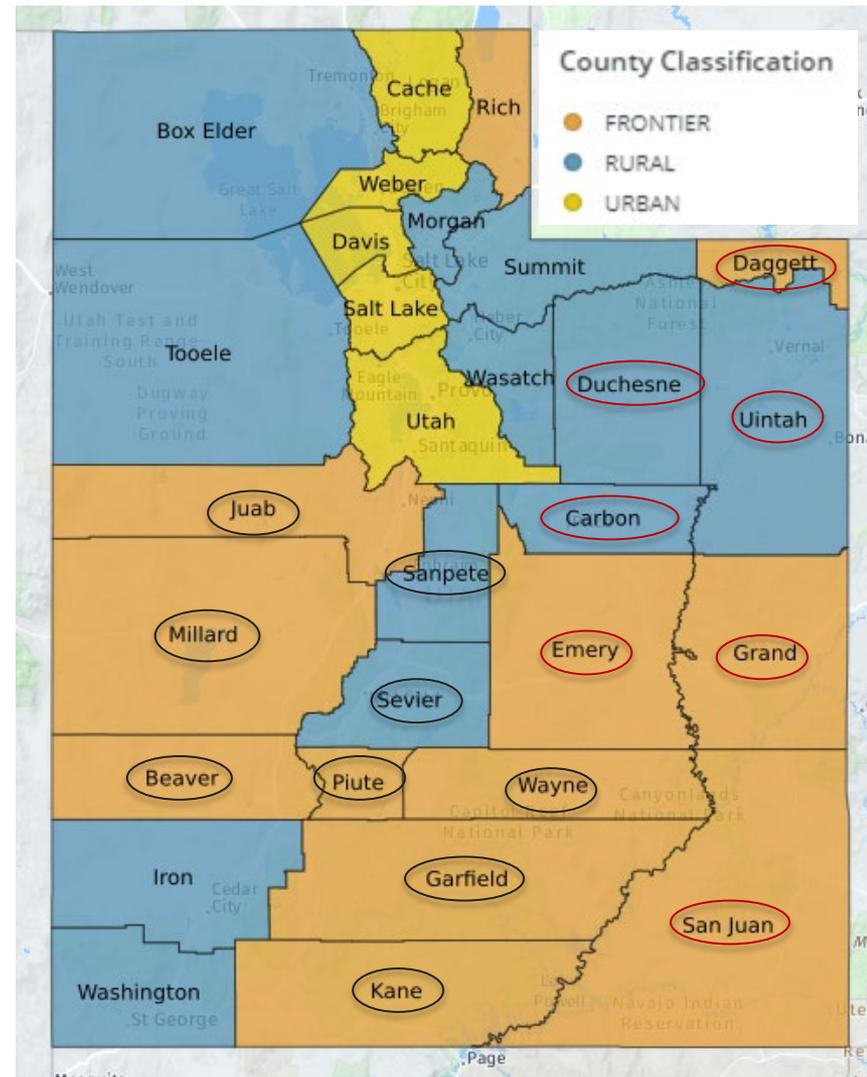
Medicaid

Pros & Cons of Different Avenues for Medicaid Funding

- Direct provider reimbursement
 - State plan amendment
 - Waiver
- Administrative cost reimbursement

Medicaid

- Eligibility limited to Medicaid fee-for-service areas in Utah, serving rural & frontier counties
- 2019—Pilot contracts with two LHDs
- 2021—Regional approach with one contract serving three LHDs
- Hoping to expand to six additional counties in 2022 or 2023





- Met with SelectHealth Medicaid management to present UAHVP outcomes among SelectHealth members
- SelectHealth supported an analysis of cost savings
 - Established contractual relationships with LHDs
 - ROI analysis to be performed
 - Began in January 2022

University of Utah Health Plans (UUHP)

- UUHP helped develop asthma home-visiting curriculum
- UUHP case managers attend quarterly Asthma Home Visiting Network meetings to coordinate efforts



- UUHP works with Green & Healthy Homes Salt Lake to provide an in-home assessment and trigger reduction supply kit to its members with asthma.
- Those who qualify for additional remediation services through the county are assisted in applying for those services.

HEALTH CHOICE UTAH

- UAP presented during a CDC 6|18 meeting on UAHVP outcomes
- Following this meeting, UAP and Health Choice Utah discussed partnership opportunities
- A draft revenue agreement was presented, which outlined the UAHVP referral system, payment model, services, and responsibilities

Questions?

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Polling Question 2

Based on today's presentation, what action do you feel more equipped to take in your asthma program?

1. Approach and enlist new community partners.
2. Expand and enhance your programs' in-home asthma visits.
3. Refine my program's tracking to demonstrate more effective health outcomes and ROI data.
4. Request a mentor on [AsthmaCommunityNetwork.org](https://www.AsthmaCommunityNetwork.org).
5. Apply for the 2023 National Environmental Leadership Award in Asthma Management.



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